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LEAKING UNDERGROUND STORAGE TANK RELATIVE RISK RANKING SAMPLING
NINTEEN LUST SITES NS GREAT LAKES IL
12/1/2002
TOLTEST, INC

1084

Delivery Order Closure Report

Leaking Underground Storage Tank Relative Risk Ranking Sampling Nineteen LUST Sites at GLNTC *Great Lakes, Illinois*

Environmental Job Order Contract No. N68950-00-D-0200
Delivery Order No. 0028

Prepared for:
Department of the Navy
Naval Training Center (NTC) -
Environmental Department
Building 1-A, 201 Decatur Avenue
Great Lakes, Illinois 60088-5600

Submitted by:
TolTest, Inc.
1000 S. Northpoint Boulevard
Waukegan, Illinois 60085
Ph: (847) 689-0697
Fx: (847) 689-0698

December 2002

TOLTEST, INC.

ENVIRONMENTAL JOB ORDER CONTRACT
NO. N68950-00-D-0200
DELIVERY ORDER NO. 0028

DELIVERY ORDER CLOSURE REPORT
LEAKING UNDERGROUND STORAGE TANK
RELATIVE RISK RANKING SAMPLING
19 SITES, GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

PREPARED FOR

DEPARTMENT OF THE NAVY
NAVAL TRAINING CENTER (NTC) –
ENVIRONMENTAL DEPARTMENT
BUILDING 1-A, 201 DECATUR AVENUE
GREAT LAKES, ILLINOIS 60088-5600

SUBMITTED

DECEMBER 2002

BY

TOLTEST INC.
1000 S. NORTHPOINT BOULEVARD
WAUKEGAN, ILLINOIS 60085
(847) 689-0697
FAX (847) 689-0698

TOLTEST PROJECT NO. 41792.01

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Submitted by:

TolTest, Inc.

1000 S. Northpoint Boulevard

Waukegan, Illinois 60085

TolTest, Inc. hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under this contract is complete, accurate, and complies with all requirements of the contract.

Prepared By: _____ Date: 12/12/02
Miranda Rohm, Environmental Specialist

Reviewed By: _____ Date: 12/12/02
Susan ~~Yarger, SDS Group~~ Manager

Reviewed By: _____ Date: 12/12/02
Peter Chevalier, Environmental Specialist

Approved By: _____ Date: 12/12/02
Lance M. Parsons, Regional Manager

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TOLTEST, INC.

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LIST OF ACRONYMS

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CHF	Contaminant Hazard Factor
COCs	Contaminants of Concern
cy	cubic yards
DO	Delivery Order
DOCR	Delivery Order Closure Report
DoD	Department of Defense
DQO	data quality objective
GLNTC	Great Lakes Naval Training Center
GPS	global positioning system
GRO	Groundwater Remediation Objective
LUST	Leaking Underground Storage Tank
MDLs	Method Detection Limits
MPF	Migration Pathway Factor
MTBE	Methyl tertiary butyl ether
PID	photoionization detector
PNA	Polynuclear Aromatic Hydrocarbon
ppm	parts per million
RCRA	Resource Conservation Recovery Act
RF	Receptor Factor
RRSE	Relative Risk Site Evaluation
SPLP	Synthetic Precipitation Leaching Procedure
SRO	Soil Remediation Objective
SVOC	Semi-Volatile Organic Compound
TACO	Tiered Approach to Cleanup Objectives
UST	Underground Storage Tank
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

TolTest was retained by the United States Department of the Navy, Naval Facilities Engineering Command, under Contract No. N689500-00-D-0200, Delivery Order (DO) No. 0028, to collect soil and groundwater samples at 19 leaking underground storage tank (LUST) sites located on the Great Lakes Naval Training Center (GLNTC) facility in Great Lakes, Cook County, Illinois.

The primary data quality objective (DQO) for this project was to produce data to enable the Navy to perform relative risk ranking of the 19 LUST sites. The ranking will be used to prioritize the sites for additional evaluations and/or corrective actions that might be necessary. The DQO was accomplished by controlling sample collection, sample custody, sample analysis, sample data review, and data reporting.

TolTest collected soil and groundwater samples from the 19 LUST sites and submitted the samples to an analytical laboratory. The samples were collected using direct push (Geoprobe®) methodology. The analytical parameters selected for each LUST site were appropriate for the product type(s) formerly stored in the respective underground storage tanks (USTs) and in accordance with the Illinois Environmental Protection Agency (IEPA) criteria.

Along with collecting soil and groundwater samples, TolTest installed temporary piezometers at each boring location to evaluate the depth to static groundwater. The piezometers installed for this project were surveyed using global positioning system (GPS) equipment. This information was utilized in conjunction with groundwater elevation data to interpret groundwater flow at each individual site. Out of the 19 LUST sites associated with this project, 13 groundwater contour maps were developed based on the available data. Based on the interpreted direction of groundwater flow at each individual site, the majority of sites within the GLNTC have an interpreted groundwater flow direction toward Lake Michigan, which is located directly east of the GLNTC.

Applying the analytical results for the 19 LUST sites at the GLNTC, the Department of Defense (DoD) Relative Risk Site Evaluation (RRSE) Primer ranked the groundwater laboratory analytical results for Buildings 1, 90, 103, 106, 144, 238, 239, 329, 2912, 3114A, 3402, and 3511 as having an overall groundwater category of low and Buildings 13, 68H, 229, 324, 3216B, and 3400 as having an overall groundwater category of medium.

General field observations recorded noticeable petroleum impacts at 8 of the 19 LUST sites assessed in this project (Buildings 1, 13, 68H, 106, 144, 229, 329, and 3216B) as follows:

- Building 1 had a petroleum odor in boring SB-2 from approximately 9 to 11 feet below ground surface (bgs).
- Building 13 had petroleum staining and odors in boring SB-2 from approximately 6 to 7 feet bgs.
- Building 68H had a noticeable petroleum odor in SB-2 from approximately 1 to 10 feet bgs.
- Building 106 had a petroleum odor in SB-3 between approximately 6 and 10 feet bgs.
- Building 144 had a petroleum odor in SB-3 at approximately 2 feet bgs.
- Building 229 had petroleum staining in SB-2 from approximately 10.5 to 16 feet bgs.
- Building 329 had a petroleum odor in SB-3 from approximately 8 to 8.5 feet bgs.
- Building 3216B had a petroleum odor and staining in SB-1 from approximately 2 to 8 feet bgs, in SB-2 from approximately 6.5 to 8 feet bgs, and in SB-3 from approximately 6 to 8 feet bgs. Free phase petroleum products were observed in borings SB-1 through SB-3 and in the collected groundwater samples from Building 3216B. Mr. Carlo Luciano of the GLNTC Environmental Department was notified of this on November 12, 2001, and he informed TolTest that he would contact the (IEPA) regarding the presence of the free phased liquids in the piezometers.

The laboratory analytical results indicated that IEPA Tiered Approach to Cleanup Objectives (TACO) Tier I residential and/or commercial Soil Remediation Objectives (SROs) were exceeded for polynuclear aromatic compounds (PNAs), semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and/or heavy metals in at least one of the soil samples collected from Buildings 1, 13, 68H, 106, 144, 229, 239, 324, 329, 3216B, and 3511.

The laboratory analytical results indicated that the IEPA Class I and/or Class II Groundwater Remediation Objectives (GROs) were exceeded for PNAs, VOCs, and/or lead in at least one groundwater sample collected from Buildings 13, 68H, 90, 144, 229, 239, 324, 3216B, 3400, and 3511.

1.0 INTRODUCTION

This report presents the methodologies and findings of the Delivery Order Closure Report (DOCR) conducted for the United States Department of the Navy by TolTest in October 2001 through November 2002 at the GLNTC located in Great Lakes, Cook County, Illinois.

1.1 Scope of Work

There are currently 19 LUST sites located within the GLNTC facility. Soil and groundwater samples were collected from each of the 19 LUST sites and submitted for laboratory analysis appropriate to the product type(s) formerly stored in each former UST. In addition, groundwater level data and survey data were collected to interpret groundwater flow direction at each LUST site.

This scope of work does not include delineating the extent of petroleum hydrocarbon impact identified at the 19 LUST sites. Data was collected in the interpreted source area and the estimated upgradient and downgradient directions from the source area at each site were determined. The data was incorporated into the applicable forms from the Department of Defense's (DoD) Relative Risk Site Evaluation (RRSE) Primer. This data will be used by the Navy for relative risk ranking. Performance of the actual ranking was not a requirement of this DO; however, the groundwater data for each of the sites was entered into the DoD RRSE Primer since this is the most applicable pathway for evaluating the hazards posed by LUSTs.

Activities associated with this DO consist of the following tasks necessary to complete the scope of work and produce the DOCR:

- Advance three Geoprobe® borings at each of the 19 LUST sites (57 borings total).
- Collect soil samples and screen the headspace of the samples with a photoionization detector (PID).
- Submit the soil sample with the highest corresponding PID reading above the saturated zone, or the sample immediately above the saturated zone if no PID readings are above 0.0 parts per million (ppm), from each soil boring (three total per site) and all groundwater samples collected (three total per site) to an analytical laboratory for analysis appropriate to the product types formerly present at the respective site.
- Construct temporary groundwater sampling locations (1-inch piezometers) in each of the completed soil borings and collect groundwater samples and water level measurements.

- Decommission the piezometers after collection of the groundwater samples, water level data, and survey data are completed and grout the boreholes.
- Survey the sampling location coordinates with a GPS.
- Interpret local groundwater flow on a per site basis.
- To the extent it is technically supportable, correlate groundwater flow information for multiple sites using the individual LUST site data referenced to a common datum (as data is available or can be reasonably interpolated between sites).
- Characterize and manage the manifesting and disposal of Investigative Derived Waste.
- Prepare a DOCR that provides the following:
  - A description of the field activities
  - Maps depicting the sample locations at each site
  - Boring logs
  - Site evaluation forms
  - A copy of the laboratory results for the sites
  - A discussion of the sample results and summaries of the sample results in tabular form and on figures
  - Documentation of disposal of IDW
  - Interpreted groundwater flow maps (individual sites and correlated information as technically supportable)

1.2 Site Background

The USTs at the 19 sites have been removed; however, petroleum-hydrocarbon-impacted soil and groundwater associated with releases from the former USTs remain. This project will entail evaluation of the following locations at GLNTC: Buildings 1, 13, 68H, 90, 103, 106, 144, 229, 238, 239, 324, 329, 2912, 3114A, 3216B, 3400, 3402, and 3511. A more detailed site description and history, including a picture, of each building is provided in **Appendix A**. These site descriptions and histories were provided by the DoD and were included in TolTest's Work Plan as Appendix B.

A brief description of each of the 19 LUST sites follows. TolTest was not involved in the removal of these USTs or the initial site investigations as described below:

Building 1

Building 1 had one 500-gallon diesel UST installed in 1948 for use by an emergency generator. The UST was removed in February 22, 1994. The Navy completed a 45-day report for the IEPA. The UST had a reported release of product caused by a combination of leaking pipes and/or overfill. Approximately 200 cubic yards (cy) of contaminated soil were excavated. Six soil samples were collected from the UST excavation for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and PNAs. The removed UST was replaced by one 600-gallon double-walled fiberglass UST and was backfilled with clean soil.

Building 13

Building 13 had one 500-gallon leaded gasoline UST installed in 1955. It was removed on January 31, 1994. A 45-day report was completed by the Navy. Visual signs of petroleum impact existed beneath the former UST. Analytical results from one soil sample collected from the UST excavation sidewall identified BTEX at 334 ppm. No additional soil excavation was performed at the site, and the UST excavation was backfilled.

Building 68H

Building 68H had one 1,500-gallon steel UST installed in 1943. The UST and piping were removed on June 28, 1999. A 45-day report was completed by the Navy. As soil was being excavated during the removal activities, a release was determined through visual and olfactory observations. The source of the release was determined to be deterioration of the UST. Free product was not encountered during the removal. The removal activities generated approximately 30 cy of impacted soil. The UST excavation was backfilled with clean soil. Seven soil samples were collected to assess the extent of the release within the excavated area. Reported petroleum hydrocarbon concentrations exceeded the IEPA TACO.

Building 90

Building 90 was built in 1917 and was demolished in 1997. There are no records regarding the former USTs. During trenching activities at Building 90, one UST that supplied fuel oil to the building was discovered. The UST was removed on January 26, 2001 and was identified to be in poor condition with numerous holes. The excavation was impacted by petroleum hydrocarbons, and free product was identified. Over excavation of the UST cavity was conducted. Approximately 3,500 gallons of fuel oil were recovered from the UST and the excavation. The extent of petroleum hydrocarbon impact is unknown.

Building 103

Building 103 had three 10,000-gallon gasoline steel USTs, one 12,500-gallon diesel steel UST; and one 1,200-gallon kerosene UST installed in 1960. All of the USTs were removed on October 8, 1997. A 45-day report was completed by the Navy. Free product was discovered in the UST excavation, pumped out, and disposed of at GLNTC. Excavation activities generated approximately 1,275 cy of impacted soil. The impacted soil was transported to the Fire Fighting Unit for treatment by ex-situ bioremediation in accordance with an IEPA approved work plan. The UST excavation was backfilled with clean soil.

Building 106

Building 106 had one 1,000-gallon diesel steel UST installed in 1958. The UST was removed on December 3, 1993. A 45-day report was completed by the Navy. Visual and olfactory signs of petroleum impact existed beneath the UST. The impacted UST excavation was backfilled with clean soil and then covered with grass and concrete. Six soil samples were collected from the UST excavation and analyzed for BTEX and PNAs. Benzene was identified above the TACO Tier I inhalation and migration to groundwater cleanup objectives.

Building 144

Building 144 was a gasoline station. Two 20,000-gallon gasoline USTs installed in 1952 were removed on February 27, 1991. One 600-gallon used-oil UST was replaced with a new used-oil UST on December 3, 1993. Free product and extensive petroleum hydrocarbon impact were identified within the excavation. Approximately 3,000 cy of soil were removed at the site. Funding was insufficient to complete the necessary cleanup procedures.

Building 229

Building 229 is a Steam Propulsion Trainer constructed in 1961. To support the boiler operations, two 12,500-gallon diesel steel USTs were installed along with one 500-gallon waste-oil UST in 1963. The USTs failed a tightness test in 1990 and were removed from service. Contents of the USTs were removed and the piping was disconnected. The USTs were removed on February 26, 1999. Free product and extensive petroleum hydrocarbon impact were identified in the excavation.

Building 238

Building 238 had one 5,000-gallon diesel steel UST installed in 1979. The UST failed a tank tightness test and was immediately removed from service on March 1, 1994. No 45-day report has been completed by the Navy. The contents of the UST were removed and the piping was repaired. During the UST removal activities, no samples were collected. The impacted excavation was backfilled with clean soil.

Building 239

Building 239 is a Steam Propulsion Trainer constructed in 1973. To support the boiler operations, two 20,000-gallon diesel steel USTs were installed along with one 500-gallon used-oil UST in 1973. In 1990, the three USTs failed tightness testing. The USTs were drained and the piping was disconnected. All three USTs were removed on March 12, 1999. Free product and extensive petroleum hydrocarbon impact were identified in the excavation.

Building 324

Building 324 is a Gas Turbine Trainer constructed in 1945. Three 3,500-gallon diesel steel USTs and one 3,500-gallon used-oil UST were installed in 1947 to support the trainer. In 1992, all four USTs failed a tank tightness test. The USTs were drained and the piping was disconnected. The USTs were removed on May 3, 1999. Free product and extensive petroleum hydrocarbon impact were identified in the excavation. No additional excavation activities were performed.

Building 329

Building 329 is a Diesel Engineman Trainer constructed in 1983. To support the engines, two 1,200-gallon diesel USTs were installed in 1983 on the south side of the building. One 500-gallon used-oil steel UST was also installed in 1983. In 1992, all three USTs failed a tank tightness test. Following this, all three USTs and their contents were removed and the piping was disconnected. The USTs were removed on March 25, 1999. Free product and extensive petroleum hydrocarbon impact were identified in the excavation. No additional excavation activities were completed at the site.

Building 2912

Building 2912 had one 2,000-gallon diesel steel UST installed in 1989 for heating. The UST was removed on July 28, 1997. A 45-day report was completed by the Navy. Visual signs of diesel impact existed, including soil staining and petroleum odors. The impacted UST excavation was backfilled with clean soil and hydroseeded topsoil.

Building 3114A

Building 3114A had one 1,000-gallon gasoline steel UST installed in 1943. The UST was removed in 1991. No 45-day report has been completed by the Navy. No soil or groundwater samples were collected from the UST excavation. The impacted UST excavation was backfilled with clean soil.

Building 3216B

Building 3216B had one 3,500-gallon diesel steel UST located on the east side of the building. It was utilized as a vehicle storage area dating from 1954 and shut down prior to 1974. The UST was removed on December 1, 1999. At the time of removal, the contents were removed and the associated piping was disconnected. During the UST removal, significant deterioration and free product were identified. Soil and groundwater impact and free product remains at the site. The site is upgradient of the Skokie River, which flows through base housing and then off base through private residential areas. The migration potential to the groundwater and adjacent creek is high, based on known perched silty soil conditions in the area.

Building 3400

Building 3400 had two 20,000-gallon diesel USTs installed in 1961 for the boiler. Both USTs were removed in January 12, 1994. A 45-day report was completed by the Navy. Visual signs of petroleum impact were identified along the side of the east tank within the backfill of a 4-inch natural gas line. It was determined the release was from overspill and/or leaking supply/return lines. Petroleum hydrocarbon impact remains at the site. The UST excavation was backfilled with clean soil, then covered with concrete.

Building 3402

Building 3402 had one 2,000-gallon diesel UST installed in 1978 for use by the fuel emergency generator. The UST was removed on January 12, 1994. No 45-day report has been completed by the Navy. Petroleum hydrocarbon impacted soils were left within the UST excavation. The removed UST was replaced by one 2,500-gallon double-wall fiberglass UST, backfilled with clean soil, and covered with concrete.

Building 3511

Building 3511 had one 4,000-gallon diesel steel UST and one 20,000-gallon diesel steel UST installed in 1960. A second 20,000-gallon diesel steel UST was installed in 1966. All three USTs were removed on November 28, 1994. No 45-day report has been completed by the Navy. No soil or groundwater samples were collected. The petroleum hydrocarbon-impacted UST excavation was backfilled with clean soil.

1.3 Soils/Geology

According to the Cook County Soil Survey, the GLNTC lies within the Lake Border Moraines of the Wadsworth Till Member of the Wedron Formation. The Wedron Formation generally consists of silty and clayey diamictons and is predominately composed of till with interbedded deposits of water-laid gravel, sand, and silt. However, much of the subsurface of the GLNTC facility has been altered by construction activities and consists of various fill materials.

2.0 FIELD ACTIVITIES

Field activities performed at each of the 19 LUST sites included advancing three soil borings, installing a temporary one-inch diameter piezometer at each boring location, collecting soil and groundwater samples for laboratory analysis, and obtaining the depth to static groundwater from the piezometers. Standard Occupational Safety and Health Administration (OSHA) health and safety procedures were followed during the field activities to ensure the safety of field personnel. Field notes are included in **Appendix B**.

2.1 Utility Notification

On October 29, 2001, one week prior to initiating the Geoprobe® activities, TolTest notified Ms. Judy Jarosz of the Public Works Center Utilities Department at (847) 688-2121, extension 18, of the drilling activities to be performed at the 19 LUST sites. Ms. Jarosz coordinated the identification of underground utilities at each of these locations. All Geoprobe® borings were advanced between November 5 and 14, 2001, except the borings at Building 324, which were advanced on April 29, 2002. The borings at Building 324 could not be advanced in November 2001 because the building was being demolished. A utility locate notification was given to Ms. Jarosz on April 24, 2002 for the Geoprobe® boring advancement at the former Building 324 location.

2.2 Geoprobe® Drilling and Associated Soil and Groundwater Sampling Procedures

2.2.1 Soil Sampling Procedures

The Geoprobe® boring activities included advancing three soil borings at each site in a triangular pattern, if possible. One of the soil borings for each site was placed in such a way as to provide representative information on the interpreted source area at the site that resulted from the release of petroleum hydrocarbons from the former USTs. The remaining two soil borings at each site were placed as follows: one soil boring in the interpreted upgradient direction of the source and one in the interpreted downgradient direction of the source. As previously stated, the purpose of this scope of work was not to delineate the extent of petroleum hydrocarbons at the sites, but to obtain data (along with the 45-Day Report information, if available) to initially characterize each site so that it could be ranked by the Navy using their risk ranking criteria. Soil samples were collected from each of the soil borings when possible. **Figure 1.0** depicts the boring locations at each of the 19 LUST sites.

The soil borings were advanced utilizing the Geoprobe® drilling methodology and completed to approximately 5 feet below the depth at which saturation was encountered or until probe refusal was encountered. Soil samples were collected on a continuous basis using a 2-inch direct push spoon sampler equipped with a disposable acetate liner. Each soil boring was given a unique identification number and the TolTest geologist documented the Geoprobe® activities using soil boring log forms. The soil was classified on the boring logs indicating lithologic descriptions and Unified Soil Classification System descriptions (based upon visual evaluation), degree of sorting, sedimentary contacts, relative moisture content, PID readings, etc. Soil boring logs for each sample collected are included in **Appendix C**.

Soil samples collected from each boring were vertically split into two components: one for field screening and one for potential laboratory analysis. A representative portion of each sample was placed into laboratory-supplied containers with Teflon®-lined lids and the portion for volatile organics analysis was placed in a disposable syringe and the syringe was placed into a 40-milliliter volatile organic analysis vial. The remainder of the soil in the acetate liner was placed into Ziploc® bags for PID headspace screening. The soil sample per soil boring with the highest PID reading above the saturated zone was submitted to the laboratory for analysis. Alternatively, if a soil boring did not have any PID readings above 0.0 ppm, the soil sample immediately above the saturated zone for that boring was submitted for analysis.

The soil samples designated for laboratory analysis were appropriately labeled, placed in an ice-filled cooler, and transported to TolTest's sample refrigerator. The samples were kept in the refrigerator under proper chain of custody until the next day, when a representative from AEA Laboratories picked up the samples for transport to its facility in Morton Grove, Illinois. This procedure was followed for each day's sampling except for the samples collected from Building 324. The samples from Building 324 were shipped overnight in an ice-filled cooler to AAC Trinity's Laboratory in Farmington Hills, Michigan.

2.2.2 Groundwater Sampling Procedures

The Navy requested that groundwater elevation data be collected as part of this project. TolTest therefore completed the groundwater sampling points as temporary piezometers. The temporary piezometers were constructed of 1-inch Schedule 40 flush joint polyvinyl chloride (PVC) risers and screens. Each soil boring had a dedicated piezometer installed. Approximately ten feet of 0.010-inch machine-slotted screen (or less, if appropriate for the specific geologic conditions encountered) and a sufficient length of riser was placed in each boring to bring the top of each

piezometer to approximately two feet above grade. The area was marked with cones to prevent a tripping hazard and to prevent vehicular traffic over the piezometers.

The screened interval of each piezometer was installed so as to intersect the apparent water table. Due to the limited scope of this project, the temporary piezometers did not have filter packs or bentonite seals installed. However, the groundwater samples, water level data, and survey data were collected as soon as practicable after piezometer installation at each site so that the soil borings were left open for only a short duration.

Groundwater samples were obtained from the piezometers utilizing a peristaltic pump connected to dedicated tubing. The groundwater samples were transported to the laboratory using the same methods described for the soil samples. Water level measurements were obtained with an interface probe/water level meter, and each sample location was surveyed with a GPS. The depth to water measurements were correlated to a benchmark elevation of 100 feet established at each of the sites using a laser level to establish groundwater elevations. When possible, groundwater contour maps were constructed and the groundwater flow direction was assessed for each site.

After the necessary data was collected, the piezometers were pulled from the ground and the soil borings backfilled with bentonite chips. The surface of each soil boring was restored with topsoil, asphalt patch, or concrete as necessary to match the surrounding area.

3.0 RESULTS

The soil and groundwater sampling objectives for this DO were to collect three soil and groundwater samples from each of the 19 LUST sites. The samples were analyzed as follows:

Product Types and Analytical Parameter Requirements

Building No.	Gasoline	Diesel/ Fuel Oil	Used Oil	Kerosene
1		X	X	
13	X			
68H	X			
90		X		
103	X	X		X
106		X		
144 Fuel Tanks	X			
144 Used Oil			X	
229		X	X	
238		X		
239		X	X	
324		X	X	
329		X	X	
2912		X		
3114A	X			
3216B		X		
3400		X		
3402		X		
3511		X		

Analytical parameters:
Gasoline - BTEX, MTBE, total lead, SPLP lead per IAC Section 732 Appendix A, with the addition of MTBE
Diesel/fuel oil/kerosene - BTEX, PNAs per IAC Section 732 Appendix A
Used oil - VOCs, B/N, PNAs, metals per IAC Section 732 Appendix B

Analytical Methods:
BTEX = benzene, toluene, ethylbenzene, and total xylenes U.S. EPA Methods 5035/8021
MTBE = methyl tertiary butyl ether U.S. EPA Methods 5035/8021
SPLP lead = synthetic precipitate leaching procedure lead U.S. EPA Methods 1312/7421
PNAs = polynuclear aromatic hydrocarbons U.S. EPA Method 8100
VOCs = volatile organic compounds U.S. EPA Methods 5035/8260
B/N (SVOCs) = base/neutrals (semi-volatile organic compounds) U.S. EPA Method 8270
Metals = arsenic, barium, cadmium, total chromium, lead, mercury, and selenium U.S. EPA 6000 and 7000 series

Note: In the instances where BTEX and VOC analyses were required, only the VOC analysis was performed, since the VOC analysis incorporates the BTEX constituents.

3.1 Laboratory Analytical Results

The soil and groundwater laboratory analytical results are described for each site in the following section. **Table 1.0** summarizes the soil sample analytical results for each building. **Table 2.0** summarizes the groundwater sample analytical results for each building. Copies of the laboratory analytical reports and the chain-of-custody forms for the soil and groundwater samples collected for this DO are provided in **Appendix D**.

Building 1

Soil Results:

Only two soil samples were submitted for analysis from this site (NTC-1-SB2 and NTC-1-SB3). Soil boring SB-1 was advanced to 16 feet bgs. Fill material consisting of gravel was encountered, so no soil sample was collected from NTC-1-SB1. PID readings ranged from 0 ppm to 39.4 ppm, which was recorded in NTC-1-SB2 from 9-11 feet bgs. Petroleum impact and odors were observed in soil boring NTC-1-SB2 from 9 to 11 feet bgs. Several VOCs, SVOCs (Base/Neutral compounds), PNAs, and Resource Conservation Recovery Act (RCRA) metals were detected above the Method Detection Limits (MDLs) in the soil and groundwater samples submitted for Building 1. VOCs, SVOCs, and PNAs were detected at concentrations that did not exceed the IEPA Tier I Residential or Commercial Soil Exposure Pathways. However, RCRA metals exceeded the Tier 1 Soil Component for Groundwater Ingestion Pathway.

Groundwater Results:

Three groundwater samples were collected at the site (NTV-1-TP1, NTC-1-TP2, and NTC-1-TP3). Several VOCs, SVOCs (Base/Neutral compounds), PNAs, and RCRA metals were detected above the MDLs in the groundwater samples submitted for Building 1. However, none of the reported compounds or metals were detected at concentrations exceeding the IEPA Class I and II GROs.

Building 13

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-13-SB1, NTC-13-SB2, and NTC-13-SB3). PID readings ranged from 0 ppm to 275 ppm, which was recorded in SB-2 from 6-7 feet bgs. Petroleum impact and odors were observed in soil boring NTC-13-SB2

(6'-7' bgs), which was located in the center of the UST excavation. BTEX, methyl tertiary butyl ether (MTBE), total lead, and Synthetic Precipitation Leaching Procedure (SPLP) lead were detected in the soil samples collected from Building 13 at concentrations above the MDLs. The laboratory analytical results indicated that BTEX and MTBE concentrations did not exceed their respective IEPA Tier I Residential or Commercial Soil Exposure Pathway Action Levels. However, total lead in all three soil samples and SPLP lead in one soil sample collected from NTC-13-SB3 (8'-10' bgs) exceeded the Tier 1 Soil Component for Groundwater Ingestion Pathway. None of the soil samples collected and analyzed for BTEX and total lead from Building 13 exceeded the Tier 1 Residential Soil Ingestion Pathway, Residential Soil Inhalation Pathway, Commercial Soil Ingestion and Inhalation Pathway, or Construction Worker Soil Ingestion Pathway Remediation Objectives.

Groundwater Results:

Three groundwater samples were collected from the site and submitted for analysis (NTC-13-TP1, NTC-13-TP2, and NTC-13-TP3). Benzene and toluene were detected in NTC-13-TP3 above their MDLs, but below the IEPA Class I and II GROs. Total lead was detected above the IEPA Class I GROs in all three of the groundwater samples collected from Building 13 and above the IEPA Class II GROs in NTC-13-TP1.

Building 68H

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-68H-SB1, NTC-68H-SB2, and NTC-68H-SB3). PID readings ranged from 0 ppm to 703 ppm, which was recorded in NTC-68H-SB2 at 8 feet bgs. Petroleum impact and odors were observed in soil boring NTC-68H-SB1 at 10 feet bgs and in NTC-68H-SB2 throughout the entire boring. Both NTC-68H-SB1 and NTC-68H-SB2 were located within the immediate vicinity of the former UST excavation. BTEX, MTBE, total lead, and SPLP lead were detected in the soil samples collected from Building 68H at concentrations above the MDLs. Benzene and ethylbenzene in soil sample NTC-68H-SB2 (6'-8' bgs) were detected above the Tier 1 Soil Component of Groundwater Ingestion Pathway. Total lead was detected above the Tier I Soil Component of Groundwater Ingestion Pathway in all three soil borings. However, none of the other compounds exceeded their respective IEPA Tier I Residential or Commercial Soil Exposure Pathway Action Levels.

Groundwater Results:

Three groundwater samples were collected from the site and submitted for analysis (NTC-68H-TP1, NTC-68H-TP2, and NTC-68H-TP3). BTEX constituents were detected above their MDLs in all three of the groundwater samples collected from Building 68H. The benzene concentrations in the groundwater samples collected from NTC-68H-TP1 and NTC-68H-TP2 exceeded the IEPA Class I and II GROs. The groundwater sample collected from NTC-68H-TP1 exceeded the Class I GROs for ethylbenzene. Total lead was detected above the IEPA Class I and Class II GROs in groundwater samples NTC-68H-TP1 and NTC-68H-TP2.

Building 90

Soil Results

Only one soil sample was submitted for analysis from this site. Soil boring NTC-90-SB1 was advanced to 13 feet bgs when refusal was encountered and NTC-90-SB2 was advanced to 11 feet bgs when refusal was encountered. Fill material consisting of gravel, sand, and crushed brick was encountered in both NTC-90-SB1 and NTC-90-SB2, so no soil samples were collected. No impact was observed in the fill material recovered from NTC-90-SB1 and NTC-90-SB2 or in the soil recovered from NTC-90- SB3. PID readings remained at 0 ppm in all soil borings. Soil sample SB-3 was the only soil sample submitted for analysis. Toluene was the only contaminant of concern (COC) detected in the soil sample at a concentration above the MDLs. The toluene concentration in the soil sample collected from NTC-90-SB3 is below the IEPA Tier I SROs.

Groundwater Results

Two groundwater samples were collected from the site and submitted for analysis (NTC-90-TP1 and NTC-90-TP2). The NTC-90-TP3 piezometer only yielded enough water for BTEX laboratory analyses to be performed. Laboratory analytical results of samples obtained from NTC-90-TP1 and NTC-90-TP2 contained several PNAs, including: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene, at concentrations exceeding the IEPA Class I GROs. NTC-90-TP1 also contained indeno(1,2,3-cd)pyrene at concentrations exceeding the IEPA Class I GROs.

Building 103

Soil Results:

Only one soil sample was submitted for analysis from this site (NTC-103-SB2). Soil boring NTC-103-SB1 was advanced to 10 feet bgs when refusal was encountered, and NTC-103-SB3 was advanced to 11 feet bgs when the boring was terminated. Clay was encountered in boring NTC-103-SB1; however, it was encountered below the saturated zone, so no sample was submitted for laboratory analysis. Fill material consisting of gravel, sand, and crushed brick was encountered in NTC-103-SB1 and NTC-103-SB3, so no soil samples were collected. No impact was observed in the fill material recovered from NTC-103-SB1 and NTC-103-SB3 or in the soil recovered from NTC-103-SB2. PID readings ranged from 0 to 0.3 ppm, which was recorded in soil boring NTC-103-SB1. BTEX and PNAs were below their respective MDLs in the sample from NTC-103-SB2. Lead was the only COC detected above the MDLs; however, it was below the IEPA Tier I SROs.

Groundwater Results:

Three groundwater samples were collected from the site and submitted for analysis (NTC-103-TP1, NTC-103-TP2, and NTC-103-TP3). PNAs were not detected above the MDLs in any of the submitted groundwater samples. Benzene and toluene were detected above MDLs in groundwater sample NTC-103-TP1 only. Total lead was detected above the MDLs in NTC-103-TP2 and NTC-103-TP3. None of the groundwater samples submitted exceeded the IEPA Class I and II GROs for their respective COCs.

Building 106

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-106-SB1, NTC-106-SB2, and NTC-106-SB3). PID readings ranged from 0 ppm to 258 ppm, which was recorded in NTC-106-SB3 at 6 feet bgs. Petroleum impact and odors were observed in soil boring NTC-106-SB3 at 6 to 10 feet bgs. NTC-106-SB3 was collected from the vicinity of the former UST excavation. Benzene, ethylbenzene, and toluene were detected above the MDLs in soil sample NTC-106-SB3. Various PNAs were detected in all three soil borings above MDLs. None of the BTEX constituents detected in NTC-106-SB3 exceeded the IEPA Tier I Residential and Commercial SROs. PNAs detected in NTC-106-SB1 and NTC-106-SB3 were below the IEPA Tier 1 Residential and Commercial SROs. However, PNAs in NTC-106-SB2, including

benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, exceeded the Tier 1 Residential Soil Ingestion Pathway. Benzo(a)pyrene in NTC-106-SB2 exceeded the Tier 1 Commercial Soil Ingestion Pathway. None of the remaining soil samples submitted exceeded the IEPA Residential and Commercial SROs for their respective COCs.

Groundwater Results:

One groundwater sample (NTC-106-TP1) was collected from the site and submitted for analysis. Groundwater samples could not be collected from piezometers NTC-106-TP2 and NTC-106-TP3 because they were dry and did not yield sufficient groundwater for the laboratory analyses. Benzene, toluene, and naphthalene were detected in NTC-106-TP1 above the MDLs; however, they did not exceed the IEPA Class I and II GROs.

Building 144

Soil Results:

Soil samples were collected and submitted for laboratory analysis (from NTC-144-SB2 and NTC-144-SB3 only). Several attempts were made to advance boring NTC-144-SB1; however, a gravel fill material was encountered at each attempt, resulting in no sample recovery from the borehole. The laboratory analytical results for the soil samples from NTC-144-SB2 and NTC-144-SB3 indicated the presence of several VOCs, SVOCs, and metal constituents at concentrations above the MDLs. Benzene was detected above the IEPA Residential, Commercial, and Construction Worker Soil Inhalation Pathway Action Levels in the soil sample collected from NTC-144-SB3. Naphthalene was detected above the Soil Component of Groundwater Ingestion Pathway and Construction Worker Inhalation Pathway in soil sample NTC-144-SB3. RCRA metals and total lead were detected in NTC-144-SB2 and NTC-144-SB3 exceeding the Soil Component of Groundwater Ingestion Pathway. SPLP lead in NTC-144-SB3 was detected above the Soil Component of Groundwater Ingestion Pathway. However, RCRA metals, total lead, and SPLP lead concentrations did not exceed the other SROs.

Groundwater Results:

Three groundwater samples were collected from the site and submitted for analysis (NTC-144-TP1, NTC-144-TP2, and NTC-144-TP3). BTEX and VOCs in NTC-144-TP3, MTBE in NTC-144-TP2, and RCRA metals in NTC-144-TP1, NTC-144-TP2, and NTC-144-TP3 were detected above MDLs. The BTEX and RCRA metal concentrations in NTC-144-TP1 and NTC-144-TP2

were below their respective Class I and Class II GROs. The toluene, bromomethane, and naphthalene concentrations in NTC-144-TP3 exceeded the Class I GROs. The BTEX and RCRA metal concentrations in NTC-144-TP3 exceeded the Class II GROs for toluene and naphthalene.

Building 229

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-229-SB1, NTC-229-SB2, and NTC-229-SB3). PID readings ranged from 0 ppm to 76.6 ppm, which was recorded in NTC-229-SB2 at 14 feet bgs. Petroleum staining and odors were observed in soil boring NTC-229-SB2 from 10.5 feet to 16 feet bgs. NTC-229-SB2 was advanced from the vicinity of the former UST excavation. Several VOCs, SVOCs, PNAs, and RCRA metals were detected above the MDLs in the soil samples submitted from Building 229. None of the VOCs detected in any of the soil samples exceeded the Tier 1 SROs. The following SVOC constituents from boring NTC-229-SB2 were detected at concentrations exceeding the Tier I Residential Soil Ingestion Pathway: benzo(a)anthracene, benzo(a)pyrene, benzo(b,k)fluoranthene, and dibenzo(a,h)anthracene. Only the concentration of benzo(a)pyrene exceeded the Commercial Soil Ingestion Pathway. All other SVOCs detected in NTC-299-SB2 and NTC-229-SB3 were below the Tier 1 SROs. PNA constituents were detected at concentrations exceeding the Residential and/or Commercial Ingestion Pathways in the soil samples collected from NTC-229-SB2 and NTC-229-SB3. The naphthalene concentration in the soil sample collected from NTC-229-SB3 also exceeded the Construction Worker Soil Inhalation Pathway. RCRA metals in all three soil borings exceeded the Tier 1 Soil Component for Groundwater Ingestion Pathway. The lead concentration in soil sample NTC-229- SB3 also exceeded the Residential, Commercial, and Construction Worker Soil Ingestion Pathway Action Level.

Groundwater Results:

Groundwater samples were collected from NTC-229-TP1, NTC-229-TP2, and NTC-229-TP3; however, only partial water samples were collected from NTC-229-TP2 and NTC-229-TP3 due to insufficient sample volume. Piezometers NTC-229-TP3 and NTC-229-TP2 yielded only sufficient water for PNA analysis. The laboratory analytical results for the groundwater samples collected from Building 229 identified cis-1,2-dichloroethene, trichlorofluoromethane, and phenol at concentrations above the MDLs, but below the IEPA Class I and/or Class II GROs. However, the reported lead concentration in groundwater sample NTC-229-TP1 exceeded the Class I and II GROs.

Building 238

Soil Results:

The three soil samples collected were not submitted for laboratory analysis since the PID screening did not yield organic vapor concentrations above background levels (0 ppm). The soil samples had no visual staining and no odors.

Groundwater Results:

Three groundwater samples were collected (NTC-238-TP1, NTC-238-TP2, and NTC-238-TP3). BTEX and PNA constituents were not detected above their respective MDLs in any of the samples.

Building 239

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-239-SB1, NTC-239-SB2, and NTC-239-SB3). PID readings ranged from 0.1 ppm to 0.8 ppm, which was recorded in NTC-239-SB2 at 6 feet bgs. No petroleum impact was observed in the soil samples. Several VOCs, SVOCs, PNAs, and RCRA metals were detected above the MDLs. Benzo(a)pyrene in NTC-239-SB2 and RCRA metals in all three borings were the only constituents exceeding the Tier I SROs. The benzo(a)pyrene concentration in the soil sample collected from NTC-239-SB2 exceeded the Tier I Residential Soil Ingestion Pathway Action Level. RCRA metals in all three soil borings exceeded the Tier 1 Soil Component of Groundwater Ingestion Pathway but did not exceed any of the other SROs.

Groundwater Results:

Three groundwater samples were collected from this site (NTC-239-TP1, NTC-239-TP2, and NTC-239-TP3). Several VOCs, SVOCs, PNAs, and RCRA metals were detected above the MDLs. The lead concentration in the groundwater sample collected from NTC-239-TP1 was the only analyte detected exceeding the IEPA Class I GROs.

Building 324

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-324-SB1, NTC-324-SB2, and NTC-324-SB3). PID readings ranged from 0 ppm to 9.8 ppm, which was recorded in NTC-324-SB2 at 10 feet bgs. No petroleum impact was observed in the soil samples. Several VOCs and SVOCs were detected above MDLs in NTC-324-SB2. RCRA metals were detected above MDLs in all three soil samples. Benzo(a)anthracene and benzo(a)pyrene were the only constituents that exceeded any of the Tier I SROs. The benzo(a)anthracene concentration in sample NTC-324-SB2 exceeded the Tier I Residential Soil Ingestion Pathway. The benzo(a)pyrene concentration in this same soil sample exceeded the Tier I Residential and Commercial Soil Ingestion Pathway Action Level. RCRA metals detected in all three soil borings exceeded the Tier 1 Soil Component of Groundwater Ingestion Pathway Action Level.

Groundwater Results:

Three groundwater samples were collected and submitted for laboratory analysis (NTC-324-TP1, NTC-324-TP2, and NTC-324-TP3). VOCs were reported in NTC-324-TP1 and NTC-324-TP3 above the MDLs and SVOCs were reported in NTC-324-SB2 above the MDLs. However, none of the samples exceeded the SROs for VOCs or SVOCs. PNAs were detected above MDLs in NTC-324-TP2 and RCRA metals were detected above MDLs in all three soil samples. The following PNAs reported in sample NTC-324-TP2 exceeded the Class I and Class II GROs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene, benzo(k)fluoroanthracene, and indeno(1,2,3-cd)pyrene. The lead concentration in NTC-324-TP2 exceeded the Class I GROs.

Building 329

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-329-SB1, NTC-329-SB2, and NTC-329-SB3). PID readings ranged from 0 ppm to 8.4 ppm, which was recorded in SB-3 at 6 feet bgs. Petroleum odors were noted in the soil sample collected from SB-3 between 8 and 8.5 feet bgs. Several VOCs, SVOCs, and RCRA metals were detected above the MDLs; however, none of the VOCs or SVOCs were detected at concentrations exceeding the IEPA Tier I Residential or Commercial SROs. RCRA metals in all three soil samples exceeded the Tier 1 Soil Component of Groundwater Ingestion Pathway Action Levels; however, none of the other SROs were exceeded.

Groundwater Results:

Three groundwater samples were submitted for analysis (NTC-329-TP1, NTc-329-TP2, and NTC-329-TP3). VOCs and PNAs were below MDLs in all three groundwater samples. Benzyl alcohol was identified in NTC-329-TP1 above the MDLs; however, there is no listed GRO established for this analyte. Barium was reported above the MDLs in all three groundwater samples; however, none of the concentrations exceeded the IEPA Class I and II GROs.

Building 2912

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-2912-SB1, NTC-2912-SB2, and NTC-2912-SB3). PID readings ranged from 0 ppm to 0.5 ppm, which was recorded in NTC-2912-SB2 at 6.2 feet bgs. Several BTEX and PNA constituents were detected above the MDLs; however, none of the reported compounds exceeded the IEPA Tier I Residential or Commercial SROs.

Groundwater Results:

Piezometer NTC-2912-TP3 was the only piezometer that yielded sufficient groundwater for BTEX and PNA laboratory analysis. Piezometer NTC-2912-TP2 yielded sufficient groundwater for BTEX analysis only. None of the groundwater samples collected from Building 2912 were above MDLs for BTEX or PNAs.

Building 3114A

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-3114A-SB1, NTC-3114A-SB2, and NTC-3114A-SB3). PID readings were recorded to be 0 ppm in all three soil samples collected. BTEX and MTBE were not detected above MDLs. Total lead in all three soil borings were above the MDLs; however, none of the reported concentrations exceeded the IEPA Tier I Residential or Commercial SROs.

Groundwater Results:

Piezometer NTC-3114A-TP3 was the only piezometer that yielded sufficient groundwater for BTEX, MTBE, and total lead laboratory analysis. Piezometer NTC-3114A-TP2 yielded

sufficient groundwater for BTEX and MTBE analysis only. Piezometer NTC-3114A-TP1 did not yield enough groundwater for any laboratory analyses. None of the groundwater samples were above the MDLs for BTEX and MTBE.

Building 3216B

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-3216B-SB1, NTC-3216B-SB2, and NTC-3216B-SB3). PID readings ranged from 0 ppm to 22.3 ppm, which was observed in NTC-3216B-SB2 at 6 feet bgs. Petroleum odors and staining were observed in all three soil borings. Free product was observed in NTC-3216B-SB2 at 8 feet bgs and in NTC-3216B-SB3 at 6 feet bgs. BTEX concentrations in all three soil samples were below MDLs. Several PNAs were detected above the MDLs in the soil samples submitted from Building 3216B. Several PNA constituents from borings NTC-3216B-SB2 and NTC-3216B-SB3 were detected at concentrations exceeding the Tier I Residential and/or Commercial Soil Ingestion Pathways, and naphthalene exceeded the Construction Worker Soil Inhalation Pathway.

Groundwater Results:

Three groundwater samples were collected from Building 3216B (NTC-3216B-TP1, NTC-3216B-TP2, and NTC-3216B-TP3). The laboratory analytical results indicated the presence of PNAs at concentrations above the MDLs. Several of these constituents exceeded the IEPA Class I GROs. Benzo(a)anthracene in NTC-3216B-TP1 and NTC-3216B-TP2, chrysene in NTC-3216B-TP2, and naphthalene in NTC-3216B-TP2 and NTC-3216B-TP3 exceeded the Class II GROs.

After installing the piezometers at Building 3216B, free product was observed in all three piezometers. Mr. Carlo Luciano of the GLNTC Environmental Department was notified on November 12, 2001 of the presence of these liquids in the piezometers. Mr. Luciano informed TolTest that he would contact the IEPA regarding the presence of the free product in the piezometers and instructed TolTest to proceed with the groundwater sampling.

Building 3400

Soil Results:

Two soil samples were collected and submitted for laboratory analysis (NTC-3400-SB2 and NTC-3400-SB3). Several attempts were made to advance boring SB-1; however, a gravel fill material was encountered at each attempt, resulting in no sample recovery from the borehole. The laboratory analytical results indicated that benzo(a)anthracene, fluoranthene, and phenanthrene were detected above their respective MDLs in the soil sample collected from NTC-3400-SB2. None of these COCs were detected at concentrations exceeding the IEPA Residential or Commercial SROs.

Groundwater Results:

Three groundwater samples were collected from Building 3400 (NTC-3400-TP1, NTC-3400-TP2, and NTC-3400-TP3). The laboratory analytical results for the groundwater samples collected from NTC-3400-TP2 indicated the presence of PNAs at concentrations above the MDLs. The following PNAs in NTC-3400-TP2 exceeded the IEPA Class I and Class II GROs; benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoroanthene, chrysene, dibenzo(a,h)anthracene, and indeno(1, 2, 3-cd)pyrene.

Building 3402

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-3402-SB1, NTC-3402-SB2, and NTC-3402-SB3). PID readings were recorded at 0 ppm in all three soil samples. No impact to the soil was observed within the three samples collected. Several BTEX and PNA constituents were detected above the MDLs in soil sample SB-3. However, none of these reported compounds were detected at concentrations exceeding the IEPA Tier I Residential or Commercial SROs.

Groundwater Results:

Piezometers NTC-3402-TP1 and NTC-3402-TP2 yielded sufficient groundwater for laboratory analysis; however, NTC-3402-TP3 did not yield sufficient groundwater for sample collection. BTEX and PNA constituents were not detected above their respective MDLs in any of the submitted groundwater samples.

Building 3511

Soil Results:

Three soil samples were collected from the site and submitted for analysis (NTC-3511-SB1, NTC-3511-SB2, NTC-3511-SB3). PID readings ranged from 0 ppm to 0.3 ppm, which was recorded in NTC-3511-SB2. No impact to the soil was observed within the three soil samples collected. Several PNA constituents were detected above their respective MDLs in the soil samples collected from NTC-3511-SB1 and NTC-3511-SB2. The reported benzo(a)anthracene and dibenzo(a,h)anthracene concentrations in soil sample NTC-3511-SB1 exceeded their respective action levels for the Tier I Residential Soil Ingestion Pathway. Benzo(a)pyrene was identified as exceeding the Tier I Residential and Commercial Soil Ingestion Pathway in soil samples from borings NTC-3511-SB1 and NTC-3511-SB2.

Groundwater Results:

Groundwater samples could only be obtained from NTC-3511-TP1 and NTC-3511-TP3. The NTC-3511-TP2 piezometer did not yield sufficient groundwater for sample collection. The laboratory analytical results indicated the presence of PNAs at concentrations above the MDLs in groundwater sample NTC-3511-TP1. The following PNA concentrations identified in NTC-3511-TP1 exceeded the Class I GROs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene, benzo(k)fluoroanthene, and chrysene. In addition, the benzo(a)anthracene concentration in NTC-3511-TP1 exceeded the Class II GROs.

3.2 Groundwater Flow and Associated Contour Maps

Water level measurements were obtained with an interface probe/water level meter, and each sample location was surveyed with a GPS. The depth to water measurements were correlated to a benchmark elevation of 100 feet established at each of the sites using a laser level to evaluate groundwater elevations. When possible, groundwater elevation contour maps were constructed and the groundwater flow direction was assessed for each site. Groundwater Contour maps are included as **Figure 2.0** for each site building. **Table 3.0** summarizes the recorded groundwater elevation data from each site. Of the 19 LUST sites associated with this project, 13 contour maps were developed with the available data collected.

Groundwater flow direction and contour maps were developed for the following sites:

- Buildings 1, 13, 106, and 3511: Groundwater flow was interpreted to be to the northeast.
- Buildings 229, 238, 3216B and 3402: Groundwater flow was interpreted to be to the southeast.
- Buildings 324, 329, and 3402: Groundwater flow was interpreted to be to the southwest.
- Building 3114A: Groundwater flow was interpreted to be to the west.
- Building 3400: Groundwater was interpreted to be to the northwest.

Groundwater flow direction and contour maps could not be established for the following buildings due to dry piezometers or boring locations:

- Buildings 90, 103, and 144 (dry wells)
- Buildings 68H, 239, and 2912 (soil boring location)

Lake Michigan comprises the eastern boundary of the GLNTC. Based on individual building locations within the base and the recorded direction of groundwater flow at the individual sites, the majority of the sites within the GLNTC were interpreted as having a directional groundwater flow towards Lake Michigan.

3.3 DoD Relative Risk Site Evaluation Primer

The groundwater laboratory analytical results were incorporated into the DoD RRSE Primer to evaluate the relative risk posed by each site. The soil laboratory analytical results could not be used in the DoD RRSE Primer since the primer assumes that the hazards posed by subsurface soil contaminants at a depth greater than 24 inches (e.g., a buried leaking storage tank) is assessed by the evaluation of groundwater, which the DoD RRSE Primer defines as the most probable pathway of deep soil contaminant migration to humans. Copies of the DoD Relative Risk Site Evaluation for groundwater for the 19 LUST sites is provided in **Appendix E**. The Relative Risk Site Evaluation Worksheets for each LUST site are provided in **Appendix F**.

The Relative Risk Site Evaluations are as follows:

Buildings 1, 90, 103, 106, 144, 238, 239, 329, 2912, 3114A, and 3511

Soil is not considered a potential pathway for petroleum hydrocarbons at these sites. The DoD RRSE Primer states that hazards posed by subsurface soil impact is assumed to be assessed by the evaluation of groundwater, which would be the most probable pathway of deep soil contaminant migration to humans. Although impact to groundwater for the COCs identified by the DoD RRSE Primer for petroleum sites is considered to have a minimal Contaminant Hazard Factor (CHF) due to the reported analytical results, a detailed evaluation (i.e., determination of the extent of impact) of groundwater quality has not been performed. Therefore, the Migration Pathway Factor (MPF) is conservatively evaluated as being potential.

The site is classified as having EPA Class III groundwater; therefore, the Receptor Factor (RF) is classified as limited. Based on the DoD Primer, the overall Site Category is selected based on the Highest Media Rating (CHF, MPF, and RF). Since the highest media rating reported for buildings 1, 90, 106, 144, 238, 239, 2912, 3114A, and 3511 was a CHF value that was rated to be minimal, the overall groundwater category is classified as low.

Buildings 13, 68H, 229, 324, 3216B, and 3400

Soil is not considered a potential pathway at these sites. Although impact to groundwater for the COCs identified by the DoD RRSE Primer for petroleum sites is considered to have a moderate CHF due to the reported analytical results, a detailed evaluation (i.e. determination of the extent of impact) of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being potential. The site is classified as having EPA Class III groundwater; therefore, the RF is classified as limited. Based on the DoD RRSE Primer, the overall Site Category is selected based on the Highest Media Rating (CHF, MPF, and RF). Since the highest media rating reported for Buildings 13, 68H, 229, 324, 3216B, and 3400, was a CHF value that was rated to be moderate, the overall groundwater category is classified as medium.

4.0 SUMMARY AND RECOMMENDATIONS

4.1 Summary

TolTest was retained by the United States Department of the Navy, Naval Facilities Engineering Command, under Contract No. N689500-00-D-0200, DO No. 0028, to collect soil and groundwater samples at 19 LUST sites located on the GLNTC facility in Great Lakes, Cook County, Illinois.

The primary DQO for this project was to produce data to enable the Navy to perform relative risk ranking of the 19 LUST sites which will be used to prioritize the sites for additional evaluations and/or corrective actions that may be necessary.

TolTest collected and submitted a total of 44 soil samples and 51 groundwater samples from the 19 LUST sites to an analytical laboratory. The samples were collected using direct push (Geoprobe®) methodology. The analytical parameters chosen for each LUST site were appropriate for the product type(s) formerly stored in the respective USTs and in accordance with IEPA criteria.

Temporary piezometers were installed at each boring location to evaluate the depth to static groundwater at each of the sites. The piezometers installed for this project were surveyed using GPS equipment. This information was utilized in conjunction with groundwater elevation data to interpret groundwater flow at each individual site. Of the 19 LUST sites associated with this project, 13 contour maps were developed with the available data collected. Based on individual building locations and the interpreted direction of groundwater flow at the sites, the majority of sites within the GLNTC were interpreted as having a directional groundwater flow toward Lake Michigan, which comprises the eastern boundary of the GLNTC.

Applying the analytical results for the 19 LUST sites, the DoD RRSE Primer ranked the groundwater laboratory analytical results for Buildings 1, 90, 103, 106, 144, 238, 239, 329, 2912, 3114A, 3402, and 3511 as having an overall groundwater category of low. The DoD RRSE Primer ranked the groundwater laboratory analytical results for Buildings 13, 68H, 229, 324, 3216B, and 3400 as having an overall groundwater category of medium.

General field observations recorded noticeable petroleum impacts at 8 of the 19 LUST sites assessed in this project: Buildings 1, 13, 68H, 106, 144, 229, 329, and 3216B. Free phase petroleum products were observed in soil borings and groundwater samples from Building

3216B. Mr. Carlo Luciano of the NTC Environmental Department was notified on November 12, 2001 of the presence of these liquids in the piezometers.

The laboratory analytical results indicated that IEPA Tier I residential and/or commercial SROs were exceeded for PNAs, SVOCs, VOCs, and/or heavy metals in at least one soil sample collected from Buildings 1, 13, 68H, 106, 144, 229, 239,324, 329, 3216B, and 3511.

The laboratory analytical results indicated that the IEPA Class I and/or Class II GROs were exceeded for PNAs, VOCs, and/or lead in at least one groundwater sample collected from Buildings 13, 68H, 90, 144, 229, 239, 324, 3216B, 3400, and 3511.

The following summarizes the data for each site that had reported concentrations above one or more SROs and/or GROs:

Building 1

RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway.

Building 13

Total lead and SPLP lead exceed the Soil Component for Groundwater Ingestion Pathway. Lead exceeds the Class I and Class II GROs.

Building 68H

Benzene, ethylbenzene, and total lead exceed the Soil Component for Groundwater Ingestion Pathway. Benzene and lead exceed the Class I and Class II GROs, and ethylbenzene exceed the Class I GROs.

Building 90

Various PNAs exceed the Class I GROs, and benzo(a)anthracene exceeds the Class II GROs.

Building 106

Various PNAs exceed the Residential Soil Ingestion Pathway, and benzo(a)pyrene exceeds the Commercial Soil Ingestion Pathway.

Building 144

Benzene exceeds the Residential and Commercial Soil Inhalation Pathway and the Soil Component for Groundwater Ingestion Pathway. Naphthalene exceeds the Soil Component of Groundwater Ingestion Pathway and the Construction Worker Soil Inhalation Pathway. RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway. Toluene and naphthalene exceed the Class I and Class II GROs, and bromomethane exceeds the Class I GROs.

Building 229

Various SVOCs exceed the Residential Soil Ingestion Pathway. Benzo(a)pyrene exceeds the Commercial Soil Ingestion Pathway. Lead exceeds the Class I and Class II GROs. Various PNAs exceed the Residential Soil Ingestion Pathway. Benzo(a)pyrene exceeds the Commercial Soil Ingestion Pathway. Naphthalene exceeds the Construction Worker Soil Inhalation Pathway. Various RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway. Lead exceeds the Residential Soil Ingestion Pathway, Soil Component for Groundwater Ingestion Pathway, Commercial Soil Ingestion Pathway, and Construction Worker Soil Ingestion Pathway.

Building 239

Benzo(a)pyrene exceeds the Residential Soil Ingestion Pathway and Commercial Soil Ingestion Pathway. Lead exceeds the Class I GROs. RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway.

Building 324

Benzo(a) anthracene exceeds the Residential Soil Ingestion Pathway. Benzo(a)pyrene exceeds the Residential Soil Ingestion and Commercial Soil Ingestion Pathways. Various RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway. Various PNAs exceed the Class I and Class II GROs.

Building 329

Various RCRA metals exceed the Soil Component for Groundwater Ingestion Pathway.

Building 3216B

Various PNAs exceed the Soil Component for Groundwater Ingestion Pathway. Benzo(a)pyrene exceeds the Residential and Commercial Soil Ingestion Pathways. Dibenzo(a,h)anthracene exceeds the Residential and Commercial Soil Ingestion Pathways. Naphthalene exceeds the Construction Worker Soil Inhalation Pathway. Various PNAs exceed the Class I GROs, and benzo(a)anthracene, chrysene, and naphthalene exceed the Class II GROs.

Building 3400

Various PNAs exceed the Class I and Class II GROs.

Building 3511

Various PNAs exceed the Residential Soil Ingestion Pathway. Benzo(a)pyrene exceeds the Commercial Soil Ingestion Pathway. Various PNAs exceed the Class I GRO, and benzo(a)anthracene exceeds the Class II GRO.

4.2 Recommendations

Based on the current land use of the buildings and associated LUST sites at the GLNTC and the data and analytical results from this project, TolTest recommends that future remedial and corrective actions be a higher priority at the sites ranked as having a medium overall groundwater category based on the DoD Primer for the Relative Risk Ranking and at those sites that contain free product.

Additional soil and groundwater sampling will be needed at these sites to assess the extent of the petroleum hydrocarbons impacted soil and groundwater. Those sites at which the 45-Day Report requirement has been completed should continue corrective actions in accordance with the IEPA LUST program in order to achieve site closure. Those sites at which the 45-Day Report requirements have not been completed should be entered into the IEPA LUST program.

TABLES

Table 1.0 A
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 1
TolTest Project Number 41792.01

Analyte	NTC-1-SB2 (8'-10')	NTC-1-SB3 (8'-10')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs									
1,2,4-Trimethylbenzene	**0.0796**	**0.0871**	NL	NL	NL	NL	NL	NL	NL
1,3,5-Trimethylbenzene	**0.0293**	**0.0308**	NL	NL	NL	NL	NL	NL	NL
Benzene	**0.0646**	**0.0695**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Ethylbenzene	**0.127**	**0.126**	7,800	400	13/19	200,000	400	20,000	58
m,p-xylene	**0.134**	**0.155**	160,000	320	150/150	1,000,000	320	410,000	320
Methylene chloride	BDL	**0.0358**	85	13	0.02/0.2	760	24	12,000	34
Toluene	**0.0291**	**0.0285**	16,000	650	12/29	410,000	650	410,000	42
SVOCs									
Phenanthrene	**0.765**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	**0.141**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 A (continued)
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 1
TolTest Project Number 41792.01

Analyte	NTC-1-SB2 (8'-10')	NTC-1-SB3 (8'-10')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
PNAs									
Acenaphthene	**0.0635**	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	**0.0539**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	**0.0885**	BDL	0.9	NV	2/8	8	NV	170	NV
Chrysene	**0.0959**	BDL	88	NV	160/800	780	NV	17,000	NV
Fluoranthene	**0.782**	BDL	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	**0.157**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Naphthalene	**0.0207**	BDL	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	**0.414**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	**0.45**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
RCRA METALS									
Arsenic	**7.02**	**3.97**	NV	750	0.05/0.2	NV	1,200	61	25,000
Barium	**48**	**44.2**	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	**1.11**	**1.07**	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	**12.6**	**11.3**	230	270	0.1/1.0	6,100	420	4,100	690
Lead	**8.72**	**9.04**	400	NV	0.0075/0.1	400	NV	400	NV
Selenium	BDL	**0.306**	390	NV	0.05/0.05	10,000	NV	1,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 B
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 13
TolTest Project Number 41792.01

Analyte	NTC-13 SB1 (4.5' – 6.5')	NTC-13 SB2 (5' – 7')	NTC-13 SB3 (8'– 10')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX, MTBE										
Benzene	BDL	BDL	**0.0011**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
LEAD (TOTAL)	**14.9**	**8.98**	**10.8**	400	NV	0.0075/0.1	400	NV	400	NV
LEAD (SPLP)	**0.007**	BDL	**0.012**	400	NV	0.0075/0.1	400	NV	400	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except for Lead (SPLP) which is mg/L.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 C
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 68H
TolTest Project Number 41792.01

Analyte	NTC-68H SB1 (8' – 10')	NTC-68H SB 2 (6' – 8')	NTC-68H SB 3 (8'– 10')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX, MTBE										
Benzene	BDL	**0.485**	BDL	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Ethylbenzene	**2.54**	**24.1**	BDL	7,800	400	13/19	200,000	400	20,000	58
Toluene	**0.0922**	**0.19**	BDL	16,000	650	12/29	410,000	650	410,000	42
Xylenes, Total	**5.2**	BDL	BDL	160,000	320	150/150	1,000,000	320	410,000	320
LEAD (TOTAL)	**16.3**	**12**	**21**	400	NV	0.0075/0.1	400	NV	400	NV
LEAD (SPLP)	**0.007**	**0.006**	**0.005**	400	NV	0.0075/0.1	400	NV	400	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 D
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 90
TolTest Project Number 41792.01

Analyte	NTC-90-SB3 (6' – 8')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX								
Toluene	**0.00172**	16,000	650	12/29	410,000	650	410,000	42
PNAs	BDL	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 1.0 E
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 103
TolTest Project Number 41792.01

Analyte	NTC-103-SB2 (14'-16')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX	BDL	NA	NA	NA	NA	NA	NA	NA
PNAs	BDL	NA	NA	NA	NA	NA	NA	NA
LEAD (TOTAL)	**13.9**	400	NV	0.0075/0.1	400	NV	400	NV
LEAD (SPLP)	BDL	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except for Lead (SPLP) which is in mg/L.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. NA indicates not applicable.
8. Only those compounds detected are reported in the table.

Table 1.0 F
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 106
TolTest Project Number 41792.01

Analyte	NTC-106-SB1 (8'-10')	NTC-106 SB2 (4'-6')	NTC-106 SB3 (6'-8')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX										
Benzene	BDL	BDL	**0.00529**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Ethylbenzene	BDL	BDL	**0.0575**	7,800	400	13/19	200,000	400	20,000	58
Toluene	BDL	BDL	BDL	16,000	650	12/29	410,000	650	410,000	42
Xylenes, Total	BDL	BDL	**0.143**	160,000	320	150/150	1,000,000	320	410,000	320
PNAs										
Acenaphthene	BDL	**0.13**	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Acenaphthylene	BDL	BDL	BDL	NL	NL	NL	NL	NL	NL	NL
Anthracene	BDL	**0.699**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	**0.00876**	**1.673**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	**0.0124**	**1.74**	BDL	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	**0.0117**	**1.44**	BDL	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	**0.0212**	**1.96**	BDL	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	**0.00584**	**0.864**	BDL	9	NV	49/250	78	NV	1,700	NV
Chrysene	**0.00949**	**1.37**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	**0.225**	BDL	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	**0.0183**	**3.57**	**0.0138**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**0.13**	**0.0153**	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	**0.00876**	**1.05**	BDL	0.9	NV	14/69	8	NV	170	NV
Naphthalene	BDL	**0.0262**	**0.0573**	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	BDL	**2.16**	**0.0153**	NL	NL	NL	NL	NL	NL	NL
Pyrene	**0.0183**	**3.25**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 G
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 144
TolTest Project Number 41792.01

Analyte	NTC-144-SB2 (10'-12')	NTC-144-SB3 (2'-4')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs									
1,2,4-Trimethylbenzene	**0.00589**	**137**	NL	NL	NL	NL	NL	NL	NL
1,3,5-Trimethylbenzene	BDL	**39.6**	NL	NL	NL	NL	NL	NL	NL
Benzene	**0.00587**	**6.16**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Ethylbenzene	**0.00892**	**41.9**	7,800	400	13/19	200,000	400	20,000	58
Isopropyl Toluene	BDL	**1.1**	NL	NL	NL	NL	NL	NL	NL
m,p-xylene	**0.0107**	**125**	160,000	320	150/150	1,000,000	320	410,000	320
Methyl tert-butyl ether	**0.0117**	BDL	780	8,800	0.32/0.32	20,000	8,800	2,000	140
Methylene Chloride	**0.0547**	BDL	85	13	0.02/0.2	760	24	12,000	34
n-butylbenzene	BDL	**21**	NL	NL	NL	NL	NL	NL	NL
Naphthalene	BDL	**13.2**	1,600	170	12/18	41,000	270	4,100	1.8
o-xylene	BDL	**37.2**	160,000	410	190/190	1,000,000	410	410,0000	410
sec-Butylbenzene	BDL	**5.4**	NL	NL	NL	NL	NL	NL	NL
Styrene	BDL	**1.09**	16,000	1,500	4/18	410,000	1,500	41,000	430
Toluene	**0.00419**	**19.0**	16,000	650	12/29	410,000	650	410,000	42

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 G (continued)
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 144
TolTest Project Number 41792.01

Analyte	NTC-144-SB2 (10'-12')	NTC-144-SB3 (2'-4')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
SVOCs									
2-Methylnaphthalene	BDL	**5.14**	NL	NL	NL	NL	NL	NL	NL
Acenaphthene	BDL	**0.0783**	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	BDL	**0.0965**	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	BDL	**0.0749**	0.9	NV	2/8	8	NV	170	NV
Benzo(b,k)fluoranthene	BDL	**0.0712**	0.9	NV	5/25	8	NV	170	NV
Chrysene	BDL	**0.0794**	88	NV	160/800	780	NV	17,000	NV
Fluoranthene	BDL	**0.25**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**0.0723**	3,100	NV	560/2,800	82,000	NV	82,000	NV
m,p-Cresol	BDL	**0.193**	NL	NL	NL	NL	NL	NL	NL
Naphthalene	BDL	**6.11**	1,600	170	12/18	41,000	270	4,100	1.8
o-Cresol	BDL	**0.216**	NL	NL	NL	NL	NL	NL	NL
Phenanthrene	BDL	**0.326**	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**0.186**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
RCRA METALS									
Arsenic	5.99	3.01	NV	750	0.05/0.2	NV	1,200	61	25,000
Barium	15	77.5	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	0.817	1.28	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	7.76	16.2	230	270	0.1/1.0	6,100	420	4,100	690
Lead	11.7	16.1	400	NV	0.0075/0.1	400	NV	400	NV
Lead, SPLP	BDL	0.014	400	NV	0.0075/0.1	400	NV	400	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except for Lead (SPLP) which is in mg/L.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 H
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 229
TolTest Project Number 41792.01

Analyte	NTC-229-SB1 (6' – 8')	NTC-229-SB2 (14' – 16')	NTC-229-SB3 (10'– 12')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs										
1,2,3-Trichloropropane	BDL	**0.0116**	BDL	NL	NL	NL	NL	NL	NL	NL
1,2,4 –Trimethylbenzene	BDL	**0.00335**	BDL	NL	NL	NL	NL	NL	NL	NL
Benzene	**0.00131**	BDL	**0.00163**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Methylene Chloride	BDL	BDL	**0.00396**	85	13	0.02/0.2	760	24	12,000	34
Tetrachloroethene	**0.00198**	BDL	**0.0042**	12	11	0.06/0.3	110	20	2,400	28
Toluene	**0.00269**	BDL	BDL	16,000	650	12/29	410,000	650	410,000	42
SVOCs										
2-Methylnaphthalene	BDL	**7.40**	BDL	NL	NL	NL	NL	NL	NL	NL
Acenaphthene	BDL	**0.899**	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	BDL	**1.40**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	BDL	**1.50**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	**1.34**	BDL	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b,k)fluoranthene	BDL	**2.44**	**0.0786**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,i)perylene	BDL	**0.916**	BDL	NL	NL	NL	NL	NL	NL	NL
Bis(2-ethylhexyl)phthalate	BDL	BDL	BDL	46	31,000	3,600/31,000	410	31,000	4,100	31,000
Chrysene	BDL	**1.61**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenz (a,h)anthracene	BDL	**0.307**	BDL	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	BDL	**3.42**	**0.0772**	3,100	NV	4,300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**1.08**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno (1,2,3-cd)pyrene	BDL	**0.817**	BDL	0.9	NV	14/69	8	NV	170	NV
Naphthalene	BDL	**1.79**	BDL	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	BDL	**4.17**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**2.91**	**0.0755**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported int eh table.

Table 1.0 H (Continued)
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 229
TolTest Project Number 41792.01

Analyte	NTC-229-SB1 (6' – 8')	NTC-229-SB2 (14' – 16')	NTC-229-SB3 (10'– 12')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
PNAs										
Acenaphthene	BDL	**0.705**	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	BDL	**0.695**	**0.0468**	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	BDL	**1.29**	**0.406**	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	**1.19**	**0.509**	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	BDL	**0.998**	**0.384**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	BDL	**1.24**	**0.567**	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	BDL	**0.563**	**0.21**	9	NV	49/250	78	NV	1,700	NV
Chrysene	BDL	**0.874**	**0.357**	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	**0.159**	**0.061**	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	BDL	**4.29**	**0.702**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**2.93**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	BDL	**0.688**	**0.231**	0.9	NV	14/69	8	NV	170	NV
Naphthalene	BDL	**2.57**	**0.0397**	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	BDL	**4.46**	**0.143**	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**3.28**	**0.64**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
METALS										
Arsenic	**6.22**	**6.39**	**27.1**	NV	750	0.05/0.2	NV	1,200	61	25,000
Barium	**50.6**	**114**	**1,020**	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	**1.55**	**2.35**	**10.6**	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	**13.4**	**14.3**	**86.1**	230	270	0.1/1.0	6,100	420	4,100	690
Lead	**12.2**	**196**	**3,410**	400	NV	0.0075/0.1	400	NV	400	NV
Mercury	BDL	**0.158**	**1.7**	23	10	0.002/0.01	610	540,000	61	52,000
Silver	BDL	BDL	**9.61**	390	NV	0.05/NV	10,000	NV	1,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 J
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 239
TolTest Project Number 41792.01

Analyte	NTC-239-SB1 (10' – 12')	NTC-239-SB2 (2' – 4')	NTC-239-SB3 (6'– 8')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs										
Benzene	**0.00117**	**0.00097**	**0.00085**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Methylene Chloride	**0.00449**	BDL	BDL	85	13	0.02/0.2	760	24	12,000	34
SVOCs										
Benzo(a)anthracene	BDL	**0.177**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	**0.234**	BDL	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b,k)fluoranthene	BDL	**0.165**	**0.0392**	9	NV	5/25	8	NV	170	NV
Benzo(g,h,i)perylene	BDL	**0.199**	BDL	NL	NL	NL	NL	NL	NL	NL
Bis(2-ethylhexyl)phthalate	BDL	**0.0536**	BDL	46	31,000	3,600/31,000	410	31,000	4,100	31,000
Chrysene	BDL	**0.244**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	**0.0557**	BDL	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	BDL	**0.121**	**0.0547**	3,100	NV	4,300/21,000	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	BDL	**0.0749**	BDL	0.9	NV	14/69	8	NV	170	NV
Phenanthrene	BDL	**0.0923**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**0.231**	**0.0529**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 J (continued)
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 239
TolTest Project Number 41792.01

Analyte	NTC-239-SB1 (10' – 12')	NTC-239-SB2 (2' – 4')	NTC-239-SB3 (6'– 8')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
PNAs										
Anthracene	BDL	**0.0363**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	BDL	**0.126**	**0.033**	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	**0.192**	**0.0431**	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	BDL	**0.144**	**0.0388**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	BDL	**0.302**	**0.033**	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	BDL	**0.0943**	**0.0172**	9	NV	49/250	78	NV	1,700	NV
Chrysene	BDL	**0.109**	**0.287**	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	**0.0305**	**0.00862**	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	BDL	**0.235**	**0.103**	3,100	NV	4,300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**0.016**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	BDL	**0.11**	**0.0158**	0.9	NV	14/69	8	NV	170	NV
Phenanthrene	BDL	**0.16**	**0.0646**	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**0.209**	**0.0919**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
METALS										
Arsenic	**10.6**	**5.11**	**6.59**	NV	750	0.05/.2	NV	1,200	61	25,000
Barium	**12.9**	**35.8**	**10.5**	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	BDL	**5.08**	**0.815**	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	**6.31**	**76.1**	**5.07**	230	270	0.1/1.0	6,100	420	4,100	690
Lead	**7.41**	**99.8**	**5.75**	400	NV	0.0075/0.1	400	NV	400	NV
Selenium	BDL	**0.295**	BDL	390	NV	0.05/0.05	10,000	NV	1,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 K
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 324
TolTest Project Number 41792.01

Analyte	NTC-324-SB1 (10'-12')	NTC-324-SB2 (8'-10')	NTC-324-SB3 (10'-12')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs										
1,2,4-Trimethylbenzene	BDL	**0.089**	BDL	NL	NL	NL	NL	NL	NL	NL
2-Methylnaphthalene	BDL	**3.0**	BDL	NL	NL	NL	NL	NL	NL	NL
Naphthalene	BDL	**0.260**	BDL	1,600	170	12/18	41,000	270	4,100	1.8
SVOCs										
2-Methylnaphthalene	BDL	**6.9**	BDL	NL	NL	NL	NL	NL	NL	NL
Acenaphthene	BDL	**1.2**	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	BDL	**1.1**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	BDL	**1.3**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	**0.860**	BDL	0.09	NV	8/82	.8	NV	17	NV
Benzo(b)fluoranthene	BDL	**0.300**	BDL	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	BDL	**0.300**	BDL	NL	NL	NL	NL	NL	NL	NL
Benzo(kfluoranthene	BDL	**0.200**	BDL	9	NV	49/250	78	NV	1,700	NV
Chrysene	BDL	**1.7**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenzofuran	BDL	**0.800**	BDL	NL	NL	NL	NL	NL	NL	NL
Fluoranthene	BDL	**0.820**	BDL	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**1.8**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Phenanthrene	BDL	**8.2**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**4.7**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
RCRA METALS										
Arsenic	**3.4**	**6.8**	**6.8**	NV	750	0.05/0.2	NV	1,200	61	25,000
Barium	**26**	**76**	**19.0**	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	**0.530**	**0.720**	**0.430**	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	**14**	**17**	**9.7**	230	270	0.1/1.0	6,100	420	4,100	690
Lead	**5**	**32**	**8.2**	400	NV	0.0075/0.1	400	NV	400	NV
Mercury	**0.130**	BDL	BDL	23	10	0.002/0.01	610	540,000	61	52,000

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. ND indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 L
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 329
TolTest Project Number 41792.01

Analyte	NTC-329-SB1 (5' – 7')	NTC-329-SB2 (4' – 5')	NTC-329-SB3 (6'– 8')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
VOCs										
Benzene	BDL	**0.00097**	**0.00192**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Bromoform	**0.0124**	**0.0238**	**0.0614**	81	53	0.8/0.8	720	100	16,000	140
Dibromochloromethane	BDL	BDL	**0.0027**	NL	NL	NL	NL	NL	NL	NL
Toluene	BDL	**0.00187**	**0.00302**	16,000	650	12/29	410,000	650	410,000	42
SVOCs										
Benzo(a)anthracene	BDL	**0.043**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(b,k)fluoranthene	BDL	**0.0528**	BDL	0.9	NV	5/25	8	NV	170	NV
Bis(2-ethylhexyl)phthalate)	BDL	**0.313**	BDL	46	31,000	3,600/31,000	410	31,000	4,100	31,000
Butyl benzyl phthalate	BDL	**0.0329**	BDL	16,000	930	930/930	410,000	930	410,000	930
Chrysene	BDL	**0.0482**	BDL	88	NV	160/800	780	NV	17,000	NV
Fluoranthene	BDL	**0.135**	BDL	3,100	NV	4,300/21,000	82,000	NV	82,000	NV
Phenanthrene	BDL	**0.0672**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	**0.109**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV
PNAs	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
RCRA METALS										
Arsenic	**2.34**	**5.53**	**17.1**	NV	750	0.05/0.2	NV	1,200	61	25,000
Barium	**31**	**34.8**	**34.9**	5,500	690,000	2/2	140,000	910,000	14,000	870,000
Cadmium	BDL	**1.12**	**1.69**	78	1,800	0.005/0.05	2,000	2,800	200	59,000
Chromium	**13.5**	**11.1**	**11.7**	230	270	0.1/1.0	6,100	420	4,100	690
Lead	**7.8**	**13.2**	**10.4**	400	NV	0.0075/0.1	400	NV	400	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 1.0 M
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 2912
TolTest Project Number 41792.01

Analyte	NTC-2912-SB1 (10' – 11')	NTC-2912-SB2 (5' – 6')	NTC-2912-SB3 (4'– 5')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX										
Toluene	BDL	BDL	**0.00408**	16,000	650	12/29	410,000	650	410,000	42
Xylenes, total	BDL	**0.00275**	BDL	160,000	320	150/150	1,000,000	320	410,000	320
PNAs										
Benzo(a)anthracene	BDL	BDL	**0.0389**	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	BDL	**0.0442**	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	BDL	**0.00908**	**0.0483**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	BDL	BDL	**0.067**	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	BDL	BDL	**0.0228**	9	NV	49/250	78	NV	1,700	NV
Chrysene	BDL	**0.0121**	**0.0349**	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	BDL	**0.00804**	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	**0.0111**	**0.0469**	**0.0952**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**0.0454**	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	BDL	BDL	**0.0429**	0.9	NV	14/69	8	NV	170	NV
Phenanthrene	**0.0899**	**0.0454**	**0.0496**	NL	NL	NL	NL	NL	NL	NL
Pyrene	**0.0443**	**0.0303**	**0.0764**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 N
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3114A
TolTest Project Number 41792.01

Analyte	NTC-3114A-SB1 (9' – 10')	NTC-3114A-SB2 (10' – 11')	NTC-3114A-SB3 (5'– 6')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX, MTBE	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
LEAD (TOTAL)	**9.72**	**8.64**	**26.1**	400	NV	0.0075/0.1	400	NV	400	NV
LEAD (SPLP)	BDL	BDL	0.007	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. NA indicates not applicable.

Table 1.0 O
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3216B
TolTest Project Number 41792.01

Analyte	NTC-3216B-SB1 (2' – 4')	NTC-3216B-SB2 (6' – 8')	NTC-3216B-SB3 (4'– 6')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
PNAs										
Acenaphthene	BDL	**0.218**	**0.547**	4,700	NV	570/2,900	120,000	NV	120,000	NV
Acenaphthylene	**0.378**	BDL	BDL	NL	NL	NL	NL	NL	NL	NL
Anthracene	BDL	BDL	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	**0.0721**	**4.1**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	**0.13**	**6.0**	**3.93**	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	**0.158**	**7.12**	**3.51**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	**0.207**	**8.23**	**6.98**	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	**0.0812**	**3.63**	**1.96**	9	NV	49/250	78	NV	1,700	NV
Chrysene	**0.582**	**4.19**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	**0.0278**	**1.03**	**0.805**	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	**0.121**	**3.24**	**4.06**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	BDL	**0.785**	**0.483**	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	**0.123**	**5.44**	**5.66**	0.9	NV	14/69	8	NV	170	NV
Naphthalene	BDL	**3.81**	**0.933**	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	**0.065**	**1.15**	**1.58**	NL	NL	NL	NL	NL	NL	NL
Pyrene	**0.11**	**2.43**	**2.57**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 1.0 P
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3400
TolTest Project Number 41792.01

Analyte	NTC-3400-SB2 (9' – 10')	NTC-3400-SB3 (3'– 4')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Class I/Class II Pathway	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
PNAs									
Benzo(a)anthracene	**0.0138**	BDL	0.9	NV	2/8	8	NV	170	NV
Fluoranthene	**0.00828**	BDL	3,100	NV	4,300/21,000	82,000	NV	82,000	NV
Phenanthrene	**0.0428**	BDL	NL	NL	NL	NL	NL	NL	NL

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 1.0 Q
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3402
TolTest Project Number 41792.01

Analyte	NTC-3402-SB1 (6' – 7')	NTC-3402-SB2 (8' – 9')	NTC-3402-SB3 (10'– 11')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX										
Benzene	BDL	BDL	**0.00291**	12	0.8	0.03/0.17	100	1.6	2,300	2.2
Toluene	BDL	BDL	**0.00547**	16,000	650	12/29	410,000	650	410,000	42
PNAs										
Benzo(a)anthracene	BDL	BDL	**0.071**	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	BDL	BDL	**0.0754**	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	BDL	BDL	**0.0798**	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	BDL	BDL	**0.0932**	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	BDL	BDL	**0.0414**	9	NV	49/250	78	NV	1,700	NV
Chrysene	BDL	BDL	**0.0725**	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	BDL	BDL	**0.0133**	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	BDL	0.0211	**0.203**	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	BDL	BDL	**0.0488**	0.9	NV	14/69	8	NV	170	NV
Phenanthrene	BDL	BDL	**0.122**	NL	NL	NL	NL	NL	NL	NL
Pyrene	BDL	BDL	**0.151**	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 1.0 R
Soil Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3511
TolTest Project Number 41792.01

Analyte	NTC-3511-SB1 (8' – 10')	NTC-3511-SB2 (8' – 10')	NTC-3511-SB3 (10'– 12')	Tier I Residential Soil Ingestion Pathway	Tier I Residential Soil Inhalation Pathway	Tier I Soil Component Of Groundwater Ingestion Pathway Class I/Class II	Tier I Commercial Soil Ingestion Pathway	Tier I Commercial Soil Inhalation Pathway	Tier I Construction Worker Soil Ingestion Pathway	Tier I Construction Worker Soil Inhalation Pathway
BTEX	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA
PNAs										
Acenaphthene	**0.0748**	BDL	BDL	4,700	NV	570/2,900	120,000	NV	120,000	NV
Anthracene	**0.451**	**0.0381**	BDL	23,000	NV	12,000/59,000	610,000	NV	610,000	NV
Benzo(a)anthracene	**0.998**	**0.126**	BDL	0.9	NV	2/8	8	NV	170	NV
Benzo(a)pyrene	**0.931**	**0.134**	BDL	0.09	NV	8/82	0.8	NV	17	NV
Benzo(b)fluoranthene	**0.799**	**0.134**	BDL	0.9	NV	5/25	8	NV	170	NV
Benzo(g,h,I)perylene	**0.986**	**0.142**	BDL	NL	NL	NL	NL	NL	NL	NL
Benzo(k)fluoranthene	**0.536**	**0.0761**	BDL	9	NV	49/250	78	NV	1,700	NV
Chrysene	**0.814**	**0.0761**	BDL	88	NV	160/800	780	NV	17,000	NV
Dibenz(a,h)anthracene	**0.133**	**0.0259**	BDL	0.09	NV	2/7.6	0.8	NV	17	NV
Fluoranthene	**2.16**	**0.209**	BDL	3,100	NV	4.300/21,000	82,000	NV	82,000	NV
Fluorene	**0.0959**	BDL	BDL	3,100	NV	560/2,800	82,000	NV	82,000	NV
Indeno(1,2,3-cd)pyrene	**0.552**	**0.0853**	BDL	0.9	NV	14/69	8	NV	170	NV
Naphthalene	**0.0592**	BDL	BDL	1,600	170	12/18	41,000	270	4,100	1.8
Phenanthrene	**1.24**	**0.105**	BDL	NL	NL	NL	NL	NL	NL	NL
Pyrene	**1.94**	**0.221**	BDL	2,300	NV	4,200/21,000	61,000	NV	61,000	NV

Notes:
1. Concentrations are in mg/kg, which are approximately equivalent to ppm, except soil component of groundwater, which is reported in mg/L for Class I & II.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 2.0 A
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 1
TolTest Project Number 41792.01

Analyte	NTC-1-TP1	NTC-1-TP2	NTC-1-TP3	Groundwater Remediation Objectives	
				Class I	Class II
VOCs					
1,2,4-Trimethylbenzene	BDL	**0.00155**	BDL	NL	NL
1,3,5-Trimethylbenzene	BDL	**0.00227**	BDL	NL	NL
n-Propylbenzene	BDL	**0.0032**	BDL	NL	NL
sec-Butylbenzene	BDL	**0.00275**	BDL	NL	NL
Toluene	BDL	**0.00212**	**0.00168**	1.0	2.5
SVOCs	BDL	NT	BDL	NA	NA
PNAs	BDL	BDL	BDL	NA	NA
RCRA METALS					
Barium	**0.019**	NT	**0.032**	2.0	2.0
Lead	BDL	BDL	**0.004**	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NT indicates no sample tested for listed analyte.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 2.0 B
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 13
TolTest Project Number 41792.01

Analyte	NTC-13-TP1	NTC-13-TP2	NTC-13-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX, MTBE					
Benzene	BDL	BDL	**0.00439**	0.005	0.025
Toluene	BDL	BDL	**0.01932**	1.0	2.5
LEAD (TOTAL)	0.144	0.071	0.026	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. ND indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.

Table 2.0 C
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 68H
TolTest Project Number 41792.01

Analyte	NTC-68H-TP1	NTC-68H-TP2	NTC-68H-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX, MTBE					
Benzene	**0.0315**	**0.08351**	BDL	0.005	0.025
Ethylbenzene	**0.9251**	**0.5434**	**0.00354**	0.7	1.0
Toluene	**0.1167**	**0.0457**	**0.0002**	1.0	2.5
Xylenes, Total	**2.384**	**0.0943**	BDL	10.0	10.0
LEAD (TOTAL)	**0.365**	**0.2057**	NA	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NA indicates sample not analyzed for listed analyte.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 2.0 D
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 90
TolTest Project Number 41792.01

Analyte	NTC-90-TP1	NTC-90-TP2	NTC-90-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX	BDL	BDL	BDL	NA	NA
PNAs					
Acenaphthene	**0.00026**	**0.00031**	NT	0.42	2.1
Anthracene	**0.00024**	**0.00009**	NT	2.1	10.5
Benzo(a)anthracene	**0.00144**	**0.00029**	NT	0.00013	0.00065
Benzo(a)pyrene	**0.00119**	**0.00036**	NT	0.0002	0.002
Benzo(b)fluoranthene	**0.00118**	**0.00035**	NT	0.00018	0.0009
Benzo(g,h,I)perylene	**0.00143**	**0.0004**	NT	NL	NL
Benzo(k)fluoranthene	**0.00069**	**0.00019**	NT	0.00017	0.00085
Chrysene	**0.00102**	**0.00032**	NT	0.0015	0.0075
Dibenz(a,h)anthracene	**0.00019**	**0.00005**	NT	0.0003	0.0015
Fluoranthene	**0.00396**	**0.00107**	NT	0.28	1.4
Fluorene	**0.00027**	**0.00032**	NT	0.28	1.4
Indeno(1,2,3-cd)pyrene	**0.00086**	**0.00024**	NT	0.00043	0.00215
Naphthalene	**0.00207**	**0.00107**	NT	0.025	0.039
Phenanthrene	**0.001**	**0.00066**	NT	NL	NL
Pyrene	**0.00332**	**0.00089**	NT	0.21	1.05

Notes:
1. Concentrations are in milligrams per kilogram (mg/L), which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NT indicates sample not tested for listed analyte.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 2.0 E
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 103
TolTest Project Number 41792.01

Analyte	NTC-103-TP1	NTC-103-TP 2	NTC-103-TP 3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX					
Benzene	0.00135	BDL	BDL	0.005	0.025
Toluene	0.00286	BDL	BDL	1.0	2.5
PNAs	BDL	BDL	BDL	NA	NA
LEAD (TOTAL)	NT	**0.003**	**0.005**	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. Bold print indicates value, which exceeds laboratory MDL.
4. Shaded value exceeds one or more remediation objective.
5. NT indicates not tested for that analyte.
6. Only those compounds detected are reported in the table.
7. NA indicates not applicable.

Table 2.0 F
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 106
TolTest Project Number 41792.01

Analyte	NTC-106-TP1	Groundwater Remediation Objectives	
		Class I	Class II
BTEX			
Benzene	0.00264	0.005	0.025
Toluene	0.00668	1.0	2.5
PNAs			
Naphthalene	0.00044	0.025	0.039

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.

Table 2.0 G
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 144
TolTest Project Number 41792.01

Analyte	NTC-144-TP1	NTC-144-TP2	NTC-144-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX/VOCs					
Benzene	BDL	BDL	**1.738**	0.005	0.025
Ethylbenzene	BDL	BDL	**0.2664**	0.7	1.0
Xylenes	BDL	BDL	**1.4649**	10.0	10.0
Toluene	BDL	BDL	**3.654**	1.0	2.5
O-Xylene	BDL	BDL	**0.5075**		
MTBE	BDL	**0.02047**	BDL	NL	NL
1,2,4-Trimethylbenzene	BDL	BDL	**0.1654**	NL	NL
1,3,5-Trimethylbenzene	BDL	BDL	**0.0588**	NL	NL
Bromomethane	BDL	BDL	**0.04**	0.0098	0.049
m, p, Xylene	BDL	BDL	**0.9574**		
Naphthalene	BDL	BDL	**0.068**	0.025	0.039
SVOCs	NT	BDL	NT	NA	NA
PNAs	NT	BDL	NT	NA	NA
Metals (Total)					
Barium	**0.036**	**0.046**	**0.093**	2.0	2.0
Lead	**0.004**	BDL	**0.003**	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. NT indicates not tested for that analyte.
7. Only those compounds detected are reported in the table.
8. NA indicates not applicable.

Table 2.0 H
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 229
TolTest Project Number 41792.01

Analyte	NTC-229-TP1	NTC-229-TP2	NTC-22 9-TP3	Groundwater Remediation Objectives	
				Class I	Class II
VOCs					
cis-1,2-Dichloroethene	**0.0017**	NA	NA	0.07	0.2
Trichlorofluoromethane	**0.0056**	NA	NA	NL	NL
SVOCs	BDL	NA	NA	NA	NA
PNAs					
Phenol	BDL	**0.00511**	BDL	0.1	0.1
RCRA METALS					
Barium	**0.137**	NA	NA	2.0	2.0
Lead	**0.124**	NA	NA	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.
7. NA indicates not applicable.

Table 2.0 I
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 238
TolTest Project Number 41792.01

Analyte	NTC-238-TP1	NTC-238-TP2	NTC-238-TP3
BTEX	BDL	BDL	BDL
PNAs	BDL	BDL	BDL

Notes:
1. BDL indicates concentrations below laboratory MDLs.

Table 2.0 J
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 239
TolTest Project Number 41792.01

Analyte	NTC-239-TP1	NTC-239-TP2	NTC-239-TP3	Groundwater Remediation Objectives	
				Class I	Class II
VOCs					
Toluene	BDL	BDL	**0.00169**	1.0	2.5
SVOCs					
Methylene Chloride	BDL	**0.00271**	BDL	0.005	0.05
PNAs					
Acenaphthene	BDL	**0.00013**	BDL	0.42	2.1
Anthracene	BDL	**0.00006**	BDL	2.1	10.5
Fluoranthene	BDL	**0.0006**	BDL	0.28	1.4
Fluorene	BDL	**0.0001**	BDL	0.28	1.4
Naphthalene	BDL	**0.000045**	BDL	0.025	0.039
Phenanthrene	BDL	**0.00048**	BDL	NL	NL
Pyrene	BDL	**0.00026**	BDL	0.21	1.05
RCRA METALS					
Barium	**0.05**	**0.231**	**0.126**	2.0	2.0
Lead	**0.015**	**0.005**	**0.005**	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.

Table 2.0 K
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 324
TolTest Project Number 41792.01

Analyte	NTC-324-TP1	NTC-324-TP2	NTC-324-TP3	Groundwater Remediation Objectives	
				Class I	Class II
VOCs					
1,2,4-Trimethylbenzene	**0.0012**	BDL	BDL	NL	NL
2-Methylnapthalene	**0.056**	BDL	BDL	NL	NL
Chloromethane	BDL	BDL	**0.0018**	NL	NL
n-Propylbenzene	**0.0016**	BDL	BDL	NL	NL
Naphthalene	**0.0062**	BDL	BDL	0.025	0.039
SVOCs					
Bis(2-ethylhexyl)phthalate	BDL	**0.005**	BDL	0.006	0.06
Carbazole	BDL	**0.006**	BDL	NL	NL
Dibenzofuran	BDL	**0.013**	BDL	NL	NL
PNAs					
2-Methylnaphthalene	BDL	**0.084**	BDL	NL	NL
Anthracene	BDL	**0.018**	BDL	2.1	10.5
Benzo(a)anthracene	BDL	**0.045**	BDL	0.00013	0.00065
Benzo(a)pyrene	BDL	**0.0061**	BDL	0.0002	0.002
Benzo(b)fluoranthene	BDL	**0.0042**	BDL	0.00018	0.0009
Benzo(g,h,I)perylene	BDL	**0.0061**	BDL	NL	NL
Benzo(k)fluoranthene	BDL	**0.0059**	BDL	0.00017	0.00085
Chrysene	BDL	**0.036**	BDL	0.0015	0.0075
Dibenz(a,h)anthracene	BDL	**0.0077**	BDL	0.0003	0.0015
Fluoranthene	BDL	**0.048**	BDL	0.28	1.4
Fluorene	BDL	**0.028**	BDL	0.28	1.4
Indeno(1,2,3-cd)pyrene	BDL	**0.0079**	BDL	0.00043	0.00215
Naphthalene	BDL	**0.014**	BDL	0.025	0.039
Phenanthrene	BDL	**0.095**	BDL	NL	NL
Pyrene	BDL	**0.041**	BDL	0.21	1.05

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds detected are reported in the table.

Table 2.0 K (Continued)
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 324
TolTest Project Number 41792.01

Analyte	NTC-324-TP1	NTC-324-TP2	NTC-324-TP3	Groundwater Remediation Objectives	
				Class I	Class II
RCRA METALS					
Arsenic	**0.002**	**0.0065**	**0.002**	0.05	0.2
Barium	**0.140**	**0.580**	**0.350**	2.0	2.0
Chromium	**0.003**	**0.0076**	**0.003**	0.1	1.0
Lead	BDL	**0.018**	BDL	0.0075	0.1

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NV indicates no value for this exposure pathway.
4. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
5. Bold print indicates value above laboratory MDL.
6. Shaded value exceeds one or more remediation objective.
7. Only those compounds dtected are reported in the table.

Table 2.0 L
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 329
TolTest Project Number 41792.01

Analyte	NTC-329-TP1	NTC-329-TP2	NTC-329-TP3	Groundwater Remediation Objectives	
				Class I	Class II
VOCs	BDL	BDL	BDL	NA	NA
SVOCs					
Benzyl alcohol	**0.00865**	BDL	BDL	NL	NL
PNAs	BDL	BDL	BDL	NA	NA
RCRA METALS					
Barium	**0.151**	**0.048**	**0.09**	2.0	2.0

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.
7. NA indicates not applicable.

Table 2.0 M
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 2912
TolTest Project Number 41792.01

Analyte	NTC-2912-TP2	NTC-2912-TP3
BTEX	BDL	BDL
PNAs	NT	BDL

Notes:
1. NA indicates sample not tested for listed analyte.
2. BDL indicates concentrations below laboratory MDLs.

Table 2.0 N
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3114A
TolTest Project Number 41792.01

Analyte	NTC-3114A-TP2	NTC-3114A-TP3
BTEX,MTBE	BDL	BDL
LEAD (TOTAL)	0.006	BDL

Notes:
1. NT indicates sample not tested for listed analyte
2. BDL indicates concentrations below laboratory MDLs.

Table 2.0 O
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3216B
TolTest Project Number 41792.01

Analyte	NTC-3216B-TP1	NTC-3216B-TP2	NTC-3216B-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX					
Toluene	BDL	**0.00255**	BDL	1.0	2.5
PNAs					
Acenaphthene	**0.0367**	**0.0789**	**0.0221**	0.42	2.1
Anthracene	**0.00626**	**0.0305**	**0.0105**	2.1	10.5
Benzo(a)anthracene	**0.00239**	**0.0538**	BDL	0.00013	0.00065
Benzo(a)pyrene	BDL	BDL	**0.00012**	0.0002	0.002
Benzo(b)fluoranthene	BDL	BDL	BDL	0.00018	0.0009
Benzo(g,h,I)perylene	BDL	BDL	BDL	NL	NL
Benzo(k)fluoranthene	BDL	BDL	BDL	0.00017	0.00085
Chrysene	**0.00268**	**0.0237**	BDL	0.0015	0.0075
Dibenz(a,h)anthracene	BDL	BDL	BDL	0.0003	0.0015
Fluoranthene	**0.0349**	**0.95**	**0.148**	0.28	1.4
Fluorene	**0.0298**	**0.111**	**0.0319**	0.28	1.4
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	0.00043	0.00215
Naphthalene	BDL	**0.0473**	**0.0474**	0.025	0.039
Phenanthrene	**0.0788**	**0.336**	**0.11**	NL	NL
Pyrene	**0.0274**	**0.532**	**0.0823**	0.21	1.05

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.

Table 2.0 P
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3400
TolTest Project Number 41792.01

Analyte	NTC-3400-TP1	NTC-3400-TP2	NTC-3400-TP3	Groundwater Remediation Objectives	
				Class I	Class II
BTEX	BDL	BDL	BDL	NA	NA
PNAs					
Acenaphthene	BDL	**0.00017**	BDL	0.42	2.1
Anthracene	BDL	**0.00043**	BDL	2.1	10.5
Benz(a)anthracene	BDL	**0.00693**	BDL	0.00013	0.00065
Benzo(a)pyrene	BDL	**0.014**	BDL	0.0002	0.002
Benzo(b)fluoranthene	BDL	**0.0138**	BDL	0.00018	0.0009
Benzo(g,h,I)perylene	BDL	**0.0197**	BDL	NL	NL
Benzo(k)fluoranthene	BDL	**0.00677**	BDL	0.00017	0.00085
Chrysene	BDL	**0.00789**	BDL	0.0015	0.0075
Dibenz(a,h)anthracene	BDL	**0.00237**	BDL	0.0003	0.0015
Fluoranthene	BDL	**0.0143**	BDL	0.28	1.4
Fluorene	BDL	**0.00014**	BDL	0.28	1.4
Indeno(1,2,3-cd)pyrene	BDL	**0.0114**	BDL	0.00043	0.00215
Phenanthrene	BDL	**0.00367**	BDL	NL	NL
Pyrene	BDL	**0.0134**	BDL	0.21	1.05

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.
7. NA indicates not applicable.

Table 2.0 Q
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3402
TolTest Project Number 41792.01

Analyte	NTC-3402-TP1	NTC-3402-TP2
BTEX	BDL	BDL
PNAs	BDL	BDL

Notes:
1. BDL indicates concentrations below laboratory MDLs.

Table 2.0 R
Groundwater Sample Analytical Results
Relative Risk Ranking
Great Lakes Naval Training Center Building 3511
TolTest Project Number 41792.01

Analyte	NTC-3511-TP1	NTC-3511-TP3	Groundwater Remediation Objectives	
			Class I	Class II
BTEX	BDL	BDL	NA	NA
PNAs				
Acenaphthene	**0.00351**	BDL	0.42	2.1
Anthracene	**0.00038**	BDL	2.1	10.5
Benzo(a)anthracene	**0.00255**	BDL	0.00013	0.00065
Benzo(a)pyrene	**0.00029**	BDL	0.0002	0.002
Benzo(b)fluoranthene	**0.00031**	BDL	0.00018	0.0009
Benzo(g,h,I)perylene	BDL	BDL	NL	NL
Benzo(k)fluoranthene	**0.00019**	BDL	0.00017	0.00085
Chrysene	**0.00392**	BDL	0.0015	0.0075
Dibenz(a,h)anthracene	BDL	BDL	0.0003	0.0015
Fluoranthene	**0.00677**	BDL	0.28	1.4
Fluorene	**0.00054**	BDL	0.28	1.4
Indeno(1,2,3-cd)pyrene	BDL	BDL	0.00043	0.00215
Phenanthrene	**0.00041**	BDL	NL	NL
Pyrene	**0.022**	BDL	0.21	1.05

Notes:
1. Concentrations are in mg/L, which are approximately equivalent to ppm.
2. BDL indicates concentrations below laboratory MDLs.
3. NL indicates not listed as an IEPA TACO Tier I analyte of concern.
4. Bold print indicates value above laboratory MDL.
5. Shaded value exceeds one or more remediation objective.
6. Only those compounds detected are reported in the table.
7. NA indicates not applicable.

Table 3.0
Groundwater Elevation Results
Relative Risk Ranking
Great Lakes Naval Training Center
TolTest Project Number 41792.01

Building 1, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.13	104.13		100			1-2
1-1		104.13	4.54	99.59	7.35	92.24	
1-2		104.13	4.13	100	8.4	91.6	
1-3		104.13	4.08	100.05	7.78	92.27	

Building 13, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.44	104.44		100			13-1
13-1		104.44	4.44	100	6.51	93.49	
13-2		104.44	4.21	100.23	5.97	94.26	
13-3		104.44	4.58	99.86	5.91	93.95	

Building 106, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.21	104.21		100			106-1
106-1		104.21	4.21	100	7.45	92.55	
106-2		104.21	4.67	99.54	4.85	94.69	
106-3		104.21	4.16	100.05	Dry	N/A	

Building 144, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM		100		100			
144-1							well was removed
144-2					5.35		
144-3					2.8		

Building 2912, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.66	104.66		100			2912-1
2912-1		104.66	4.66	100	7.83	92.17	
2912-2		104.66	3.61	101.05	6.1	94.95	
2912-3		104.66	4.31	100.35	4.85	95.5	

Building 3114, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	3.88	103.88		100			3114-1
3114-1		103.88	3.88	100	Dry	N/A	
3114-2		103.88	3.98	99.9	5.1	94.8	
3114-3		103.88	5.69	98.19	3.7	94.49	

Table 3.0 (Continued)
Groundwater Elevation Results
Relative Risk Ranking
Great Lakes Naval Training Center
TolTest Project Number 41792.01

Building 3216, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	3.32	103.32		100			Southeast corner of concrete pad on the Northeast corner of the b
3216-1		103.32	2.92	100.4	6.05	94.35	
3216-2		103.32	3.46	99.86	5.46	94.4	
3216-3		103.32	3.81	99.51	5.35	94.16	

Building 3511, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	3.83	103.83		100			Northwest corner of transformer pad
3511-1		103.83	3.06	100.77	10.49	90.28	
3511-2		103.83	4.13	99.7	Dry	N/A	
3511-3		103.83	1.58	102.25	12.62	89.63	

Building 68H, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.29	104.29		100			68-1
68-1		104.29	4.29	100	8.6	91.4	
68-2		104.29	4.33	99.96	7.34	92.62	
68-3		104.29	3.21	101.08	9.65	91.43	

Buildings 229 & 239, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	3.88	103.88		100			Concrete base of light pole SE corner
229-1		103.88	4.1	99.78	8.9	90.88	
229-2		103.88	4.5	99.38	12.7	86.68	
229-3		103.88	4.45	99.43	11.2	88.23	
TP-1	4.34	104.34		100			BM
239-1		104.34	4.16	100.18	11.24	88.94	
239-2		104.34	4.71	99.63	6.55	93.08	
239-3		104.34	4.92	99.42	6.41	93.01	

Buildings 329 & 238, GLNTC, Great Lakes, IL

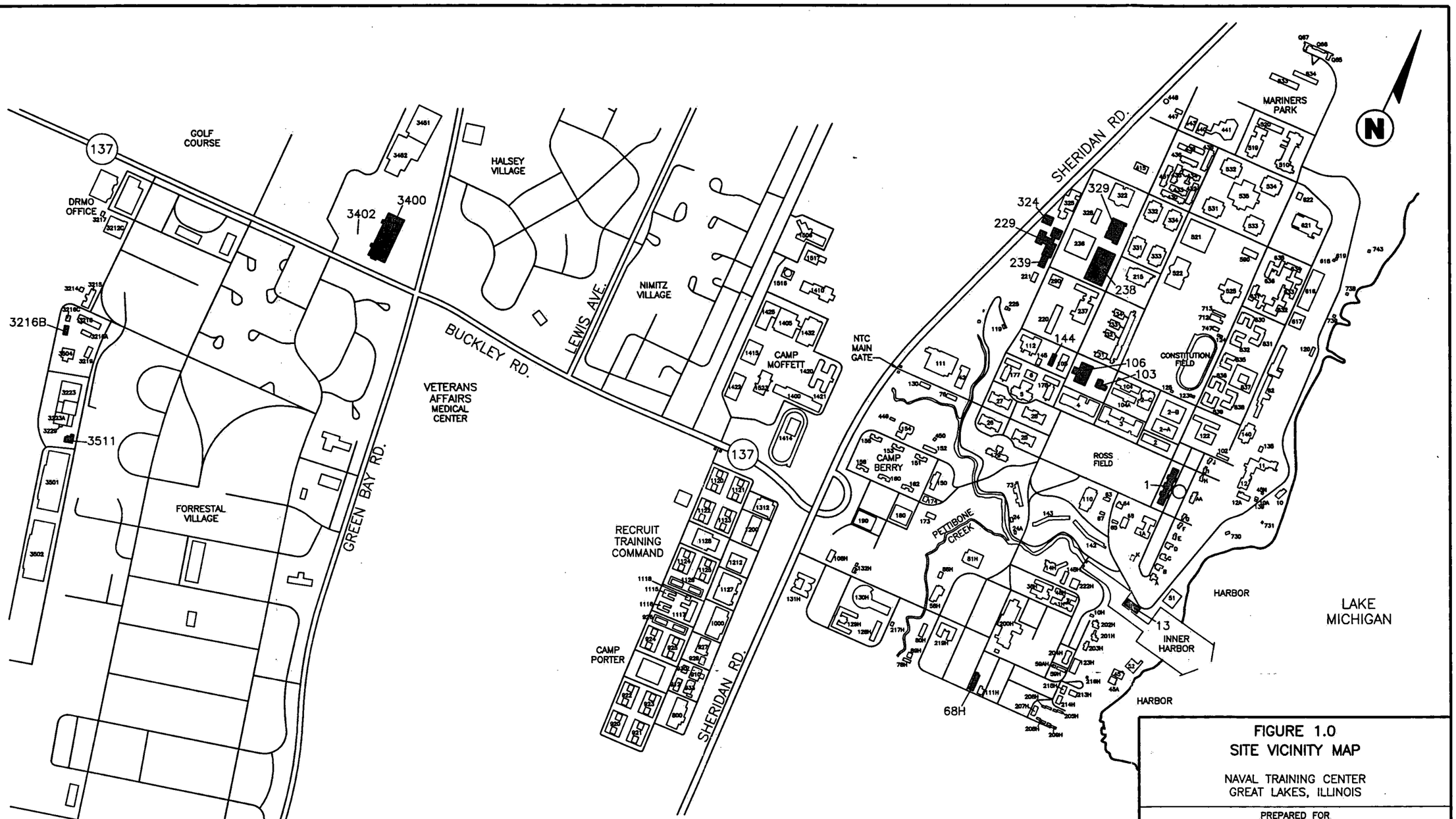
Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	4.48	104.48		100			329-1
329-1		104.48	4.48	100	6.9	93.1	
329-2		104.48	4.4	100.08	5.89	94.19	
329-3		104.48	4.33	100.15	6.51	93.64	
238-1		104.48	4.16	100.32	8.08	92.24	
238-2		104.48	4.6	99.88	8.79	91.09	
238-3		104.48	4.42	100.06	8.91	91.15	

Table 3.0 (Continued)
Groundwater Elevation Results
Relative Risk Ranking
Great Lakes Naval Training Center
TolTest Project Number 41792.01

Buildings 3400 & 3402, GLNTC, Great Lakes, IL

Station	FS	IH	BS	Elevation	D to GW	GW Elevation	Location
BM	5.48	105.48		100			Northwest corner of transformer pad
3400-1		105.48	5.07	100.41	4.68	95.73	
3400-2		105.48	5.25	100.23	3.5	96.73	
3400-3		105.48	4.83	100.65	3.4	97.25	
3402-1		105.48	4.21	101.27	3.58	97.69	
3402-2		105.48	3.91	101.57	3.86	97.71	
3402-3		105.48	2.53	102.95	6.49	96.46	

FIGURES



LEGEND

▬ – FORMER UST BUILDING LOCATIONS

NOTE: SITES 90, 2912, 3114A AND 3402 ARE NOT SHOWN ON THE NTC BASE MAP

FIGURE 1.0
SITE VICINITY MAP

NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/1-4-99	CHECKED MKM
REVISED RJO/8-22-01	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER BASE MAP	

BUILDING 1

NTC-1-SB1

NTC-1-SB3

NTC-1-SB2

LAWRENCE ST.

JARVIS HUNT CIRCLE

LEGEND

⊕ – GEOPROBE BORING LOCATION

NTC-1-SB1

APPROXIMATE SCALE – FEET

0 10 20

FIGURE 2.0A

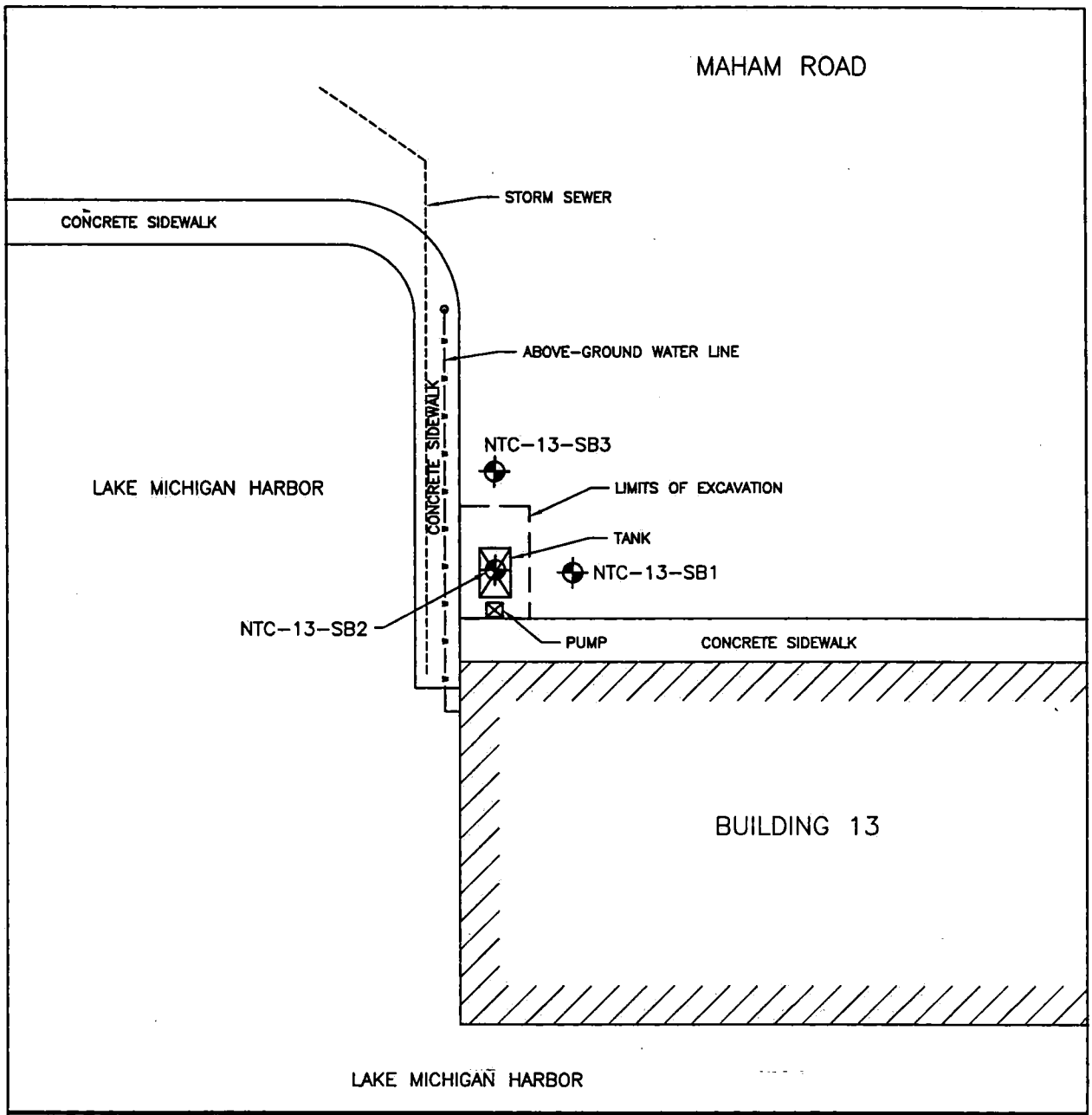
SAMPLE LOCATION PLAN

BUILDING 1
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED MAK
REVISED	APPROVED SY
JOB NO.: 41792.01	
DRAWING NUMBER 41792-65F	TOLTEST, INC.



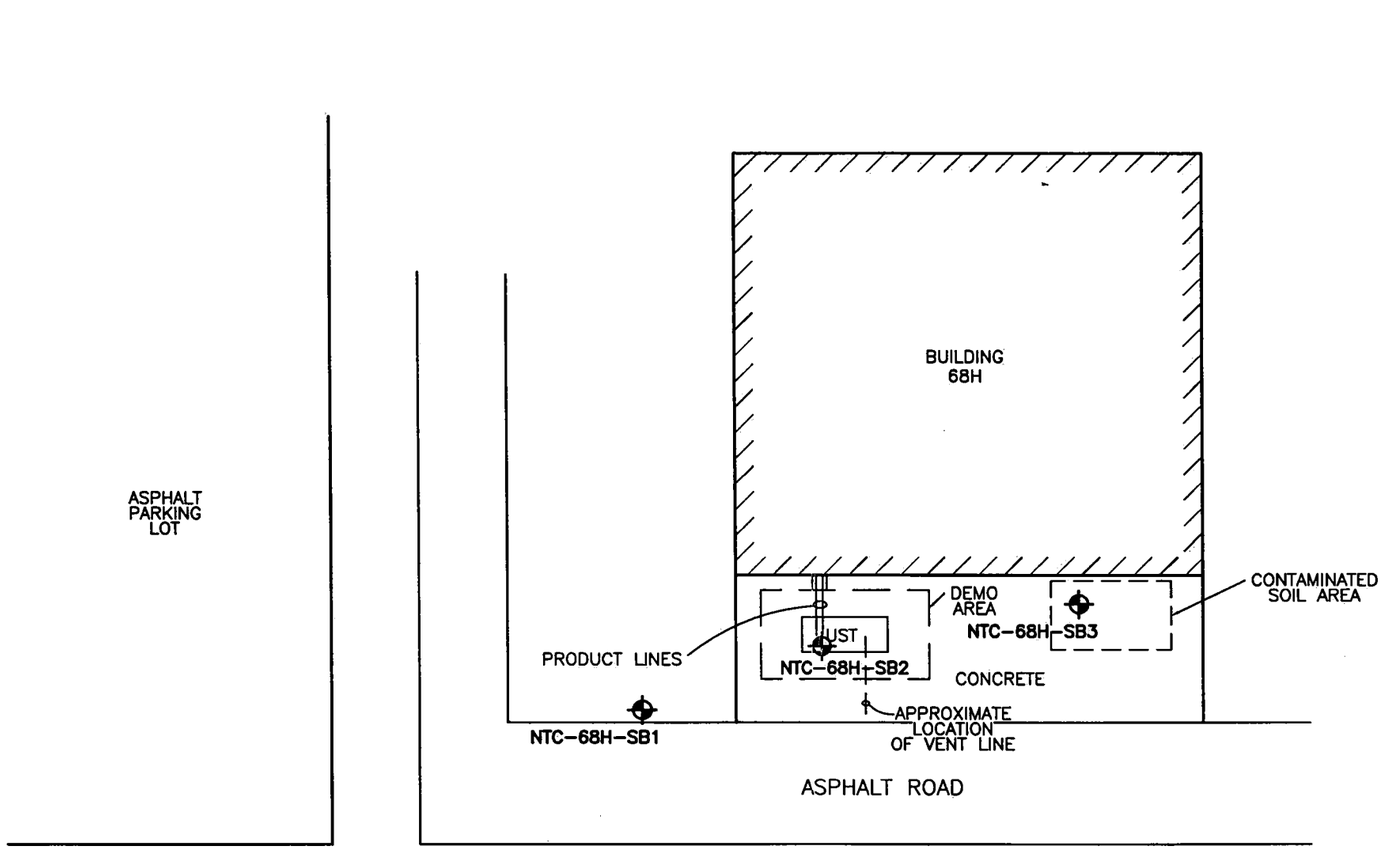
⊕ – GEOPROBE BORING LOCATION

N

FIGURE 2.0B
SAMPLE LOCATION PLAN
BUILDING 13
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MKK
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-09F	



LEGEND

⊕ – GEOPROBE BORING LOCATION

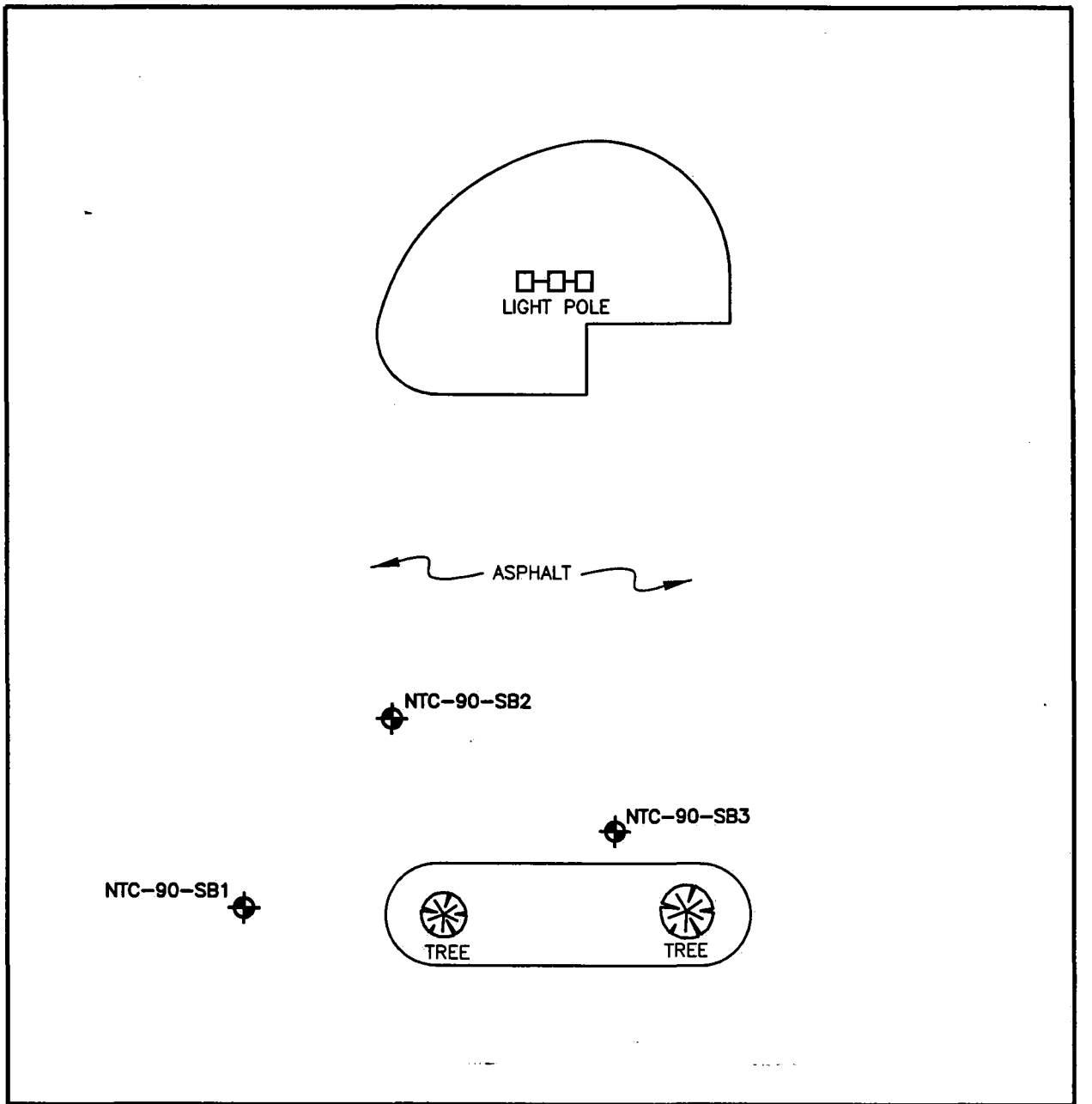
NTC-68H-SB1

FIGURE 2.0C
SAMPLE LOCATION PLAN

BUILDING 68H
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MHN
REVISED	APPROVED SY
JOB NO. 41792.01	
DRAWING NUMBER 41792-57F	TOLTEST, INC.



NOT TO SCALE

N

NTC-90-SB1 – GEOPROBE BORING LOCATION

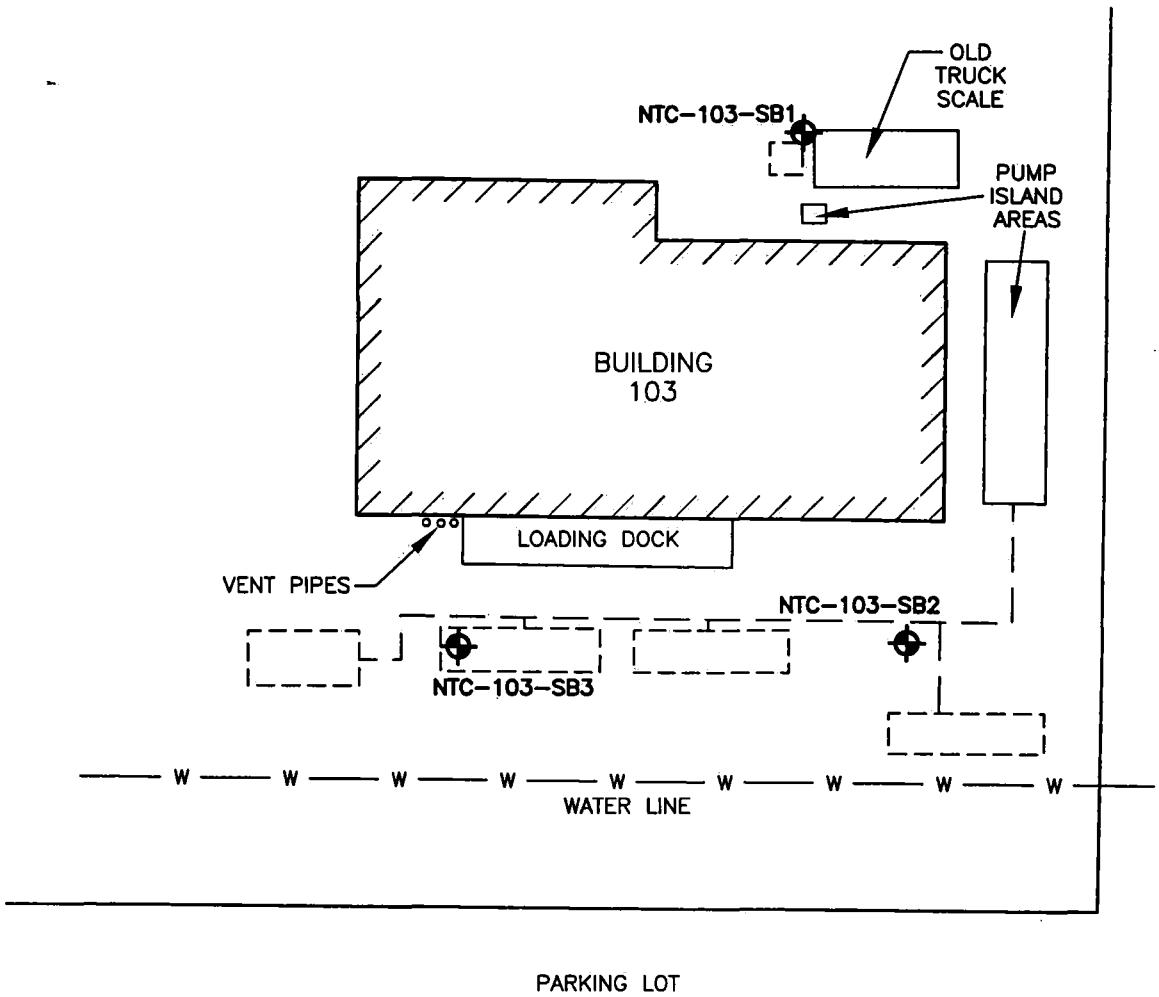
FIGURE 2.0D
SAMPLE LOCATION PLAN

BUILDING 90
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MAK
REVISED	APPROVED SY
JOB NO. 41792.01	
DRAWING NUMBER 41792-73F	TOLTEST, INC.



NOT TO SCALE

N

⊕ – GEOPROBE BORING LOCATION

NTC-103-SB1

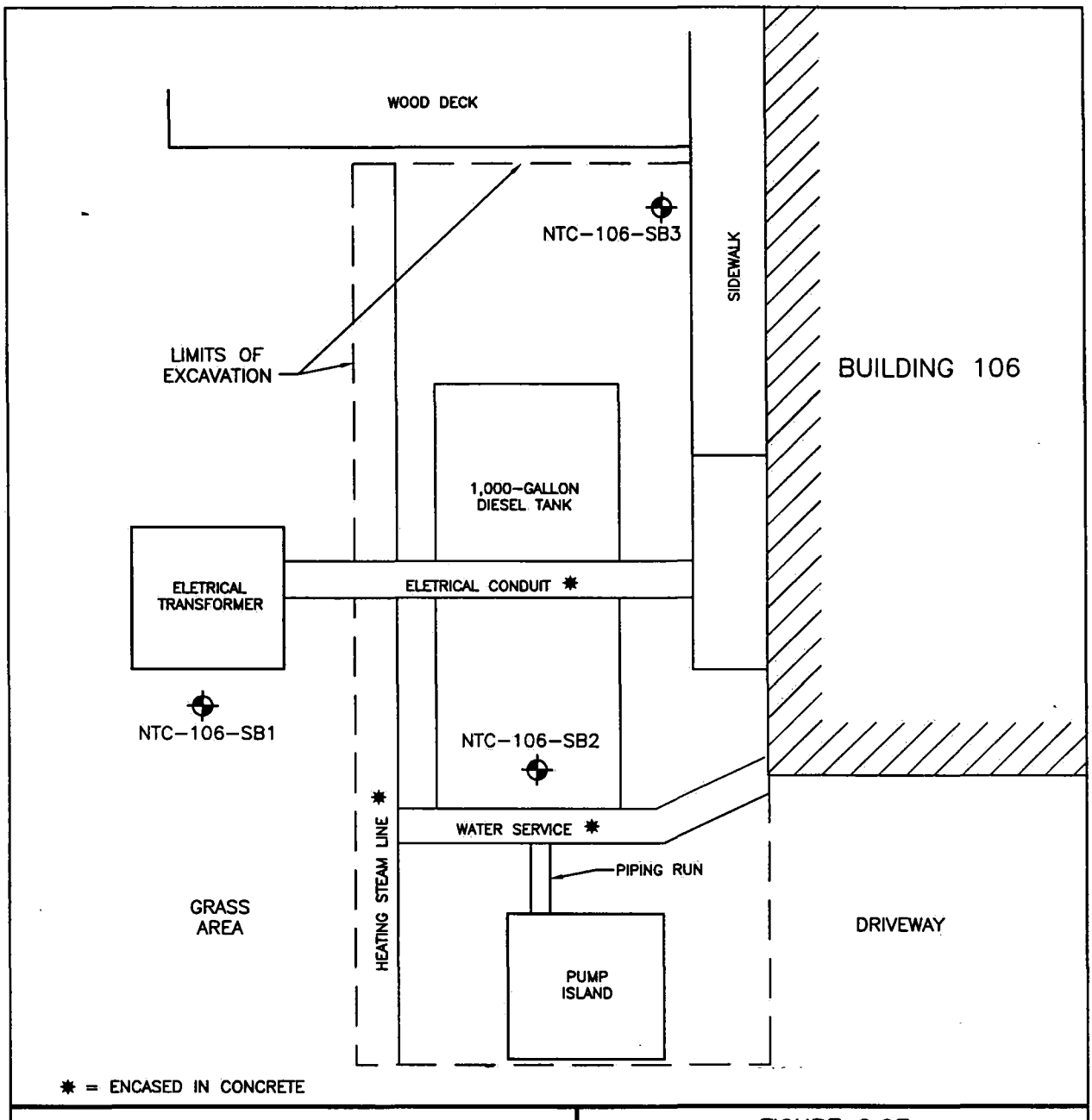
FIGURE 2.0E
SAMPLE LOCATION PLAN

BUILDING 103
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MHK
REVISED	APPROVED SY
JOB NO. 41792.01	
DRAWING NUMBER 41792-71F	TOLTEST, INC.



⌖ – GEOPROBE BORING LOCATION

N

FIGURE 2.0F
SAMPLE LOCATION PLAN

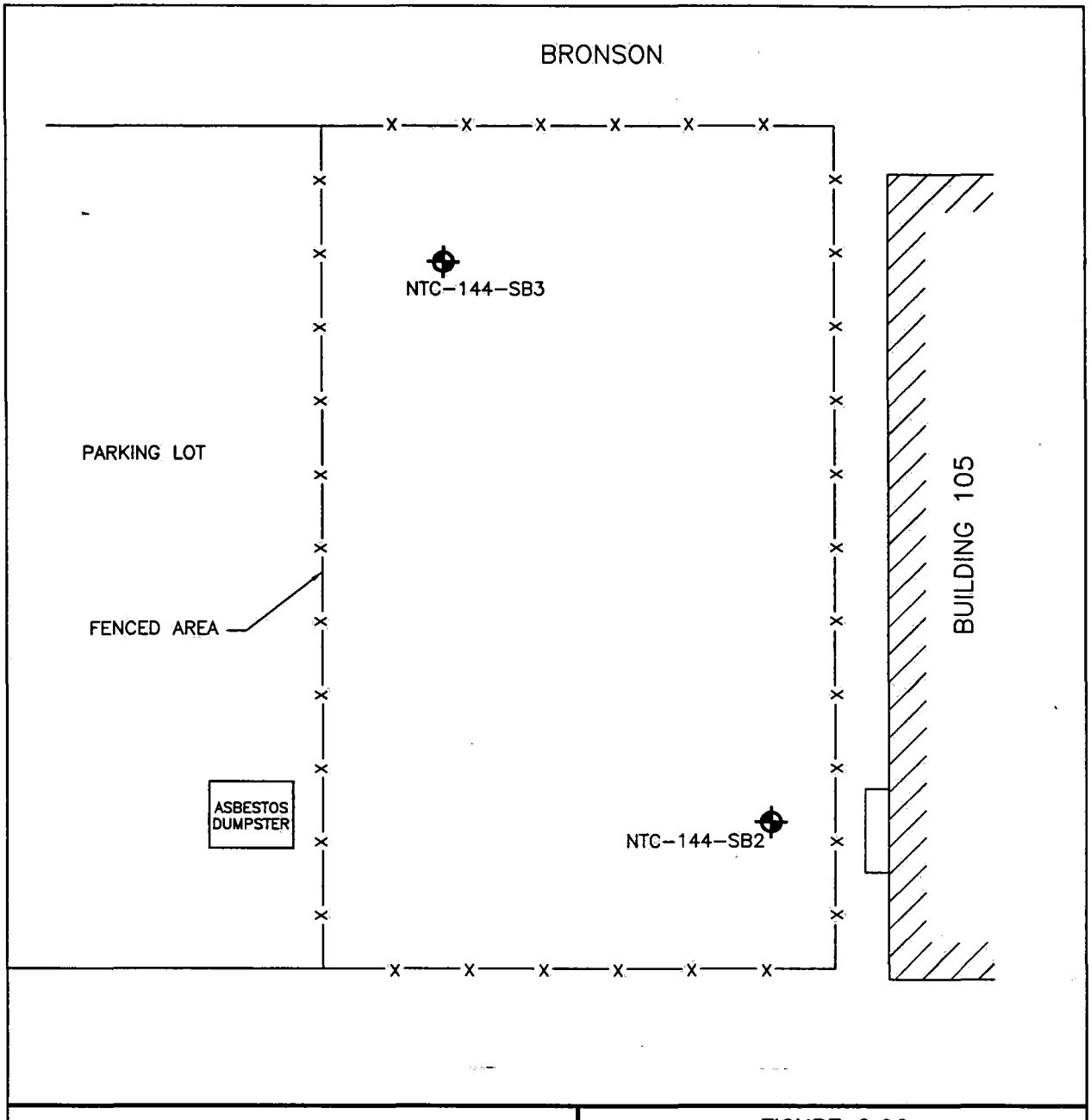
BUILDING 106

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MAM
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-07F	



⊕ – GEOPROBE BORING LOCATION

NTC-144-SB1 – NO SAMPLE RECOVERED

N

FIGURE 2.0G
SAMPLE LOCATION PLAN
BUILDING 144

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MAR
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-06F	

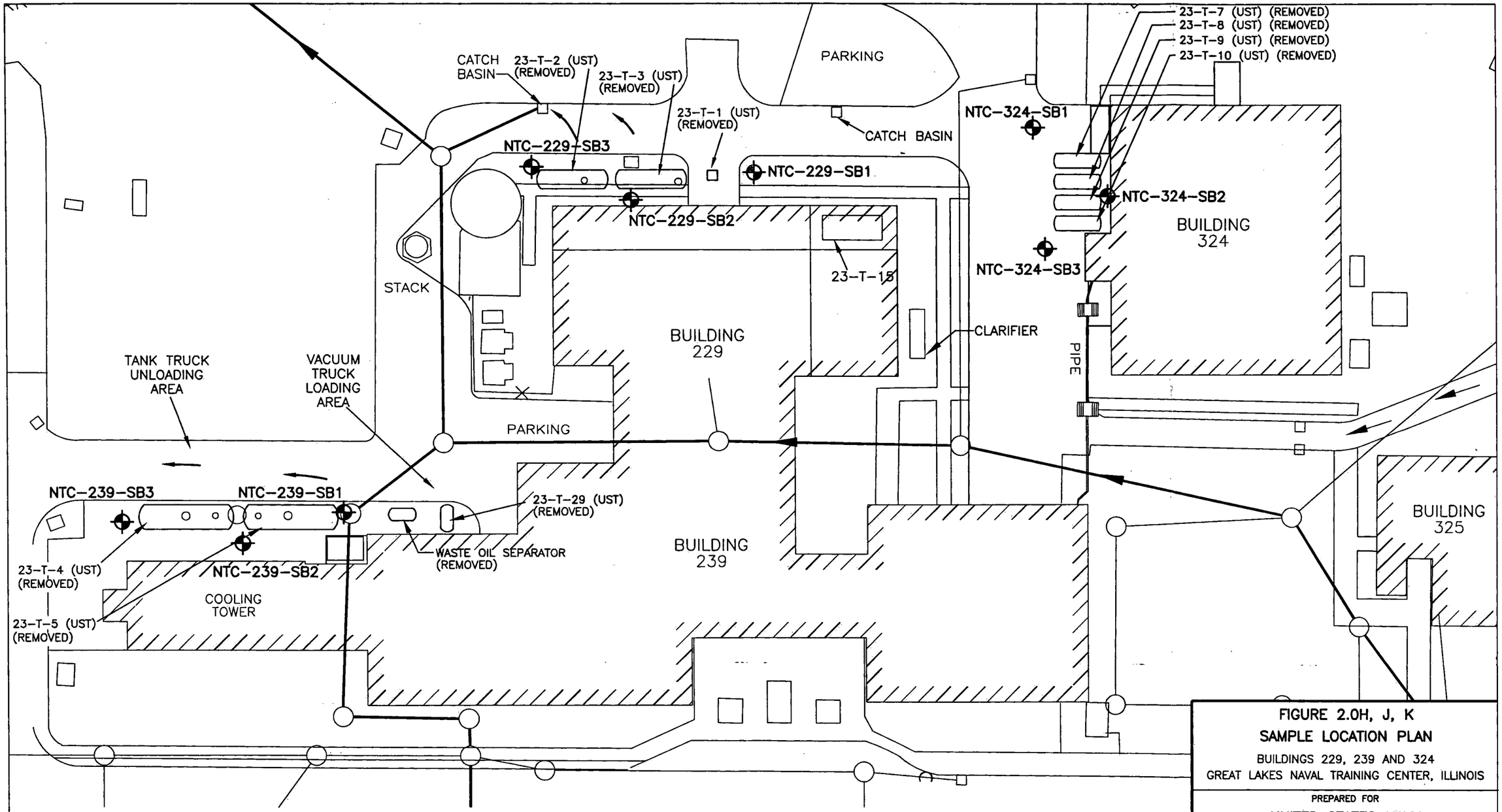
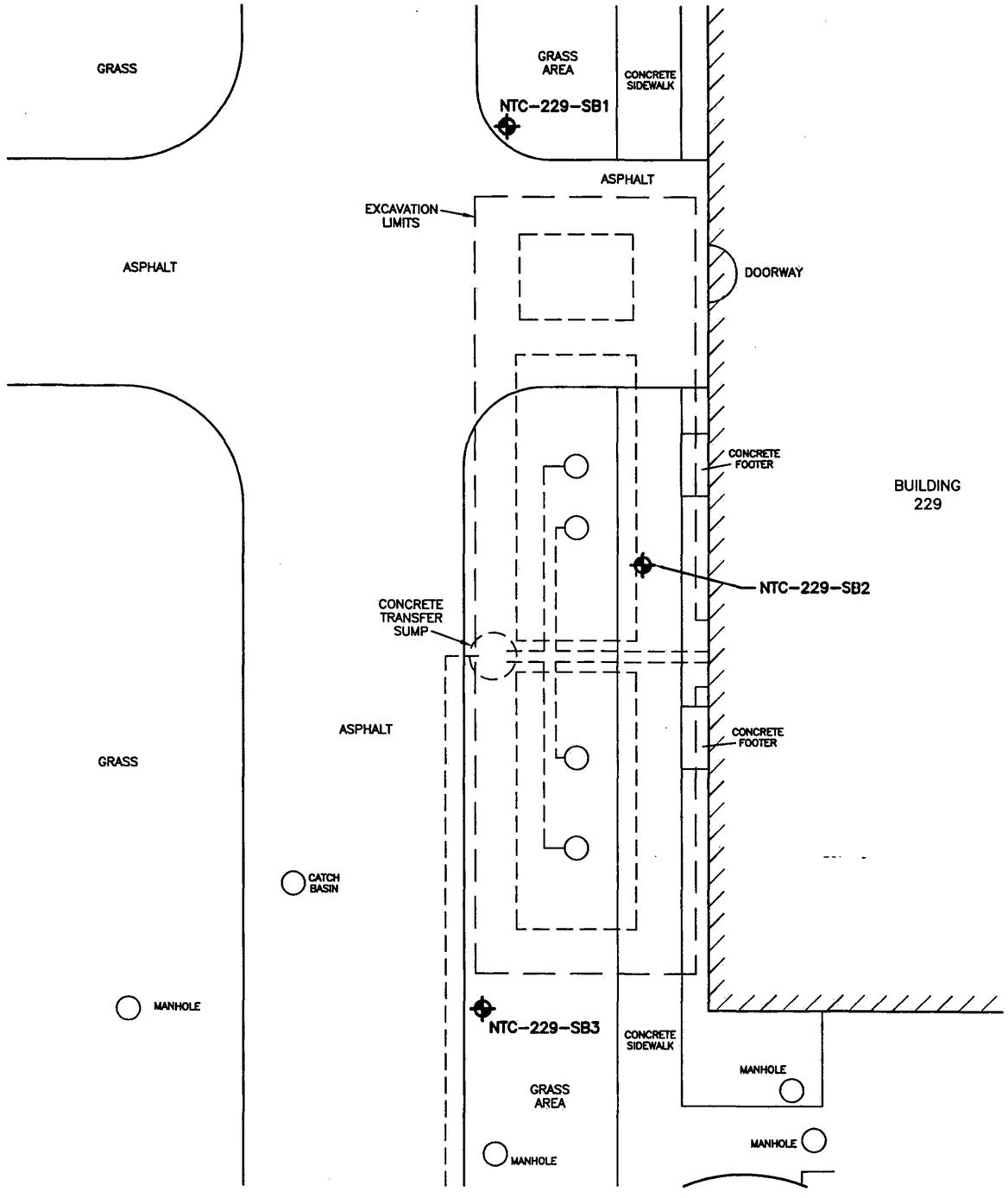


FIGURE 2.0H, J, K
SAMPLE LOCATION PLAN
BUILDINGS 229, 239 AND 324
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-9-02	CHECKED MHK
REVISED	APPROVED SY
JOB NO.: 41792.01	
DRAWING NUMBER 41792-63F	TOLTEST, INC.



N

LEGEND

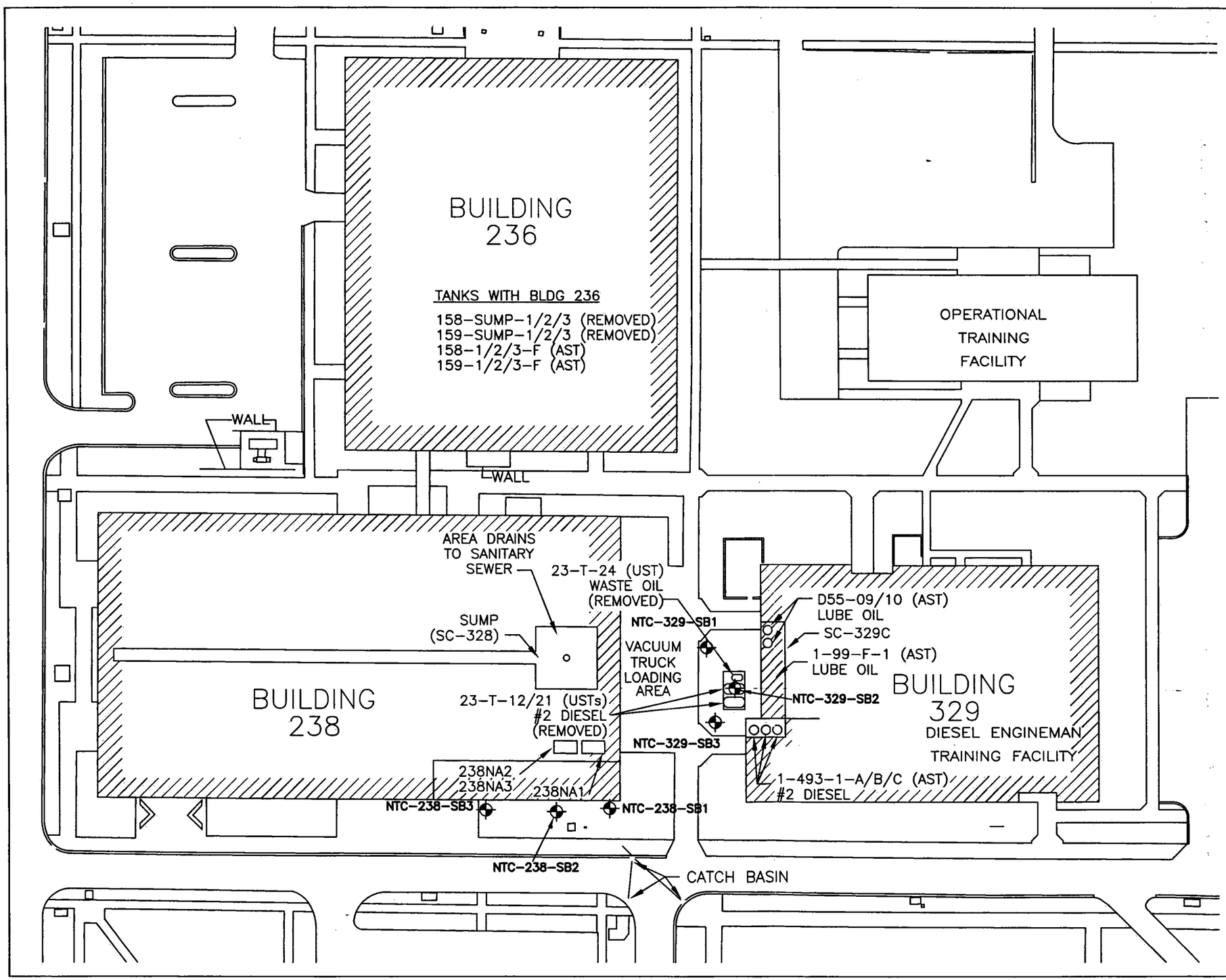
GEOPROBE BORING LOCATION
NTC-229-SB1

APPROXIMATE SCALE - FEET
0 20 40

FIGURE 2.0H
SAMPLE LOCATION PLAN
BUILDING 229
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-9-02	CHECKED MJR
REVISED	APPROVED SY
JOB NO.: 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-55F	



LEGEND

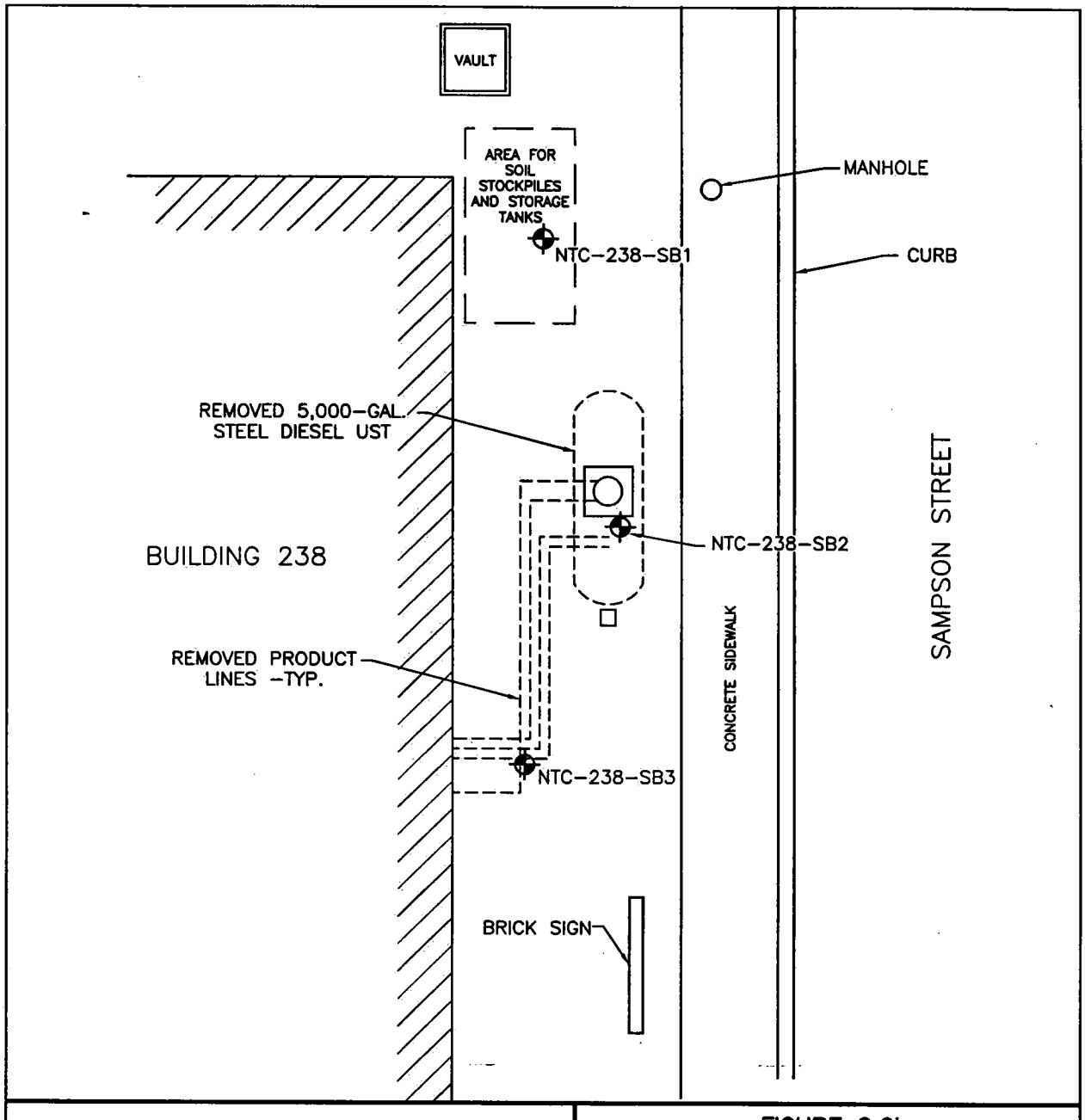
CS	CONTAINER STORAGE
○	MANHOLE
□	CATCH BASIN
⊕	GEOPROBE BORING LOCATION

NTC-238-SB1

FIGURE 2.0I, L
SAMPLE LOCATION PLAN
BUILDINGS 238 AND 329
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-9-02	CHECKED MAR
REVISED	APPROVED SH
JOB NO.: 41792.01	
DRAWING NUMBER 41792-62F	TOLTEST, INC.



⊕ – GEOPROBE BORING LOCATION

N

FIGURE 2.0I

SAMPLE LOCATION PLAN

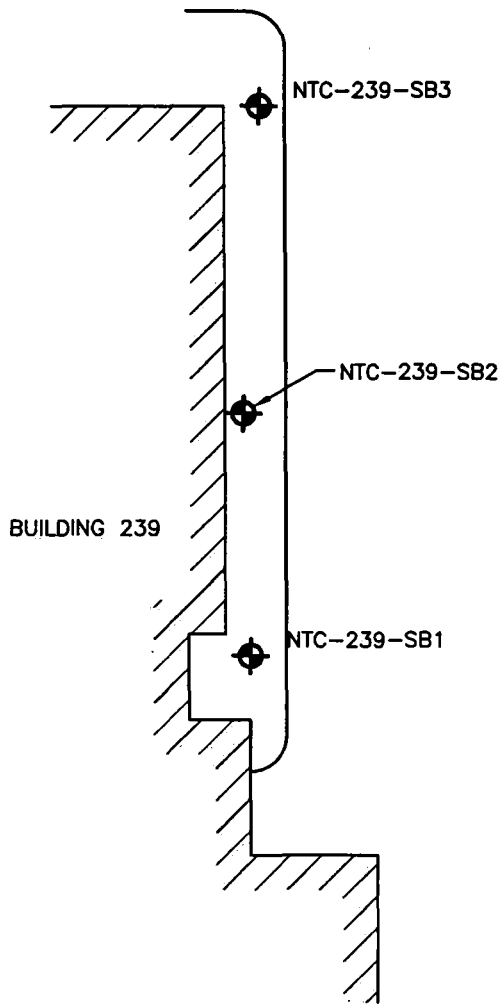
BUILDING 238

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MAR
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-04F	



⊕ – GEOPROBE BORING LOCATION
NTC-239-SB3

N

FIGURE 2.0J
SAMPLE LOCATION PLAN
BUILDING 239
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN NAS/11-8-02	CHECKED MM
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-03F	

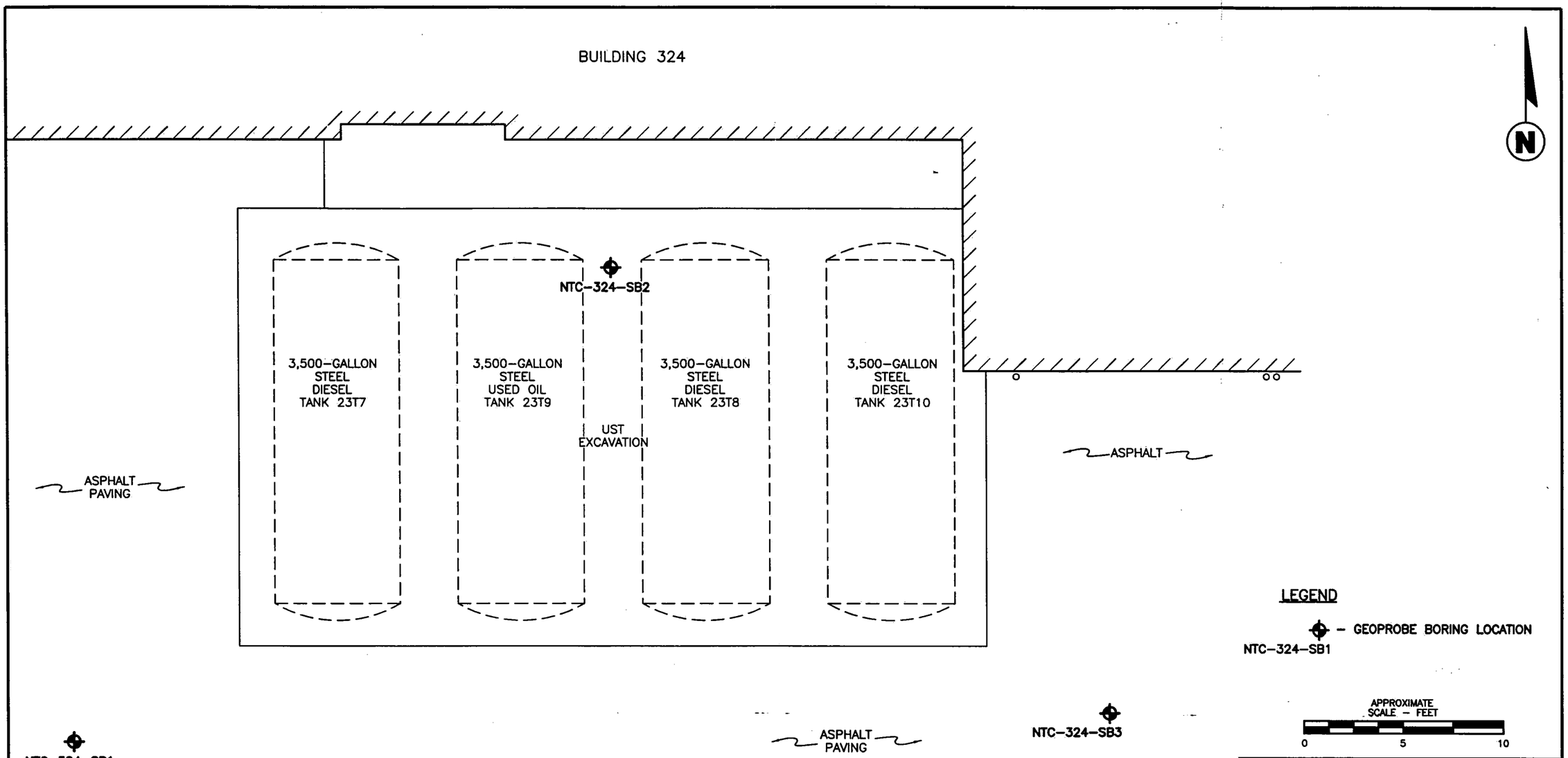


FIGURE 2.0K

SAMPLE LOCATION PLAN

BUILDING 324
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED MAK
REVISED	APPROVED SH
JOB NO.: 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-51F	

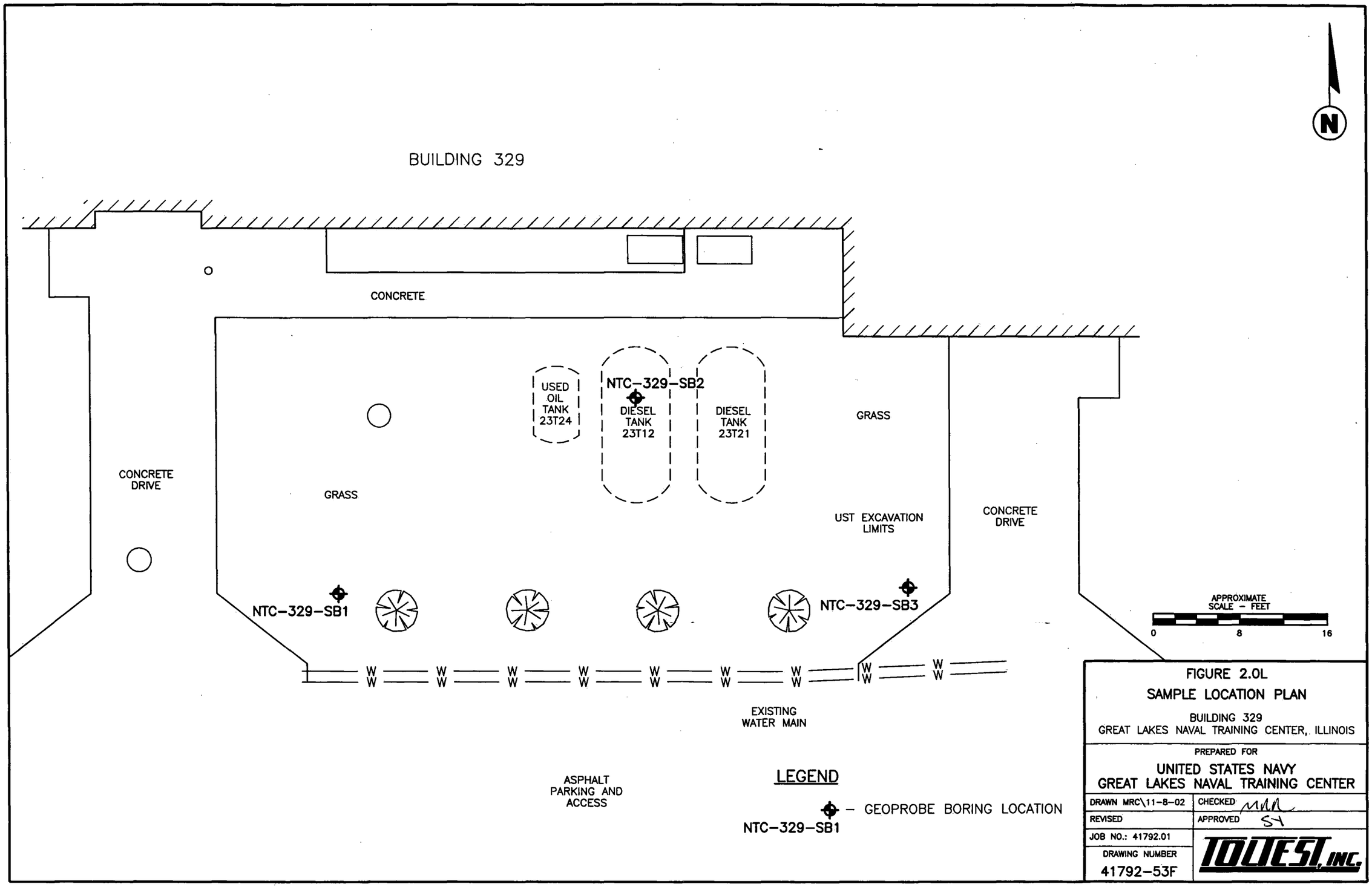


FIGURE 2.0L

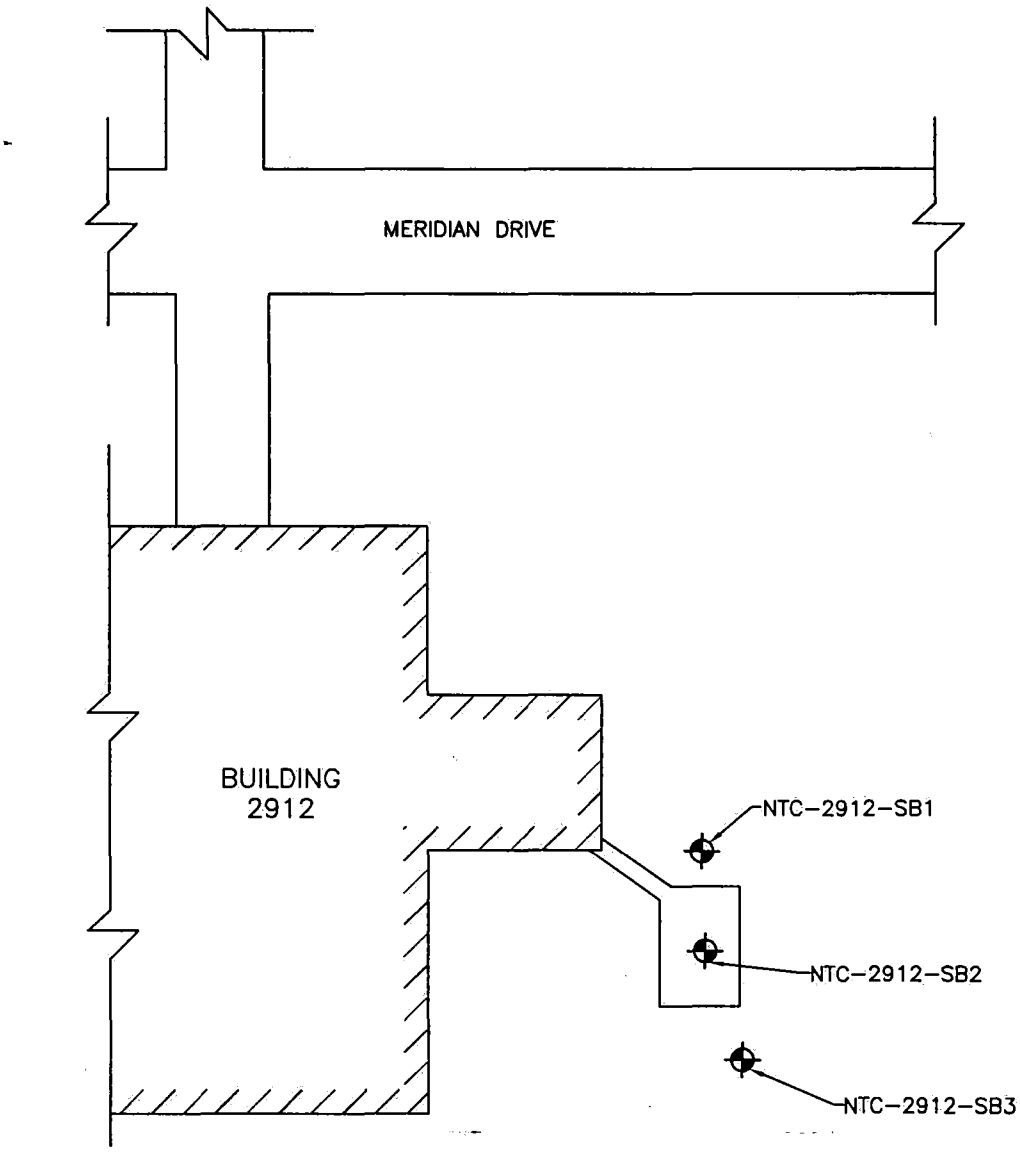
SAMPLE LOCATION PLAN

BUILDING 329
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED MRC
REVISED	APPROVED ST
JOB NO.: 41792.01	
DRAWING NUMBER 41792-53F	TOLTEST, INC.



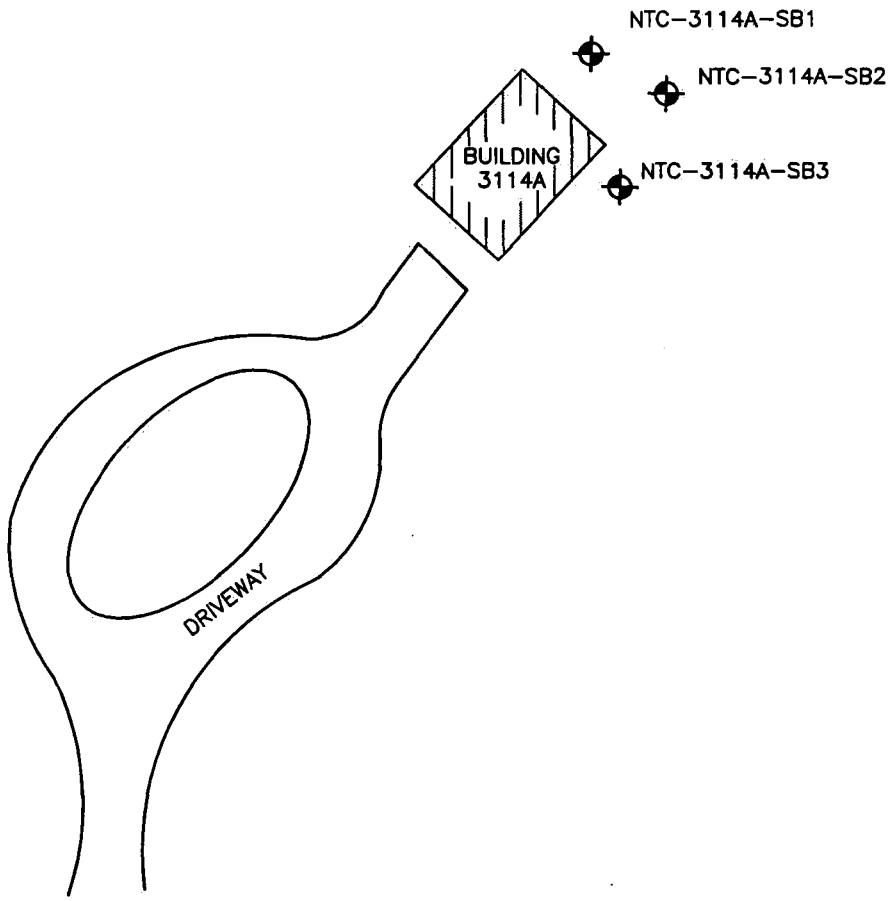
⊕ – GEOPROBE BORING LOCATION

N

FIGURE 2.0M
SAMPLE LOCATION PLAN
BUILDING 2912
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN NAS/11-8-02	CHECKED MNR
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-05F	



GEOPROBE BORING LOCATIONS

NTC-3114A-SB3

N

FIGURE 2.0N

SAMPLE LOCATION PLAN

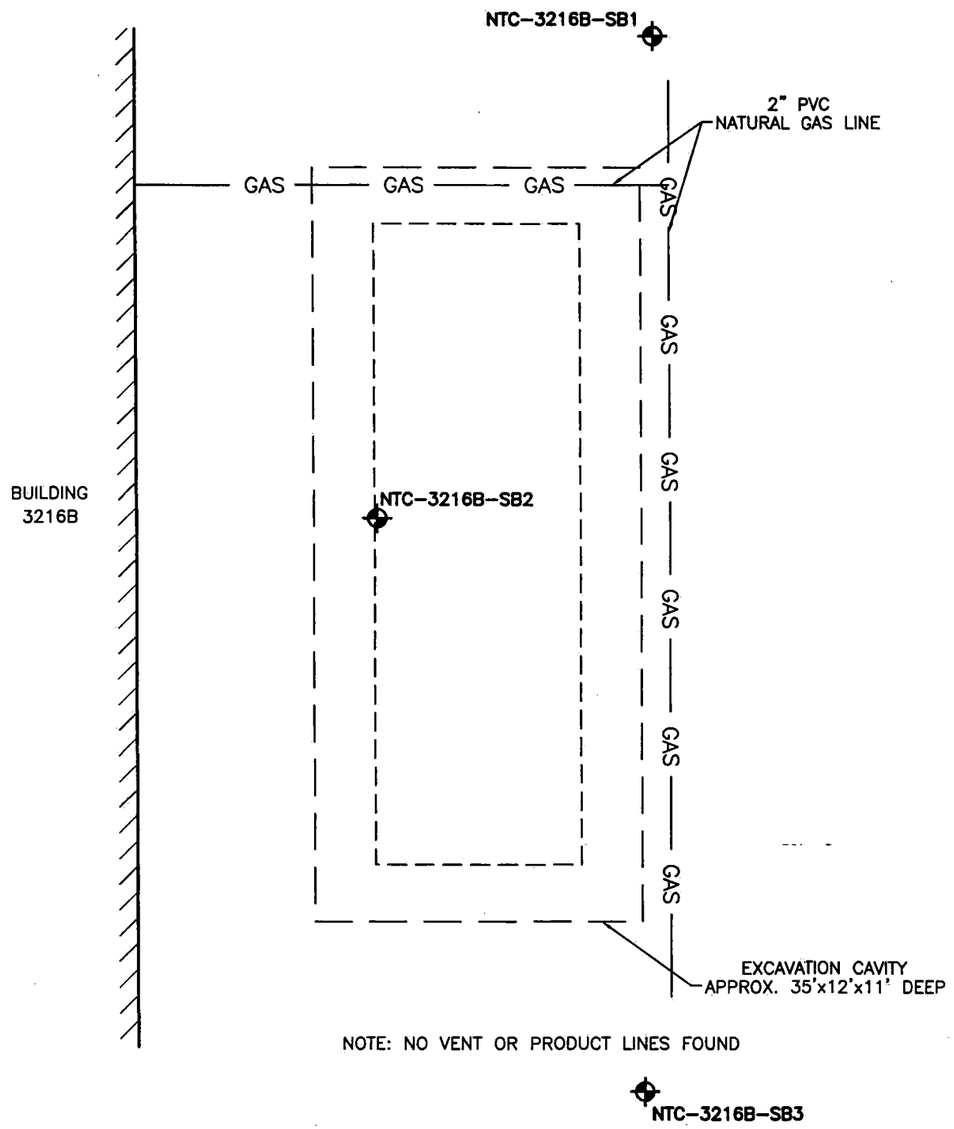
BUILDING 3114A

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN NAS/11-8-02	CHECKED MRC
REVISED MRC/11-21-02	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-01F	



N

LEGEND

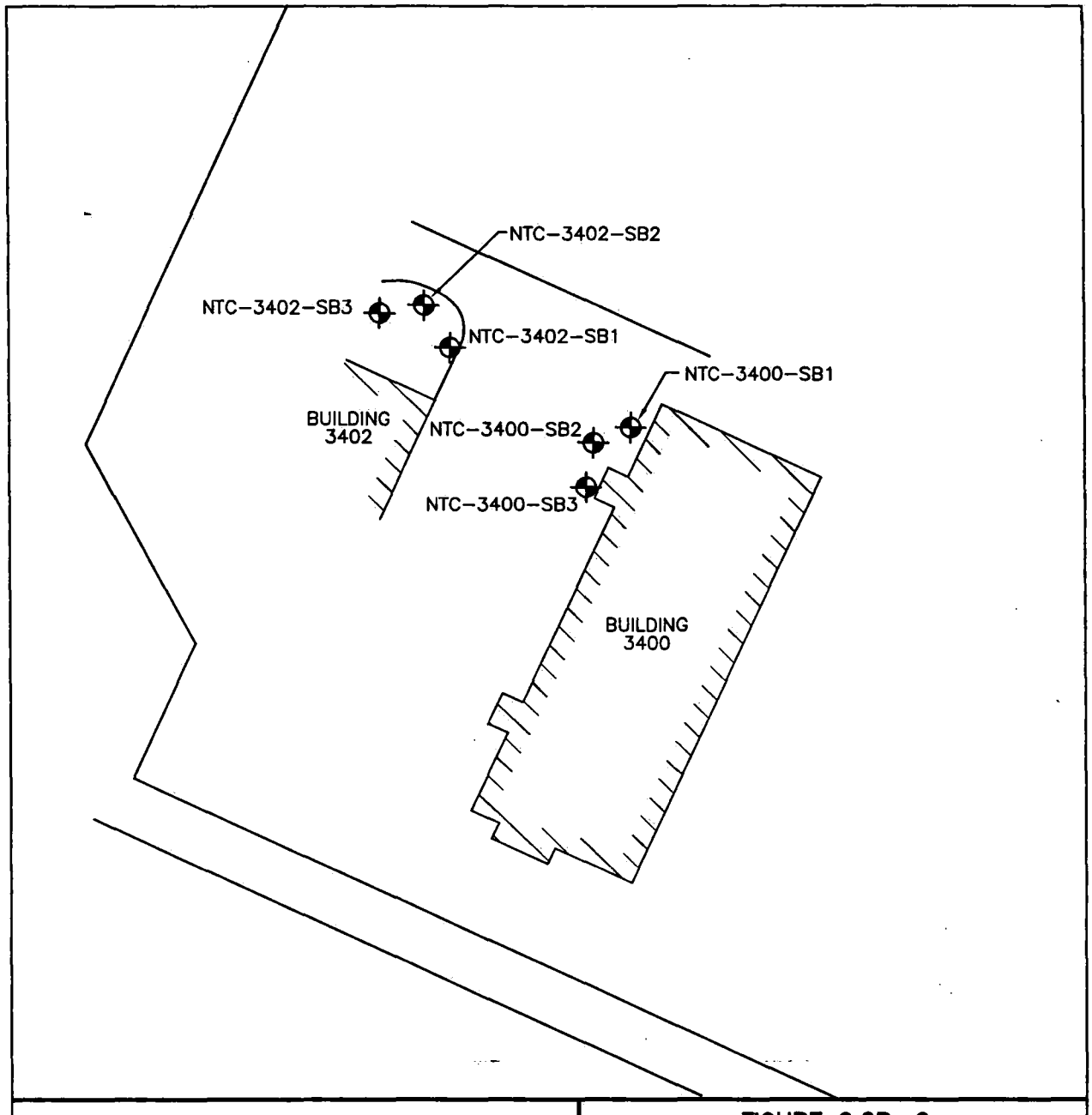
NTC-3216B-SB1 GEOPROBE BORING LOCATION

FIGURE 2.00
SAMPLE LOCATION PLAN

BUILDING 3216B
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MAM
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-59F	



⊕ – GEOPROBE BORING LOCATION

N

FIGURE 2.0P, Q
SAMPLE LOCATION PLAN

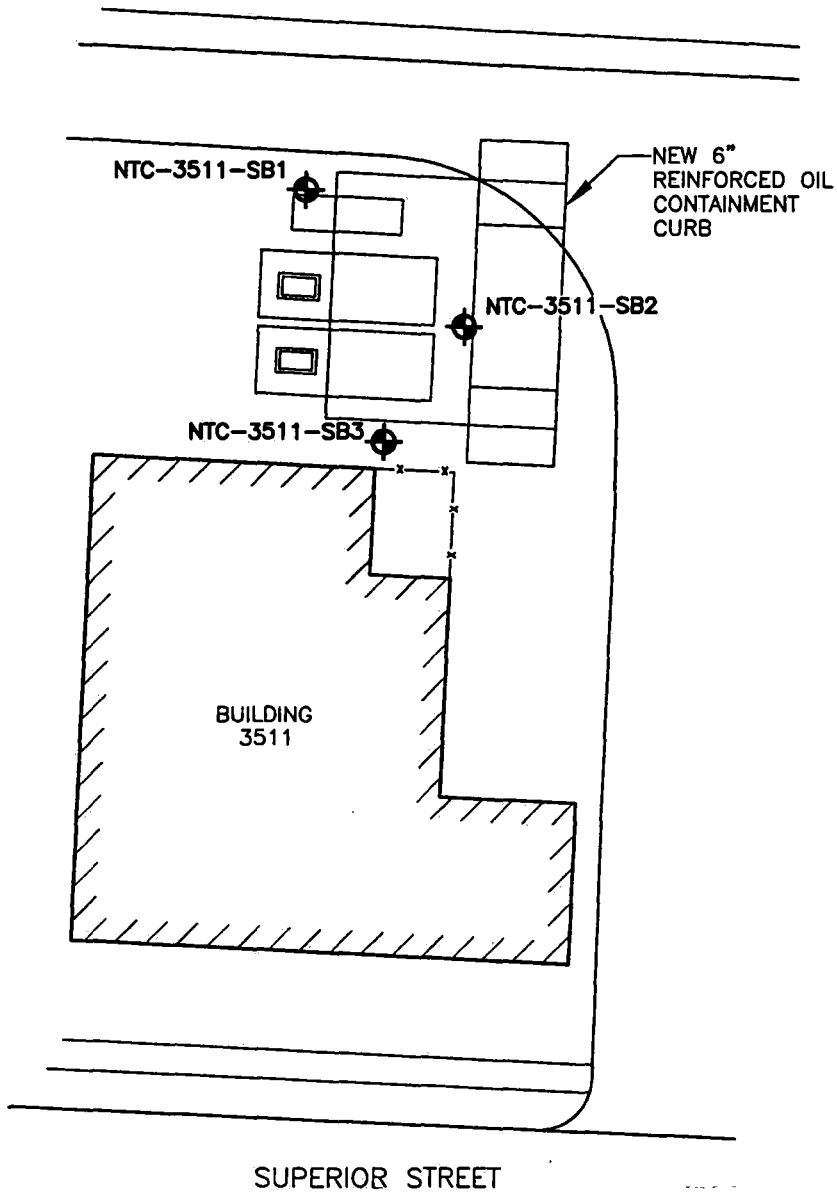
BUILDING 3400 & 3402

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MKA
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-02F	



NOT TO SCALE

N

GEOPROBE BORING LOCATION

NTC-3511-SB1

FIGURE 2.0R
SAMPLE LOCATION PLAN

BUILDING 3511
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MAR
REVISED	APPROVED SY
JOB NO. 41792.01	
DRAWING NUMBER 41792-69F	TOLTEST, INC.

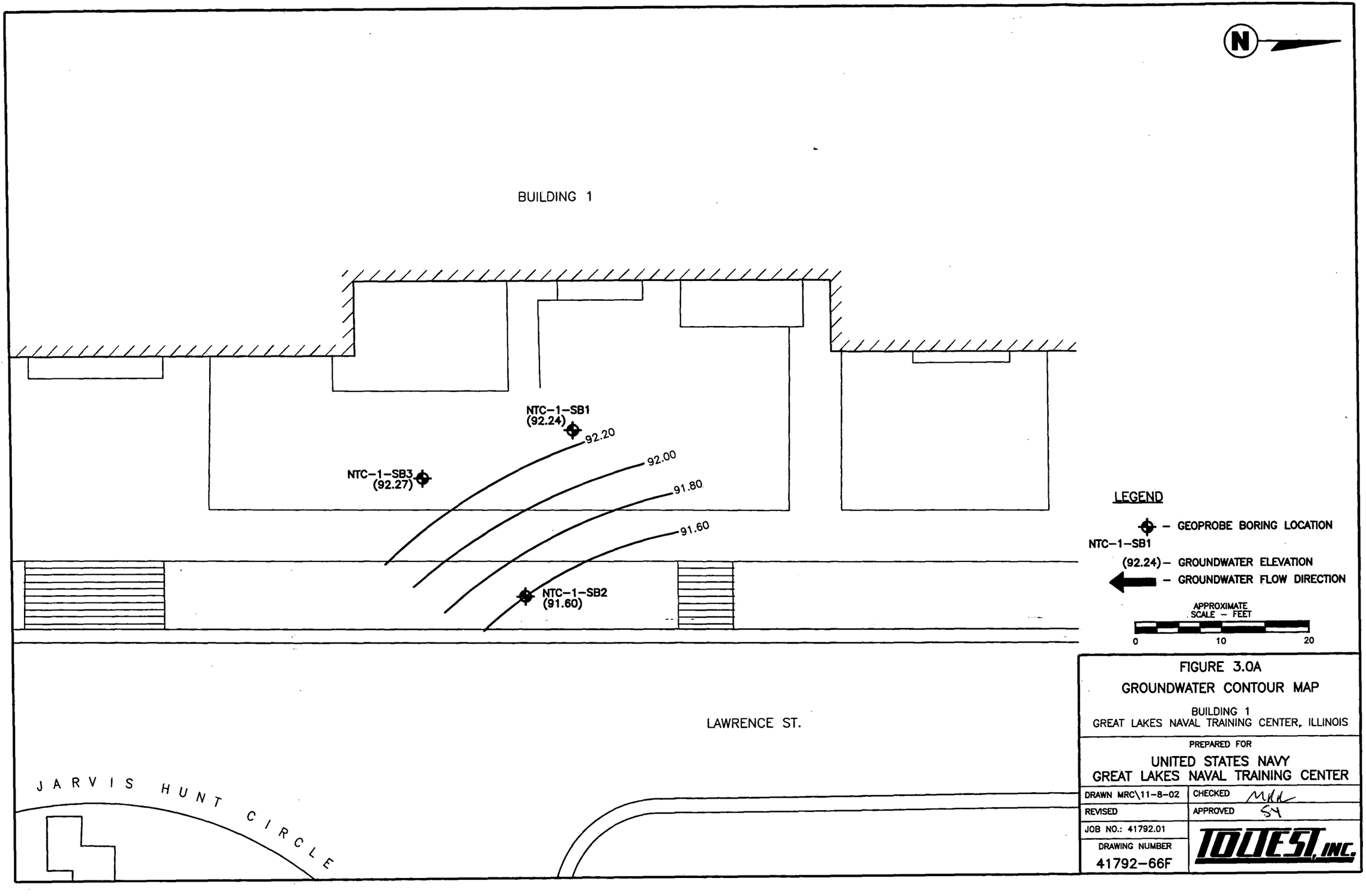


FIGURE 3.0A

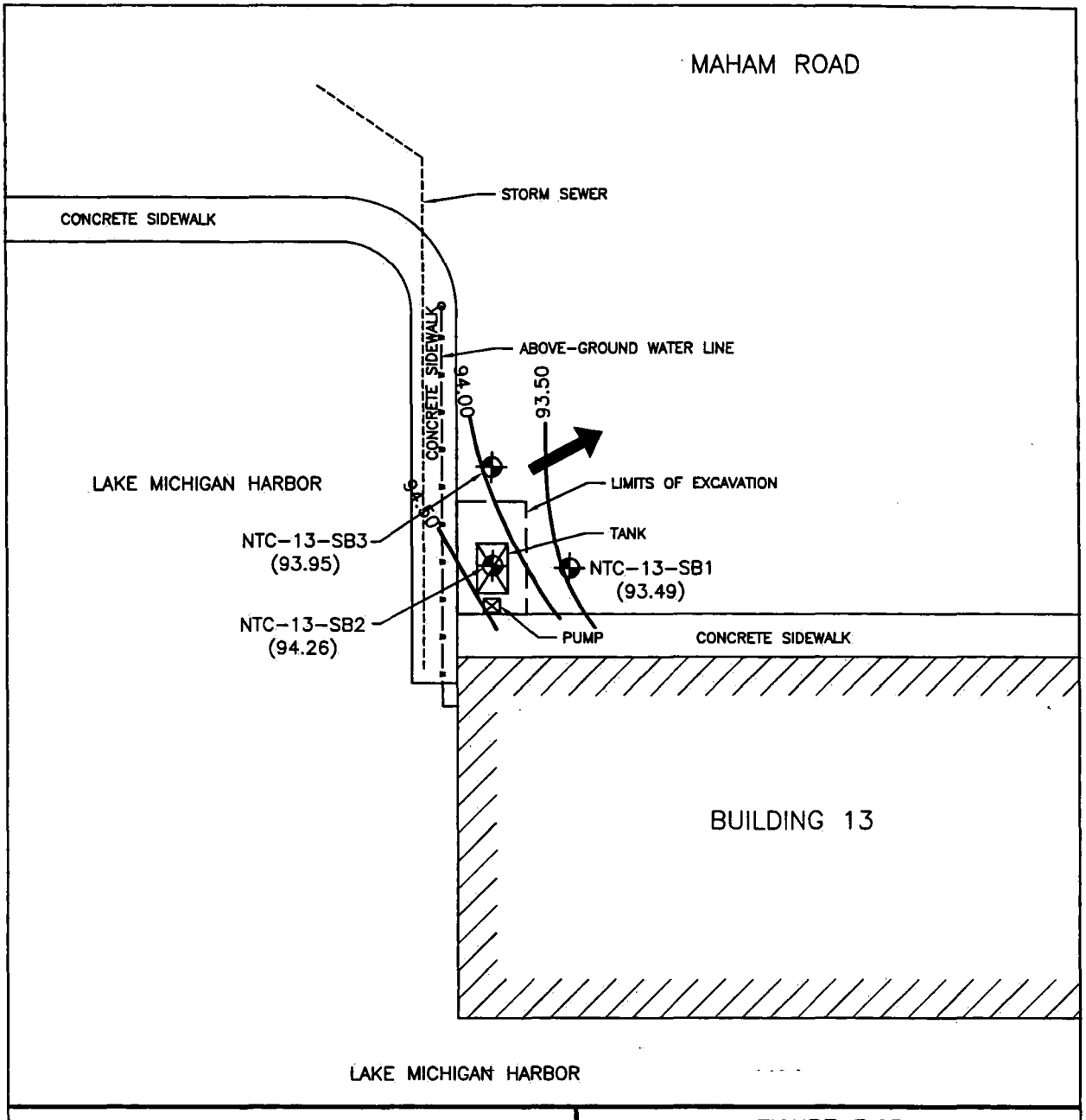
GROUNDWATER CONTOUR MAP

BUILDING 1
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED MKK
REVISED	APPROVED SY
JOB NO.: 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-66F	



– GEOPROBE BORING LOCATION

(93.95) – GROUNDWATER ELEVATION

– GROUNDWATER FLOW DIRECTION

N

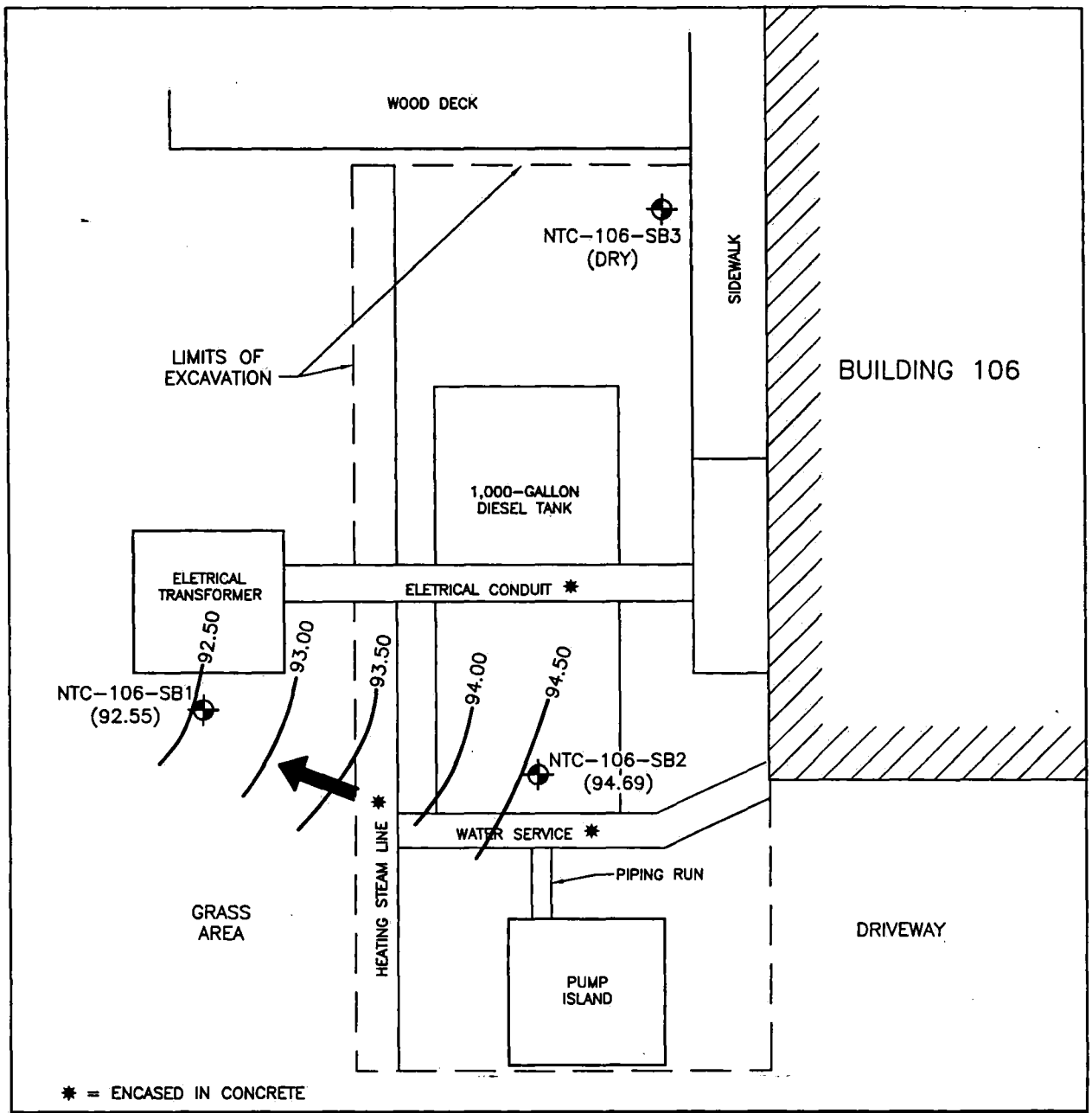
FIGURE 3.0B
GROUNDWATER CONTOUR MAP
BUILDING 13

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MMM
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-09F	



⊕ – GEOPROBE BORING LOCATION

(91.15) – GROUNDWATER ELEVATION

➡ – GROUNDWATER FLOW DIRECTION

N

FIGURE 3.0F

GROUNDWATER CONTOUR MAP

BUILDING 106

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MMK
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-07F	

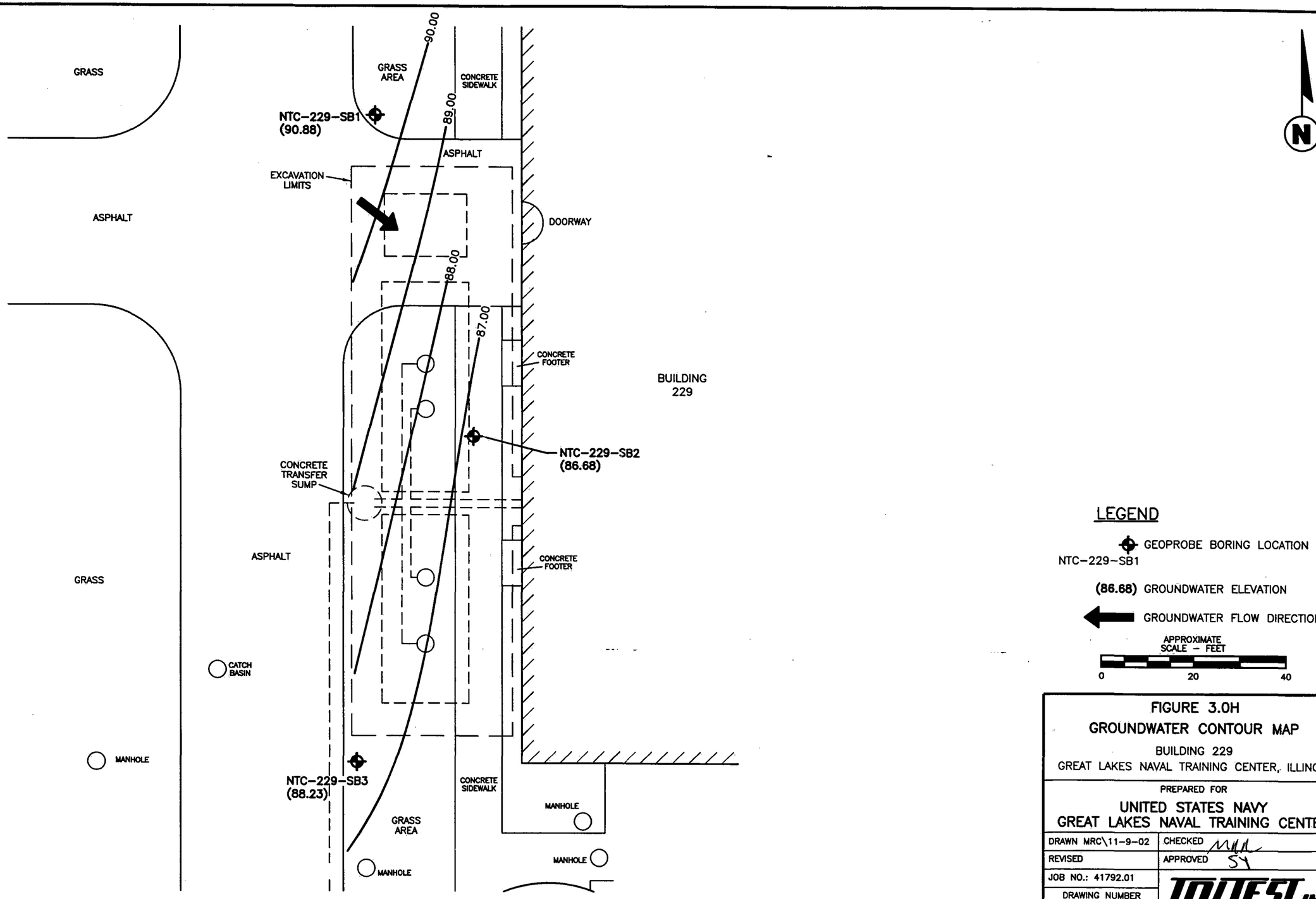


FIGURE 3.0H
GROUNDWATER CONTOUR MAP
BUILDING 229
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-9-02	CHECKED MHL
REVISED	APPROVED SY
JOB NO.: 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-56F	

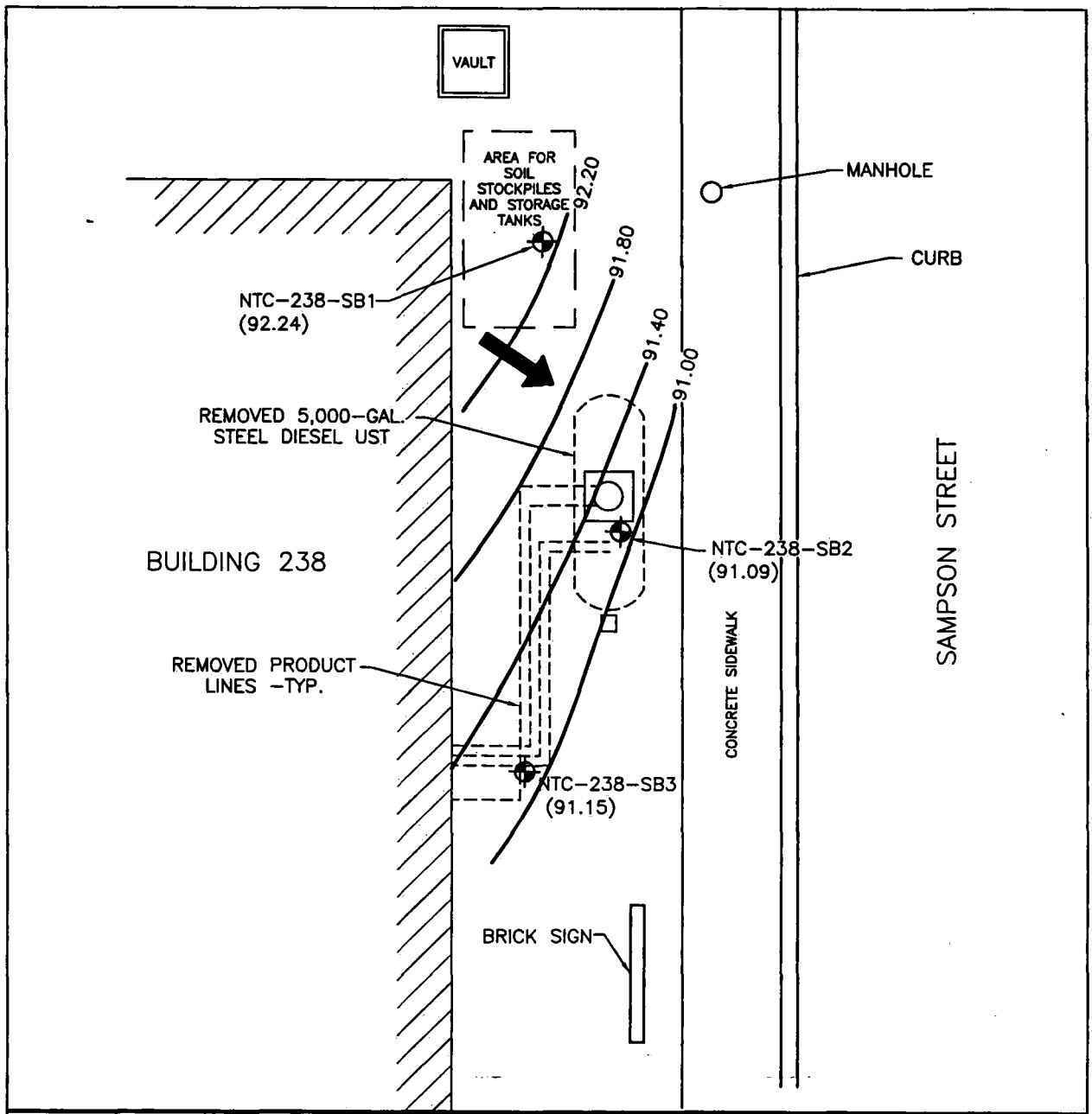


FIGURE 3.01

GROUNDWATER CONTOUR MAP

BUILDING 238

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MAK
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-04F	

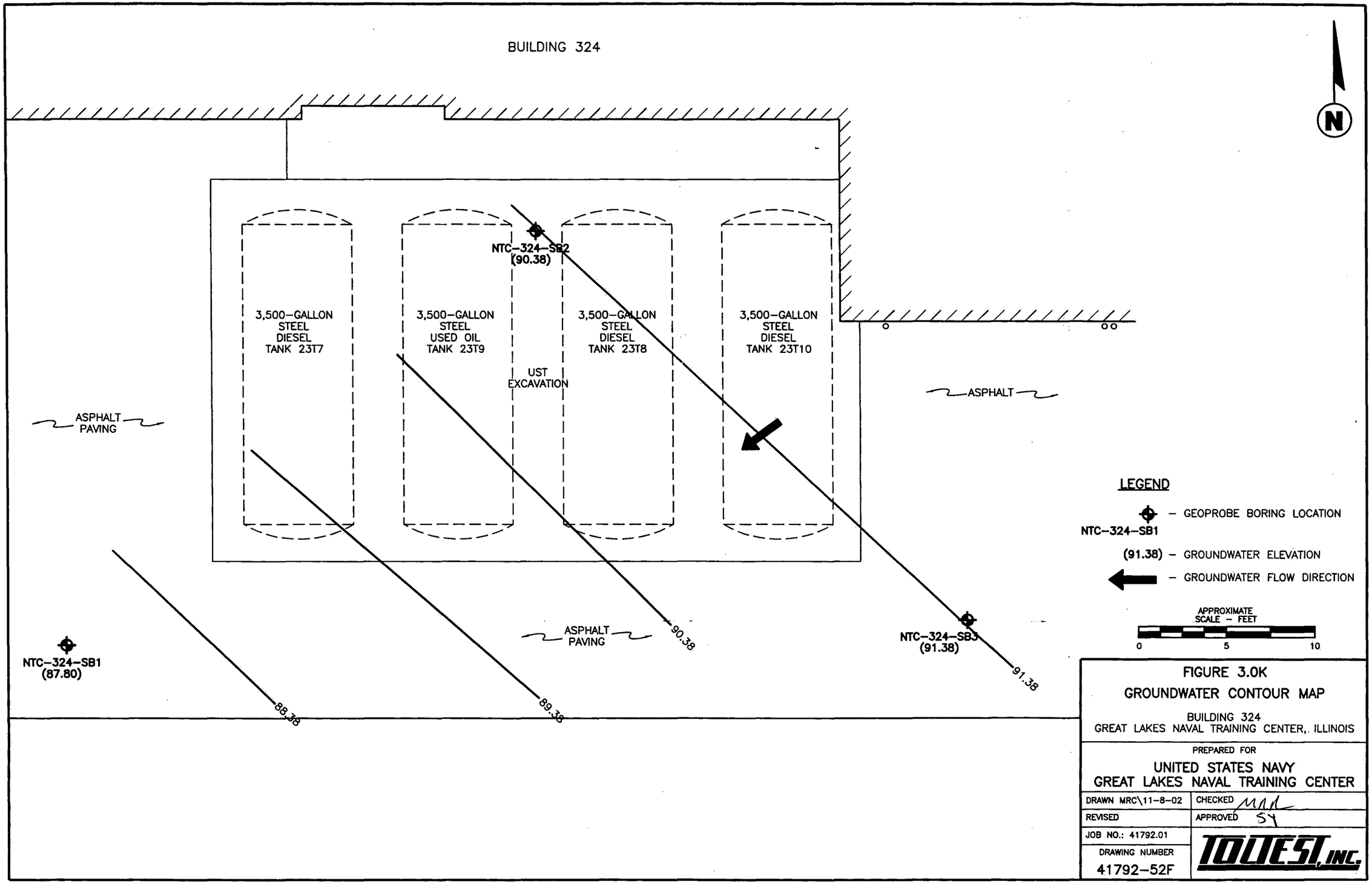


FIGURE 3.0K

GROUNDWATER CONTOUR MAP

BUILDING 324
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED MAL
REVISED	APPROVED SY
JOB NO.: 41792.01	
DRAWING NUMBER 41792-52F	TOLTEST, INC.

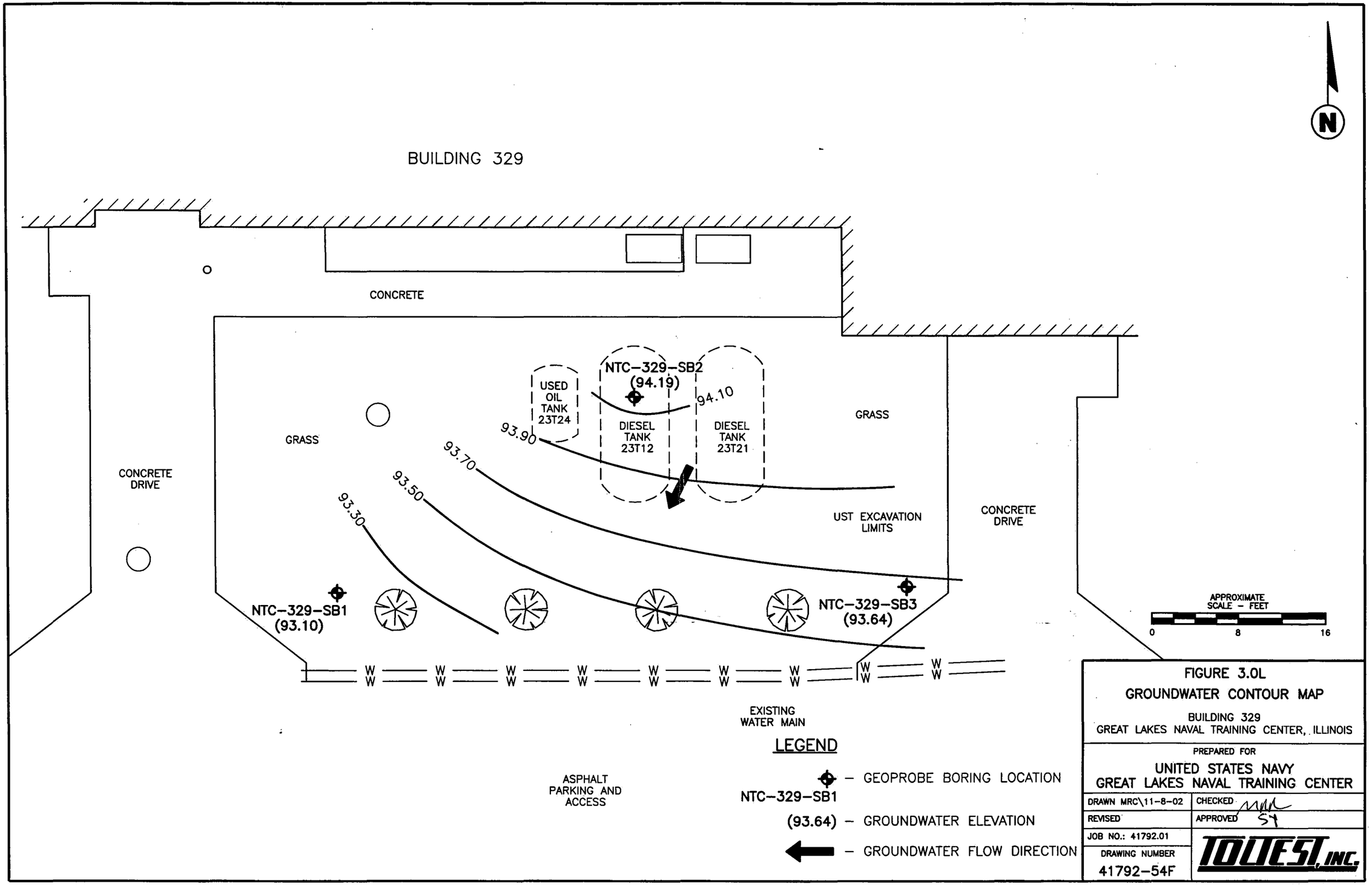


FIGURE 3.0L

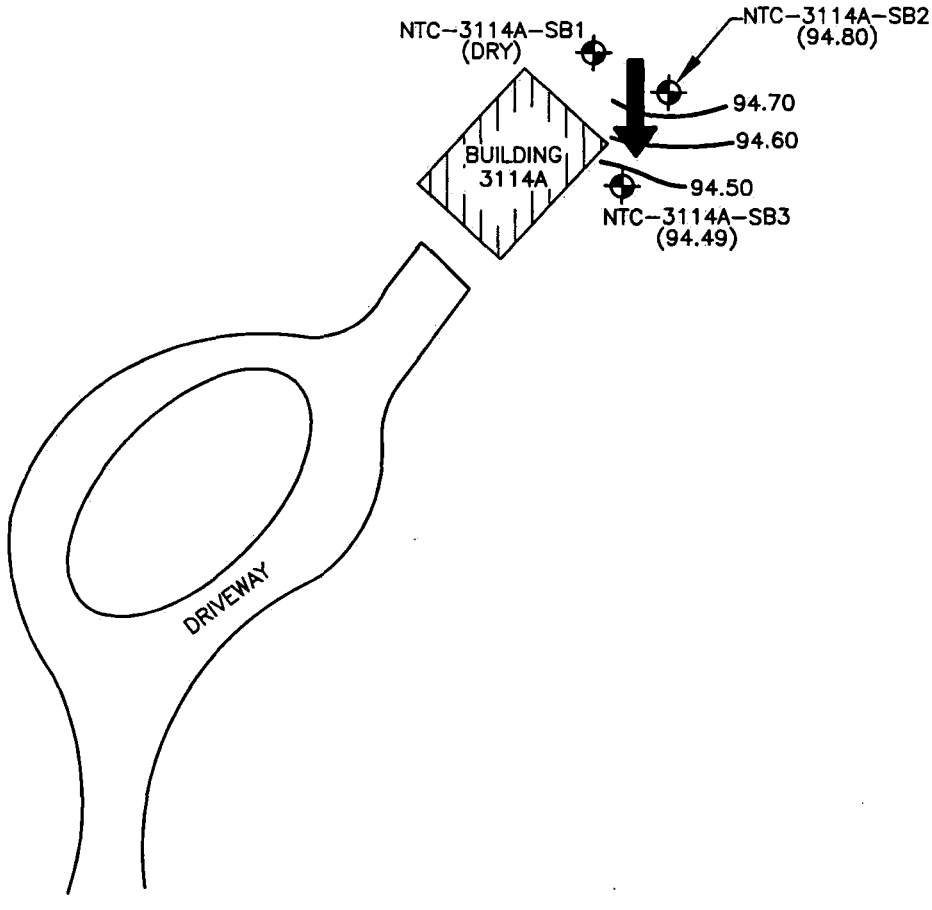
GROUNDWATER CONTOUR MAP

BUILDING 329
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC\11-8-02	CHECKED
REVISED	APPROVED
JOB NO.: 41792.01	
DRAWING NUMBER 41792-54F	TOLTEST, INC.



GEOPROBE BORING LOCATIONS

NTC-3114A-SB3

(94.80) GROUNDWATER ELEVATION

GROUNDWATER FLOW DIRECTION

N

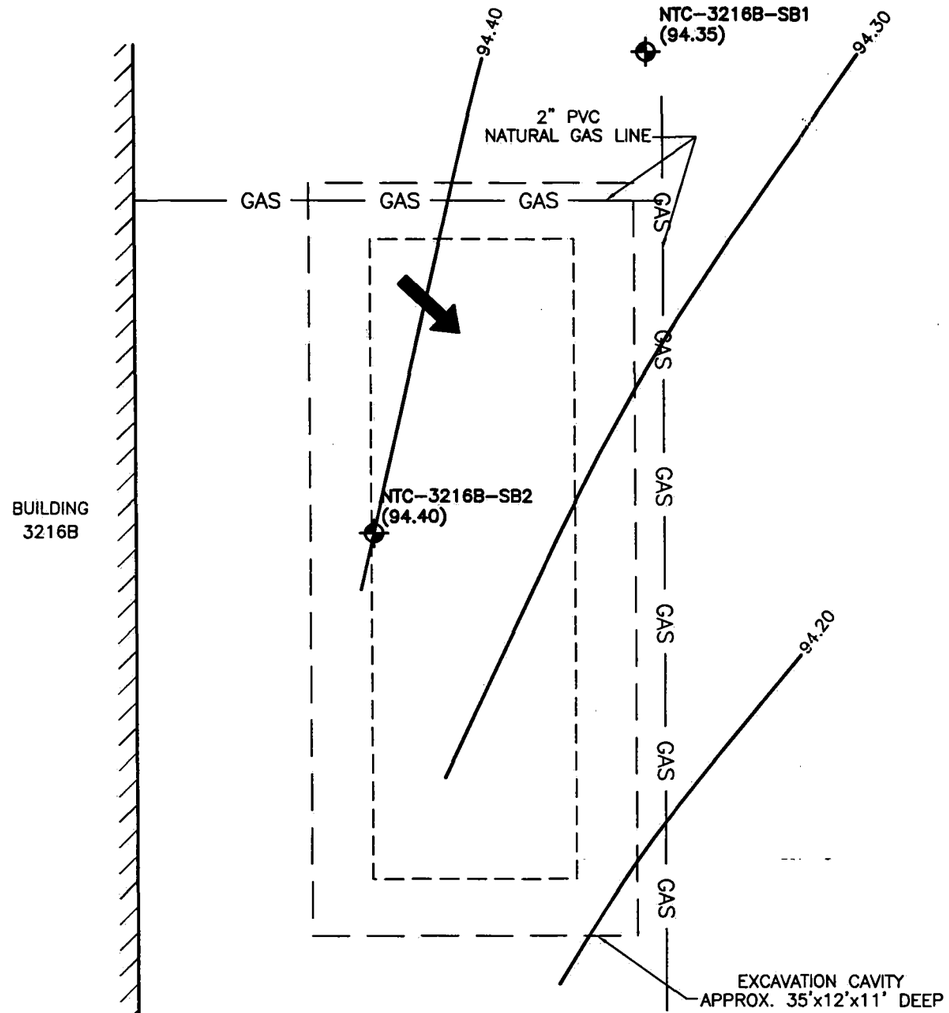
FIGURE 3.0N
GROUNDWATER CONTOUR MAP
BUILDING 3114A

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN NAS/11-8-02	CHECKED
REVISED MRC/11-21-02	APPROVED
JOB NO. 41792.01	
DRAWING NUMBER 41792-01AF	TOLTEST, INC.



N

LEGEND

NTC-3216B-SB1 — GEOPROBE BORING LOCATION

(94.40) GROUNDWATER ELEVATION

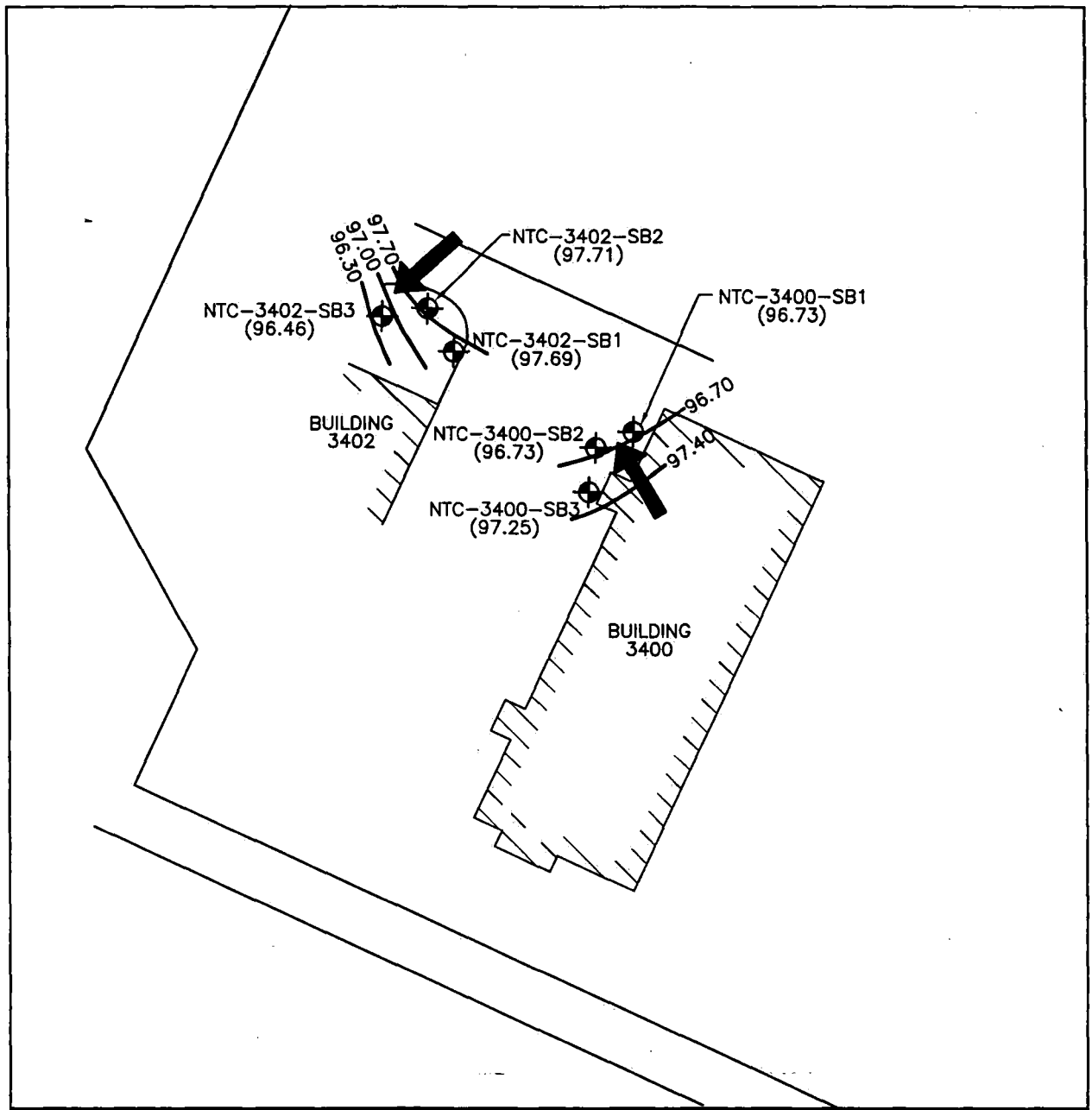
GROUNDWATER FLOW DIRECTION

FIGURE 3.00
GROUNDWATER ELEVATION MAP

BUILDING 3216B
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR
UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MAK
REVISED	APPROVED SY
JOB NO. 41792.01	
DRAWING NUMBER 41792-60F	TOLTEST, INC.



– GEOPROBE BORING LOCATION

(97.25) – GROUNDWATER ELEVATION

– GROUNDWATER FLOW DIRECTION

N

FIGURE 3.0P, Q

GROUNDWATER CONTOUR MAP

BUILDING 3400 & 3402

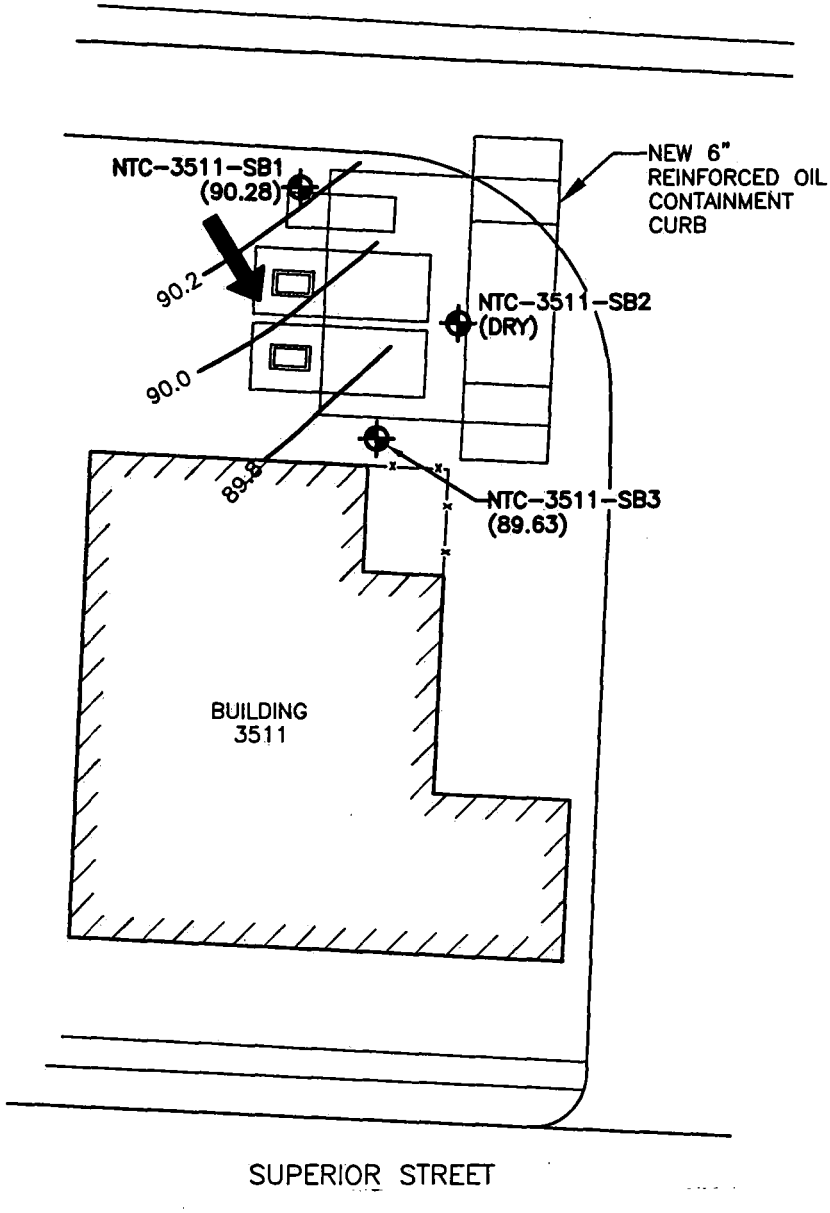
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED
REVISED	APPROVED
JOB NO. 41792.01	
DRAWING NUMBER 41792-02F	

TOLTEST, INC.



NOT TO SCALE

N

NTC-3511-SB1 — GEOPROBE BORING LOCATION

(90.28) — GROUNDWATER ELEVATION

GROUNDWATER FLOW DIRECTION

FIGURE 3.0R
GROUNDWATER CONTOUR MAP

BUILDING 3511
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN MRC/11-9-02	CHECKED MM
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-70F	

APPENDIX A

SITE DESCRIPTIONS AND HISTORIES

MEMORANDUM

12 March 2001

From: Mark Schultz, EFA Midwest Code N45
To: David Smith & Anthony Robinson, Southern Division NAVFAC
Via: Herb Fraser, Southern Division NAVFAC

Subj: **ADDITIONAL INFORMATION** - FY01 EPVT/DSERTS DATA CALL

Encl: (1) **FY01 NTC Great Lakes EPVT/DSERTS DATA**

1. Adjusted IR Site data to support the FY01 DSERTS/EPVT submission for NTC Great Lakes is provided in Enclosure (1) including scoring criteria information for each site. It is our understanding the eligible UST Sites will be brought to screening and the new IR Sites will be added to the IR Program.

2. Again, please provide my office with the results of the project submissions. We appreciate your efforts.

Mark Schultz
Director, EFAMW Environmental

N68950-00-D-0200
EJOC D.O. 28
ENCLOSURE (1)

MAY 24 2001

FY00 ER,N PROJECT VALIDATION SCORING CRITERIA

CRITERIA	WT.	SCORES TO APPLY
1. The importance of the work to the project team (RPM/ regulators/ activity/ trustees/ etc.).	.15	3 - The team considers it to be the top priority cleanup or study project for that program (CERCLA/ RCRA/ UST) at that base. 2 - The project is one of the next highest priority projects among all eligible projects at that base (total of four projects per base). 1 - The project is one of the third highest priority projects among all eligible projects at that base (total of two projects per base). 0 - Any remaining projects not scored above.
2. The planned use of cost effective technologies, methods or approaches.	.14	3 - The team is using cost effective approaches with little chance for cost improvements and the overall project cost is not expensive (less than about $750k for cleanup, $500k for studies). 2. - The team is using cost effective approaches with little chance for cost improvements but the overall project cost is expensive. 1 - The team is not using cost effective approaches but the overall project cost is not expensive. 0 - The team is not using cost effective approaches and the overall project cost is expensive.
3. The potential that the work helps us contain significant threats or reduce future costs at a site.	.13	3 - The project will contain a threat and will help reduce future costs at the site. 2 - The project will contain a threat but does not reduce future remediation costs at the site. 1 - The threat at the site is already contained, but the project will help reduce future costs at the site. 0 - The project doesn't contain a threat or reduce future costs at the site.
4. Addressing risks at a site.	.12	3 - The project is addressing the media that poses the greatest risk at the site. 2 - The project is addressing other media at risk at the site but not the media at most risk. 0 - The project does not reduce any risk or improve our knowledge of risk at the site.
5. (tie) Making land available for other uses.	.10	3 - The project supports the excessing of property or changing of a base mission and only ER,N can be used to fund the work. 2 - The project supports other land use changes at the base and only ER,N can be used to fund the work. 0 - The project doesn't support making land available for other uses or other fund sources besides ER,N can be used to do the work.

MAY 24 2001

FY00 ER,N PROJECT VALIDATION SCORING CRITERIA

CRITERIA	WT.	SCORES TO APPLY
5. (tie) The need to complete an on-going phase of work at a site (to avoid lost value of previously executed work and to avoid significant rework).	.10	3 - If the work is not funded promptly, we will lose the usefulness of the previously funded work. 2 - If the work is not funded promptly, significant rework costs will be incurred later (i.e. resampling, redesign, etc) 1 - If the work is not funded promptly, there will be lost of project continuity. 0 - There is no loss of value of previously accomplished work if work is delayed.
5. (tie) The need to comply with legal drivers.	.10	3 - The project is needed to satisfy the requirements of an existing enforcement action. 2 - Enforcement action is imminent if the project is not funded next year. 1 - Enforcement action may result if the project is not funded next year. 0 - No enforcement action will result if the project is delayed a year.
8. The importance of the work to the public stakeholders.	.07	3 - The project addresses concerns specifically raised by the public. 2 - No public opinion has been expressed or the public has been ambivalent about the project. 0 - The project goes against specific concerns raised by the public.
9. The potential for the work to protect natural resources from future loss	.04	3 - The project addresses damages to significant natural resource where damages are worsening. 2 - The project addresses damages to significant natural resource, but damages are not worsening. 1 - The project addresses other natural resource damages. 0 - The project is not addressing natural resource damages.
10. (tie) The potential to keep critical work going at all bases for all programs.	.03	3 - This will be the only work targeted next year for funding (exclusive of LTO/LTM) for that program for that base. 0 - Other work will be funded for that program at that base.
10. (tie) The potential that the work leads to prompt completion of all actions at a base.	.03	3 - All remedial work at the base can be completed by end of FY2000 3.1 2 - All remedial work at the base can be completed by end of FY2002 2.3 1 - All remedial work at the base can be completed by end of FY2004 1.5 0 - All remedial work at the base can't be completed by end of FY2004 0.5

MAY 24 2001

555 5557

117 25

I. Underground Storage Tank Sites

David Smith SODIV RPM M Slack or C Bartku NTCGL UST POC 847-688-5999 x 54 or x51

FY01 SUMMARY OF NTCGL CONTAMINATED UST SITES FOR IR PROGRAM FY02 NORM/EPVT SCORING

NORM Site #	Bldg #	ERN eligible?	Why / why not ERN eligible?	Validation Score (out of 101)	EPVT scores applied (e.g. criteria 1 – score 3)
6	324	yes	already in	76	1-3,2-3,3-3,4-3,5-2,6-0,7-2,8-2,9-3,10-0,10-1
9	239	yes	already in	71	1-2,2-3,3-3,4-3,5-2,6-0,7-2,8-2,9-3,10-0,10-1
2	144	yes	already in	66	1-1,2-3,3-3,4-3,5-2,6-0,7-2,8-2,9-3,10-0,10-1
7	3216B	yes	already in	61	1-0,2-3,3-3,4-3,5-2,6-0,7-2,8-2,9-3,10-0,10-1
10	329	yes	already in	58 (a)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-3,10-0,10-1
8	229	yes	already in	58 (b)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-3,10-0,10-1
New	90	yes	abandoned '79 (pre 84)	58 (c)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-3,10-0,10-1
3	238	yes	already in	57 (a)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-2,10-0,10-1
11	68H	yes	already in	57 (b)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-2,10-0,10-1
4	3216	yes	already in	57 (c)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-2,10-0,10-1
5	1600A	yes	already in	57 (d)	1-0,2-3,3-3,4-3,5-2,6-0,7-1,8-2,9-2,10-0,10-1
New	3400	yes	Failed TTT 10/92	53 (a)	1-0,2-3,3-3,4-3,5-2,6-0,7-0,8-2,9-2,10-0,10-1
New	3402	yes	Failed TTT 10/92	53 (b)	1-0,2-3,3-3,4-3,5-2,6-0,7-0,8-2,9-2,10-0,10-1
New	2710	yes	Failed TTT 10/92	50	1-0,2-3,3-3,4-3,5-0,6-0,7-1,8-2,9-2,10-0,10-1
New	103	yes	abandoned '74 (pre 84)	47 (a)	1-0,2-3,3-3,4-3,5-0,6-0,7-0,8-2,9-2,10-0,10-1
New	106	yes	Failed TTT 12/90	47 (b)	1-0,2-3,3-3,4-3,5-0,6-0,7-0,8-2,9-2,10-0,10-1
New	1	yes	Failed TTT 12/90	47 (c)	1-0,2-3,3-3,4-3,5-0,6-0,7-0,8-2,9-2,10-0,10-1
1	13	yes	already in	47 (d)	1-0,2-3,3-3,4-3,5-0,6-0,7-0,8-2,9-2,10-0,10-1
New	2912	unk	No firm records	Not scored	Not scored
New	3511	unk	No firm records	Not scored	Not scored
New	3114A	unk	No firm records	Not scored	Not scored

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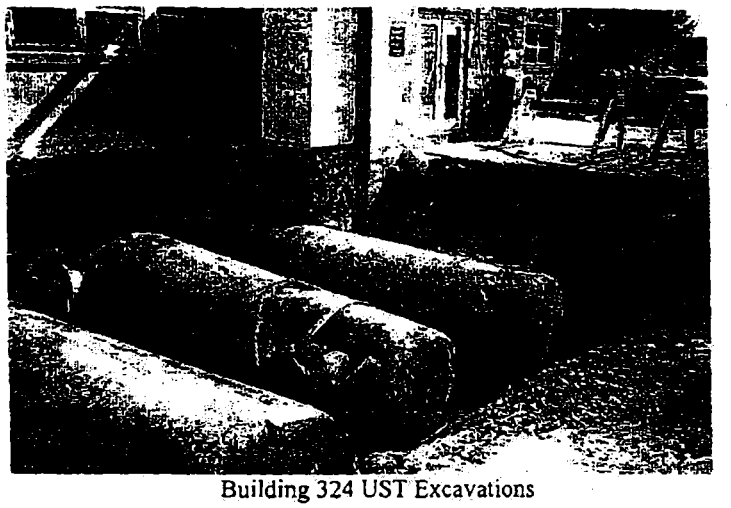
NTC Great Lakes Building 324 (4) tanks
Tank #s 23-T-7, 23-T-8, 23-T-9, 23-T-10



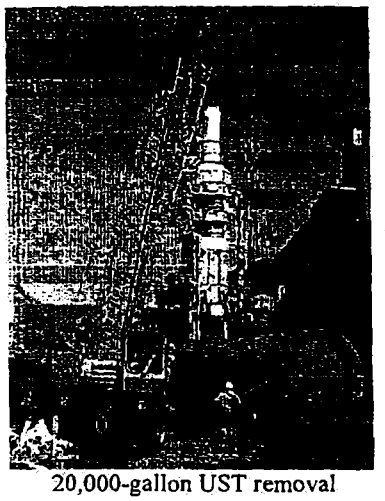
Building 324 UST Excavations

Building 324 is a Gas Turbine Trainer constructed in 1945. To support the trainer engines, three 3,500 gallon diesel steel UST's were installed in 1947 along with one 3,500 gallon used oil UST. In 1992 all four tanks failed a tank tightness test and were drained, piping disconnected and the tanks were removed from service. The tanks were removed on May 3, 1999. Free product and extensive contamination was found in the excavation and left in place.

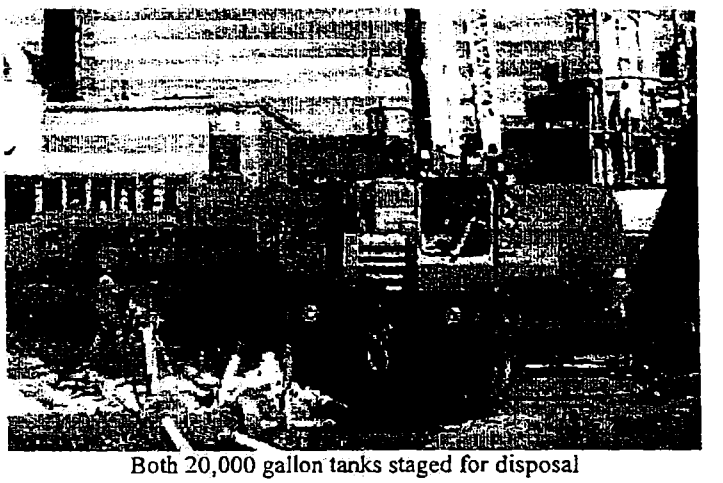
Recommend a high priority be given to investigating the contaminated Building 324 UST site with an ECC of $125k

ERN eligible; NORM Site #000006; needs EPVT scoring
Reply: See Page 1 for Scoring

NTC Great Lakes Building 239 (3) tanks and an OWS
Tank #'s 23-T-29, 23-T-4, 23-T-5, 23-T-6 (OWS)



20,000-gallon UST removal



Both 20,000 gallon tanks staged for disposal

Building 239 is a steam propulsion trainer constructed in 1973. To support the boiler operations, two 20,000 gallon diesel steel UST's were installed along with a 500 gallon used oil UST in 1973. In 1990, the three tanks failed tightness testing in 1990 and were drained, piping disconnected and removed from service. The three tanks were removed on March 12, 1999. Free product and extensive contamination was found in the excavation.

Recommend a high priority be given to investigation of UST contamination at Building 239 at an ECC of $125k

ERN Eligible; NORM Site UST 00009; needs EPVT scoring
Reply: See Page 1 for Scoring

MAY 2 4 2001

NTC Great Lakes Building 144 (3) gasoline tanks
Tank #'s 21-T-4, 21-T-5, 21-T-6

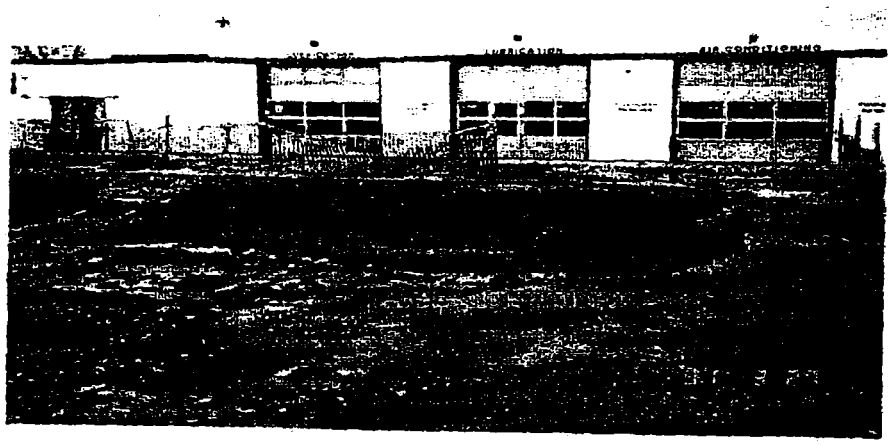


Photo 8: Excavation south beyond concrete abutment.

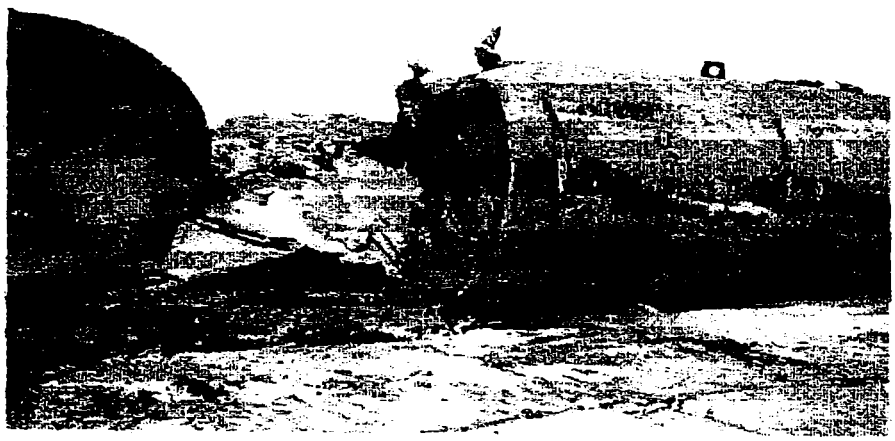


Photo 4: Destruction of tank-vapor release

Building 144 was a PWC gasoline station. There were two 20,000-gallon gasoline tanks that were installed in 1952 and removed on February 27, 1991. There was also one 600-gallon used oil tank that was replaced with a new used oil tank on December 3, 1993. Free product and extensive contamination was found in the excavation. Extensive (3000cy) over-excavation was conducted at this site but funds were insufficient to complete the needed cleanup.

Recommend High Priority be given to investigation of Building 144 contamination remaining at the site with an ECC of $150k for an anticipated soil gas survey and groundwater well installation

ERN eligibile; NORM UST 000002; needs EPVT scoring
Reply: See Page 1 for Scoring

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NTC Great Lakes Building 3216B (1) tank
Tank # TK-3227

Free product in the excavation

Building 3216B Removal

The UST was located on the east side of Building 3216B. The UST removed on December 1, 1999 was a 3,500 gallon steel tank that held diesel fuel for the CBU 401 Vehicle Storage Area dating from 1954. The tank was shut down prior to 1974. At the time of the removal the contents were removed and the associated piping was disconnected. The tank was discovered during a parking lot grading project. During tank removal, significant deterioration was found. Free product was found in the excavation. Soil and groundwater contamination combined with additional free product remain at the site. The site is up gradient of the Skokie River, which flows through base housing and then off base through private residential areas. The migration potential to the groundwater and adjacent creek is high based on known perched silty soil conditions in the area.

Recommend High Priority be given to the 3216B UST site based on free product remaining in the excavation at an ECC of $125k

ERN eligible; NORM UST 000007; needs EPVT scoring
Reply: See Page 1 for Scoring

MAY 2 4 2001

NTC Great Lakes Building 229 (3) tanks
Tank #'s 23-T-2, 23-T-3, 23-T-1 (used oil)

Bldg 229 (2) Diesel, (1) Used Oil Tank

Building 229 is a Steam Propulsion Trainer constructed in 1961. To support the operation of a boiler, two steel UST's containing 12,500 gallons each of diesel were installed in 1963. In conjunction with the installation of the diesel tanks a 500 gallon waste oil UST was also installed. The tanks failed a tightness test in 1990 and were removed from service with the contents being removed and the piping disconnected. The tanks were removed on February 26, 1999. Free product and extensive contamination was found in the excavation and remains at the site.

Recommend High Priority be given to the Building 229 UST site based on free product remaining in the excavation at an ECC of $125k

ERN Eligible; NORM UST 000008; needs EPVT scoring
Reply: See Page 1 for Scoring

MAY 2 4 2001

NTC Great Lakes Building 329 (3) tanks
Tank #'s 23-T-12, 23-T-21, 23-T-24 (Used Oil)

Building 329 is a Diesel Engineman Trainer constructed in 1983. To support the engines, two 1,200-gallon diesel steel underground storage tanks were installed in 1983 on the south side of the building. A 500-gallon used oil steel underground storage tank was also installed in 983. In 1992, the three UST's were tightness tested for the first time. The tanks failed the initial tightness test. Following this test all three tanks were taken out of service with all of the contents removed and the piping disconnected. The tanks were removed on March 25, 1999. Free product and extensive contamination was found in the excavation and remains at the site.

Recommend High Priority be given to the Building 329 UST site based on free product remaining in the excavation at an ECC of $75k

ERN eligible; NORM UST 000010; needs EPVT Scoring
Reply: See Page 1 for Scoring

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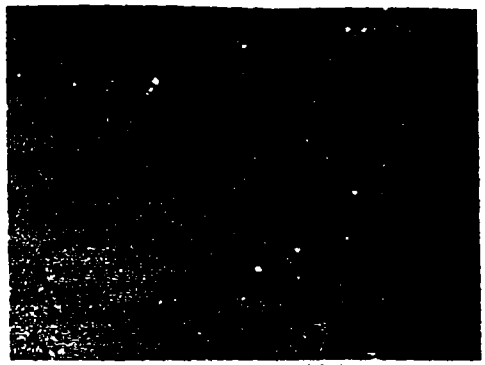
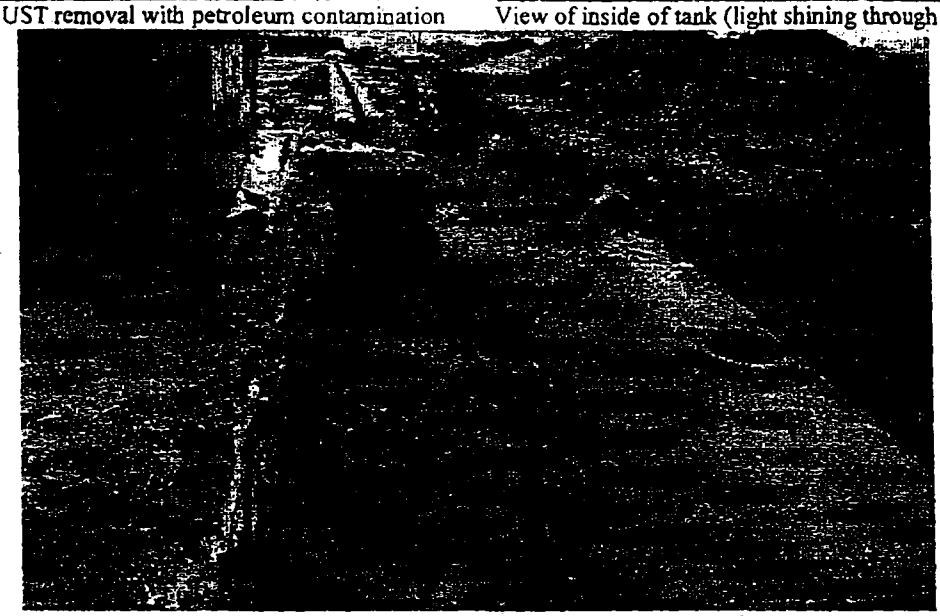
NTC Great Lakes Building 90-A School (1) tank
Tank # 3230

UST removal with petroleum contamination



View of inside of tank (light shining through holes)



note petroleum product in northwest corner of excavation

Building 90 was built in 1917 and demolished in 1997. There are no records of the tanks existence. During the trenching for a steam line for the construction of a new A School Barracks a 15,000 underground storage tank that supplied fuel oil #5 to building 90 was found. The tank was removed on January 26, 2001 and was found to be in poor condition with numerous holes in the tank. The excavation was contaminated and contained free product. No over excavation was conducted. Approximately 3,500 gallons of fuel oil was recovered from the tank and excavation. The extent of contamination is unknown. *Recommend High Priority be given to the Building 90 UST site based on free product remaining in the excavation at an ECC of $125k*

D. Smith to add site to NORM; NTCGL to provide ERN eligibility data
Reply : According to Utilities and based on microfiche drawings of Bldg 90, in 1979 the building was converted to steam heating and the tank most likely abandoned in 1979

NTC Great Lakes Bldg 13 BoatHouse (1) tank
Tank #21-T-2

tank is on the northeast corner of Building 13

Removed (1) 1955 500 gallon leaded gasoline tank on 1/31/94; 45 Day Report completed; visual signs of petroleum contamination existed beneath the tank including soil staining and a strong odor. A soil sample from the tank walls indicated BTEX at 334ppm. The contaminated hole was backfilled. Paul Campbell took a sediment sample in 3/96 but the Draft copy received by NTCGL does not have any summary of findings.

Based on the known analytical from when the tank was removed, an investigation is needed at this site with an ECC of $30k.

ERN eligible; actually NORM UST 000001; needs EPVT scoring
Reply: See Page 1 for Scoring

NTC Great Lakes Bldg 3400 Armed Services In-processing Tank (2) tanks
Tank #'s 21-T-10, 21-T-11

Removed (2) 1961 20,000 gallon boiler #6 diesel fuel tanks in 1/12/94; 45 Day Report completed; visual signs of petroleum contamination existed along side of the east tank, within the backfill of a 4 inch natural gas line. It was determined the release was from overspill and/or leaking supply/return lines; contamination remains at the site and the hole was backfilled with clean soil then covered with concrete.

Recommend High Priority be given to the Building 3400 UST site since contamination was evident during the excavation and left in place; ECC $100k

Not in NORM; may not be ERN eligible; look in 45 day report to document abandonment date and tightness test date
Reply: failed tightness test in 10/92; taken out of operation in 10/93

NTC Great Lakes Bldg 3402 Armed Services In-processing Tank (1) tank
Tank # 21-T-13

Removed (1) 1978 2,000 gallon #2 diesel fuel emergency generator tanks on 1/12/94; No 45 Day Report was completed; contamination left in the hole. The removed tank was replaced by a (1) 2,500 gallon double-wall fiberglass UST, backfilled with clean soil then covered with concrete.

Recommend High Priority be given to the Building 3402 UST site since contamination was evident during the excavation and left in place; ECC $35k

Not in NORM; recheck 45 Day Report and base records
Reply: failed tank tightness test in 10/92

NTC Great Lakes Bldg 1 NTC Great Lakes Headquarters Building (1) tank
Tank # 21-T-1

Removed (1) 1948 500 gallon #2 diesel fuel emergency generator tank on 2/22/94; 45 Day Report was completed; the tank had a release of product caused by a combination of leaking pipes or overfill. Approximately 200 cy of contaminated soil were excavated and disposed of base. Six soil samples were collected from the tank excavation for analysis of BTEX and PNA's. The removed tank was replaced by a (1) 600 gallon double-wall fiberglass tank, backfilled with clean soil.

Recommend High Priority be given to generating a Closure Report for the Building 1 UST site since contamination appears to have been overexcavated; ECC $5k

Not in NORM; recheck 45 day and base records
Reply: GreenSpace shows tank closed in 1994; 3 Feb 92 base record indicates loss of fuel in tank 21-T-1 based on 8 Dec 90 tank tightness test

(continued)

NTC Great Lakes Bldg 2912 Forrestal Housing Fire Station Building (1) tank Tank # 2912A

Removed (1) 1989 2,000 gallon diesel fuel steel UST for heating on 7/28/97; 45 Day Report completed; visual signs of diesel contamination existed including soil staining and odor. The contaminated hole was backfilled with clean soil and hydroseeded topsoil. Conduct Risk Assessment and modeling for site closure.

Recommend High Priority be given to the Building 2912 UST site since contamination was evident during the excavation and left in place; ECC $20k

Not in NORM; not eligible based on narrative; recheck 45 day
Reply: No records found on tank tightness testing; unless records are uncovered, will consider not ERN eligible since installed in 1989

NTC Great Lakes Bldg 103 HVAC Shop Building (5) Tank Tank # 10-T-2, 10-T-3, 10-T-4, 10-T-5, 10-T-6

Removed (3) 1960 10,000 gallon gasoline steel UST's , (1) 1960 12,500 gallon #2 diesel fuel steel UST, (1) 1960 1,200 gallon kerosene, on 10/8/97; 45 Day Report completed. Free product was discovered, pumped out and disposed of base. Removal actions generated approximately 1,275 cy of contaminated soil. The contaminated 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. The Navy selected to utilize the technology currently in use at the FFTU. The hole was backfilled with clean soil. Risk Assessment and modeling for site closure.

Recommend High Priority be given to a risk assessment and Closure Report for the Building 103 UST sites; ECC $75k

Not in NORM; recheck 45 day
Reply: According to GreenSpace and base records, the five tanks 10-T-2,3,4,5,6 were closed in 1974 (ERN eligible)

NTC Great Lakes Bldg 68H Hospital Area Vehicle Maintenance Garage Building (1) Tank Tank # 31-T-4

Removed (1) 1943 1,500 gallon gasoline steel UST including the associated piping on 6/28/99; 45 Day Report completed; As soil was being excavated for removal, a release was determined through visual and olfactory observations. The source of the releases surrounding the UST is due to the tank deterioration. Free product was not encountered during the removal. The removal actions generated approximately 30 cy of contaminated soil and disposed of base to a landfill. The contaminated hole was backfilled with clean soil. Seven soil samples were collected to measure the presence of a release within the excavated area. Contaminants exceeded the Tiered Approach to Cleanup Objectives (TACO), table B; Tier 1-Residential for Class 1 Groundwater Cleanup Objective, and Ingestion, Inhalation, Class 1 Migration to Groundwater Route for Soil Cleanup Objectives.

Based on the concentrations of contamination remaining in the excavation, an investigation is needed at this site with an ECC of $35k.

ERN eligible; NORM 000011; needs EPVT scoring
Reply: See Page 1 for Scoring

NTC Great Lakes Bldg 238 Technical Training School Building (1) Tank Tank # 23-T-11

Site identified by SODIV as Site UST 03. Removed (1) 1979 5,000 gallon #2 diesel fuel oil steel UST used to supply equipments inside the building, on 3/1/94; no 45 Day Report. In 1991 tank failed leak tightness testing, and was immediately shut-down, fluids removed and piping repaired. During excavation no samples were collected. The contaminated hole was backfilled with clean soil. In 1996 one sample was taken by Paul Campbell/SODIV but results were taken above the tank location in what was expected to be clean backfill. Conduct Risk Assessment and modeling for site closure.

Recommend High Priority be given to the Building 238 UST site since contamination was evident during the excavation and left in place; ECC $75k

ERN eligible; NORM UST 00003; needs EPVT scoring
Reply: See Page 1 for Scoring

NTC Great Lakes Bldg 3511 Out-line Boiler Plant (3) Tank Tank # 3511 UNK, 11-T-7, 11-T-8

Removed (1) 1960 4,000 gallon #2 diesel fuel oil steel UST, (1) 1966 20,000 gallon #2 diesel fuel oil steel UST, (1) 1966 20,000 gallon #6 diesel fuel oil steel UST, on 11/28/94; no 45 Day Report. No samples were collected. The contaminated hole was backfilled with clean soil.

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Recommend High Priority be given to the Building 3511 UST site investigation since contamination was evident during the excavation and left in place; ECC $100k

Not in NORM; not eligible based on narrative; check 45 day
Reply: GreenSpace identifies the tanks were closed in 1994 however base personnel identify that the 4k gallon UST was discontinued use in the late 1970's and the 20k fuel oil tank in the 1980's; no records could be found on tank tightness testing for the 3 tanks; until further documentation can be found, will consider not ERN eligible

NTC Great Lakes Bldg 3114A Pump House Building (1) Tank
Tank # 11-T-1
Removed (1) 1943 1,000 gallon gasoline steel UST in 1991; no 45 Day Report. No samples were collected. The contaminated hole was backfilled with clean soil.

Recommend High Priority be given to the Building 3114A UST site investigation since contamination was evident during the excavation and left in place; ECC $100k

Not in NORM; not eligible based on narrative; check 45 day for eligibility
Greenspace identifies the tank as being closed in 1991 however base personnel identify the tank as not being operated for several years before it was removed; no records could be found on tank tightness testing; until documentation can be found will consider not ERN eligible

NTC Great Lakes Bldg 106 NTC Fire Station Building (1) Tank
Tank # 21-T-3
Removed (1) 1958 1,000 #2 diesel fuel oil steel UST on 12/3/93; 45 Day Report completed. Visual signs of petroleum contamination existed beneath the tank including soil staining and strong odor. The contaminated hole was backfilled with clean soil, then covered with grass and concrete. Six samples were taken from the excavation. Soil samples were analyzed for BTEX and PNA's. Benzene is above the inhalation and migration to groundwater cleanup objective using the Tiered Approach to Cleanup Objectives (TACO).

Recommend High Priority be given to the Building 106 UST site Risk Assessment and Closure Plan since compounds were found above the TACO; ECC $50k

Not in NORM; check 45 day and base records for eligibility

Reply: GreenSpace identifies tank closed in '93 (same as removal date) however base personnel identify that the tank was out of operation long before removal; base records dated 3 Feb 92 show a loss of fuel from Tank 21-T-3 when tested on 7 Dec 90; eventhough records are sketchy, believe tank can reliably meet the failing of tank tightness testing prior to Dec 93

APPENDIX B

FIELD NOTES

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-5-01
Day: Monday

Project No.: 41792.01
Location: Bldgs. 239 and 229
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	Bldg 239													5
Lynn Smith	Bldg. 229													2

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GIS	1
	~~Power washer~~ Water depth indicator	1
	~~Pipe threader/pipe stand~~ camera	1
	Walk-behind concrete saw	

Rental/Other

Equipment used at site: | Hours used:

Subcontractors on site: | Hours worked:

1) Terra Probe — 9
2)
3)
4)

Materials delivered to site:

Water Depth Indicator
55-gallon drum (one)
Hook Blade

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-5-01
Day: Monday

Project No.: 41792.01
Location: Bldgs. 229 and 239
Client: NTC Great Lakes

Events

Weather: 50°F, mild wind, sunny

Begin drilling at Building 239 at 0900. Advance three borings at the site. No petroleum impact was observed in the soil samples. Install a piezometer in each boring. Collect water samples from each piezometer. Leave site (Bldg. 239) at 1415.

Begin drilling at Building 229 at 1425. Advance three borings at the site. Petroleum impact observed from 10'6" to the completion depth of boring at 16ft. at location NTC 229-SB2, which was located in the former tank pit. Install a piezometer in each boring. Borings NTC 229-SB2 and NTC 229-SB3 were dry. Only partial water samples were collected from NTC 229-SB1 due to insufficient sample recovery. Plan to return to Building 229 on 11-6-01 to attempt to complete water sampling.

Leave Site at 1640.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-6-01
Day: Tuesday

Project No.: 4792.01
Location: Bldgs. 329 and 238
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	Bldg. 329													4
Lynn Smith	Bldg 238													4

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GIS	
	~~Power washer~~ Water depth indicator	1
	~~Rigid pipe threader/pipe stand~~ Camera	1
	Walk-behind concrete saw	

Rental/Other

Equipment used at site: | Hours used:

Subcontractors on site: | Hours worked:

1) Terra Probe — 9
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-6-01
Day: Tuesday
Project No.: 41792.01
Location: Bldgs. 329 and 238
Client: NTC Great Lakes

Events

Weather: upper 40's °F to mid 60's °F, mild winds, sunny

At 0750 arrive at Building 229 to attempt to collect groundwater samples from piezometers. Piezometers, TP-2 and TP-3 were still dry. Collected 1 liter from TP-1.

At 0850 arrive at Building 329 and begin drilling. Advance three borings at site. Petroleum impact observed from 8' to 8'6" in soil collected from NTC329-SB3, which was located west of the former tank. A piezometer was installed in each boring. Collected groundwater samples from TP-2. Only partial groundwater samples could be collected from TP-1 and TP-3. Plan to return to site to complete groundwater sampling.

At 1250 arrive at Building 238 and begin drilling. Advance three borings at site. No petroleum impact observed. Installed piezometers in each boring. Insufficient volume of groundwater in piezometers to collect a sample. Plan to return to site on 11-7-01 to complete groundwater sample.

At 1550 return to Building 229 to collect remaining groundwater sample from TP-1. Collect remaining groundwater samples from TP-1 and TP-3 at Building 329.

Leave site at 1630.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-7-01
Day: Wednesday

Project No.: 41792.01
Location: Bldgs; ~~324~~ 144 and 103
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	144													3.0
Lynn Smith	106													1.0
Lynn Smith	103													3.0

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GIS	1
	~~Power washer~~ water depth indicator	1
	~~Rigid pipe threader/pipe stand~~ Camera	1
	Walk-behind concrete saw	

Rental/Other

Equipment used at site: | Hours used:

Subcontractors on site: | Hours worked:

1) TerraProbe — 9
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-7-01
Day: Wednesday
Project No.: 41792.01
Location: Bldgs 144 and 103
Client: NTC Great Lakes

Events

Weather: lower 50's°F to ~~mid~~ upper 50's°F. Windy, partly cloudy to mostly sunny.

At 0750, arrive at Building 238 to complete groundwater sampling.

Arrive at Bldg 144 at 0820. Unable to begin drilling within the portion of the site that is being repaved. Complete one boring, SB-1 in the former gasoline UST area. Unable to recover soil from SB-1. Only pea gravel recovered. Install piezometer in SB-1. Plan to return to the site in the afternoon to complete the remaining two borings within the area which will be repaved.

At 1015 arrive at Building 106. Request assistance from Fireman to locate the former tank pit. Assess the underground utility markings and determine that location of underground electric lines is unclear. Request that Project Manager, Chuck Harder, contact the underground utility protection services to have the underground electric lines marked more clearly.

Move on to Building 103, which is undergoing construction in the parking lot area. Request permission from site superintendent to advance three borings at the site. Site Superintendent identifies location of newly installed underground utilities. Begin drilling at Building 103 at 1140. No petroleum impact observed in recovered samples. Only gravel recovered from location SB-3 and no soil sample was submitted from this boring. Install piezometers in each boring. Piezometer TP-1 is dry. Collect water samples from TP-2 and TP-3.

Meet utility work at Building 106 to point out proposed soil boring locations to determine if underground electric lines are in those areas. Underground electric lines were not located in areas that would significantly affect the locations of the proposed soil borings.

Return to Bldg. 144 to advance soil borings SB-2 and SB-3. Petroleum impact observed at SB-3. Install piezometers at SB-2 and SB-3. Plan to return to site on 11-8-01 to collect groundwater samples.

(Leave site at 1620)

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-8-01
Day: Thursday

Project No.: 41792.01
Location: Bldgs 1 and 106
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	1													3
Lynn Smith	106													3
Lynn Smith	144													1

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GIS	1
	~~Power washer~~ Water depth indicator	1
	~~Rigid pipe threader/pipe stand~~ camera	1
	Walk-behind concrete saw	

Rental/Other
Equipment used at site: Hours used:

Subcontractors on site: Hours worked:
1) Tera Probe
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-8-01
Day: Thursday
Project No.: 4792.01
Location: Bldgs. 106 and 1
Client: NTC Great Lakes.

Events

Weather: lower 40's to lower 50's °F, very windy, mostly cloudy

Arrive at Bldg 144 at 0930 to collect groundwater samples from TP-1 thru TP-3.

Arrive at Bldg 106 at 1025 and begin drilling. Advance three borings at site. Petroleum impact observed at SB-3 from approximately 6 to 10 feet bgs. SB-3 was located in the vicinity of the former tank. A piezometer was installed to each boring. Groundwater samples will be collected within the next couple of days.

Arrive at Bldg. 1 at 1300 and begin drilling at 1320. Advance three borings at site. Petroleum impact observed at SB-2 from approximately 9-11 feet. No soil was encountered at boring SB-1. Only gravel was encountered. A piezometer was installed at each location. Groundwater samples will be collected within the next couple of days.

Leave site at 1600.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-8-01
Day: Friday

Project No.: 4792.01
Location: Buildings 13 and 68H
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	Bldg 13													2.25
Lynn Smith	Bldg 68H													3.0

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GTS	1
	~~Power washer~~ Water Depth Indicator	1
	Rigid pipe threader/pipe stand Camera	1
	Walk-behind concrete saw	

Rental/Other
Equipment used at site: Hours used:

Subcontractors on site: Hours worked:
1) Terra Probe 6
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-9-01
Day: Friday
Project No.: 41792.01
Location: Bldg. 13 and 68H
Client: NTC Great Lakes

Events

Weather: Mid 40's°F to upper 50's°F, moderate winds, sunny

Arrive at Building 13 @ 0830 to begin drilling. Advance 3 borings. Petroleum odor and staining from 6 to 7 feet bgs in soil boring SB2, which was located within the center of the tank pit. Piezometers were installed in each boring. Groundwater samples will be collected on 11-12-01.

Arrive at Building 68H at 1048 to begin drilling. Contact utility protection service to request that ~~the~~ natural gas lines be located. The natural gas lines were not located but other ~~under~~ underground utilities were marked. Peoples Energy arrives on site to locate the natural gas lines. Petroleum impact was observed at SB-2 at 10 feet in SB-2 throughout the entire boring. No impact was observed at soil collected from SB-3. Borings SB-1 and SB-2 were located within the immediate vicinity of the former tank cavity. Installed piezometers at each location. Groundwater samples will be collected on 11-12-01

Driller leaves site at 1330.

Leave site at 1430.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn P. Smith
Date: 11-12-01
Day: Monday

Project No.: 41729.01
Location: Buildings 3216B, 13, 68H, 1, 106, 103, 144
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	3216B													2
"	13, 68H, 1													6
"	106, 103, 144													

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ GTS	1
	~~Power washer~~ Camera	1
	~~Rigid pipe threader/pipe stand~~ Water depth indicator	1
	Walk-behind concrete saw	

Rental/Other
Equipment used at site: Hours used:

Subcontractors on site: Hours worked:
1) Terra Probe 8
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-12-01
Day: Monday
Project No.: 41729.01
Location: Bldgs. 3216B, 103, 106, 144, 68H, 13 & 1
Client: NTC Great Lakes

Events Weather: Sunny, 50°F, mild wind

0800 - Return to Buildings, 103, 106, 144, 68H, 13 and 1 to complete groundwater sampling. Piezometers TP2 and TP3 are dry. Due to insufficient volume of groundwater, only partial samples were collected from piezometers at Building 1-TP3 and Building 68H-TP2 and TP3.

1440 - Arrive at Building 3216B. Natural gas line not located, so borings are relocated from their proposed positions on the site plan to avoid the assumed location of the gas line. Petroleum impact is identified at each of the three soil borings. Piezometers are installed at each boring and will be sampled the next day.

1640 - Leave site

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn P. Smith
Date: 11-13-01
Day: Tuesday

Project No.: 41729.01
Location: Bldgs. 90, 3511 and 3216B
Client: NTC Great Lakes 91, 13, 68H

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site	Total
Lynn Smith	3216B	0.75
Lynn Smith	90	3.0
Lynn Smith	1, 13, 68H	1.
Lynn Smith	3511	3.0

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	Nibbler	
	Power washer	
	Rigid pipe threader/pipe stand	
	Walk-behind concrete saw	

Rental/Other
Equipment used at site: Hours used:

Subcontractors on site: Hours worked:
1) Terra Probe 8.0
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn Smith
Date: 11-13-01
Day: Tuesday
Project No.: 41729.01
Location: Buildings 3511, 3216B, 1, 13, & 68H
Client:

Events

Weather - lower 50's to lower 60's, partly cloudy, some rain

0740 Arrive at Building 3216B to collect groundwater samples. Petroleum impact observed in groundwater samples.

0830 Arrive at Building 90. Gravel recovered at TP-1 and TP-2. Both borings were drilled to refusal (11-13' ft.) Soil recovered from TP-3. No impact observed in the recovered gravel or soil samples. Piezometers were installed in each boring. No petroleum impact observed in the groundwater samples.

0930 Return to Buildings 1, 13, and 68H to complete groundwater samples. Insufficient sample volume in piezometers TP-1 and TP-3 at Bldg 68H to collect additional groundwater samples. Only partial samples collected from TP-3 at Bldg 1 ~~to~~ due to insufficient groundwater volume. Groundwater sampling was completed at TP-2 at Bldg 13

1240 Arrive at Building 3511. Identify former locations of USTs. A stack of several large telephone poles are overlying the tank pit. Locate borings in accessible areas within the vicinity of the former USTs. No signs of petroleum impact observed in the soil and groundwater samples.

1530 Leave Site.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Lynn P. Smith
Date: 11-14-01
Day: Wednesday

Project No.: 41729.01
Location: Bldgs. 3400, 3402
Client: NTC Great Lakes

Associate	Site	BRICK LAYER	CEMENT MASON	CARPENTER	DRILLER	ELECTRICIAN	LABORER	PAINTER	PLUMBER/ PIPE FITTER	POWER EQUIP. OPERATOR	TRUCK DRIVER	WELDER	ASBESTOS WORKER	Total

Supervisor	Site													Total
Lynn Smith	3400/3402													5.5
"	291/2													1.0
"	3114A													1.0

TolTest equipment used at site:

Item #	Description	Quantity
5004	Field Vehicle	1
	Dump truck	
	Backhoe	
	Excavator	
	Hoe-Ram	
	Compactor	
5005	PID (photoionization detector)	1
5006	LEL meter	
9100	Generator	
9103	Demo saw	
9104	Jack hammer	
9108	Air compressor	
9110	2" submersible pump	
	~~Nibbler~~ — Camera	1
	~~Power washer~~ GIS	1
	~~Rigid pipe threader/pipe stand~~ — Water Depth Indicator	1
	Walk-behind concrete saw	

Rental/Other
Equipment used at site: — Hours used:

Subcontractors on site: — Hours worked:
1) Terra Probe — 8
2)
3)
4)

Materials delivered to site:

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Cynn Smith
Project No.: 41729.01
Date: 11-14-01
Location: NTC 3400, 3402
Day: Thursday
Client: NTC Great Lakes

Events

Weather - 50's to mid 60's °F, mild wind, partly cloudy, morning rain

0815 - Arrive at Bldg 3400/3402. Begin drilling at Building 3400. No soil recovered from SB-1 (only gravel was recovered or nothing at all from 8-16') The gravel was wet and slid out of liner. No signs of petroleum impact observed in soil samples from TP-2 and TP-3.

0915 - Begin drilling at building 3402. No signs of impact observed in the soil samples.

1200 - Collect groundwater samples from TP-1, TP-2, and TP-3 at building 3400. Collect groundwater samples at Bldg 3402 from TP-2 and TP-1. TP-3 at Bldg 3402 was dry. No signs of impact observed in the groundwater samples.

1400 - Begin drilling at building 2912. No signs of petroleum impact observed in the soil samples. Only fill sand recovered from TP-3. No signs of impact in the fill sand. Groundwater samples were not collected; this will be done on 11-15-01.

1500 - Begin drilling at Building 3114A. No signs of petroleum impact observed in the soil samples. Groundwater Samples will be collected on Thursday.

1600 - Dump soil in drums at the trailer on base.

1700 - Arrive at Office.

TOLTEST, INC.

DAILY LABOR, EQUIPMENT, MATERIAL AND EVENT LOG

Field Supervisor: Tim Boos. Project No.: 41792.01
Date: 4/29/02 Location: Bldg 324
Day: Mon Client: NTC - Environmental

Events

9:30 Met Terra-Trace at Office Mob to site.
10:00 Started drilling SB2 in old tank farm area.
see boring logs.
Placed 1" well no water at completion of drilling, placed cone over well.
11:00 Started drilling SB1 to the west/south west of SB2
see boring log.
Placed 1" well no water at completion of drilling, placed cone over well.
12:30 Started drilling of SB3 to the southeast of SB2.
see boring log.
Placed 1" well, no water at completion of drilling, placed cone over well.

APPENDIX D

ANALYTICAL LABORATORY RESULTS

AND

CHAIN OF CUSTODY

AAC Trinity, Inc.
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331

May 10, 2002

Khush Mander
Toltest, Inc.
1000 Northpoint Blvd
Waukegan, IL 60085
TEL: (847) 689-0697
FAX (847) 689-0698

Project ID: 41792.01/NTC-324 Great Lakes Lab Order 02-1217

Dear Khush Mander,

AAC Trinity received 3 samples on 5/2/2002 for the analyses presented in the following report.

Sample analyses proceeded unremarkably unless a Case Narrative has been included with this report denoting specific problems encountered. Associated quality control data was within laboratory defined or method specified acceptance limits except as noted.

All samples were extracted and analyzed within the holding time recommended for the applicable method unless noted in the Case Narrative.

If you have any questions regarding these results, please feel free to call. (248) 848 9656

Thank you for using AAC Trinity laboratories for your analytical needs. We look forward to working with you on future projects.

Sincerely,

Charles O'Bryan
Director of Analytical Services

Becky Arndt, OH

AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Client Sample ID: SB1
Lab Order: 02-1217
Collection Date: 5/1/2002 8:31:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-01
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - EPA METHOD 245.1		**E245.1**				Analyst: **JMK**
Mercury	ND	0.20		µg/L	1	5/6/2002
METALS - EPA 6020 (TOTAL)		**EPA6020**				Analyst: **JMK**
Arsenic	2.0	5.0	J	µg/L	1	5/6/2002
Barium	140	100		µg/L	1	5/6/2002
Cadmium	ND	0.50		µg/L	1	5/6/2002
Chromium	3.0	5.0	J	µg/L	1	5/6/2002
Lead	ND	3.0		µg/L	1	5/6/2002
Selenium	ND	5.0		µg/L	1	5/6/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: **ZW**
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
1,2,4-Trimethylbenzene	1.2	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2-Dibromo-3-chloropropane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2-Dibromoethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
2,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
2-Butanone	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
2-Chloroethyl vinyl ether	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
2-Hexanone	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
2-Methylnaphthalene	56	5.0		µg/L	1	5/4/2002 9:26:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
4-Methyl-2-pentanone	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Acetone	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Acetonitrile	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Client Sample ID: SB1
Lab Order: 02-1217
Collection Date: 5/1/2002 8:31:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-01
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Acrylonitrile	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Benzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Bromobenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Bromochloromethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Bromoform	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Bromomethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Carbon Disulfide	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Carbon tetrachloride	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Chlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Chlorodibromomethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Chloroethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Chloroform	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Chloromethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
cis-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Dibromomethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Ethylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Iodomethane	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Methyl-tert-butyl-ether	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
n-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
n-Propylbenzene	1.6	1.0		µg/L	1	5/4/2002 9:26:00 AM
Naphthalene	6.2	5.0		µg/L	1	5/4/2002 9:26:00 AM
p-Isopropyltoluene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Styrene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Tetrachloroethene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Toluene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
trans-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Trichloroethene	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Vinyl acetate	ND	5.0		µg/L	1	5/4/2002 9:26:00 AM
Vinyl chloride	ND	1.0		µg/L	1	5/4/2002 9:26:00 AM
Xylenes (Total)	ND	3.0		µg/L	1	5/4/2002 9:26:00 AM
Surr: 4-Bromofluorobenzene	105	85.8-116		%REC	1	5/4/2002 9:26:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Lab Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-01

Client Sample ID: SB1
Collection Date: 5/1/2002 8:31:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	104	78.1-132		%REC	1	5/4/2002 9:26:00 AM
Surr: Toluene-d8	94.4	82-115		%REC	1	5/4/2002 9:26:00 AM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
1,2-Diphenylhydrazine	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
2,4-Dinitrotoluene	ND	20		µg/L	1	5/3/2002 4:38:00 PM
2,6-Dinitrotoluene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
2-Chloronaphthalene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
2-Nitroaniline	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
3,3'-Dichlorobenzidine	ND	20		µg/L	1	5/3/2002 4:38:00 PM
3,3'-Dimethylbenzidine	ND	20		µg/L	1	5/3/2002 4:38:00 PM
3-Nitroaniline	ND	20		µg/L	1	5/3/2002 4:38:00 PM
4-Bromophenyl-phenylether	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
4-Chloroaniline	ND	20		µg/L	1	5/3/2002 4:38:00 PM
4-Chlorophenyl phenylether	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
4-Nitroaniline	ND	20		µg/L	1	5/3/2002 4:38:00 PM
Acetophenone	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Aniline	ND	20		µg/L	1	5/3/2002 4:38:00 PM
Benzidine	ND	20		µg/L	1	5/3/2002 4:38:00 PM
Benzoic acid	ND	50		µg/L	1	5/3/2002 4:38:00 PM
Benzyl alcohol	ND	50		µg/L	1	5/3/2002 4:38:00 PM
Bis (2-chloroethoxy) methane	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Bis (2-chloroethyl) ether	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Bis (2-chloroisopropyl) ether	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Bis (2-ethylhexyl) phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Butyl benzyl phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Carbazole	ND	10		µg/L	1	5/3/2002 4:38:00 PM
Di-n-butyl phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Di-n-octyl phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Dibenzofuran	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Diethyl phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Dimethyl phthalate	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Diphenylamine	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Hexachlorobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Hexachlorocyclopentadiene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Hexachloroethane	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Isophorone	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc. **Client Sample ID:** SB1
Lab Order: 02-1217 **Collection Date:** 5/1/2002 8:31:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-01 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
N-Nitroso-di-n-propylamine	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
N-Nitrosodimethylamine	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
N-Nitrosodiphenylamine	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Nitrobenzene	ND	5.0		µg/L	1	5/3/2002 4:38:00 PM
Pentachlorophenol	ND	20		µg/L	1	5/3/2002 4:38:00 PM
Pyridine	ND	20		µg/L	1	5/3/2002 4:38:00 PM
Surr: 1,2-Dichlorobenzene-d4	65.7	10-150		%REC	1	5/3/2002 4:38:00 PM
Surr: 2,4,6-Tribromophenol	56.8	10-131		%REC	1	5/3/2002 4:38:00 PM
Surr: 2-Chlorophenol-d4	51.1	10-150		%REC	1	5/3/2002 4:38:00 PM
Surr: 2-Fluorobiphenyl	78.2	33.9-128		%REC	1	5/3/2002 4:38:00 PM
Surr: 2-Fluorophenol	20.1	10-63.1		%REC	1	5/3/2002 4:38:00 PM
Surr: 4-Terphenyl-d14	83.9	47-139		%REC	1	5/3/2002 4:38:00 PM
Surr: Nitrobenzene-d5	59.9	33.8-115		%REC	1	5/3/2002 4:38:00 PM
Surr: Phenol-d6	9.71	10-60.7	S	%REC	1	5/3/2002 4:38:00 PM
POLYNUCLEAR AROMATIC HYDROCARBONS	**SW8310**					Analyst: **MB**
2-Methylnaphthalene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Acenaphthene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Acenaphthylene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Anthracene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Benz (a) anthracene	ND	0.13		µg/L	1	5/9/2002 2:03:09 PM
Benzo (a) pyrene	ND	0.20		µg/L	1	5/9/2002 2:03:09 PM
Benzo (g,h,i) perylene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Benzo (k) fluoranthene	ND	0.17		µg/L	1	5/9/2002 2:03:09 PM
Benzo(b)fluoranthene	ND	0.18		µg/L	1	5/9/2002 2:03:09 PM
Chrysene	ND	1.5		µg/L	1	5/9/2002 2:03:09 PM
Dibenz (a,h) anthracene	ND	0.30		µg/L	1	5/9/2002 2:03:09 PM
Fluoranthene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Fluorene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Indeno (1,2,3-cd) pyrene	ND	0.43		µg/L	1	5/9/2002 2:03:09 PM
Naphthalene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Phenanthrene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Pyrene	ND	2.0		µg/L	1	5/9/2002 2:03:09 PM
Surr: p-Terphenyl	83.3	71.9-113		%REC	1	5/9/2002 2:03:09 PM

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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *10-May-02*

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB2
Lab Order:	02-1217	**Collection Date:**	5/1/2002 8:50:00 AM
Project:	41792.01/NTC-324 Great Lakes		
Lab ID:	02-1217-02	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - EPA METHOD 245.1		**E245.1**				Analyst: **JMK**
Mercury	ND	0.20		µg/L	1	5/6/2002
METALS - EPA 6020 (TOTAL)		**EPA6020**				Analyst: **JMK**
Arsenic	6.5	5.0		µg/L	1	5/6/2002
Barium	580	100		µg/L	1	5/6/2002
Cadmium	ND	0.50		µg/L	1	5/6/2002
Chromium	7.6	5.0		µg/L	1	5/6/2002
Lead	18	3.0		µg/L	1	5/6/2002
Selenium	ND	5.0		µg/L	1	5/6/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: **ZW**
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2-Dibromo-3-chloropropane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2-Dibromoethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
2,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
2-Butanone	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
2-Chloroethyl vinyl ether	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
2-Hexanone	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
2-Methylnaphthalene	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
4-Methyl-2-pentanone	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Acetone	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Acetonitrile	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM

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AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Client Sample ID: SB2
Lab Order: 02-1217
Collection Date: 5/1/2002 8:50:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-02
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Acrylonitrile	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Benzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Bromobenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Bromochloromethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Bromoform	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Bromomethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Carbon Disulfide	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Carbon tetrachloride	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Chlorobenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Chlorodibromomethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Chloroethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Chloroform	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Chloromethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
cis-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Dibromomethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Ethylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Iodomethane	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Methyl-tert-butyl-ether	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
n-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Naphthalene	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
p-Isopropyltoluene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Styrene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Tetrachloroethene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Toluene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
trans-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Trichloroethene	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Vinyl acetate	ND	5.0		µg/L	1	5/4/2002 9:54:00 AM
Vinyl chloride	ND	1.0		µg/L	1	5/4/2002 9:54:00 AM
Xylenes (Total)	ND	3.0		µg/L	1	5/4/2002 9:54:00 AM
Surr: 4-Bromofluorobenzene	109	85.8-116		%REC	1	5/4/2002 9:54:00 AM

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E - Value above quantitation range
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AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Client Sample ID: SB2
Lab Order: 02-1217
Collection Date: 5/1/2002 8:50:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-02
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	102	78.1-132		%REC	1	5/4/2002 9:54:00 AM
Surr: Toluene-d8	92.4	82-115		%REC	1	5/4/2002 9:54:00 AM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
1,2-Diphenylhydrazine	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
2,4-Dinitrotoluene	ND	20		µg/L	1	5/4/2002 6:32:00 AM
2,6-Dinitrotoluene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
2-Chloronaphthalene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
2-Nitroaniline	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
3,3'-Dichlorobenzidine	ND	20		µg/L	1	5/4/2002 6:32:00 AM
3,3'-Dimethylbenzidine	ND	20		µg/L	1	5/4/2002 6:32:00 AM
3-Nitroaniline	ND	20		µg/L	1	5/4/2002 6:32:00 AM
4-Bromophenyl-phenylether	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
4-Chloroaniline	ND	20		µg/L	1	5/4/2002 6:32:00 AM
4-Chlorophenyl phenylether	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
4-Nitroaniline	ND	20		µg/L	1	5/4/2002 6:32:00 AM
Acetophenone	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Aniline	ND	20		µg/L	1	5/4/2002 6:32:00 AM
Benzidine	ND	20		µg/L	1	5/4/2002 6:32:00 AM
Benzoic acid	ND	50		µg/L	1	5/4/2002 6:32:00 AM
Benzyl alcohol	ND	50		µg/L	1	5/4/2002 6:32:00 AM
Bis (2-chloroethoxy) methane	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Bis (2-chloroethyl) ether	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Bis (2-chloroisopropyl) ether	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Bis (2-ethylhexyl) phthalate	5.0	5.0	J	µg/L	1	5/4/2002 6:32:00 AM
Butyl benzyl phthalate	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Carbazole	6.0	10	J	µg/L	1	5/4/2002 6:32:00 AM
Di-n-butyl phthalate	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Di-n-octyl phthalate	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Dibenzofuran	13	5.0		µg/L	1	5/4/2002 6:32:00 AM
Diethyl phthalate	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Dimethyl phthalate	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Diphenylamine	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Hexachlorobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Hexachlorocyclopentadiene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Hexachloroethane	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Isophorone	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc. **Client Sample ID:** SB2
Lab Order: 02-1217 **Collection Date:** 5/1/2002 8:50:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-02 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
N-Nitroso-di-n-propylamine	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
N-Nitrosodimethylamine	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
N-Nitrosodiphenylamine	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Nitrobenzene	ND	5.0		µg/L	1	5/4/2002 6:32:00 AM
Pentachlorophenol	ND	20		µg/L	1	5/4/2002 6:32:00 AM
Pyridine	ND	20		µg/L	1	5/4/2002 6:32:00 AM
Surr: 1,2-Dichlorobenzene-d4	67.2	10-150		%REC	1	5/4/2002 6:32:00 AM
Surr: 2,4,6-Tribromophenol	73.8	10-131		%REC	1	5/4/2002 6:32:00 AM
Surr: 2-Chlorophenol-d4	62.0	10-150		%REC	1	5/4/2002 6:32:00 AM
Surr: 2-Fluorobiphenyl	87.3	33.9-128		%REC	1	5/4/2002 6:32:00 AM
Surr: 2-Fluorophenol	24.4	10-63.1		%REC	1	5/4/2002 6:32:00 AM
Surr: 4-Terphenyl-d14	80.8	47-139		%REC	1	5/4/2002 6:32:00 AM
Surr: Nitrobenzene-d5	68.2	33.8-115		%REC	1	5/4/2002 6:32:00 AM
Surr: Phenol-d6	16.8	10-60.7		%REC	1	5/4/2002 6:32:00 AM
POLYNUCLEAR AROMATIC HYDROCARBONS	**SW8310**					Analyst: **MB**
2-Methylnaphthalene	84	2.0		µg/L	1	5/9/2002 2:49:59 PM
Acenaphthene	ND	2.0		µg/L	1	5/9/2002 2:49:59 PM
Acenaphthylene	ND	2.0		µg/L	1	5/9/2002 2:49:59 PM
Anthracene	18	2.0		µg/L	1	5/9/2002 2:49:59 PM
Benz (a) anthracene	45	0.13		µg/L	1	5/9/2002 2:49:59 PM
Benzo (a) pyrene	6.1	0.20		µg/L	1	5/9/2002 2:49:59 PM
Benzo (g,h,i) perylene	6.1	2.0		µg/L	1	5/9/2002 2:49:59 PM
Benzo (k) fluoranthene	5.9	0.17		µg/L	1	5/9/2002 2:49:59 PM
Benzo(b)fluoranthene	4.2	0.18		µg/L	1	5/9/2002 2:49:59 PM
Chrysene	36	1.5		µg/L	1	5/9/2002 2:49:59 PM
Dibenz (a,h) anthracene	7.7	0.30		µg/L	1	5/9/2002 2:49:59 PM
Fluoranthene	48	2.0		µg/L	1	5/9/2002 2:49:59 PM
Fluorene	28	2.0		µg/L	1	5/9/2002 2:49:59 PM
Indeno (1,2,3-cd) pyrene	7.9	0.43		µg/L	1	5/9/2002 2:49:59 PM
Naphthalene	14	2.0		µg/L	1	5/9/2002 2:49:59 PM
Phenanthrene	95	2.0		µg/L	1	5/9/2002 2:49:59 PM
Pyrene	41	2.0		µg/L	1	5/9/2002 2:49:59 PM
Surr: p-Terphenyl	62.8	71.9-113	S	%REC	1	5/9/2002 2:49:59 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *10-May-02*

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB3
Lab Order:	02-1217	**Collection Date:**	5/1/2002 9:12:00 AM
Project:	41792.01/NTC-324 Great Lakes		
Lab ID:	02-1217-03	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY - EPA METHOD 245.1		**E245.1**				Analyst: **JMK**
Mercury	ND	0.20		µg/L	1	5/6/2002
METALS - EPA 6020 (TOTAL)		**EPA6020**				Analyst: **JMK**
Arsenic	2.0	5.0	J	µg/L	1	5/6/2002
Barium	350	100		µg/L	1	5/6/2002
Cadmium	ND	0.50		µg/L	1	5/6/2002
Chromium	3.0	5.0	J	µg/L	1	5/6/2002
Lead	ND	3.0		µg/L	1	5/6/2002
Selenium	ND	5.0		µg/L	1	5/6/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: **ZW**
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2-Dibromo-3-chloropropane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2-Dibromoethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2-Dichloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
2,2-Dichloropropane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
2-Butanone	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
2-Chloroethyl vinyl ether	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
2-Hexanone	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
2-Methylnaphthalene	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
4-Methyl-2-pentanone	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Acetone	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Acetonitrile	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quanititation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- RL - Reporting Limit if used

AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Client Sample ID: SB3
Lab Order: 02-1217
Collection Date: 5/1/2002 9:12:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-03
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Acrylonitrile	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Benzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Bromobenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Bromochloromethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Bromoform	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Bromomethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Carbon Disulfide	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Carbon tetrachloride	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Chlorobenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Chlorodibromomethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Chloroethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Chloroform	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Chloromethane	1.8	1.0		µg/L	1	5/4/2002 10:21:00 AM
cis-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Dibromomethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Ethylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Iodomethane	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Methyl-tert-butyl-ether	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Methylene chloride	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
n-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Naphthalene	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
p-Isopropyltoluene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Styrene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Tetrachloroethene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Toluene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
trans-1,2-Dichloroethene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Trichloroethene	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Vinyl acetate	ND	5.0		µg/L	1	5/4/2002 10:21:00 AM
Vinyl chloride	ND	1.0		µg/L	1	5/4/2002 10:21:00 AM
Xylenes (Total)	ND	3.0		µg/L	1	5/4/2002 10:21:00 AM
Surr: 4-Bromofluorobenzene	110	85.8-116		%REC	1	5/4/2002 10:21:00 AM

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CLIENT: Toltest, Inc.
Lab Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-03

Client Sample ID: SB3
Collection Date: 5/1/2002 9:12:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	101	78.1-132		%REC	1	5/4/2002 10:21:00 AM
Surr: Toluene-d8	92.9	82-115		%REC	1	5/4/2002 10:21:00 AM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
1,2-Diphenylhydrazine	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
2,4-Dinitrotoluene	ND	20		µg/L	1	5/3/2002 5:25:00 PM
2,6-Dinitrotoluene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
2-Chloronaphthalene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
2-Nitroaniline	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
3,3'-Dichlorobenzidine	ND	20		µg/L	1	5/3/2002 5:25:00 PM
3,3'-Dimethylbenzidine	ND	20		µg/L	1	5/3/2002 5:25:00 PM
3-Nitroaniline	ND	20		µg/L	1	5/3/2002 5:25:00 PM
4-Bromophenyl-phenylether	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
4-Chloroaniline	ND	20		µg/L	1	5/3/2002 5:25:00 PM
4-Chlorophenyl phenylether	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
4-Nitroaniline	ND	20		µg/L	1	5/3/2002 5:25:00 PM
Acetophenone	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Aniline	ND	20		µg/L	1	5/3/2002 5:25:00 PM
Benzidine	ND	20		µg/L	1	5/3/2002 5:25:00 PM
Benzoic acid	ND	50		µg/L	1	5/3/2002 5:25:00 PM
Benzyl alcohol	ND	50		µg/L	1	5/3/2002 5:25:00 PM
Bis (2-chloroethoxy) methane	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Bis (2-chloroethyl) ether	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Bis (2-chloroisopropyl) ether	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Bis (2-ethylhexyl) phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Butyl benzyl phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Carbazole	ND	10		µg/L	1	5/3/2002 5:25:00 PM
Di-n-butyl phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Di-n-octyl phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Dibenzofuran	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Diethyl phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Dimethyl phthalate	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Diphenylamine	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Hexachlorobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Hexachlorobutadiene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Hexachlorocyclopentadiene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Hexachloroethane	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Isophorone	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM

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CLIENT: Toltest, Inc. **Client Sample ID:** SB3
Lab Order: 02-1217 **Collection Date:** 5/1/2002 9:12:00 AM
Project: 41792.01/NTC-324 Great Lakes
Lab ID: 02-1217-03 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
N-Nitroso-di-n-propylamine	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
N-Nitrosodimethylamine	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
N-Nitrosodiphenylamine	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Nitrobenzene	ND	5.0		µg/L	1	5/3/2002 5:25:00 PM
Pentachlorophenol	ND	20		µg/L	1	5/3/2002 5:25:00 PM
Pyridine	ND	20		µg/L	1	5/3/2002 5:25:00 PM
Surr: 1,2-Dichlorobenzene-d4	75.8	10-150		%REC	1	5/3/2002 5:25:00 PM
Surr: 2,4,6-Tribromophenol	63.8	10-131		%REC	1	5/3/2002 5:25:00 PM
Surr: 2-Chlorophenol-d4	61.4	10-150		%REC	1	5/3/2002 5:25:00 PM
Surr: 2-Fluorobiphenyl	90.4	33.9-128		%REC	1	5/3/2002 5:25:00 PM
Surr: 2-Fluorophenol	25.9	10-63.1		%REC	1	5/3/2002 5:25:00 PM
Surr: 4-Terphenyl-d14	92.6	47-139		%REC	1	5/3/2002 5:25:00 PM
Surr: Nitrobenzene-d5	61.7	33.8-115		%REC	1	5/3/2002 5:25:00 PM
Surr: Phenol-d6	13.2	10-60.7		%REC	1	5/3/2002 5:25:00 PM
POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8310**				Analyst: **MB**
2-Methylnaphthalene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Acenaphthene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Acenaphthylene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Anthracene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Benz (à) anthracene	ND	0.13		µg/L	1	5/9/2002 2:26:34 PM
Benzo (a) pyrene	ND	0.20		µg/L	1	5/9/2002 2:26:34 PM
Benzo (g,h,i) perylene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Benzo (k) fluoranthene	ND	0.17		µg/L	1	5/9/2002 2:26:34 PM
Benzo(b)fluoranthene	ND	0.18		µg/L	1	5/9/2002 2:26:34 PM
Chrysene	ND	1.5		µg/L	1	5/9/2002 2:26:34 PM
Dibenz (a,h) anthracene	ND	0.30		µg/L	1	5/9/2002 2:26:34 PM
Fluoranthene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Fluorene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Indeno (1,2,3-cd) pyrene	ND	0.43		µg/L	1	5/9/2002 2:26:34 PM
Naphthalene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Phenanthrene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Pyrene	ND	2.0		µg/L	1	5/9/2002 2:26:34 PM
Surr: p-Terphenyl	90.5	71.9-113		%REC	1	5/9/2002 2:26:34 PM

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CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mb**	Batch ID: **R21001**	Test Code: **SW7470**	Units: **mg/L**		Analysis Date **5/6/2002**			Prep Date:			
Client ID:		Run ID: **AA2_020506A**			SeqNo: **267486**						
Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.002									

Qualifiers:
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CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mb-5650** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506C** SeqNo: **267445**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	5									
Barium	ND	100									
Cadmium	ND	0.5									
Chromium	ND	5									
Lead	ND	3									
Selenium	ND	5									

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CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mb** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **AA2_020506A** SeqNo: **267523**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.2									

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ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mblk** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/L** Analysis Date **5/4/2002 2:03:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267207**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1,2,2-Tetrachloroethane	ND	1									
1,1,2-Trichloroethane	ND	1									
1,1-Dichloroethane	ND	1									
1,1-Dichloroethene	ND	1									
1,1-Dichloropropene	ND	1									
1,2,3-Trichlorobenzene	ND	5									
1,2,3-Trichloropropane	ND	1									
1,2,4-Trichlorobenzene	ND	5									
1,2,4-Trimethylbenzene	ND	1									
1,2-Dibromo-3-chloropropane	ND	1									
1,2-Dibromoethane	ND	1									
1,2-Dichlorobenzene	ND	1									
1,2-Dichloroethane	ND	1									
1,2-Dichloropropane	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,3-Dichloropropane	ND	1									
1,4-Dichlorobenzene	ND	1									
2,2-Dichloropropane	ND	1									
2-Butanone	ND	5									
2-Chloroethyl vinyl ether	ND	5									
2-Chlorotoluene	ND	1									
2-Hexanone	ND	1									
2-Methylnaphthalene	ND	5									
4-Chlorotoluene	ND	1									
4-Methyl-2-pentanone	ND	5									

Qualifiers:
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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Acetone	ND	5	
Acetonitrile	ND	5	
Acrolein (Propenal)	ND	5	
Acrylonitrile	ND	5	
Benzene	ND	1	
Bromobenzene	ND	1	
Bromochloromethane	ND	1	
Bromodichloromethane	ND	1	
Bromoform	ND	1	
Bromomethane	ND	1	
Carbon Disulfide	ND	5	
Carbon tetrachloride	ND	1	
Chlorobenzene	ND	1	
Chlorodibromomethane	ND	1	
Chloroethane	ND	1	
Chloroform	ND	1	
Chloromethane	ND	1	
cis-1,2-Dichloroethene	ND	1	
cis-1,3-Dichloropropene	ND	1	
Dibromomethane	ND	1	
Dichlorodifluoromethane	ND	1	
Ethylbenzene	ND	1	
Hexachlorobutadiene	ND	5	
Iodomethane	ND	5	
Isopropylbenzene	ND	1	
Methyl-tert-butyl-ether	ND	5	
Methylene chloride	3.22	5	J
n-Butylbenzene	ND	1	
n-Propylbenzene	ND	1	
Naphthalene	ND	5	
p-Isopropyltoluene	ND	1	
sec-Butylbenzene	ND	1	
Styrene	ND	1	

Qualifiers:
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J - Analyte detected below quantitation limits
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B - Analyte detected in the associated Method Blank

tert-Butylbenzene	ND	1						
Tetrachloroethene	ND	1						
Toluene	ND	1						
trans-1,2-Dichloroethene	ND	1						
trans-1,3-Dichloropropene	ND	1						
Trichloroethene	ND	1						
Trichlorofluoromethane	ND	1						
Vinyl acetate	ND	5						
Vinyl chloride	ND	1						
Xylenes (Total)	ND	3						
1,4-Dichlorobenzene-d4	50	0						
1,4-Difluorobenzene	50	0						
Pentafluorobenzene	50	0						
Surr: 4-Bromofluorobenzene	50.81	1	50	0	102	85.8	116	0
Surr: Dibromofluoromethane	47.72	1	50	0	95.4	78.1	132	0
Surr: Toluene-d8	46.72	1	50	0	93.4	82	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mblk** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/4/2002 7:37:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267206**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1,2,2-Tetrachloroethane	ND	1									
1,1,2-Trichloroethane	ND	1									
1,1-Dichloroethane	ND	1									
1,1-Dichloroethene	ND	1									
1,1-Dichloropropene	ND	1									
1,2,3-Trichlorobenzene	ND	5									
1,2,3-Trichloropropane	ND	1									
1,2,4-Trichlorobenzene	ND	5									
1,2,4-Trimethylbenzene	ND	1									
1,2-Dibromo-3-chloropropane	ND	1									
1,2-Dibromoethane	ND	1									
1,2-Dichlorobenzene	ND	1									
1,2-Dichloroethane	ND	1									
1,2-Dichloropropane	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,3-Dichloropropane	ND	1									
1,4-Dichlorobenzene	ND	1									
2,2-Dichloropropane	ND	1									
2-Butanone	ND	5									
2-Chloroethyl vinyl ether	ND	5									
2-Chlorotoluene	ND	1									
2-Hexanone	ND	1									
2-Methylnaphthalene	ND	5									
4-Chlorotoluene	ND	1									
4-Methyl-2-pentanone	ND	5									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Acetone	ND	5	
Acetonitrile	ND	5	
Acrolein (Propenal)	ND	5	
Acrylonitrile	ND	5	
Benzene	ND	1	
Bromobenzene	ND	1	
Bromochloromethane	ND	1	
Bromodichloromethane	ND	1	
Bromoform	ND	1	
Bromomethane	ND	1	
Carbon Disulfide	ND	5	
Carbon tetrachloride	ND	1	
Chlorobenzene	ND	1	
Chlorodibromomethane	ND	1	
Chloroethane	ND	1	
Chloroform	ND	1	
Chloromethane	ND	1	
cis-1,2-Dichloroethene	ND	1	
cis-1,3-Dichloropropene	ND	1	
Dibromomethane	ND	1	
Dichlorodifluoromethane	ND	1	
Diethyl ether	ND	5	
Ethylbenzene	ND	1	
Hexachlorobutadiene	ND	5	
Iodomethane	ND	5	
Isopropylbenzene	ND	1	
Methyl-tert-butyl-ether	ND	5	
Methylene chloride	2.82	5	J
n-Butylbenzene	ND	1	
n-Propylbenzene	ND	1	
Naphthalene	ND	5	
p-Isopropyltoluene	ND	1	
sec-Butylbenzene	ND	1	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Styrene	ND	1						
tert-Butylbenzene	ND	1						
Tetrachloroethene	ND	1						
Toluene	ND	1						
trans-1,2-Dichloroethene	ND	1						
trans-1,3-Dichloropropene	ND	1						
Trichloroethene	ND	1						
Trichlorofluoromethane	ND	1						
Vinyl acetate	ND	5						
Vinyl chloride	ND	1						
Xylenes (Total)	ND	3						
1,4-Dichlorobenzene-d4	50	0						
1,4-Difluorobenzene	50	0						
Pentafluorobenzene	50	0						
m,p-xylene	ND	2						
o-Xylene	ND	1						
Surr: 4-Bromofluorobenzene	54.62	1	50	0	109	90.1	114	0
Surr: Dibromofluoromethane	49.73	1	50	0	99.4	66.3	124	0
Surr: Toluene-d8	46.74	1	50	0	93.5	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5646** Batch ID: **5646** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/3/2002 3:51:00 PM** Prep Date: **5/3/2002**
Client ID: Run ID: **MSHPSEMI 01_020503** SeqNo: **267139**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5									
1,2-Dichlorobenzene	ND	5									
1,2-Diphenylhydrazine	ND	5									
1,3-Dichlorobenzene	ND	5									
1,4-Dichlorobenzene	ND	5									
2,4-Dinitrotoluene	ND	20									
2,6-Dinitrotoluene	ND	5									
2-Chloronaphthalene	ND	5									
2-Nitroaniline	ND	5									
3,3'-Dichlorobenzidine	ND	20									
3,3'-Dimethylbenzidine	ND	20									
3-Nitroaniline	ND	20									
4-Bromophenyl-phenylether	ND	5									
4-Chloroaniline	ND	20									
4-Chlorophenyl phenylether	ND	5									
4-Nitroaniline	ND	20									
Acetophenone	ND	5									
Aniline	ND	20									
Benzidine	ND	20									
Benzoic acid	ND	50									
Benzyl alcohol	ND	50									
Bis (2-chloroethoxy) methane	ND	5									
Bis (2-chloroethyl) ether	ND	5									
Bis (2-chloroisopropyl) ether	ND	5									
Bis (2-ethylhexyl) phthalate	ND	5									
Butyl benzyl phthalate	ND	5									
Carbazole	ND	10									
Di-n-butyl phthalate	ND	5									

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Di-n-octyl phthalate	ND	5						
Dibenzofuran	ND	5						
Diethyl phthalate	ND	5						
Dimethyl phthalate	ND	5						
Diphenylamine	ND	5						
Hexachlorobenzene	ND	5						
Hexachlorobutadiene	ND	5						
Hexachlorocyclopentadiene	ND	5						
Hexachloroethane	ND	5						
Isophorone	ND	5						
N-Nitroso-di-n-propylamine	ND	5						
N-Nitrosodimethylamine	ND	5						
N-Nitrosodiphenylamine	ND	5						
Nitrobenzene	ND	5						
Pentachlorophenol	ND	20						
Pyridine	ND	20						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 1,2-Dichlorobenzene-d4	41.78	5	50	0	83.6	10	150	0
Surr: 2,4,6-Tribromophenol	55.3	5	75	0	73.7	10	131	0
Surr: 2-Chlorophenol-d4	51.96	5	75	0	69.3	10	150	0
Surr: 2-Fluorobiphenyl	49.76	5	50	0	99.5	33.9	128	0
Surr: 2-Fluorophenol	21.98	5	75	0	29.3	10	63.1	0
Surr: 4-Terphenyl-d14	52.32	5	50	0	105	47	139	0
Surr: Nitrobenzene-d5	36.96	5	50	0	73.9	33.8	115	0
Surr: Phenol-d6	11.86	5	75	0	15.8	10	60.7	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Method Blank

Sample ID **mb-5657** Batch ID: **5657** Test Code: **SW8310** Units: **µg/L** Analysis Date **5/9/2002 1:39:46 PM** Prep Date: **5/3/2002**
Client ID: Run ID: **LC1_020508E** SeqNo: **268690**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	2									
Acenaphthene	ND	2									
Acenaphthylene	ND	2									
Anthracene	ND	2									
Benz (a) anthracene	ND	0.13									
Benzo (a) pyrene	ND	0.2									
Benzo (g,h,i) perylene	ND	2									
Benzo (k) fluoranthene	ND	0.17									
Benzo(b)fluoranthene	ND	0.18									
Chrysene	ND	1.5									
Dibenz (a,h) anthracene	ND	0.3									
Fluoranthene	ND	2									
Fluorene	ND	2									
Indeno (1,2,3-cd) pyrene	ND	0.43									
Naphthalene	ND	2									
Phenanthrene	ND	2									
Pyrene	ND	2									
Surr: p-Terphenyl	50.35	0	50	0	101	71.9	113	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1206-01Ams**	Batch ID: **R21001**	Test Code: **SW7470**	Units: **mg/L**	Analysis Date **5/6/2002**	Prep Date:
Client ID:		Run ID: **AA2_020506A**		SeqNo: **267491**	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00179	0.0002	0.002	0	89.5	75	125	0			

Sample ID **02-1206-01Amsd**	Batch ID: **R21001**	Test Code: **SW7470**	Units: **mg/L**	Analysis Date **5/6/2002**	Prep Date:
Client ID:		Run ID: **AA2_020506A**		SeqNo: **267492**	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0018	0.0002	0.002	0	90	75	125	0.00179	0.557	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1211-02Cms** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506C** SeqNo: **267450**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	114	5	100	20	94	75	125	0			
Barium	668	100	200	196	236	75	125	0			S
Cadmium	49	0.5	50	1.47	95.1	75	125	0			
Chromium	190	5	200	5.5	92.2	75	125	0			
Lead	118	3	100	3.2	115	75	125	0			
Selenium	50	5	50	0	100	75	125	0			

Sample ID **02-1211-02Cmsd** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506C** SeqNo: **267451**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	134	5	100	20	114	75	125	114	16.1	20	
Barium	674	100	500	196	95.6	75	125	668	0.894	20	
Cadmium	56	0.5	50	1.47	109	75	125	49	13.3	20	
Chromium	224	5	200	5.5	109	75	125	190	16.4	20	
Lead	126	3	100	3.2	123	75	125	118	6.56	20	
Selenium	56	5	50	0	112	75	125	50	11.3	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID 02-1211-02Dms	Batch ID: R21001	Test Code: EPA7470	Units: µg/L	Analysis Date 5/6/2002	Prep Date:
Client ID:		Run ID: AA2_020506A		SeqNo: 267511	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.78	0.2	2	0	89	75	125	0			

Sample ID 02-1211-02Dmsd	Batch ID: R21001	Test Code: EPA7470	Units: µg/L	Analysis Date 5/6/2002	Prep Date:
Client ID:		Run ID: AA2_020506A		SeqNo: 267512	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.8	0.2	2	0	90	75	125	1.78	1.12	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1225-03AMS** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/4/2002 5:47:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267208**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	895.5	50	1000	0	89.6	70	130	0			
1,1,1-Trichloroethane	903.5	50	1000	0	90.4	70	130	0			
1,1,2,2-Tetrachloroethane	381.5	50	1000	0	38.2	70	130	0			S
1,1,2-Trichloroethane	802.5	50	1000	0	80.2	70	130	0			
1,1-Dichloroethane	1023	50	1000	0	102	70	130	0			
1,1-Dichloroethene	760.5	50	1000	0	76	70	130	0			
1,1-Dichloropropene	1134	50	1000	0	113	70	130	0			
1,2,3-Trichlorobenzene	717	250	1000	0	71.7	70	130	0			
1,2,3-Trichloropropane	836	50	1000	0	83.6	70	130	0			
1,2,4-Trichlorobenzene	1141	250	1000	0	114	70	130	0			
1,2,4-Trimethylbenzene	918.5	50	1000	0	91.8	70	130	0			
1,2-Dibromo-3-chloropropane	950.5	50	1000	0	95	70	130	0			
1,2-Dibromoethane	881	50	1000	0	88.1	70	130	0			
1,2-Dichlorobenzene	864	50	1000	0	86.4	70	130	0			
1,2-Dichloroethane	913	50	1000	0	91.3	70	130	0			
1,2-Dichloropropane	830	50	1000	0	83	70	130	0			
1,3,5-Trimethylbenzene	907	50	1000	0	90.7	70	130	0			
1,3-Dichlorobenzene	899	50	1000	0	89.9	70	130	0			
1,3-Dichloropropane	818.5	50	1000	0	81.8	70	130	0			
1,4-Dichlorobenzene	854	50	1000	0	85.4	70	130	0			
2,2-Dichloropropane	867.5	50	1000	0	86.8	70	130	0			
2-Butanone	1170	250	1000	0	117	70	130	0			
2-Chloroethyl vinyl ether	1136	250	1000	0	114	70	130	0			
2-Chlorotoluene	884.5	50	1000	0	88.4	70	130	0			
2-Hexanone	1040	50	1000	0	104	70	130	0			
2-Methylnaphthalene	1078	250	1000	0	108	70	130	0			
4-Chlorotoluene	894	50	1000	0	89.4	70	130	0			
4-Methyl-2-pentanone	1050	250	1000	0	105	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Acetone	1050	250	1000	0	105	70	130	0	
Acrylonitrile	1133	250	1000	0	113	70	130	0	
Benzene	884	50	1000	0	88.4	70	130	0	
Bromobenzene	896	50	1000	0	89.6	70	130	0	
Bromochloromethane	867	50	1000	0	86.7	70	130	0	
Bromodichloromethane	806.5	50	1000	0	80.6	70	130	0	
Bromoform	449.5	50	1000	0	45	70	130	0	S
Bromomethane	903	50	1000	0	90.3	70	130	0	
Carbon Disulfide	978.5	250	1000	0	97.8	70	130	0	
Carbon tetrachloride	828	50	1000	0	82.8	70	130	0	
Chlorobenzene	858	50	1000	0	85.8	70	130	0	
Chlorodibromomethane	581	50	1000	0	58.1	70	130	0	S
Chloroethane	837	50	1000	0	83.7	70	130	0	
Chloroform	1196	50	1000	0	120	70	130	0	
Chloromethane	1076	50	1000	0	108	70	130	0	
cis-1,2-Dichloroethene	1114	50	1000	0	111	70	130	0	
cis-1,3-Dichloropropene	990	50	1000	0	99	70	130	0	
Dibromomethane	826	50	1000	0	82.6	70	130	0	
Dichlorodifluoromethane	1011	50	1000	0	101	70	130	0	
Diethyl ether	1186	250	1000	0	119	70	130	0	
Ethylbenzene	855	50	1000	0	85.5	70	130	0	
Hexachlorobutadiene	809	250	1000	0	80.9	70	130	0	
Isopropylbenzene	942	50	1000	0	94.2	70	130	0	
Methyl-tert-butyl-ether	1184	250	1000	0	118	70	130	0	
Methylene chloride	1044	250	1000	275.5	76.9	70	130	0	
n-Butylbenzene	831.5	50	1000	0	83.2	70	130	0	
n-Propylbenzene	958.5	50	1000	0	95.8	70	130	0	
Naphthalene	825	250	1000	0	82.5	70	130	0	
p-Isopropyltoluene	915.5	50	1000	0	91.5	70	130	0	
sec-Butylbenzene	913.5	50	1000	0	91.4	70	130	0	
Styrene	863	50	1000	0	86.3	70	130	0	
tert-Butylbenzene	847.5	50	1000	0	84.8	70	130	0	
Tetrachloroethene	1174	50	1000	0	117	70	130	0	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike

Toluene	841.5	50	1000	0	84.1	70	130	0
trans-1,2-Dichloroethene	831.5	50	1000	0	83.2	70	130	0
trans-1,3-Dichloropropene	867	50	1000	0	86.7	70	130	0
Trichloroethene	1189	50	1000	0	119	70	130	0
Trichlorofluoromethane	967	50	1000	0	96.7	70	130	0
Vinyl chloride	1198	50	1000	0	120	70	130	0
Xylenes (Total)	2680	150	3000	0	89.4	70	130	0
m,p-xylene	1816	100	2000	0	90.8	70	130	0
o-Xylene	864	50	1000	0	86.4	70	130	0
Surr: 4-Bromofluorobenzene	2484	50	2500	0	99.4	90.1	114	0
Surr: Dibromofluoromethane	2379	50	2500	0	95.2	66.3	124	0
Surr: Toluene-d8	2360	50	2500	0	94.4	83.2	115	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **02-1225-03AMSD** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/4/2002 6:15:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267209**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	887.5	50	1000	0	88.8	70	130	895.5	0.897	25	
1,1,1-Trichloroethane	888.5	50	1000	0	88.8	70	130	903.5	1.67	25	
1,1,2,2-Tetrachloroethane	839.5	50	1000	0	84	70	130	381.5	75	25	R
1,1,2-Trichloroethane	908	50	1000	0	90.8	70	130	802.5	12.3	25	
1,1-Dichloroethane	935.5	50	1000	0	93.6	70	130	1023	8.94	25	
1,1-Dichloroethene	918	50	1000	0	91.8	70	130	760.5	18.8	25	
1,1-Dichloropropene	955.5	50	1000	0	95.6	70	130	1134	17	25	
1,2,3-Trichlorobenzene	828	250	1000	0	82.8	70	130	717	14.4	25	
1,2,3-Trichloropropane	1000	50	1000	0	100	70	130	836	17.9	25	
1,2,4-Trichlorobenzene	826.5	250	1000	0	82.6	70	130	1141	32	25	R
1,2,4-Trimethylbenzene	1108	50	1000	0	111	70	130	918.5	18.7	25	
1,2-Dibromo-3-chloropropane	719.5	50	1000	0	72	70	130	950.5	27.7	25	R
1,2-Dibromoethane	902	50	1000	0	90.2	70	130	881	2.36	25	
1,2-Dichlorobenzene	1046	50	1000	0	105	70	130	864	19.1	25	
1,2-Dichloroethane	941	50	1000	0	94.1	70	130	913	3.02	25	
1,2-Dichloropropane	923.5	50	1000	0	92.4	70	130	830	10.7	25	
1,3,5-Trimethylbenzene	1112	50	1000	0	111	70	130	907	20.3	25	
1,3-Dichlorobenzene	1080	50	1000	0	108	70	130	899	18.2	25	
1,3-Dichloropropane	985	50	1000	0	98.5	70	130	818.5	18.5	25	
1,4-Dichlorobenzene	1024	50	1000	0	102	70	130	854	18.1	25	
2,2-Dichloropropane	781	50	1000	0	78.1	70	130	867.5	10.5	25	
2-Butanone	1300	250	1000	0	130	70	130	1170	10.6	25	
2-Chloroethyl vinyl ether	913.5	250	1000	0	91.4	70	130	1136	21.7	25	
2-Chlorotoluene	1064	50	1000	0	106	70	130	884.5	18.4	25	
2-Hexanone	853.5	50	1000	0	85.4	70	130	1040	19.7	25	
2-Methylnaphthalene	1106	250	1000	0	111	70	130	1078	2.56	25	
4-Chlorotoluene	1055	50	1000	0	106	70	130	894	16.5	25	
4-Methyl-2-pentanone	1039	250	1000	0	104	70	130	1050	1	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Acetone	1130	250	1000	0	113	70	130	1050	7.43	25	
Acrylonitrile	935.5	250	1000	0	93.6	70	130	1133	19.1	25	
Benzene	985	50	1000	0	98.5	70	130	884	10.8	25	
Bromobenzene	1061	50	1000	0	106	70	130	896	16.9	25	
Bromochloromethane	932.5	50	1000	0	93.2	70	130	867	7.28	25	
Bromodichloromethane	812	50	1000	0	81.2	70	130	806.5	0.68	25	
Bromoform	564	50	1000	0	56.4	70	130	449.5	22.6	25	S
Bromomethane	838.5	50	1000	0	83.8	70	130	903	7.41	25	
Carbon Disulfide	803	250	1000	0	80.3	70	130	978.5	19.7	25	
Carbon tetrachloride	954.5	50	1000	0	95.4	70	130	828	14.2	25	
Chlorobenzene	1032	50	1000	0	103	70	130	858	18.5	25	
Chlorodibromomethane	805.5	50	1000	0	80.6	70	130	581	32.4	25	R
Chloroethane	621	50	1000	0	62.1	70	130	837	29.6	25	SR
Chloroform	1453	50	1000	0	145	70	130	1196	19.4	25	S
Chloromethane	1022	50	1000	0	102	70	130	1076	5.15	25	
cis-1,2-Dichloroethene	890.5	50	1000	0	89	70	130	1114	22.3	25	
cis-1,3-Dichloropropene	817	50	1000	0	81.7	70	130	990	19.1	25	
Dibromomethane	929.5	50	1000	0	93	70	130	826	11.8	25	
Dichlorodifluoromethane	1038	50	1000	0	104	70	130	1011	2.64	25	
Diethyl ether	1044	250	1000	0	104	70	130	1186	12.7	25	
Ethylbenzene	1025	50	1000	0	102	70	130	855	18.1	25	
Hexachlorobutadiene	1010	250	1000	0	101	70	130	809	22.1	25	
Isopropylbenzene	1134	50	1000	0	113	70	130	942	18.5	25	
Methyl-tert-butyl-ether	1188	250	1000	0	119	70	130	1184	0.38	25	
Methylene chloride	1262	250	1000	275.5	98.7	70	130	1044	18.9	25	
n-Butylbenzene	1000	50	1000	0	100	70	130	831.5	18.4	25	
n-Propylbenzene	1156	50	1000	0	116	70	130	958.5	18.7	25	
Naphthalene	867.5	250	1000	0	86.8	70	130	825	5.02	25	
p-Isopropyltoluene	1116	50	1000	0	112	70	130	915.5	19.7	25	
sec-Butylbenzene	1104	50	1000	0	110	70	130	913.5	18.9	25	
Styrene	1036	50	1000	0	104	70	130	863	18.2	25	
tert-Butylbenzene	1040	50	1000	0	104	70	130	847.5	20.4	25	
Tetrachloroethene	1499	50	1000	0	150	70	130	1174	24.4	25	S

Qualifiers:
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CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Toluene	998	50	1000	0	99.8	70	130	841.5	17	25	
trans-1,2-Dichloroethene	955.5	50	1000	0	95.6	70	130	831.5	13.9	25	
trans-1,3-Dichloropropene	820	50	1000	0	82	70	130	867	5.57	25	
Trichloroethene	1673	50	1000	0	167	70	130	1189	33.8	25	SR
Trichlorofluoromethane	763.5	50	1000	0	76.4	70	130	967	23.5	25	
Vinyl chloride	1056	50	1000	0	106	70	130	1198	12.6	25	
Xylenes (Total)	3186	150	3000	0	106	70	130	2680	17.2	25	
m,p-xylene	2142	100	2000	0	107	70	130	1816	16.4	25	
o-Xylene	1044	50	1000	0	104	70	130	864	18.8	25	
Surr: 4-Bromofluorobenzene	2491	50	2500	0	99.6	90.1	114	2484	0	25	
Surr: Dibromofluoromethane	1439	50	2500	0	57.6	66.3	124	2379	0	25	S
Surr: Toluene-d8	2362	50	2500	0	94.5	83.2	115	2360	0	25	

Qualifiers:
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B - Analyte detected in the associated Method Blank

AAC Trinity

Date: *10-May-02*

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS** Batch ID: **R21001** Test Code: **SW7470** Units: **mg/L** Analysis Date **5/6/2002** Prep Date:

Client ID: Run ID: **AA2_020506A** SeqNo: **267487**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.92	0.002	2	0	96	80	120	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5650** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506C** SeqNo: **267446**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106	5	100	0	106	80	120	0			
Barium	472	100	500	0	94.4	80	120	0			
Cadmium	54	0.5	50	0	108	80	120	0			
Chromium	221	5	200	0	110	80	120	0			
Lead	98	3	100	0	98	80	120	0			
Selenium	54	5	50	0	108	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:

Client ID: Run ID: **AA2_020506A** SeqNo: **267524**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.86	0.2	2	0	93	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/L** Analysis Date **5/4/2002 1:35:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267205**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	20.87	1	20	0	104	90.1	115	0			
1,1,1-Trichloroethane	20.39	1	20	0	102	74.5	125	0			
1,1,2,2-Tetrachloroethane	23.52	1	20	0	118	60.2	130	0			
1,1,2-Trichloroethane	20.85	1	20	0	104	67	110	0			
1,1-Dichloroethane	21.65	1	20	0	108	73.1	125	0			
1,1-Dichloroethene	21.73	1	20	0	109	61.8	125	0			
1,1-Dichloropropene	20.2	1	20	0	101	82.2	115	0			
1,2,3-Trichlorobenzene	19.36	5	20	0	96.8	70	130	0			
1,2,3-Trichloropropane	23.48	1	20	0	117	69.5	113	0			S
1,2,4-Trichlorobenzene	16.71	5	20	0	83.6	38.5	209	0			
1,2,4-Trimethylbenzene	22.39	1	20	0	112	81.5	141	0			
1,2-Dibromo-3-chloropropane	17.77	1	20	0	88.8	49.6	153	0			
1,2-Dibromoethane	20.47	1	20	0	102	62.8	109	0			
1,2-Dichlorobenzene	21.98	1	20	0	110	86	113	0			
1,2-Dichloroethane	21.09	1	20	0	105	65.1	120	0			
1,2-Dichloropropane	20.18	1	20	0	101	81	109	0			
1,3,5-Trimethylbenzene	22.84	1	20	0	114	81	109	0			S
1,3-Dichlorobenzene	22.22	1	20	0	111	90.1	117	0			
1,3-Dichloropropane	22.11	1	20	0	110	75.6	111	0			
1,4-Dichlorobenzene	20.97	1	20	0	105	88.8	112	0			
2,2-Dichloropropane	10.71	1	20	0	53.6	24.6	159	0			
2-Butanone	23.46	5	20	0	117	36.4	108	0			S
2-Chloroethyl vinyl ether	18.93	5	20	0	94.6	8.95	132	0			
2-Chlorotoluene	22.31	1	20	0	112	88.8	124	0			
2-Hexanone	19.44	1	20	0	97.2	35.6	99.7	0			
2-Methylnaphthalene	22.32	5	20	0	112	40	175	0			
4-Chlorotoluene	21.75	1	20	0	109	61.9	158	0			
4-Methyl-2-pentanone	19.82	5	20	0	99.1	31.6	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Acetone	26.51	5	20	0	132	32.3	135	0	
Acrylonitrile	20.62	5	20	0	103	39.2	105	0	
Benzene	21.7	1	20	0	108	84	113	0	
Bromobenzene	22.59	1	20	0	113	89.1	111	0	S
Bromochloromethane	22.46	1	20	0	112	68.5	114	0	
Bromodichloromethane	19.08	1	20	0	95.4	76.6	114	0	
Bromoform	16.22	1	20	0	81.1	51.4	117	0	
Bromomethane	20.49	1	20	0	102	18.3	171	0	
Carbon Disulfide	17.23	5	20	0	86.2	8.52	154	0	
Carbon tetrachloride	21.24	1	20	0	106	80.6	125	0	
Chlorobenzene	22.01	1	20	0	110	90.8	112	0	
Chlorodibromomethane	18.76	1	20	0	93.8	73.1	110	0	
Chloroethane	21.27	1	20	0	106	55.7	129	0	
Chloroform	29.65	1	20	0	148	73.9	116	0	S
Chloromethane	17.17	1	20	0	85.8	55.8	120	0	
cis-1,2-Dichloroethene	20.5	1	20	0	102	75.3	116	0	
cis-1,3-Dichloropropene	17.24	1	20	0	86.2	70.8	103	0	
Dibromomethane	20.77	1	20	0	104	67.2	112	0	
Dichlorodifluoromethane	19.61	1	20	0	98	25.4	144	0	
Ethylbenzene	21.82	1	20	0	109	90.4	120	0	
Hexachlorobutadiene	18.36	5	20	0	91.8	48.2	198	0	
Isopropylbenzene	23.6	1	20	0	118	87	130	0	
Methyl-tert-butyl-ether	23.99	5	20	0	120	16.1	138	0	
Methylene chloride	27.64	5	20	3.22	122	62.8	126	0	
n-Butylbenzene	19.29	1	20	0	96.4	71	149	0	
n-Propylbenzene	23.8	1	20	0	119	87.4	132	0	
Naphthalene	19.41	5	20	0	97	70	130	0	
p-Isopropyltoluene	22.26	1	20	0	111	81	144	0	
sec-Butylbenzene	22.54	1	20	0	113	78.8	144	0	
Styrene	22.35	1	20	0	112	89.6	116	0	
tert-Butylbenzene	22.17	1	20	0	111	88.5	135	0	
Tetrachloroethene	17.85	1	20	0	89.2	25.5	131	0	
Toluene	21.36	1	20	0	107	78.5	122	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

trans-1,2-Dichloroethene	21.22	1	20	0	106	73.3	120	0
trans-1,3-Dichloropropene	16.57	1	20	0	82.8	63.2	105	0
Trichloroethene	20.78	1	20	0	104	73.8	124	0
Trichlorofluoromethane	21.27	1	20	0	106	64.2	117	0
Vinyl chloride	19.42	1	20	0	97.1	60.2	119	0
Xylenes (Total)	67.34	3	60	0	112	88.5	127	0
Surr: 4-Bromofluorobenzene	49.04	1	50	0	98.1	85.8	116	0
Surr: Dibromofluoromethane	51.66	1	50	0	103	85	111	0
Surr: Toluene-d8	47.55	1	50	0	95.1	82	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/4/2002 6:43:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267204**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.4	1	20	0	97	70	130	0			
1,1,1-Trichloroethane	20.7	1	20	0	103	70	130	0			
1,1,2,2-Tetrachloroethane	20.81	1	20	0	104	70	130	0			
1,1,2-Trichloroethane	19.41	1	20	0	97	70	130	0			
1,1-Dichloroethane	20.89	1	20	0	104	70	130	0			
1,1-Dichloroethene	20.52	1	20	0	103	70	130	0			
1,1-Dichloropropene	19.88	1	20	0	99.4	70	130	0			
1,2,3-Trichlorobenzene	16.2	5	20	0	81	70	130	0			
1,2,3-Trichloropropane	21.3	1	20	0	106	70	130	0			
1,2,4-Trichlorobenzene	16.19	5	20	0	81	70	130	0			
1,2,4-Trimethylbenzene	22.17	1	20	0	111	70	130	0			
1,2-Dibromo-3-chloropropane	16.07	1	20	0	80.4	70	130	0			
1,2-Dibromoethane	18.94	1	20	0	94.7	70	130	0			
1,2-Dichlorobenzene	21.26	1	20	0	106	70	130	0			
1,2-Dichloroethane	19.97	1	20	0	99.8	70	130	0			
1,2-Dichloropropane	19.58	1	20	0	97.9	70	130	0			
1,3,5-Trimethylbenzene	22.52	1	20	0	112	70	130	0			
1,3-Dichlorobenzene	21.63	1	20	0	108	70	130	0			
1,3-Dichloropropane	20.81	1	20	0	104	70	130	0			
1,4-Dichlorobenzene	20.29	1	20	0	101	70	130	0			
2,2-Dichloropropane	12.89	1	20	0	64.4	70	130	0			S
2-Butanone	18.25	5	20	0	91.2	70	130	0			
2-Chloroethyl vinyl ether	16.35	5	20	0	81.8	70	130	0			
2-Chlorotoluene	21.94	1	20	0	110	70	130	0			
2-Hexanone	15.56	1	20	0	77.8	70	130	0			
2-Methylnaphthalene	17.19	5	20	0	86	70	130	0			
4-Chlorotoluene	21.7	1	20	0	108	70	130	0			
4-Methyl-2-pentanone	19.24	5	20	0	96.2	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Acetone	22.08	5	20	0	110	70	130	0	
Acrylonitrile	17.46	5	20	0	87.3	70	130	0	
Benzene	21.03	1	20	0	105	70	130	0	
Bromobenzene	21.99	1	20	0	110	70	130	0	
Bromochloromethane	21.05	1	20	0	105	70	130	0	
Bromodichloromethane	17.94	1	20	0	89.7	70	130	0	
Bromoform	13.29	1	20	0	66.4	70	130	0	S
Bromomethane	18.47	1	20	0	92.4	70	130	0	
Carbon Disulfide	16.61	5	20	0	83	70	130	0	
Carbon tetrachloride	20.45	1	20	0	102	70	130	0	
Chlorobenzene	20.92	1	20	0	105	70	130	0	
Chlorodibromomethane	16.71	1	20	0	83.6	70	130	0	
Chloroethane	19.37	1	20	0	96.8	70	130	0	
Chloroform	30.14	1	20	0	151	70	130	0	S
Chloromethane	16.57	1	20	0	82.8	70	130	0	
cis-1,2-Dichloroethene	20.07	1	20	0	100	70	130	0	
cis-1,3-Dichloropropene	16.87	1	20	0	84.4	70	130	0	
Dibromomethane	19.46	1	20	0	97.3	70	130	0	
Dichlorodifluoromethane	17.98	1	20	0	89.9	70	130	0	
Diethyl ether	22.65	5	20	0	113	70	130	0	
Ethylbenzene	20.85	1	20	0	104	70	130	0	
Hexachlorobutadiene	18.05	5	20	0	90.2	70	130	0	
Isopropylbenzene	23.68	1	20	0	118	70	130	0	
Methyl-tert-butyl-ether	22.95	5	20	0	115	70	130	0	
Methylene chloride	23.67	5	20	3.22	102	70	130	0	
n-Butylbenzene	18.92	1	20	0	94.6	70	130	0	
n-Propylbenzene	23.81	1	20	0	119	70	130	0	
Naphthalene	16.58	5	20	0	82.9	70	130	0	
p-Isopropyltoluene	22.06	1	20	0	110	70	130	0	
sec-Butylbenzene	22.39	1	20	0	112	70	130	0	
Styrene	21.37	1	20	0	107	70	130	0	
tert-Butylbenzene	21.64	1	20	0	108	70	130	0	
Tetrachloroethene	20.79	1	20	0	104	70	130	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Toluene	20.76	1	20	0	104	70	130	0
trans-1,2-Dichloroethene	21.24	1	20	0	106	70	130	0
trans-1,3-Dichloropropene	16.03	1	20	0	80.2	70	130	0
Trichloroethene	20.35	1	20	0	102	70	130	0
Trichlorofluoromethane	19.17	1	20	0	95.8	70	130	0
Vinyl chloride	19.01	1	20	0	95	70	130	0
Xylenes (Total)	64.42	3	60	0	107	70	130	0
m,p-xylene	43.17	2	40	0	108	70	130	0
o-Xylene	21.25	1	20	0	106	70	130	0
Surr: 4-Bromofluorobenzene	49.89	1	50	0	99.8	90.1	114	0
Surr: Dibromofluoromethane	49.57	1	50	0	99.1	66.3	124	0
Surr: Toluene-d8	47.66	1	50	0	95.3	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5646** Batch ID: **5646** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/3/2002 3:04:00 PM** Prep Date: **5/3/2002**
Client ID: Run ID: **MSHPSEMI 01_020503** SeqNo: **267137**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	16.66	5	25	0	66.6	41.1	116	0			
1,2-Dichlorobenzene	16.66	5	25	0	66.6	38.4	105	0			
1,2-Diphenylhydrazine	12.92	5	25	0	51.7	24.1	80	0			
1,3-Dichlorobenzene	15.18	5	25	0	60.7	38.3	100	0			
1,4-Dichlorobenzene	17.04	5	25	0	68.2	40.2	101	0			
2,4-Dinitrotoluene	17.38	20	25	0	69.5	56.2	116	0			J
2,6-Dinitrotoluene	17.6	5	25	0	70.4	50.6	119	0			
2-Chloronaphthalene	20.36	5	25	0	81.4	55.1	108	0			
2-Nitroaniline	16.84	5	25	0	67.4	44.8	115	0			
3,3'-Dichlorobenzidine	ND	20	25	0	0	10	130	0			S
3,3'-Dimethylbenzidine	ND	20	25	0	0	10	150	0			S
3-Nitroaniline	17.36	20	25	0	69.4	10	133	0			J
4-Bromophenyl-phenylether	18.68	5	25	0	74.7	56.1	115	0			
4-Chloroaniline	ND	20	25	0	0	10	98.4	0			S
4-Chlorophenyl phenylether	20.22	5	25	0	80.9	59	120	0			
4-Nitroaniline	13.72	20	25	0	54.9	15	99.4	0			J
Acetophenone	14.4	5	25	0	57.6	10	150	0			
Aniline	11.9	20	25	0	47.6	29	87.3	0			J
Benzidine	ND	20	25	0	0	10	62.5	0			S
Benzoic acid	ND	50	25	0	0	10	150	0			S
Benzyl alcohol	5.24	50	25	0	21	10	92.8	0			J
Bis (2-chloroethoxy) methane	16.88	5	25	0	67.5	43.2	122	0			
Bis (2-chloroethyl) ether	17.04	5	25	0	68.2	44.4	106	0			
Bis (2-chloroisopropyl) ether	16.46	5	25	0	65.8	50.9	116	0			
Bis (2-ethylhexyl) phthalate	22.52	5	25	0	90.1	39.6	150	0			
Butyl benzyl phthalate	21.02	5	25	0	84.1	39.4	144	0			
Carbazole	20.28	10	25	0	81.1	64.9	113	0			
Di-n-butyl phthalate	20.38	5	25	0	81.5	57.4	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Di-n-octyl phthalate	22.46	5	25	0	89.8	26.8	150	0	
Dibenzofuran	19.32	5	25	0	77.3	57.5	116	0	
Diethyl phthalate	21.22	5	25	0	84.9	53.7	136	0	
Dimethyl phthalate	21	5	25	0	84	60.8	117	0	
Diphenylamine	7.58	5	25	0	30.3	10	95.7	0	
Hexachlorobenzene	18.58	5	25	0	74.3	34.8	135	0	
Hexachlorobutadiene	16.84	5	25	0	67.4	40.6	113	0	
Hexachlorocyclopentadiene	8.36	5	25	0	33.4	10	96	0	
Hexachloroethane	16.02	5	25	0	64.1	29.9	110	0	
Isophorone	16.1	5	25	0	64.4	45.5	122	0	
N-Nitroso-di-n-propylamine	15.94	5	25	0	63.8	50.9	120	0	
N-Nitrosodimethylamine	7.12	5	25	0	28.5	10	150	0	
N-Nitrosodiphenylamine	7.56	5	25	0	30.2	10	97.2	0	
Nitrobenzene	16.52	5	25	0	66.1	33.7	118	0	
Pentachlorophenol	11.66	20	25	0	46.6	24.2	126	0	J
Pyridine	10.18	20	25	0	40.7	23	79.4	0	J
Surr: 1,2-Dichlorobenzene-d4	36.54	5	50	0	73.1	10	150	0	
Surr: 2,4,6-Tribromophenol	56.66	5	75	0	75.5	10	131	0	
Surr: 2-Chlorophenol-d4	50.6	5	75	0	67.5	10	150	0	
Surr: 2-Fluorobiphenyl	47.24	5	50	0	94.5	33.9	128	0	
Surr: 2-Fluorophenol	19.74	5	75	0	26.3	10	63.1	0	
Surr: 4-Terphenyl-d14	48.5	5	50	0	97	47	139	0	
Surr: Nitrobenzene-d5	36	5	50	0	72	33.8	115	0	
Surr: Phenol-d6	12.54	5	75	0	16.7	10	60.7	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv03** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:

Client ID: Run ID: **AA2_020506A** SeqNo: **267521**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.83	0.2	2	0	91.5	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs-5657** Batch ID: **5657** Test Code: **SW8310** Units: **µg/L** Analysis Date **5/9/2002 1:16:21 PM** Prep Date: **5/3/2002**

Client ID: Run ID: **LC1_020508E** SeqNo: **268689**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	44.03	2	25	0	176	57.8	113	0			S
Acenaphthene	60.44	2	25	0	242	74.4	126	0			S
Acenaphthylene	77.74	2	25	0	311	76.3	122	0			S
Anthracene	25.67	2	25	0	103	76.5	114	0			
Benz (a) anthracene	25.83	2	25	0	103	78.2	126	0			
Benzo (a) pyrene	28.18	2	25	0	113	75.4	118	0			
Benzo (g,h,i) perylene	27.48	2	25	0	110	79.8	133	0			
Benzo (k) fluoranthene	25.06	2	25	0	100	80.2	122	0			
Benzo(b)fluoranthene	24.75	2	25	0	99	82.3	122	0			
Chrysene	25.12	2	25	0	100	84.2	120	0			
Dibenz (a,h) anthracene	28.03	2	25	0	112	96.2	130	0			
Fluoranthene	31.86	2	25	0	127	81.4	120	0			S
Fluorene	23.1	2	25	0	92.4	80.4	123	0			
Indeno (1,2,3-cd) pyrene	25.72	2	25	0	103	85.6	119	0			
Naphthalene	94.06	2	25	0	376	69.9	130	0			S
Phenanthrene	26.62	2	25	0	106	84.5	122	0			
Pyrene	23.67	2	25	0	94.7	83.5	133	0			
Surr: p-Terphenyl	57.51	0	50	0	115	71.9	113	0			S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID **ccv02** Batch ID: **R21001** Test Code: **E245.1** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:

Client ID: Run ID: **AA2_020506A** SeqNo: **267528**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.96	0.2	2	0	98	80	120	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv01** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **ICP1_020506C** SeqNo: **267461**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23	5	25	0	92	90	110	0			
Barium	9280	100	10000	0	92.8	90	110	0			
Cadmium	23	0.5	25	0	92	90	110	0			
Chromium	23	5	25	0	92	90	110	0			
Lead	23	3	25	0	92	90	110	0			
Selenium	23	5	25	0	92	90	110	0			

Sample ID **ccv02** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **ICP1_020506C** SeqNo: **267467**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24	5	25	0	96	90	110	0			
Barium	9840	100	10000	0	98.4	90	110	0			
Cadmium	23	0.5	25	0	92	90	110	0			
Chromium	23	5	25	0	92	90	110	0			
Lead	25	3	25	0	100	90	110	0			
Selenium	24	5	25	0	96	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv01** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **AA2_020506A** SeqNo: **267502**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.87	0.2	2	0	93.5	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/L** Analysis Date **5/4/2002 8:04:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267398**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.79	1	20	0	98.9	80	120	0			
1,1,1-Trichloroethane	20.91	1	20	0	104	80	120	0			
1,1,2,2-Tetrachloroethane	18.63	1	20	0	93.2	80	120	0			
1,1,2-Trichloroethane	19.65	1	20	0	98.2	80	120	0			
1,1-Dichloroethane	21.17	1	20	0	106	80	120	0			
1,1-Dichloroethene	20.63	1	20	0	103	80	120	0			
1,1-Dichloropropene	20.46	1	20	0	102	80	120	0			
1,2,3-Trichlorobenzene	15.21	5	20	0	76	80	120	0			S
1,2,3-Trichloropropane	22.05	1	20	0	110	80	120	0			
1,2,4-Trichlorobenzene	16.47	5	20	0	82.4	40	120	0			
1,2,4-Trimethylbenzene	22.22	1	20	0	111	80	120	0			
1,2-Dibromo-3-chloropropane	16.41	1	20	0	82	80	120	0			
1,2-Dibromoethane	19.17	1	20	0	95.8	80	120	0			
1,2-Dichlorobenzene	21.43	1	20	0	107	80	120	0			
1,2-Dichloroethane	20.5	1	20	0	102	80	120	0			
1,2-Dichloropropane	20.07	1	20	0	100	80	120	0			
1,3,5-Trimethylbenzene	22.6	1	20	0	113	80	120	0			
1,3-Dichlorobenzene	21.68	1	20	0	108	80	120	0			
1,3-Dichloropropane	21.42	1	20	0	107	80	120	0			
1,4-Dichlorobenzene	20.65	1	20	0	103	80	120	0			
2,2-Dichloropropane	12.03	1	20	0	60.1	80	120	0			S
2-Butanone	19.49	5	20	0	97.4	80	120	0			
2-Chloroethyl vinyl ether	16.39	5	20	0	82	80	120	0			
2-Chlorotoluene	22.19	1	20	0	111	80	120	0			
2-Hexanone	15.63	1	20	0	78.1	80	120	0			S
2-Methylnaphthalene	14.7	5	20	0	73.5	80	120	0			S
4-Chlorotoluene	21.84	1	20	0	109	80	120	0			
4-Methyl-2-pentanone	16.2	5	20	0	81	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Acetone	22.9	5	20	0	114	80	120	0	
Acrylonitrile	17.9	5	20	0	89.5	80	120	0	
Benzene	21.57	1	20	0	108	80	120	0	
Bromobenzene	22.15	1	20	0	111	80	120	0	
Bromochloromethane	21.64	1	20	0	108	80	120	0	
Bromodichloromethane	18.25	1	20	0	91.2	80	120	0	
Bromoform	13.95	1	20	0	69.8	80	120	0	S
Bromomethane	19.42	1	20	0	97.1	80	120	0	
Carbon Disulfide	17.05	5	20	0	85.2	80	120	0	
Carbon tetrachloride	21.18	1	20	0	106	80	120	0	
Chlorobenzene	21.68	1	20	0	108	80	120	0	
Chlorodibromomethane	17.31	1	20	0	86.6	80	120	0	
Chloroethane	20.25	1	20	0	101	80	120	0	
Chloroform	30.21	1	20	0	151	80	120	0	S
Chloromethane	16.18	1	20	0	80.9	80	120	0	
cis-1,2-Dichloroethene	20.28	1	20	0	101	80	120	0	
cis-1,3-Dichloropropene	16.86	1	20	0	84.3	80	120	0	
Dibromomethane	19.93	1	20	0	99.6	80	120	0	
Dichlorodifluoromethane	17.33	1	20	0	86.6	80	120	0	
Ethylbenzene	21.39	1	20	0	107	80	120	0	
Hexachlorobutadiene	17.46	5	20	0	87.3	80	120	0	
Isopropylbenzene	23.98	1	20	0	120	80	120	0	
Methyl-tert-butyl-ether	22.84	5	20	0	114	80	120	0	
Methylene chloride	23.97	5	20	0	120	80	120	0	
n-Butylbenzene	18.98	1	20	0	94.9	80	120	0	
n-Propylbenzene	23.94	1	20	0	120	80	120	0	
Naphthalene	16.03	5	20	0	80.2	80	120	0	
p-Isopropyltoluene	21.9	1	20	0	110	80	120	0	
sec-Butylbenzene	22.36	1	20	0	112	80	120	0	
Styrene	21.52	1	20	0	108	80	120	0	
tert-Butylbenzene	21.27	1	20	0	106	80	120	0	
Tetrachloroethene	29.31	1	20	0	146	80	120	0	S
Toluene	21.04	1	20	0	105	80	120	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

trans-1,2-Dichloroethene	21.57	1	20	0	108	80	120	0
trans-1,3-Dichloropropene	16.17	1	20	0	80.8	80	120	0
Trichloroethene	23.01	1	20	0	115	80	120	0
Trichlorofluoromethane	19.52	1	20	0	97.6	80	120	0
Vinyl chloride	19.23	1	20	0	96.2	80	120	0
Xylenes (Total)	66.04	3	60	0	110	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	49.81	1	50	0	99.6	85.8	116	0
Surr: Dibromofluoromethane	49.09	1	50	0	98.2	78.1	132	0
Surr: Toluene-d8	47.65	1	50	0	95.3	82	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv | Batch ID: R20978 | Test Code: EPA8260 | Units: µg/Kg | Analysis Date 5/3/2002 9:29:00 PM | Prep Date:
Client ID: | Run ID: MS1_020503B | SeqNo: 267202

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.28	1	20	0	96.4	80	120	0			
1,1,1-Trichloroethane	19.09	1	20	0	95.4	80	120	0			
1,1,2,2-Tetrachloroethane	21.12	1	20	0	106	80	120	0			
1,1,2-Trichloroethane	20.05	1	20	0	100	80	120	0			
1,1-Dichloroethane	19.73	1	20	0	98.6	80	120	0			
1,1-Dichloroethene	19.88	1	20	0	99.4	80	120	0			
1,1-Dichloropropene	20.53	1	20	0	103	80	120	0			
1,2,3-Trichlorobenzene	18.43	5	20	0	92.2	40	120	0			
1,2,3-Trichloropropane	21.96	1	20	0	110	80	120	0			
1,2,4-Trichlorobenzene	17.31	5	20	0	86.6	80	120	0			
1,2,4-Trimethylbenzene	21.9	1	20	0	110	80	120	0			
1,2-Dibromo-3-chloropropane	16.2	1	20	0	81	80	120	0			
1,2-Dibromoethane	19.54	1	20	0	97.7	80	120	0			
1,2-Dichlorobenzene	20.96	1	20	0	105	80	120	0			
1,2-Dichloroethane	20.57	1	20	0	103	80	120	0			
1,2-Dichloropropane	19.49	1	20	0	97.4	80	120	0			
1,3,5-Trimethylbenzene	22.13	1	20	0	111	80	120	0			
1,3-Dichlorobenzene	21.72	1	20	0	108	80	120	0			
1,3-Dichloropropane	21.04	1	20	0	105	80	120	0			
1,4-Dichlorobenzene	20.2	1	20	0	101	80	120	0			
2,2-Dichloropropane	16.04	1	20	0	80.2	80	120	0			
2-Butanone	21.62	5	20	0	108	80	120	0			
2-Chloroethyl vinyl ether	16.46	5	20	0	82.3	80	120	0			
2-Chlorotoluene	21.56	1	20	0	108	80	120	0			
2-Hexanone	16.97	1	20	0	84.8	80	120	0			
2-Methylnaphthalene	19.01	5	20	0	95	80	120	0			
4-Chlorotoluene	21.25	1	20	0	106	80	120	0			
4-Methyl-2-pentanone	16.41	5	20	0	82	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Acetone	22.31	5	20	0	112	80	120	0	
Acrylonitrile	16.8	5	20	0	84	80	120	0	
Benzene	20.87	1	20	0	104	80	120	0	
Bromobenzene	21.65	1	20	0	108	80	120	0	
Bromochloromethane	19.94	1	20	0	99.7	80	120	0	
Bromodichloromethane	17.88	1	20	0	89.4	80	120	0	
Bromoform	14.35	1	20	0	71.8	80	120	0	S
Bromomethane	17.65	1	20	0	88.2	80	120	0	
Carbon Disulfide	16.65	5	20	0	83.2	80	120	0	
Carbon tetrachloride	20.48	1	20	0	102	80	120	0	
Chlorobenzene	21.24	1	20	0	106	80	120	0	
Chlorodibromomethane	17.07	1	20	0	85.4	80	120	0	
Chloroethane	18.65	1	20	0	93.2	80	120	0	
Chloroform	28.41	1	20	0	142	80	120	0	S
Chloromethane	17.05	1	20	0	85.2	80	120	0	
cis-1,2-Dichloroethene	19.48	1	20	0	97.4	80	120	0	
cis-1,3-Dichloropropene	17.71	1	20	0	88.6	80	120	0	
Dibromomethane	19.8	1	20	0	99	80	120	0	
Dichlorodifluoromethane	16.68	1	20	0	83.4	80	120	0	
Diethyl ether	20.39	5	20	0	102	80	120	0	
Ethylbenzene	21.18	1	20	0	106	80	120	0	
Hexachlorobutadiene	18.93	5	20	0	94.6	80	120	0	
Isopropylbenzene	22.84	1	20	0	114	80	120	0	
Methyl-tert-butyl-ether	21.87	5	20	0	109	80	120	0	
Methylene chloride	24.87	5	20	0	124	80	120	0	S
n-Butylbenzene	20.09	1	20	0	100	80	120	0	
n-Propylbenzene	23.45	1	20	0	117	80	120	0	
Naphthalene	18.04	5	20	0	90.2	80	120	0	
p-Isopropyltoluene	21.8	1	20	0	109	80	120	0	
sec-Butylbenzene	21.84	1	20	0	109	80	120	0	
Styrene	21.73	1	20	0	109	80	120	0	
tert-Butylbenzene	20.77	1	20	0	104	80	120	0	
Tetrachloroethene	26.43	1	20	0	132	80	120	0	S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Toluene	20.86	1	20	0	104	80	120	0
trans-1,2-Dichloroethene	20.05	1	20	0	100	80	120	0
trans-1,3-Dichloropropene	16.89	1	20	0	84.4	80	120	0
Trichloroethene	21.12	1	20	0	106	80	120	0
Trichlorofluoromethane	17.51	1	20	0	87.6	80	120	0
Vinyl chloride	17.02	1	20	0	85.1	80	120	0
Xylenes (Total)	65.49	3	60	0	109	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
m,p-xylene	43.71	2	40	0	109	80	120	0
o-Xylene	21.78	1	20	0	109	80	120	0
Surr: 4-Bromofluorobenzene	49.01	1	50	0	98	90.1	114	0
Surr: Dibromofluoromethane	47.54	1	50	0	95.1	66.3	124	0
Surr: Toluene-d8	47.16	1	50	0	94.3	83.2	115	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Di-n-octyl phthalate	22.46	5	25	0	89.8	26.8	150	0	
Dibenzofuran	19.32	5	25	0	77.3	57.5	116	0	
Diethyl phthalate	21.22	5	25	0	84.9	53.7	136	0	
Dimethyl phthalate	21	5	25	0	84	60.8	117	0	
Diphenylamine	7.58	5	25	0	30.3	10	95.7	0	
Hexachlorobenzene	18.58	5	25	0	74.3	34.8	135	0	
Hexachlorobutadiene	16.84	5	25	0	67.4	40.6	113	0	
Hexachlorocyclopentadiene	8.36	5	25	0	33.4	10	96	0	
Hexachloroethane	16.02	5	25	0	64.1	29.9	110	0	
Isophorone	16.1	5	25	0	64.4	45.5	122	0	
N-Nitroso-di-n-propylamine	15.94	5	25	0	63.8	50.9	120	0	
N-Nitrosodimethylamine	7.12	5	25	0	28.5	10	150	0	
N-Nitrosodiphenylamine	7.56	5	25	0	30.2	10	97.2	0	
Nitrobenzene	16.52	5	25	0	66.1	33.7	118	0	
Pentachlorophenol	11.66	20	25	0	46.6	24.2	126	0	J
Pyridine	10.18	20	25	0	40.7	23	79.4	0	J
Surr: 1,2-Dichlorobenzene-d4	36.54	5	50	0	73.1	10	150	0	
Surr: 2,4,6-Tribromophenol	56.66	5	75	0	75.5	10	131	0	
Surr: 2-Chlorophenol-d4	50.6	5	75	0	67.5	10	150	0	
Surr: 2-Fluorobiphenyl	47.24	5	50	0	94.5	33.9	128	0	
Surr: 2-Fluorophenol	19.74	5	75	0	26.3	10	63.1	0	
Surr: 4-Terphenyl-d14	48.5	5	50	0	97	47	139	0	
Surr: Nitrobenzene-d5	36	5	50	0	72	33.8	115	0	
Surr: Phenol-d6	12.54	5	75	0	16.7	10	60.7	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs-5657** Batch ID: **5657** Test Code: **SW8310** Units: **µg/L** Analysis Date **5/9/2002 1:16:21 PM** Prep Date: **5/3/2002**
Client ID: Run ID: **LC1_020508E** SeqNo: **268689**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	44.03	2	25	0	176	57.8	113	0			S
Acenaphthene	60.44	2	25	0	242	74.4	126	0			S
Acenaphthylene	77.74	2	25	0	311	76.3	122	0			S
Anthracene	25.67	2	25	0	103	76.5	114	0			
Benz (a) anthracene	25.83	2	25	0	103	78.2	126	0			
Benzo (a) pyrene	28.18	2	25	0	113	75.4	118	0			
Benzo (g,h,i) perylene	27.48	2	25	0	110	79.8	133	0			
Benzo (k) fluoranthene	25.06	2	25	0	100	80.2	122	0			
Benzo(b)fluoranthene	24.75	2	25	0	99	82.3	122	0			
Chrysene	25.12	2	25	0	100	84.2	120	0			
Dibenz (a,h) anthracene	28.03	2	25	0	112	96.2	130	0			
Fluoranthene	31.86	2	25	0	127	81.4	120	0			S
Fluorene	23.1	2	25	0	92.4	80.4	123	0			
Indeno (1,2,3-cd) pyrene	25.72	2	25	0	103	85.6	119	0			
Naphthalene	94.06	2	25	0	376	69.9	130	0			S
Phenanthrene	26.62	2	25	0	106	84.5	122	0			
Pyrene	23.67	2	25	0	94.7	83.5	133	0			
Surr: p-Terphenyl	57.51	0	50	0	115	71.9	113	0			S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv02** Batch ID: **R21001** Test Code: **E245.1** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **AA2_020506A** SeqNo: **267528**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.96	0.2	2	0	98	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv01** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **ICP1_020506C** SeqNo: **267461**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	23	5	25	0	92	90	110	0			
Barium	9280	100	10000	0	92.8	90	110	0			
Cadmium	23	0.5	25	0	92	90	110	0			
Chromium	23	5	25	0	92	90	110	0			
Lead	23	3	25	0	92	90	110	0			
Selenium	23	5	25	0	92	90	110	0			

Sample ID **ccv02** Batch ID: **5650** Test Code: **EPA6020** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **ICP1_020506C** SeqNo: **267467**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24	5	25	0	96	90	110	0			
Barium	9840	100	10000	0	98.4	90	110	0			
Cadmium	23	0.5	25	0	92	90	110	0			
Chromium	23	5	25	0	92	90	110	0			
Lead	25	3	25	0	100	90	110	0			
Selenium	24	5	25	0	96	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv03** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **AA2_020506A** SeqNo: **267521**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.83	0.2	2	0	91.5	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv01** Batch ID: **R21001** Test Code: **EPA7470** Units: **µg/L** Analysis Date **5/6/2002** Prep Date:
Client ID: Run ID: **AA2_020506A** SeqNo: **267502**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.87	0.2	2	0	93.5	80	120	0			

Qualifiers:
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J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/L** Analysis Date **5/4/2002 8:04:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503B** SeqNo: **267398**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.79	1	20	0	98.9	80	120	0			
1,1,1-Trichloroethane	20.91	1	20	0	104	80	120	0			
1,1,2,2-Tetrachloroethane	18.63	1	20	0	93.2	80	120	0			
1,1,2-Trichloroethane	19.65	1	20	0	98.2	80	120	0			
1,1-Dichloroethane	21.17	1	20	0	106	80	120	0			
1,1-Dichloroethene	20.63	1	20	0	103	80	120	0			
1,1-Dichloropropene	20.46	1	20	0	102	80	120	0			
1,2,3-Trichlorobenzene	15.21	5	20	0	76	80	120	0			S
1,2,3-Trichloropropane	22.05	1	20	0	110	80	120	0			
1,2,4-Trichlorobenzene	16.47	5	20	0	82.4	40	120	0			
1,2,4-Trimethylbenzene	22.22	1	20	0	111	80	120	0			
1,2-Dibromo-3-chloropropane	16.41	1	20	0	82	80	120	0			
1,2-Dibromoethane	19.17	1	20	0	95.8	80	120	0			
1,2-Dichlorobenzene	21.43	1	20	0	107	80	120	0			
1,2-Dichloroethane	20.5	1	20	0	102	80	120	0			
1,2-Dichloropropane	20.07	1	20	0	100	80	120	0			
1,3,5-Trimethylbenzene	22.6	1	20	0	113	80	120	0			
1,3-Dichlorobenzene	21.68	1	20	0	108	80	120	0			
1,3-Dichloropropane	21.42	1	20	0	107	80	120	0			
1,4-Dichlorobenzene	20.65	1	20	0	103	80	120	0			
2,2-Dichloropropane	12.03	1	20	0	60.1	80	120	0			S
2-Butanone	19.49	5	20	0	97.4	80	120	0			
2-Chloroethyl vinyl ether	16.39	5	20	0	82	80	120	0			
2-Chlorotoluene	22.19	1	20	0	111	80	120	0			
2-Hexanone	15.63	1	20	0	78.1	80	120	0			S
2-Methylnaphthalene	14.7	5	20	0	73.5	80	120	0			S
4-Chlorotoluene	21.84	1	20	0	109	80	120	0			
4-Methyl-2-pentanone	16.2	5	20	0	81	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Acetone	22.9	5	20	0	114	80	120	0	
Acrylonitrile	17.9	5	20	0	89.5	80	120	0	
Benzene	21.57	1	20	0	108	80	120	0	
Bromobenzene	22.15	1	20	0	111	80	120	0	
Bromochloromethane	21.64	1	20	0	108	80	120	0	
Bromodichloromethane	18.25	1	20	0	91.2	80	120	0	
Bromoform	13.95	1	20	0	69.8	80	120	0	S
Bromomethane	19.42	1	20	0	97.1	80	120	0	
Carbon Disulfide	17.05	5	20	0	85.2	80	120	0	
Carbon tetrachloride	21.18	1	20	0	106	80	120	0	
Chlorobenzene	21.68	1	20	0	108	80	120	0	
Chlorodibromomethane	17.31	1	20	0	86.6	80	120	0	
Chloroethane	20.25	1	20	0	101	80	120	0	
Chloroform	30.21	1	20	0	151	80	120	0	S
Chloromethane	16.18	1	20	0	80.9	80	120	0	
cis-1,2-Dichloroethene	20.28	1	20	0	101	80	120	0	
cis-1,3-Dichloropropene	16.86	1	20	0	84.3	80	120	0	
Dibromomethane	19.93	1	20	0	99.6	80	120	0	
Dichlorodifluoromethane	17.33	1	20	0	86.6	80	120	0	
Ethylbenzene	21.39	1	20	0	107	80	120	0	
Hexachlorobutadiene	17.46	5	20	0	87.3	80	120	0	
Isopropylbenzene	23.98	1	20	0	120	80	120	0	
Methyl-tert-butyl-ether	22.84	5	20	0	114	80	120	0	
Methylene chloride	23.97	5	20	0	120	80	120	0	
n-Butylbenzene	18.98	1	20	0	94.9	80	120	0	
n-Propylbenzene	23.94	1	20	0	120	80	120	0	
Naphthalene	16.03	5	20	0	80.2	80	120	0	
p-Isopropyltoluene	21.9	1	20	0	110	80	120	0	
sec-Butylbenzene	22.36	1	20	0	112	80	120	0	
Styrene	21.52	1	20	0	108	80	120	0	
tert-Butylbenzene	21.27	1	20	0	106	80	120	0	
Tetrachloroethene	29.31	1	20	0	146	80	120	0	S
Toluene	21.04	1	20	0	105	80	120	0	

Qualifiers:
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J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

trans-1,2-Dichloroethene	21.57	1	20	0	108	80	120	0
trans-1,3-Dichloropropene	16.17	1	20	0	80.8	80	120	0
Trichloroethene	23.01	1	20	0	115	80	120	0
Trichlorofluoromethane	19.52	1	20	0	97.6	80	120	0
Vinyl chloride	19.23	1	20	0	96.2	80	120	0
Xylenes (Total)	66.04	3	60	0	110	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	49.81	1	50	0	99.6	85.8	116	0
Surr: Dibromofluoromethane	49.09	1	50	0	98.2	78.1	132	0
Surr: Toluene-d8	47.65	1	50	0	95.3	82	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv** Batch ID: **R20978** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/3/2002 9:29:00 PM** Prep Date:

Client ID: Run ID: **MS1_020503B** SeqNo: **267202**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.28	1	20	0	96.4	80	120	0			
1,1,1-Trichloroethane	19.09	1	20	0	95.4	80	120	0			
1,1,2,2-Tetrachloroethane	21.12	1	20	0	106	80	120	0			
1,1,2-Trichloroethane	20.05	1	20	0	100	80	120	0			
1,1-Dichloroethane	19.73	1	20	0	98.6	80	120	0			
1,1-Dichloroethene	19.88	1	20	0	99.4	80	120	0			
1,1-Dichloropropene	20.53	1	20	0	103	80	120	0			
1,2,3-Trichlorobenzene	18.43	5	20	0	92.2	40	120	0			
1,2,3-Trichloropropane	21.96	1	20	0	110	80	120	0			
1,2,4-Trichlorobenzene	17.31	5	20	0	86.6	80	120	0			
1,2,4-Trimethylbenzene	21.9	1	20	0	110	80	120	0			
1,2-Dibromo-3-chloropropane	16.2	1	20	0	81	80	120	0			
1,2-Dibromoethane	19.54	1	20	0	97.7	80	120	0			
1,2-Dichlorobenzene	20.96	1	20	0	105	80	120	0			
1,2-Dichloroethane	20.57	1	20	0	103	80	120	0			
1,2-Dichloropropane	19.49	1	20	0	97.4	80	120	0			
1,3,5-Trimethylbenzene	22.13	1	20	0	111	80	120	0			
1,3-Dichlorobenzene	21.72	1	20	0	108	80	120	0			
1,3-Dichloropropane	21.04	1	20	0	105	80	120	0			
1,4-Dichlorobenzene	20.2	1	20	0	101	80	120	0			
2,2-Dichloropropane	16.04	1	20	0	80.2	80	120	0			
2-Butanone	21.62	5	20	0	108	80	120	0			
2-Chloroethyl vinyl ether	16.46	5	20	0	82.3	80	120	0			
2-Chlorotoluene	21.56	1	20	0	108	80	120	0			
2-Hexanone	16.97	1	20	0	84.8	80	120	0			
2-Methylnaphthalene	19.01	5	20	0	95	80	120	0			
4-Chlorotoluene	21.25	1	20	0	106	80	120	0			
4-Methyl-2-pentanone	16.41	5	20	0	82	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Acetone	22.31	5	20	0	112	80	120	0	
Acrylonitrile	16.8	5	20	0	84	80	120	0	
Benzene	20.87	1	20	0	104	80	120	0	
Bromobenzene	21.65	1	20	0	108	80	120	0	
Bromochloromethane	19.94	1	20	0	99.7	80	120	0	
Bromodichloromethane	17.88	1	20	0	89.4	80	120	0	
Bromoform	14.35	1	20	0	71.8	80	120	0	S
Bromomethane	17.65	1	20	0	88.2	80	120	0	
Carbon Disulfide	16.65	5	20	0	83.2	80	120	0	
Carbon tetrachloride	20.48	1	20	0	102	80	120	0	
Chlorobenzene	21.24	1	20	0	106	80	120	0	
Chlorodibromomethane	17.07	1	20	0	85.4	80	120	0	
Chloroethane	18.65	1	20	0	93.2	80	120	0	
Chloroform	28.41	1	20	0	142	80	120	0	S
Chloromethane	17.05	1	20	0	85.2	80	120	0	
cis-1,2-Dichloroethene	19.48	1	20	0	97.4	80	120	0	
cis-1,3-Dichloropropene	17.71	1	20	0	88.6	80	120	0	
Dibromomethane	19.8	1	20	0	99	80	120	0	
Dichlorodifluoromethane	16.68	1	20	0	83.4	80	120	0	
Diethyl ether	20.39	5	20	0	102	80	120	0	
Ethylbenzene	21.18	1	20	0	106	80	120	0	
Hexachlorobutadiene	18.93	5	20	0	94.6	80	120	0	
Isopropylbenzene	22.84	1	20	0	114	80	120	0	
Methyl-tert-butyl-ether	21.87	5	20	0	109	80	120	0	
Methylene chloride	24.87	5	20	0	124	80	120	0	S
n-Butylbenzene	20.09	1	20	0	100	80	120	0	
n-Propylbenzene	23.45	1	20	0	117	80	120	0	
Naphthalene	18.04	5	20	0	90.2	80	120	0	
p-Isopropyltoluene	21.8	1	20	0	109	80	120	0	
sec-Butylbenzene	21.84	1	20	0	109	80	120	0	
Styrene	21.73	1	20	0	109	80	120	0	
tert-Butylbenzene	20.77	1	20	0	104	80	120	0	
Tetrachloroethene	26.43	1	20	0	132	80	120	0	S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Toluene	20.86	1	20	0	104	80	120	0
trans-1,2-Dichloroethene	20.05	1	20	0	100	80	120	0
trans-1,3-Dichloropropene	16.89	1	20	0	84.4	80	120	0
Trichloroethene	21.12	1	20	0	106	80	120	0
Trichlorofluoromethane	17.51	1	20	0	87.6	80	120	0
Vinyl chloride	17.02	1	20	0	85.1	80	120	0
Xylenes (Total)	65.49	3	60	0	109	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
m,p-xylene	43.71	2	40	0	109	80	120	0
o-Xylene	21.78	1	20	0	109	80	120	0
Surr: 4-Bromofluorobenzene	49.01	1	50	0	98	90.1	114	0
Surr: Dibromofluoromethane	47.54	1	50	0	95.1	66.3	124	0
Surr: Toluene-d8	47.16	1	50	0	94.3	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **CCV 40PPM** Batch ID: **R20976** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/3/2002 2:17:00 PM** Prep Date:
Client ID: Run ID: **MSHPSEMI 01_020503** SeqNo: **267128**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	39.76	5	40	0	99.4	80	120	0			
1,2-Dichlorobenzene	40.5	5	40	0	101	80	120	0			
1,2-Diphenylhydrazine	44.8	5	40	0	112	80	120	0			
1,3-Dichlorobenzene	38.09	5	40	0	95.2	80	120	0			
1,4-Dichlorobenzene	40.79	5	40	0	102	80	120	0			
2,4,5-Trichlorophenol	43.35	5	40	0	108	80	120	0			
2,4,6-Trichlorophenol	36.42	5	40	0	91	80	120	0			
2,4-Dichlorophenol	39.45	5	40	0	98.6	80	120	0			
2,4-Dimethylphenol	39.08	5	40	0	97.7	80	120	0			
2,4-Dinitrophenol	27.4	20	40	0	68.5	80	120	0			S
2,4-Dinitrotoluene	40.95	20	40	0	102	80	120	0			
2,6-Dichlorophenol	41.65	5	40	0	104	80	120	0			
2,6-Dinitrotoluene	40.01	5	40	0	100	80	120	0			
2-Chloronaphthalene	41.22	5	40	0	103	80	120	0			
2-Chlorophenol	40.55	5	40	0	101	80	120	0			
2-Methylnaphthalene	38.75	5	40	0	96.9	80	120	0			
2-Methylphenol	36.92	5	40	0	92.3	80	120	0			
2-Nitroaniline	40.37	5	40	0	101	80	120	0			
2-Nitrophenol	39.41	5	40	0	98.5	80	120	0			
3,3'-Dichlorobenzidine	45.03	20	40	0	112	80	120	0			
3,3'-Dimethylbenzidine	38.53	20	40	0	96.3	80	120	0			
3-Methylphenol	77.82	5	80	0	97.3	80	120	0			
3-Nitroaniline	41.65	20	40	0	104	80	120	0			
4,6-Dinitro-2-methylphenol	34.9	20	40	0	87.2	80	120	0			
4-Bromophenyl-phenylether	39.4	5	40	0	98.5	80	120	0			
4-Chloro-3-methylphenol	42.59	5	40	0	106	80	120	0			
4-Chloroaniline	41.5	20	40	0	104	80	120	0			
4-Chlorophenyl phenylether	39.15	5	40	0	97.9	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

4-Methylphenol	77.85	5	80	0	97.3	80	120	0	
4-Nitroaniline	42.82	20	40	0	107	80	120	0	
4-Nitrophenol	35.16	20	40	0	87.9	80	120	0	
Acenaphthene	40.5	5	40	0	101	80	120	0	
Acenaphthylene	40.67	5	40	0	102	80	120	0	
Acetophenone	40.33	5	40	0	101	80	120	0	
Aniline	38.2	20	40	0	95.5	80	120	0	
Anthracene	40.97	5	40	0	102	80	120	0	
Benz (a) anthracene	39.88	5	40	0	99.7	80	120	0	
Benzidine	37.62	20	40	0	94	80	120	0	
Benzo (a) pyrene	40.8	5	40	0	102	80	120	0	
Benzo (b) fluoranthene	40.44	5	40	0	101	80	120	0	
Benzo (g,h,i) perylene	39.41	5	40	0	98.5	80	120	0	
Benzo (k) fluoranthene	39.04	5	40	0	97.6	80	120	0	
Benzoic acid	31.67	50	40	0	79.2	80	120	0	S
Benzyl alcohol	37.08	50	40	0	92.7	80	120	0	
Bis (2-chloroethoxy) methane	40.07	5	40	0	100	80	120	0	
Bis (2-chloroethyl) ether	42.23	5	40	0	106	80	120	0	
Bis (2-chloroisopropyl) ether	40.45	5	40	0	101	80	120	0	
Bis (2-ethylhexyl) phthalate	41.15	5	40	0	103	80	120	0	
Butyl benzyl phthalate	40.82	5	40	0	102	80	120	0	
Carbazole	41.97	10	40	0	105	80	120	0	
Chrysene	40.62	5	40	0	102	80	120	0	
Di-n-butyl phthalate	40.78	5	40	0	102	80	120	0	
Di-n-octyl phthalate	44.41	5	40	0	111	80	120	0	
Dibenz (a,h) anthracene	43.34	5	40	0	108	80	120	0	
Dibenzofuran	39.69	5	40	0	99.2	80	120	0	
Diethyl phthalate	40.21	5	40	0	100	80	120	0	
Dimethyl phthalate	40.36	5	40	0	101	80	120	0	
Diphenylamine	40	5	40	0	100	80	120	0	
Fluoranthene	41.12	5	40	0	103	80	120	0	
Fluorene	40.51	5	40	0	101	80	120	0	
Hexachlorobenzene	38.89	5	40	0	97.2	80	120	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Hexachlorobutadiene	40.7	5	40	0	102	80	120	0
Hexachlorocyclopentadiene	34.01	5	40	0	85	80	120	0
Hexachloroethane	42.64	5	40	0	107	80	120	0
Indeno (1,2,3-cd) pyrene	38.78	5	40	0	97	80	120	0
Isophorone	37.97	5	40	0	94.9	80	120	0
N-Nitroso-di-n-propylamine	39.44	5	40	0	98.6	80	120	0
N-Nitrosodimethylamine	37.79	5	40	0	94.5	80	120	0
N-Nitrosodiphenylamine	39.93	5	40	0	99.8	80	120	0
Naphthalene	40.8	5	40	0	102	80	120	0
Nitrobenzene	39.93	5	40	0	99.8	80	120	0
Pentachlorophenol	37.39	20	40	0	93.5	80	120	0
Phenanthrene	38.61	5	40	0	96.5	80	120	0
Phenol	40.24	5	40	0	100	80	120	0
Pyrene	41.41	5	40	0	104	80	120	0
Pyridine	39.44	20	40	0	98.6	80	120	0
1,4-Dichlorobenzene-d4	20	0	0	0	0	0	0	0
Acenaphthene-d10	20	0	0	0	0	0	0	0
Chrysene-d12	20	0	0	0	0	0	0	0
Naphthalene-d8	20	0	0	0	0	0	0	0
Perylene-d12	20	0	0	0	0	0	0	0
Phenanthrene-d10	20	0	0	0	0	0	0	0
Surr: 1,2-Dichlorobenzene-d4	39.7	5	40	0	99.2	25	125	0
Surr: 2,4,6-Tribromophenol	29.19	5	40	0	73	25	125	0
Surr: 2-Chlorophenol-d4	32.93	5	40	0	82.3	25	125	0
Surr: 2-Fluorobiphenyl	42.99	5	40	0	107	21	115	0
Surr: 2-Fluorophenol	29.14	5	40	0	72.8	25	121	0
Surr: 4-Terphenyl-d14	41.19	5	40	0	103	20	137	0
Surr: Nitrobenzene-d5	38.91	5	40	0	97.3	23	120	0
Surr: Phenol-d6	32.54	5	40	0	81.4	24	113	0

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **CCV 40PPM** Batch ID: **R20976** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/4/2002 1:57:00 AM** Prep Date:
Client ID: Run ID: **MSHPSEMI 01_020503** SeqNo: **267133**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	39.4	5	40	0	98.5	80	120	0			
1,2-Dichlorobenzene	40.66	5	40	0	102	80	120	0			
1,2-Diphenylhydrazine	43.9	5	40	0	110	80	120	0			
1,3-Dichlorobenzene	38.23	5	40	0	95.6	80	120	0			
1,4-Dichlorobenzene	41.11	5	40	0	103	80	120	0			
2,4,5-Trichlorophenol	42.06	5	40	0	105	80	120	0			
2,4,6-Trichlorophenol	35.26	5	40	0	88.1	80	120	0			
2,4-Dichlorophenol	39.4	5	40	0	98.5	80	120	0			
2,4-Dimethylphenol	39.04	5	40	0	97.6	80	120	0			
2,4-Dinitrophenol	23.48	20	40	0	58.7	80	120	0			S
2,4-Dinitrotoluene	39.14	20	40	0	97.8	80	120	0			
2,6-Dichlorophenol	41.1	5	40	0	103	80	120	0			
2,6-Dinitrotoluene	39.32	5	40	0	98.3	80	120	0			
2-Chloronaphthalene	41.73	5	40	0	104	80	120	0			
2-Chlorophenol	40.93	5	40	0	102	80	120	0			
2-Methylnaphthalene	38.52	5	40	0	96.3	80	120	0			
2-Methylphenol	38.01	5	40	0	95	80	120	0			
2-Nitroaniline	39.26	5	40	0	98.1	80	120	0			
2-Nitrophenol	39.12	5	40	0	97.8	80	120	0			
3,3'-Dichlorobenzidine	45.28	20	40	0	113	80	120	0			
3,3'-Dimethylbenzidine	39.89	20	40	0	99.7	80	120	0			
3-Methylphenol	79.94	5	80	0	99.9	80	120	0			
3-Nitroaniline	40.41	20	40	0	101	80	120	0			
4,6-Dinitro-2-methylphenol	32.65	20	40	0	81.6	80	120	0			
4-Bromophenyl-phenylether	39.53	5	40	0	98.8	80	120	0			
4-Chloro-3-methylphenol	40.48	5	40	0	101	80	120	0			
4-Chloroaniline	41.08	20	40	0	103	80	120	0			
4-Chlorophenyl phenylether	37.8	5	40	0	94.5	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

4-Methylphenol	79.98	5	80	0	100	80	120	0	
4-Nitroaniline	38.17	20	40	0	95.4	80	120	0	
4-Nitrophenol	39.78	20	40	0	99.4	80	120	0	
Acenaphthene	40.83	5	40	0	102	80	120	0	
Acenaphthylene	40.66	5	40	0	102	80	120	0	
Acetophenone	40.96	5	40	0	102	80	120	0	
Aniline	39.09	20	40	0	97.7	80	120	0	
Anthracene	40.34	5	40	0	101	80	120	0	
Benz (a) anthracene	39.87	5	40	0	99.7	80	120	0	
Benzidine	40.58	20	40	0	101	80	120	0	
Benzo (a) pyrene	40.95	5	40	0	102	80	120	0	
Benzo (b) fluoranthene	36.41	5	40	0	91	80	120	0	
Benzo (g,h,i) perylene	39.99	5	40	0	100	80	120	0	
Benzo (k) fluoranthene	43.53	5	40	0	109	80	120	0	
Benzoic acid	31.78	50	40	0	79.4	80	120	0	S
Benzyl alcohol	37.94	50	40	0	94.8	80	120	0	
Bis (2-chloroethoxy) methane	40.53	5	40	0	101	80	120	0	
Bis (2-chloroethyl) ether	42.2	5	40	0	106	80	120	0	
Bis (2-chloroisopropyl) ether	41.82	5	40	0	104	80	120	0	
Bis (2-ethylhexyl) phthalate	42.98	5	40	0	107	80	120	0	
Butyl benzyl phthalate	42.26	5	40	0	106	80	120	0	
Carbazole	40.63	10	40	0	102	80	120	0	
Chrysene	41.38	5	40	0	103	80	120	0	
Di-n-butyl phthalate	40.52	5	40	0	101	80	120	0	
Di-n-octyl phthalate	44.8	5	40	0	112	80	120	0	
Dibenz (a,h) anthracene	44.1	5	40	0	110	80	120	0	
Dibenzofuran	38.91	5	40	0	97.3	80	120	0	
Diethyl phthalate	39.09	5	40	0	97.7	80	120	0	
Dimethyl phthalate	40.25	5	40	0	101	80	120	0	
Diphenylamine	38.02	5	40	0	95	80	120	0	
Fluoranthene	40.36	5	40	0	101	80	120	0	
Fluorene	39.5	5	40	0	98.8	80	120	0	
Hexachlorobenzene	38.9	5	40	0	97.2	80	120	0	

Hexachlorobutadiene	40.38	5	40	0	101	80	120	0
Hexachlorocyclopentadiene	34.98	5	40	0	87.4	80	120	0
Hexachloroethane	42.9	5	40	0	107	80	120	0
Indeno (1,2,3-cd) pyrene	38.59	5	40	0	96.5	80	120	0
Isophorone	37.99	5	40	0	95	80	120	0
N-Nitroso-di-n-propylamine	40.74	5	40	0	102	80	120	0
N-Nitrosodimethylamine	39.28	5	40	0	98.2	80	120	0
N-Nitrosodiphenylamine	37.95	5	40	0	94.9	80	120	0
Naphthalene	40.65	5	40	0	102	80	120	0
Nitrobenzene	39.64	5	40	0	99.1	80	120	0
Pentachlorophenol	33.72	20	40	0	84.3	80	120	0
Phenanthrene	38.13	5	40	0	95.3	80	120	0
Phenol	41.3	5	40	0	103	80	120	0
Pyrene	41.97	5	40	0	105	80	120	0
Pyridine	40.51	20	40	0	101	80	120	0
1,4-Dichlorobenzene-d4	20	0	0	0	0	0	0	0
Acenaphthene-d10	20	0	0	0	0	0	0	0
Chrysene-d12	20	0	0	0	0	0	0	0
Naphthalene-d8	20	0	0	0	0	0	0	0
Perylene-d12	20	0	0	0	0	0	0	0
Phenanthrene-d10	20	0	0	0	0	0	0	0
Surr: 1,2-Dichlorobenzene-d4	40.41	5	40	0	101	25	125	0
Surr: 2,4,6-Tribromophenol	27.85	5	40	0	69.6	25	125	0
Surr: 2-Chlorophenol-d4	33.35	5	40	0	83.4	25	125	0
Surr: 2-Fluorobiphenyl	44	5	40	0	110	21	115	0
Surr: 2-Fluorophenol	29.53	5	40	0	73.8	25	121	0
Surr: 4-Terphenyl-d14	41.06	5	40	0	103	20	137	0
Surr: Nitrobenzene-d5	38.89	5	40	0	97.2	23	120	0
Surr: Phenol-d6	32.68	5	40	0	81.7	24	113	0

CLIENT: Toltest, Inc.
Work Order: 02-1217
Project: 41792.01/NTC-324 Great Lakes

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv std 1-4 c | Batch ID: 5657 | Test Code: SW8310 | Units: µg/L | Analysis Date 5/9/2002 12:52:56 PM | Prep Date:
Client ID: | Run ID: LC1_020508E | SeqNo: 268688

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	25.22	2	25	0	101	85	115	0			
Acenaphthene	50	2	50	0	100	85	115	0			
Acenaphthylene	25.17	2	25	0	101	85	115	0			
Anthracene	1.024	2	1	0	102	85	115	0			
Benz (a) anthracene	2.549	2	2.5	0	102	85	115	0			
Benzo (a) pyrene	2.676	2	2.5	0	107	85	115	0			
Benzo (g,h,i) perylene	4.143	2	4	0	104	85	115	0			
Benzo (k) fluoranthene	0.9706	2	1	0	97.1	85	115	0			
Benzo(b)fluoranthene	1.008	2	1	0	101	85	115	0			
Chrysene	2.548	2	2.5	0	102	85	115	0			
Dibenz (a,h) anthracene	10.14	2	10	0	101	85	115	0			
Fluoranthene	2.514	2	2.5	0	100	85	115	0			
Fluorene	5.018	2	5	0	100	85	115	0			
Indeno (1,2,3-cd) pyrene	2.55	2	2.5	0	102	85	115	0			
Naphthalene	24.97	2	25	0	99.9	85	115	0			
Phenanthrene	2.011	2	2	0	100	85	115	0			
Pyrene	5.097	2	5	0	102	85	115	0			
Surr: p-Terphenyl	10.28	0	10	0	103	85	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits

Chain of Custody Record

TOLEDO, INC. 1915 N. 12th St., P.O. Box 2186, Toledo, OH 43603-2186; Voice (419) 241-7175, Fax (419) 321-6259
Ship To Address: ATTN: RECEIVING LAB, 1810 N. 12th St., Toledo, OH 43624-1304; Voice (419) 241-7175, Fax (419) 241-1808

Sent From: ☐ Corporate ☐ Plymouth ☐ Pittsburgh ☒ Other Great Lakes

38681 Page 1 of 1

Project No.: 41792.01
Client: TJ Test, Inc 1000 Northpoint Blvd, Waukegan
P.O. No.:
Project/Location: NTC-324, Great Lakes, IL
Project Mgr.: Khush Mander
Sampler's Name: Timothy A. Boos
Phone No.: 847 689-0697
Sampler's Signature: Timothy A. Boos

Parameters

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	VOC's 5035/8260	B/N 8270	PNA 8100	Metals					Preserved Yes/No	LAB USE ONLY Lab #
1	SB1	5/1/02	8:31	G	Water		4	X	X	X	X						Arsenic
2	SB2	5/1/02	8:50	G	Water		4	X	X	X	X						Barium
3	SB3	5/1/02	9:12	G	Water		4	X	X	X	X						Cadium
4																	total Chrom.
5																	lead
6																	Mercury,
7																	Selenium
8																	
9																	
10																	

Item No.	Relinquished By:	Date / Time	Received By:	Date / Time
1-3	Timothy A Boos	5/1/02 9:30	FedEx	
			Robin Eade	5/2 800

LAB USE ONLY

Were samples delivered ☐ in person ☐ by courier
Were samples preserved ☐ in field ☐ in lab ☐ N/A
Temp of samples 1 °C
Did samples arrive intact and sealed? ☐ yes ☐ no ☐ N/A
Were proper containers used? ☐ yes ☐ no
Was container labeled properly for contents? ☐ yes ☐ no
Were samples packaged properly for type of material? ☐ yes ☐ no
Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
Comments:

TAT

Distribution: [illegible]nal plus one accompanies shipment (white and yellow); copy to coordinator fie[illegible] pink)

Rev. 4/99

AAC Trinity, Inc.
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331

May 08, 2002

Khush Mander
Toltest, Inc.
1000 Northpoint Blvd
Waukegan, IL 60085
TEL: (847) 689-0697
FAX (847) 689-0698

Project ID: 41792.01/NTC-324 Lab Order 02-1218

Dear Khush Mander,

AAC Trinity received 3 samples on 5/2/2002 for the analyses presented in the following report.

Sample analyses proceeded unremarkably unless a Case Narrative has been included with this report denoting specific problems encountered. Associated quality control data was within laboratory defined or method specified acceptance limits except as noted.

All samples were extracted and analyzed within the holding time recommended for the applicable method unless noted in the Case Narrative.

If you have any questions regarding these results, please feel free to call. (248) 848 9656

Thank you for using AAC Trinity laboratories for your analytical needs. We look forward to working with you on future projects.

Sincerely,

Charles O'Bryan
Director of Analytical Services

Becky Arndt, OH

AAC Trinity

Date: *08-May-02*

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB1-02
Lab Order:	02-1218	**Collection Date:**	4/29/2002 12:11:00 PM
Project:	41792.01/NTC-324		
Lab ID:	02-1218-01	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA METHOD 6010A (SOIL)		**EPA6010A**				Analyst: **JMK**
Barium	26,000	930		µg/Kg-dry	1	5/6/2002
Chromium	14,000	460		µg/Kg-dry	1	5/6/2002
Lead	5,000	930		µg/Kg-dry	1	5/6/2002
ARSENIC- EPA METHOD 7061		**EPA7061**				Analyst: **AV**
Arsenic	3,400	93		µg/Kg-dry	1	5/7/2002
CADMIUM BY EPA METHOD 7131		**EPA7130**				Analyst: **AV**
Cadmium	530	46		µg/Kg-dry	1	5/7/2002
MERCURY BY EPA METHOD 7470		**EPA7470**				Analyst: **JMK**
Mercury	130	95		µg/Kg-dry	1	5/6/2002
SELENIUM BY EPA METHOD 7741		**EPA7741**				Analyst: **AV**
Selenium	ND	190		µg/Kg-dry	1	5/7/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: **ZW**
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1,1-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1,2-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,1-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2,3-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2,3-Trichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2,4-Trimethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2-Dibromoethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,3,5-Trimethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,3-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,3-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
1,4-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2-Butanone	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2-Chloroethyl vinyl ether	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2-Hexanone	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
2-Methylnaphthalene	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit if used

CLIENT: Toltest, Inc. **Client Sample ID:** SB1-02
Lab Order: 02-1218 **Collection Date:** 4/29/2002 12:11:00 PM
Project: 41792.01/NTC-324
Lab ID: 02-1218-01 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Acetone	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Acetonitrile	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Acrolein (Propenal)	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Acrylonitrile	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Benzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Bromobenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Bromochloromethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Bromodichloromethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Bromoform	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Bromomethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Carbon Disulfide	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Carbon tetrachloride	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Chlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Chlorodibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Chloroethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Chloroform	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Chloromethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
cis-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
cis-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Dibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Dichlorodifluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Diethyl ether	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Ethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Hexachlorobutadiene	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Iodomethane	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Isopropylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Methyl-tert-butyl-ether	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Methylene chloride	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
n-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
n-Propylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Naphthalene	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
p-Isopropyltoluene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
sec-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Styrene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
tert-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Tetrachloroethene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Toluene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
trans-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
trans-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Trichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Client Sample ID: SB1-02
Lab Order: 02-1218
Collection Date: 4/29/2002 12:11:00 PM
Project: 41792.01/NTC-324
Lab ID: 02-1218-01
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Trichlorofluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Vinyl acetate	ND	250		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Vinyl chloride	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Xylenes (Total)	ND	150		µg/Kg-dry	50	5/3/2002 5:47:00 PM
m,p-xylene	ND	100		µg/Kg-dry	50	5/3/2002 5:47:00 PM
o-Xylene	ND	50		µg/Kg-dry	50	5/3/2002 5:47:00 PM
Surr: 4-Bromofluorobenzene	96.6	90.1-114		%REC	50	5/3/2002 5:47:00 PM
Surr: Dibromofluoromethane	84.4	66.3-124		%REC	50	5/3/2002 5:47:00 PM
Surr: Toluene-d8	94.6	83.2-115		%REC	50	5/3/2002 5:47:00 PM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
1,2-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
1,2-Diphenylhydrazine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
1,3-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
1,4-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4-Dichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4-Dimethylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4-Dinitrophenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,4-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,6-Dichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2,6-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Chloronaphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Chlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Methylnaphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
2-Nitrophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
3,3'-Dichlorobenzidine	ND	2,000		µg/Kg-dry	1	5/7/2002 4:02:00 PM
3-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
3-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4,6-Dinitro-2-methylphenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Chloroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Chlorophenyl phenylether	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
4-Nitrophenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Acenaphthene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *08-May-02*

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB1-02
Lab Order:	02-1218	**Collection Date:**	4/29/2002 12:11:00 PM
Project:	41792.01/NTC-324		
Lab ID:	02-1218-01	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthylene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Aniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benz (a) anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzidine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzo (a) pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzo (b) fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzo (g,h,i) perylene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzo (k) fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzoic acid	ND	3,300		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Benzyl alcohol	ND	1,300		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Bis (2-chloroethoxy) methane	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Bis (2-chloroethyl) ether	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Bis (2-chloroisopropyl) ether	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Bis (2-ethylhexyl) phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Butyl benzyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Carbazole	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Chrysene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Di-n-butyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Di-n-octyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Dibenz (a,h) anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Dibenzofuran	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Diethyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Dimethyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Diphenylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Fluorene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Hexachlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Hexachlorobutadiene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Hexachlorocyclopentadiene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Hexachloroethane	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Indeno (1,2,3-cd) pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Isophorone	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
N-Nitroso-di-n-propylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Naphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Nitrobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Pentachlorophenol	ND	800		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Phenanthrene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Phenol	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM
Pyridine	ND	330		µg/Kg-dry	1	5/7/2002 4:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit if used

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB1-02
Lab Order:	02-1218	**Collection Date:**	4/29/2002 12:11:00 PM
Project:	41792.01/NTC-324		
Lab ID:	02-1218-01	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	63.8	10-114		%REC	1	5/7/2002 4:02:00 PM
Surr: 2-Fluorobiphenyl	89.4	30.1-113		%REC	1	5/7/2002 4:02:00 PM
Surr: 2-Fluorophenol	63.0	10-94.7		%REC	1	5/7/2002 4:02:00 PM
Surr: 4-Terphenyl-d14	106	11-150		%REC	1	5/7/2002 4:02:00 PM
Surr: Nitrobenzene-d5	56.5	24.2-103		%REC	1	5/7/2002 4:02:00 PM
Surr: Phenol-d6	63.2	22.7-94		%REC	1	5/7/2002 4:02:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **VD**
Percent Moisture	15	1.0		wt%	1	5/3/2002

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quanititation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Client Sample ID: SB2-03
Lab Order: 02-1218
Collection Date: 4/29/2002 10:48:00 AM
Project: 41792.01/NTC-324
Lab ID: 02-1218-02
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA METHOD 6010A (SOIL)		**EPA6010A**				Analyst: JMK
Barium	76,000	840		µg/Kg-dry	1	5/6/2002
Chromium	17,000	420		µg/Kg-dry	1	5/6/2002
Lead	32,000	840		µg/Kg-dry	1	5/6/2002
ARSENIC- EPA METHOD 7061		**EPA7061**				Analyst: AV
Arsenic	6,800	84		µg/Kg-dry	1	5/7/2002
CADMIUM BY EPA METHOD 7131		**EPA7130**				Analyst: AV
Cadmium	720	42		µg/Kg-dry	1	5/7/2002
MERCURY BY EPA METHOD 7470		**EPA7470**				Analyst: JMK
Mercury	ND	80		µg/Kg-dry	1	5/6/2002
SELENIUM BY EPA METHOD 7741		**EPA7741**				Analyst: AV
Selenium	ND	170		µg/Kg-dry	1	5/7/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: ZW
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1,1-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1,2-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,1-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2,3-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2,3-Trichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2,4-Trimethylbenzene	89	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2-Dibromoethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,3,5-Trimethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,3-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,3-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
1,4-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2-Butanone	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2-Chloroethyl vinyl ether	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2-Hexanone	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
2-Methylnaphthalene	3,000	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Lab Order: 02-1218
Project: 41792.01/NTC-324
Lab ID: 02-1218-02

Client Sample ID: SB2-03
Collection Date: 4/29/2002 10:48:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Acetone	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Acetonitrile	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Acrolein (Propenal)	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Acrylonitrile	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Benzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Bromobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Bromochloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Bromodichloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Bromoform	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Bromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Carbon Disulfide	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Carbon tetrachloride	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Chlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Chlorodibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Chloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Chloroform	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Chloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
cis-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
cis-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Dibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Dichlorodifluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Diethyl ether	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Ethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Hexachlorobutadiene	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Iodomethane	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Isopropylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Methyl-tert-butyl-ether	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Methylene chloride	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
n-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
n-Propylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Naphthalene	260	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
p-Isopropyltoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
sec-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Styrene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
tert-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Tetrachloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Toluene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
trans-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
trans-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Trichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM

Qualifiers:

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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Client Sample ID: SB2-03
Lab Order: 02-1218
Collection Date: 4/29/2002 10:48:00 AM
Project: 41792.01/NTC-324
Lab ID: 02-1218-02
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Trichlorofluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Vinyl acetate	ND	250		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Vinyl chloride	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Xylenes (Total)	ND	150		µg/Kg-dry	50	5/3/2002 6:15:00 PM
m,p-xylene	ND	100		µg/Kg-dry	50	5/3/2002 6:15:00 PM
o-Xylene	ND	50		µg/Kg-dry	50	5/3/2002 6:15:00 PM
Surr: 4-Bromofluorobenzene	96.2	90.1-114		%REC	50	5/3/2002 6:15:00 PM
Surr: Dibromofluoromethane	85.9	66.3-124		%REC	50	5/3/2002 6:15:00 PM
Surr: Toluene-d8	94.8	83.2-115		%REC	50	5/3/2002 6:15:00 PM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
1,2-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
1,2-Diphenylhydrazine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
1,3-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
1,4-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4,5-Trichlorophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4,6-Trichlorophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4-Dichlorophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4-Dimethylphenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4-Dinitrophenol	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,4-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,6-Dichlorophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2,6-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Chloronaphthalene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Chlorophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Methylnaphthalene	6,900	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Methylphenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
2-Nitrophenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
3,3'-Dichlorobenzidine	ND	2,000		µg/Kg-dry	1	5/8/2002 8:57:00 AM
3-Methylphenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
3-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4,6-Dinitro-2-methylphenol	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Bromophenyl-phenylether	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Chloroaniline	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Chlorophenyl phenylether	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Methylphenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
4-Nitrophenol	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Acenaphthene	1,200	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
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E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *08-May-02*

CLIENT: Toltest, Inc.
Lab Order: 02-1218
Project: 41792.01/NTC-324
Lab ID: 02-1218-02

Client Sample ID: SB2-03
Collection Date: 4/29/2002 10:48:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthylene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Aniline	ND	1,700		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Anthracene	1,100	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benz (a) anthracene	1,300	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzidine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzo (a) pyrene	860	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzo (b) fluoranthene	300	330	J	µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzo (g,h,i) perylene	300	330	J	µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzo (k) fluoranthene	200	330	J	µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzoic acid	ND	3,300		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Benzyl alcohol	ND	1,300		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Bis (2-chloroethoxy) methane	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Bis (2-chloroethyl) ether	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Bis (2-chloroisopropyl) ether	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Bis (2-ethylhexyl) phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Butyl benzyl phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Carbazole	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Chrysene	1,700	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Di-n-butyl phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Di-n-octyl phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Dibenz.(a,h) anthracene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Dibenzofuran	800	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Diethyl phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Dimethyl phthalate	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Diphenylamine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Fluoranthene	820	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Fluorene	1,800	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Hexachlorobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Hexachlorobutadiene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Hexachlorocyclopentadiene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Hexachloroethane	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Indeno (1,2,3-cd) pyrene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Isophorone	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
N-Nitroso-di-n-propylamine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Naphthalene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Nitrobenzene	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Pentachlorophenol	ND	800		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Phenanthrene	8,200	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Phenol	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Pyrene	4,700	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM
Pyridine	ND	330		µg/Kg-dry	1	5/8/2002 8:57:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT:	Toltest, Inc.	**Client Sample ID:**	SB2-03
Lab Order:	02-1218	**Collection Date:**	4/29/2002 10:48:00 AM
Project:	41792.01/NTC-324		
Lab ID:	02-1218-02	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	60.4	10-114		%REC	1	5/8/2002 8:57:00 AM
Surr: 2-Fluorobiphenyl	88.4	30.1-113		%REC	1	5/8/2002 8:57:00 AM
Surr: 2-Fluorophenol	49.2	10-94.7		%REC	1	5/8/2002 8:57:00 AM
Surr: 4-Terphenyl-d14	102	11-150		%REC	1	5/8/2002 8:57:00 AM
Surr: Nitrobenzene-d5	70.9	24.2-103		%REC	1	5/8/2002 8:57:00 AM
Surr: Phenol-d6	61.3	22.7-94		%REC	1	5/8/2002 8:57:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **VD**
Percent Moisture	24	1.0		wt%	1	5/3/2002

Qualifiers:

- ND - Not Detected at the Reporting Limit
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- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Client Sample ID: SB3-03
Lab Order: 02-1218
Collection Date: 4/29/2002 1:20:00 PM
Project: 41792.01/NTC-324
Lab ID: 02-1218-03
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA METHOD 6010A (SOIL)		**EPA6010A**				Analyst: **JMK**
Barium	19,000	990		µg/Kg-dry	1	5/6/2002
Chromium	9,700	500		µg/Kg-dry	1	5/6/2002
Lead	8,200	990		µg/Kg-dry	1	5/6/2002
ARSENIC- EPA METHOD 7061		**EPA7061**				Analyst: **AV**
Arsenic	6,800	99		µg/Kg-dry	1	5/7/2002
CADMIUM BY EPA METHOD 7131		**EPA7130**				Analyst: **AV**
Cadmium	430	50		µg/Kg-dry	1	5/7/2002
MERCURY BY EPA METHOD 7470		**EPA7470**				Analyst: **JMK**
Mercury	ND	71		µg/Kg-dry	1	5/6/2002
SELENIUM BY EPA METHOD 7741		**EPA7741**				Analyst: **AV**
Selenium	ND	200		µg/Kg-dry	1	5/7/2002
VOLATILE ORGANIC COMPOUNDS - EPA 8260		**EPA8260**				Analyst: **ZW**
1,1,1,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1,1-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1,2,2-Tetrachloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1,2-Trichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,1-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2,3-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2,3-Trichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2,4-Trichlorobenzene	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2,4-Trimethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2-Dibromoethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2-Dichloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,3,5-Trimethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,3-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,3-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
1,4-Dichlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2,2-Dichloropropane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2-Butanone	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2-Chloroethyl vinyl ether	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2-Hexanone	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
2-Methylnaphthalene	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Client Sample ID: SB3-03
Lab Order: 02-1218
Collection Date: 4/29/2002 1:20:00 PM
Project: 41792.01/NTC-324
Lab ID: 02-1218-03
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
4-Chlorotoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Acetone	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Acetonitrile	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Acrolein (Propenal)	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Acrylonitrile	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Benzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Bromobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Bromochloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Bromodichloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Bromoform	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Bromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Carbon Disulfide	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Carbon tetrachloride	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Chlorobenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Chlorodibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Chloroethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Chloroform	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Chloromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
cis-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
cis-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Dibromomethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Dichlorodifluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Diethyl ether	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Ethylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Hexachlorobutadiene	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Iodomethane	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Isopropylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Methyl-tert-butyl-ether	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Methylene chloride	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
n-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
n-Propylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Naphthalene	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
p-Isopropyltoluene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
sec-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Styrene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
tert-Butylbenzene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Tetrachloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Toluene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
trans-1,2-Dichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
trans-1,3-Dichloropropene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Trichloroethene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Lab Order: 02-1218
Project: 41792.01/NTC-324
Lab ID: 02-1218-03

Client Sample ID: SB3-03
Collection Date: 4/29/2002 1:20:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Trichlorofluoromethane	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Vinyl acetate	ND	250		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Vinyl chloride	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Xylenes (Total)	ND	150		µg/Kg-dry	50	5/3/2002 6:42:00 PM
m,p-xylene	ND	100		µg/Kg-dry	50	5/3/2002 6:42:00 PM
o-Xylene	ND	50		µg/Kg-dry	50	5/3/2002 6:42:00 PM
Surr: 4-Bromofluorobenzene	97.3	90.1-114		%REC	50	5/3/2002 6:42:00 PM
Surr: Dibromofluoromethane	84.6	66.3-124		%REC	50	5/3/2002 6:42:00 PM
Surr: Toluene-d8	95.3	83.2-115		%REC	50	5/3/2002 6:42:00 PM
SEMIVOLATILE ORGANIC CMPDS. - EPA 8270		**EPA8270**				Analyst: **RW**
1,2,4-Trichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
1,2-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
1,2-Diphenylhydrazine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
1,3-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
1,4-Dichlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4-Dichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4-Dimethylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4-Dinitrophenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,4-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,6-Dichlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2,6-Dinitrotoluene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Chloronaphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Chlorophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Methylnaphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
2-Nitrophenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
3,3'-Dichlorobenzidine	ND	2,000		µg/Kg-dry	1	5/7/2002 4:48:00 PM
3-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
3-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4,6-Dinitro-2-methylphenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Chloro-3-methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Chloroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Chlorophenyl phenylether	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Methylphenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Nitroaniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
4-Nitrophenol	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Acenaphthene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

AAC Trinity

Date: *08-May-02*

CLIENT: Toltest, Inc.
Lab Order: 02-1218
Project: 41792.01/NTC-324
Lab ID: 02-1218-03

Client Sample ID: SB3-03
Collection Date: 4/29/2002 1:20:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Acenaphthylene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Aniline	ND	1,700		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benz (a) anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzidine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzo (a) pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzo (b) fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzo (g,h,i) perylene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzo (k) fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzoic acid	ND	3,300		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Benzyl alcohol	ND	1,300		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Bis (2-chloroethoxy) methane	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Bis (2-chloroethyl) ether	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Bis (2-chloroisopropyl) ether	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Bis (2-ethylhexyl) phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Butyl benzyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Carbazole	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Chrysene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Di-n-butyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Di-n-octyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Dibenz (a,h) anthracene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Dibenzofuran	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Diethyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Dimethyl phthalate	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Diphenylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Fluoranthene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Fluorene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Hexachlorobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Hexachlorobutadiene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Hexachlorocyclopentadiene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Hexachloroethane	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Indeno (1,2,3-cd) pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Isophorone	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
N-Nitroso-di-n-propylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Naphthalene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Nitrobenzene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Pentachlorophenol	ND	800		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Phenanthrene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Phenol	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Pyrene	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM
Pyridine	ND	330		µg/Kg-dry	1	5/7/2002 4:48:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Lab Order: 02-1218
Project: 41792.01/NTC-324
Lab ID: 02-1218-03

Client Sample ID: SB3-03
Collection Date: 4/29/2002 1:20:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	46.0	10-114		%REC	1	5/7/2002 4:48:00 PM
Surr: 2-Fluorobiphenyl	67.6	30.1-113		%REC	1	5/7/2002 4:48:00 PM
Surr: 2-Fluorophenol	49.8	10-94.7		%REC	1	5/7/2002 4:48:00 PM
Surr: 4-Terphenyl-d14	93.3	11-150		%REC	1	5/7/2002 4:48:00 PM
Surr: Nitrobenzene-d5	44.9	24.2-103		%REC	1	5/7/2002 4:48:00 PM
Surr: Phenol-d6	48.2	22.7-94		%REC	1	5/7/2002 4:48:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **VD**
Percent Moisture	19	1.0		wt%	1	5/3/2002

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit if used

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **mb-5648** Batch ID: **5648** Test Code: **EPA6010A** Units: **µg/Kg** Analysis Date **5/6/2002** Prep Date: **5/3/2002**

Client ID: Run ID: **ICP1_020506B** SeqNo: **267399**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	1000									
Chromium	ND	500									
Lead	ND	1000									

Qualifiers:
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J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5648** Batch ID: **5648** Test Code: **EPA7061** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507A** SeqNo: **268043**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	100									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5648** Batch ID: **5648** Test Code: **EPA7130** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507B** SeqNo: **268106**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	50									

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **mb-5656** Batch ID: **5656** Test Code: **EPA7470** Units: **µg/Kg** Analysis Date **5/6/2002** Prep Date: **5/6/2002**
Client ID: Run ID: **ICP1_020507A** SeqNo: **267555**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	100									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5648** Batch ID: **5648** Test Code: **EPA7741** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507C** SeqNo: **268134**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	200									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5648** Batch ID: **5648** Test Code: **EPA7760** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507D** SeqNo: **268178**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	500									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **mblk** Batch ID: **R20962** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/3/2002 9:01:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503A** SeqNo: **267147**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1									
1,1,1-Trichloroethane	ND	1									
1,1,2,2-Tetrachloroethane	ND	1									
1,1,2-Trichloroethane	ND	1									
1,1-Dichloroethane	ND	1									
1,1-Dichloroethene	ND	1									
1,1-Dichloropropene	ND	1									
1,2,3-Trichlorobenzene	ND	5									
1,2,3-Trichloropropane	ND	1									
1,2,4-Trichlorobenzene	ND	5									
1,2,4-Trimethylbenzene	ND	1									
1,2-Dibromo-3-chloropropane	ND	1									
1,2-Dibromoethane	ND	1									
1,2-Dichlorobenzene	ND	1									
1,2-Dichloroethane	ND	1									
1,2-Dichloropropane	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,3-Dichlorobenzene	ND	1									
1,3-Dichloropropane	ND	1									
1,4-Dichlorobenzene	ND	1									
2,2-Dichloropropane	ND	1									
2-Butanone	ND	5									
2-Chloroethyl vinyl ether	ND	5									
2-Chlorotoluene	ND	1									
2-Hexanone	ND	1									
2-Methylnaphthalene	ND	5									
4-Chlorotoluene	ND	1									
4-Methyl-2-pentanone	ND	5									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Acetone	ND	5	
Acetonitrile	ND	5	
Acrolein (Propenal)	ND	5	
Acrylonitrile	ND	5	
Benzene	ND	1	
Bromobenzene	ND	1	
Bromochloromethane	ND	1	
Bromodichloromethane	ND	1	
Bromoform	ND	1	
Bromomethane	ND	1	
Carbon Disulfide	ND	5	
Carbon tetrachloride	ND	1	
Chlorobenzene	ND	1	
Chlorodibromomethane	ND	1	
Chloroethane	ND	1	
Chloroform	ND	1	
Chloromethane	ND	1	
cis-1,2-Dichloroethene	ND	1	
cis-1,3-Dichloropropene	ND	1	
Dibromomethane	ND	1	
Dichlorodifluoromethane	ND	1	
Diethyl ether	ND	5	
Ethylbenzene	ND	1	
Hexachlorobutadiene	ND	5	
Iodomethane	ND	5	
Isopropylbenzene	ND	1	
Methyl-tert-butyl-ether	ND	5	
Methylene chloride	3.58	5	J
n-Butylbenzene	ND	1	
n-Propylbenzene	ND	1	
Naphthalene	ND	5	
p-Isopropyltoluene	ND	1	
sec-Butylbenzene	ND	1	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Styrene	ND	1						
tert-Butylbenzene	ND	1						
Tetrachloroethene	ND	1						
Toluene	ND	1						
trans-1,2-Dichloroethene	ND	1						
trans-1,3-Dichloropropene	ND	1						
Trichloroethene	ND	1						
Trichlorofluoromethane	ND	1						
Vinyl acetate	ND	5						
Vinyl chloride	ND	1						
Xylenes (Total)	ND	3						
1,4-Dichlorobenzene-d4	50	0						
1,4-Difluorobenzene	50	0						
Pentafluorobenzene	50	0						
Surr: 4-Bromofluorobenzene	52.66	1	50	0	105	90.1	114	0
Surr: Dibromofluoromethane	46.98	1	50	0	94	66.3	124	0
Surr: Toluene-d8	46.98	1	50	0	94	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5643** Batch ID: **5643** Test Code: **EPA8270** Units: **µg/Kg** Analysis Date **5/7/2002 1:43:00 PM** Prep Date: **5/6/2002**
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268265**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,2-Diphenylhydrazine	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	330									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1700									
2,4-Dinitrotoluene	ND	330									
2,6-Dichlorophenol	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1700									
2-Nitrophenol	ND	330									
3,3'-Dichlorobenzidine	ND	2000									
3-Methylphenol	ND	330									
3-Nitroaniline	ND	1700									
4,6-Dinitro-2-methylphenol	ND	1700									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	330									
4-Chloroaniline	ND	1700									
4-Chlorophenyl phenylether	ND	330									
4-Methylphenol	ND	330									

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT:	Toltest, Inc.
Work Order:	02-1218
Project:	41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

4-Nitroaniline	ND	1700
4-Nitrophenol	ND	1700
Acenaphthene	ND	330
Acenaphthylene	ND	330
Aniline	ND	1700
Anthracene	ND	330
Benz (a) anthracene	ND	330
Benzidine	ND	330
Benzo (a) pyrene	ND	330
Benzo (b) fluoranthene	ND	330
Benzo (g,h,i) perylene	ND	330
Benzo (k) fluoranthene	ND	330
Benzoic acid	ND	3300
Benzyl alcohol	ND	1300
Bis (2-chloroethoxy) methane	ND	330
Bis (2-chloroethyl) ether	ND	330
Bis (2-chloroisopropyl) ether	ND	330
Bis (2-ethylhexyl) phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dibenz (a,h) anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Diphenylamine	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Method Blank

Hexachloroethane	ND	330						
Indeno (1,2,3-cd) pyrene	ND	330						
Isophorone	ND	330						
N-Nitroso-di-n-propylamine	ND	330						
N-Nitrosodiphenylamine	ND	330						
Naphthalene	ND	330						
Nitrobenzene	ND	330						
Pentachlorophenol	ND	800						
Phenanthrene	ND	330						
Phenol	ND	330						
Pyrene	ND	330						
Pyridine	ND	330						
1,4-Dichlorobenzene-d4	1333	0						
Acenaphthene-d10	1333	0						
Chrysene-d12	1333	0						
Naphthalene-d8	1333	0						
Perylene-d12	1333	0						
Phenanthrene-d10	1333	0						
Surr: 2,4,6-Tribromophenol	1089	1	2500	0	43.5	18.1	115	0
Surr: 2-Fluorobiphenyl	1117	1	1666	0	67	33	114	0
Surr: 2-Fluorophenol	1201	1	2500	0	48	16.9	98.1	0
Surr: 4-Terphenyl-d14	1533	1	1666	0	92	22.6	150	0
Surr: Nitrobenzene-d5	750	1	1666	0	45	32.7	99.4	0
Surr: Phenol-d6	1292	1	2500	0	51.7	31.8	96.2	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID **02-1211-01Bms** Batch ID: **5648** Test Code: **EPA6010A** Units: **µg/Kg-dry** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506B** SeqNo: **267404**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	60180	1000	31020	34060	84.2	75	125	0			
Chromium	45540	500	31020	17310	91	75	125	0			
Lead	27670	1000	12410	16500	90	75	125	0			

Sample ID **02-1211-01Bmsd** Batch ID: **5648** Test Code: **EPA6010A** Units: **µg/Kg-dry** Analysis Date **5/6/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1_020506B** SeqNo: **267405**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	60550	1000	31020	34060	85.4	75	125	60180	0.617	20	
Chromium	44600	500	31020	17310	88	75	125	45540	2.06	20	
Lead	28600	1000	12410	16500	97.5	75	125	27670	3.31	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1211-01Bms** Batch ID: **5648** Test Code: **EPA7061** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507A** SeqNo: **268047**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	16320	100	6204	15260	17	75	125	0			S

Sample ID **02-1211-01Bmsd** Batch ID: **5648** Test Code: **EPA7061** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507A** SeqNo: **268048**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20040	100	6204	15260	77	75	125	16320	20.5	20	R

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1211-01Bms** Batch ID: **5648** Test Code: **EPA7130** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507B** SeqNo: **268110**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	6452	50	6204	930.6	89	75	125	0			

Sample ID **02-1211-01Bmsd** Batch ID: **5648** Test Code: **EPA7130** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507B** SeqNo: **268111**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	7072	50	6204	930.6	99	75	125	6452	9.17	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID 02-1211-01Bms	Batch ID: 5656	Test Code: EPA7470	Units: µg/Kg-dry	Analysis Date 5/6/2002	Prep Date: 5/6/2002
Client ID:		Run ID: ICP1_020507A		SeqNo: 267560	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	898.2	69	851.4	119.2	91.5	75	125	0			

Sample ID 02-1211-01Bmsd	Batch ID: 5656	Test Code: EPA7470	Units: µg/Kg-dry	Analysis Date 5/6/2002	Prep Date: 5/6/2002
Client ID:		Run ID: ICP1_020507A		SeqNo: 267561	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	911	69	851.4	119.2	93	75	125	898.2	1.41	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1211-01Bms** Batch ID: **5648** Test Code: **EPA7741** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507C** SeqNo: **268138**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	3598	200	3102	483.9	100	75	125	0			

Sample ID **02-1211-01Bmsd** Batch ID: **5648** Test Code: **EPA7741** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507C** SeqNo: **268139**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	3102	200	3102	483.9	84.4	75	125	3598	14.8	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1211-01Bms** Batch ID: **5648** Test Code: **EPA7760** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507D** SeqNo: **268182**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	5956	500	6204	521.1	87.6	75	125	0			

Sample ID **02-1211-01Bmsd** Batch ID: **5648** Test Code: **EPA7760** Units: **µg/Kg-dry** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507D** SeqNo: **268183**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	6390	500	6204	521.1	94.6	75	125	5956	7.04	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1205-14AMS** Batch ID: **R20962** Test Code: **EPA8260** Units: **µg/Kg-dry** Analysis Date **5/3/2002 7:10:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503A** SeqNo: **267379**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1199	50	1176	0	102	70	130	0			
1,1,1-Trichloroethane	1198	50	1176	0	102	70	130	0			
1,1,2,2-Tetrachloroethane	1235	50	1176	0	105	70	130	0			
1,1,2-Trichloroethane	1316	50	1176	0	112	70	130	0			
1,1-Dichloroethane	1290	50	1176	0	110	70	130	0			
1,1-Dichloroethene	1284	50	1176	0	109	70	130	0			
1,1-Dichloropropene	1275	50	1176	0	108	70	130	0			
1,2,3-Trichlorobenzene	1264	250	1176	0	107	70	130	0			
1,2,3-Trichloropropane	1320	50	1176	0	112	70	130	0			
1,2,4-Trichlorobenzene	1248	250	1176	0	106	70	130	0			
1,2,4-Trimethylbenzene	2559	50	1176	1442	94.9	70	130	0			
1,2-Dibromo-3-chloropropane	1099	50	1176	0	93.4	70	130	0			
1,2-Dibromoethane	1290	50	1176	0	110	70	130	0			
1,2-Dichlorobenzene	1288	50	1176	0	110	70	130	0			
1,2-Dichloroethane	1275	50	1176	0	108	70	130	0			
1,2-Dichloropropane	1233	50	1176	0	105	70	130	0			
1,3,5-Trimethylbenzene	1530	50	1176	266.5	107	70	130	0			
1,3-Dichlorobenzene	1316	50	1176	0	112	70	130	0			
1,3-Dichloropropane	1286	50	1176	0	109	70	130	0			
1,4-Dichlorobenzene	1238	50	1176	0	105	70	130	0			
2,2-Dichloropropane	892.9	50	1176	0	75.9	70	130	0			
2-Butanone	3685	250	1176	0	313	70	130	0			S
2-Chloroethyl vinyl ether	1159	250	1176	0	98.6	70	130	0			
2-Chlorotoluene	1317	50	1176	0	112	70	130	0			
2-Hexanone	1036	50	1176	0	88.1	70	130	0			
2-Methylnaphthalene	2849	250	1176	3246	-33.7	70	130	0			S
4-Chlorotoluene	1290	50	1176	0	110	70	130	0			
4-Methyl-2-pentanone	1013	250	1176	0	86.1	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Acetone	1719	250	1176	0	146	70	130	0	S
Acrylonitrile	1225	250	1176	0	104	70	130	0	
Benzene	1328	50	1176	0	113	70	130	0	
Bromobenzene	1271	50	1176	0	108	70	130	0	
Bromochloromethane	1335	50	1176	0	114	70	130	0	
Bromodichloromethane	1142	50	1176	0	97.1	70	130	0	
Bromoform	925.3	50	1176	0	78.6	70	130	0	
Bromomethane	852.9	50	1176	0	72.5	70	130	0	
Carbon Disulfide	974.1	250	1176	0	82.8	70	130	0	
Carbon tetrachloride	1200	50	1176	0	102	70	130	0	
Chlorobenzene	1310	50	1176	0	111	70	130	0	
Chlorodibromomethane	1083	50	1176	0	92	70	130	0	
Chloroethane	705.9	50	1176	0	60	70	130	0	S
Chloroform	1604	50	1176	537.6	90.6	70	130	0	
Chloromethane	1032	50	1176	0	87.7	70	130	0	
cis-1,2-Dichloroethene	1299	50	1176	0	110	70	130	0	
cis-1,3-Dichloropropene	1120	50	1176	0	95.2	70	130	0	
Dibromomethane	1265	50	1176	0	108	70	130	0	
Dichlorodifluoromethane	1100	50	1176	0	93.6	70	130	0	
Diethyl ether	1202	250	1176	0	102	70	130	0	
Ethylbenzene	1408	50	1176	146.5	107	70	130	0	
Hexachlorobutadiene	1411	250	1176	0	120	70	130	0	
Isopropylbenzene	1390	50	1176	0	118	70	130	0	
Methyl-tert-butyl-ether	1340	250	1176	0	114	70	130	0	
Methylene chloride	1543	250	1176	0	131	70	130	0	S
n-Butylbenzene	1466	50	1176	0	125	70	130	0	
n-Propylbenzene	1567	50	1176	188.8	117	70	130	0	
Naphthalene	1586	250	1176	455.9	96.1	70	130	0	
p-Isopropyltoluene	1431	50	1176	91.18	114	70	130	0	
sec-Butylbenzene	1402	50	1176	66.47	114	70	130	0	
Styrene	1361	50	1176	0	116	70	130	0	
tert-Butylbenzene	1318	50	1176	0	112	70	130	0	
Tetrachloroethene	1314	50	1176	0	112	70	130	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Toluene	1329	50	1176	0	113	70	130	0
trans-1,2-Dichloroethene	1322	50	1176	0	112	70	130	0
trans-1,3-Dichloropropene	1106	50	1176	0	94	70	130	0
Trichloroethene	1369	50	1176	0	116	70	130	0
Trichlorofluoromethane	909.4	50	1176	0	77.3	70	130	0
Vinyl chloride	1209	50	1176	0	103	70	130	0
Xylenes (Total)	4156	150	3529	138.8	114	70	130	0
Surr: 4-Bromofluorobenzene	2817	50	2941	0	95.8	90.1	114	0
Surr: Dibromofluoromethane	2923	50	2941	0	99.4	66.3	124	0
Surr: Toluene-d8	2820	50	2941	0	95.9	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **02-1205-14AMSD** Batch ID: **R20962** Test Code: **EPA8260** Units: **µg/Kg-dry** Analysis Date **5/3/2002 7:38:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503A** SeqNo: **267380**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1250	50	1176	0	106	70	130	1199	4.18	25	
1,1,1-Trichloroethane	1255	50	1176	0	107	70	130	1198	4.65	25	
1,1,2,2-Tetrachloroethane	1312	50	1176	0	112	70	130	1235	6	25	
1,1,2-Trichloroethane	1393	50	1176	0	118	70	130	1316	5.69	25	
1,1-Dichloroethane	1370	50	1176	0	116	70	130	1290	6.02	25	
1,1-Dichloroethene	1330	50	1176	0	113	70	130	1284	3.6	25	
1,1-Dichloropropene	1304	50	1176	0	111	70	130	1275	2.24	25	
1,2,3-Trichlorobenzene	1430	250	1176	0	122	70	130	1264	12.4	25	
1,2,3-Trichloropropane	1449	50	1176	0	123	70	130	1320	9.3	25	
1,2,4-Trichlorobenzene	1371	250	1176	0	116	70	130	1248	9.43	25	
1,2,4-Trimethylbenzene	2700	50	1176	1442	107	70	130	2559	5.37	25	
1,2-Dibromo-3-chloropropane	1209	50	1176	0	103	70	130	1099	9.48	25	
1,2-Dibromoethane	1347	50	1176	0	114	70	130	1290	4.33	25	
1,2-Dichlorobenzene	1354	50	1176	0	115	70	130	1288	4.99	25	
1,2-Dichloroethane	1316	50	1176	0	112	70	130	1275	3.18	25	
1,2-Dichloropropane	1291	50	1176	0	110	70	130	1233	4.61	25	
1,3,5-Trimethylbenzene	1619	50	1176	266.5	115	70	130	1530	5.64	25	
1,3-Dichlorobenzene	1397	50	1176	0	119	70	130	1316	5.94	25	
1,3-Dichloropropane	1352	50	1176	0	115	70	130	1286	4.95	25	
1,4-Dichlorobenzene	1305	50	1176	0	111	70	130	1238	5.32	25	
2,2-Dichloropropane	930	50	1176	0	79	70	130	892.9	4.06	25	
2-Butanone	3938	250	1176	0	335	70	130	3685	6.64	25	S
2-Chloroethyl vinyl ether	1340	250	1176	0	114	70	130	1159	14.5	25	
2-Chlorotoluene	1389	50	1176	0	118	70	130	1317	5.3	25	
2-Hexanone	1180	50	1176	0	100	70	130	1036	13	25	
2-Methylnaphthalene	4010	250	1176	3246	65	70	130	2849	33.8	25	SR
4-Chlorotoluene	1361	50	1176	0	116	70	130	1290	5.32	25	
4-Methyl-2-pentanone	1165	250	1176	0	99	70	130	1013	14	25	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Acetone	1841	250	1176	0	156	70	130	1719	6.87	25	S
Acrylonitrile	1372	250	1176	0	117	70	130	1225	11.3	25	
Benzene	1383	50	1176	0	118	70	130	1328	4.08	25	
Bromobenzene	1368	50	1176	0	116	70	130	1271	7.31	25	
Bromochloromethane	1409	50	1176	0	120	70	130	1335	5.4	25	
Bromodichloromethane	1194	50	1176	0	101	70	130	1142	4.38	25	
Bromoform	964.1	50	1176	0	82	70	130	925.3	4.11	25	
Bromomethane	1020	50	1176	0	86.8	70	130	852.9	17.9	25	
Carbon Disulfide	1123	250	1176	0	95.4	70	130	974.1	14.2	25	
Carbon tetrachloride	1248	50	1176	0	106	70	130	1200	3.94	25	
Chlorobenzene	1383	50	1176	0	118	70	130	1310	5.37	25	
Chlorodibromomethane	1116	50	1176	0	94.8	70	130	1083	3	25	
Chloroethane	712.4	50	1176	0	60.6	70	130	705.9	0.912	25	S
Chloroform	1686	50	1176	537.6	97.6	70	130	1604	5.01	25	
Chloromethane	1154	50	1176	0	98	70	130	1032	11.1	25	
cis-1,2-Dichloroethene	1326	50	1176	0	113	70	130	1299	2.11	25	
cis-1,3-Dichloropropene	1174	50	1176	0	99.8	70	130	1120	4.72	25	
Dibromomethane	1326	50	1176	0	113	70	130	1265	4.72	25	
Dichlorodifluoromethane	1242	50	1176	0	106	70	130	1100	12	25	
Diethyl ether	1348	250	1176	0	114	70	130	1202	11.4	25	
Ethylbenzene	1489	50	1176	146.5	114	70	130	1408	5.64	25	
Hexachlorobutadiene	1508	250	1176	0	128	70	130	1411	6.61	25	
Isopropylbenzene	1465	50	1176	0	124	70	130	1390	5.19	25	
Methyl-tert-butyl-ether	1592	250	1176	0	135	70	130	1340	17.2	25	S
Methylene chloride	1629	250	1176	0	138	70	130	1543	5.42	25	S
n-Butylbenzene	1552	50	1176	0	132	70	130	1466	5.73	25	S
n-Propylbenzene	1648	50	1176	188.8	124	70	130	1567	5.05	25	
Naphthalene	1878	250	1176	455.9	121	70	130	1586	16.8	25	
p-Isopropyltoluene	1504	50	1176	91.18	120	70	130	1431	4.97	25	
sec-Butylbenzene	1482	50	1176	66.47	120	70	130	1402	5.55	25	
Styrene	1422	50	1176	0	121	70	130	1361	4.35	25	
tert-Butylbenzene	1389	50	1176	0	118	70	130	1318	5.3	25	
Tetrachloroethene	1352	50	1176	0	115	70	130	1314	2.87	25	

Qualifiers:
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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Toluene	1392	50	1176	0	118	70	130	1329	4.63	25
trans-1,2-Dichloroethene	1380	50	1176	0	117	70	130	1322	4.31	25
trans-1,3-Dichloropropene	1158	50	1176	0	98.4	70	130	1106	4.52	25
Trichloroethene	1409	50	1176	0	120	70	130	1369	2.88	25
Trichlorofluoromethane	978.8	50	1176	0	83.2	70	130	909.4	7.35	25
Vinyl chloride	1381	50	1176	0	117	70	130	1209	13.3	25
Xylenes (Total)	4310	150	3529	138.8	118	70	130	4156	3.64	25
Surr: 4-Bromofluorobenzene	2809	50	2941	0	95.5	90.1	114	2817	0	25
Surr: Dibromofluoromethane	2951	50	2941	0	100	66.3	124	2923	0	25
Surr: Toluene-d8	2832	50	2941	0	96.3	83.2	115	2820	0	25

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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **02-1205-01BMS** Batch ID: **5643** Test Code: **EPA8270** Units: **µg/Kg-dry** Analysis Date **5/7/2002 7:07:00 PM** Prep Date: **5/6/2002**
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268255**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	659.4	330	1004	0	65.7	37.5	114	0			
1,2-Dichlorobenzene	625.7	330	1004	0	62.3	30.6	99.9	0			
1,2-Diphenylhydrazine	530.9	330	1004	0	52.9	16.8	73.2	0			
1,3-Dichlorobenzene	558.2	330	1004	0	55.6	33.2	89.5	0			
1,4-Dichlorobenzene	594.4	330	1004	0	59.2	30	97.6	0			
2,4,5-Trichlorophenol	850.6	330	1004	0	84.8	21.8	108	0			
2,4,6-Trichlorophenol	470.7	330	1004	0	46.9	29.7	105	0			
2,4-Dichlorophenol	419.3	330	1004	0	41.8	31.2	92.2	0			
2,4-Dimethylphenol	642.6	330	1004	0	64	35.8	103	0			
2,4-Dinitrotoluene	730.1	330	1004	0	72.7	24.6	115	0			
2,6-Dichlorophenol	563.8	330	1004	0	56.2	34.1	104	0			
2,6-Dinitrotoluene	717.3	330	1004	0	71.5	15.3	125	0			
2-Chloronaphthalene	846.6	330	1004	0	84.4	42.2	114	0			
2-Chlorophenol	625.7	330	1004	0	62.3	30	100	0			
2-Methylnaphthalene	2460	330	1004	1085	137	33.7	116	0			S
2-Methylphenol	593.6	330	1004	0	59.1	19.9	111	0			
2-Nitroaniline	814.4	1700	1004	0	81.2	10	124	0			J
2-Nitrophenol	537.3	330	1004	0	53.5	10	96.1	0			
3-Methylphenol	1462	330	2008	0	72.8	39.1	106	0			
3-Nitroaniline	744.6	1700	1004	0	74.2	12.6	104	0			J
4,6-Dinitro-2-methylphenol	ND	1700	1004	0	0	10	75.5	0			S
4-Bromophenyl-phenylether	779.9	330	1004	0	77.7	34.1	130	0			
4-Chloro-3-methylphenol	766.3	330	1004	0	76.4	33	107	0			
4-Chloroaniline	623.3	1700	1004	0	62.1	25.1	87.3	0			J
4-Chlorophenyl phenylether	819.3	330	1004	0	81.6	40.8	126	0			
4-Methylphenol	1422	330	2008	0	70.8	39.1	106	0			
4-Nitroaniline	756.6	1700	1004	0	75.4	10	112	0			J
4-Nitrophenol	ND	1700	1004	0	0	10	128	0			S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike

Acenaphthene	856.2	330	1004	0	85.3	44.4	128	0	
Acenaphthylene	818.5	330	1004	0	81.6	37.6	110	0	
Aniline	509.2	1700	1004	0	50.7	34.2	78.7	0	J
Anthracene	953.4	330	1004	0	95	43	147	0	
Benz (a) anthracene	857.8	330	1004	0	85.5	43.9	150	0	
Benzo (a) pyrene	912.4	330	1004	0	90.9	41.8	150	0	
Benzo (b) fluoranthene	714	330	1004	0	71.1	24.1	150	0	
Benzo (g,h,i) perylene	795.2	330	1004	0	79.2	10	150	0	
Benzo (k) fluoranthene	1163	330	1004	0	116	29.3	150	0	
Benzyl alcohol	445.8	1300	1004	0	44.4	23.8	95.2	0	J
Bis (2-chloroethoxy) methane	653	330	1004	0	65.1	37.1	111	0	
Bis (2-chloroethyl) ether	ND	330	1004	0	0	33.2	112	0	S
Bis (2-chloroisopropyl) ether	648.2	330	1004	0	64.6	38.4	110	0	
Bis (2-ethylhexyl) phthalate	1032	330	1004	0	103	10	150	0	
Butyl benzyl phthalate	935.7	330	1004	0	93.2	10.4	150	0	
Carbazole	889.2	330	1004	0	88.6	33.9	131	0	
Chrysene	947.8	330	1004	0	94.4	45.2	150	0	
Di-n-butyl phthalate	908.4	330	1004	0	90.5	34.2	128	0	
Di-n-octyl phthalate	971.1	330	1004	0	96.8	10	150	0	
Dibenz (a,h) anthracene	842.6	330	1004	0	84	28.6	135	0	
Dibenzofuran	807.2	330	1004	0	80.4	37.8	126	0	
Diethyl phthalate	890.8	330	1004	0	88.8	36	134	0	
Dimethyl phthalate	843.4	330	1004	0	84	37.2	125	0	
Diphenylamine	641	330	1004	0	63.9	10	88.8	0	
Fluoranthene	915.7	330	1004	0	91.2	33.6	150	0	
Fluorene	860.2	330	1004	0	85.7	41.2	129	0	
Hexachlorobenzene	786.3	330	1004	0	78.4	27.9	140	0	
Hexachlorobutadiene	633.7	330	1004	0	63.1	32.5	111	0	
Hexachlorocyclopentadiene	175.9	330	1004	0	17.5	13.5	66.2	0	J
Hexachloroethane	595.2	330	1004	0	59.3	21.4	85.3	0	
Indeno (1,2,3-cd) pyrene	667.5	330	1004	0	66.5	11.5	144	0	
Isophorone	647.4	330	1004	0	64.5	33.4	102	0	
N-Nitroso-di-n-propylamine	642.6	330	1004	0	64	11.2	122	0	

Qualifiers: ND - Not Detected at the Reporting Limit
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N-Nitrosodiphenylamine	639.4	330	1004	0	63.7	10	89	0	
Naphthalene	2285	330	1004	1213	107	43.8	112	0	
Nitrobenzene	773.5	330	1004	0	77.1	30.8	112	0	
Pentachlorophenol	245	800	1004	0	24.4	10	124	0	J
Phenanthrene	810.4	330	1004	0	80.8	35.9	150	0	
Phenol	734.9	330	1004	0	73.2	31.9	107	0	
Pyrene	943.8	330	1004	0	94	10	150	0	
Pyridine	623.3	330	1004	0	62.1	19.9	93.5	0	
Surr: 2,4,6-Tribromophenol	1929	1	3012	0	64	10	114	0	
Surr: 2-Fluorobiphenyl	1649	1	2007	0	82.2	30.1	113	0	
Surr: 2-Fluorophenol	1590	1	3012	0	52.8	10	94.7	0	
Surr: 4-Terphenyl-d14	1847	1	2007	0	92	11	150	0	
Surr: Nitrobenzene-d5	1271	1	2007	0	63.3	24.2	103	0	
Surr: Phenol-d6	1814	1	3012	0	60.2	22.7	94	0	

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **02-1205-01BMSD** Batch ID: **5643** Test Code: **EPA8270** Units: **µg/Kg-dry** Analysis Date **5/7/2002 7:53:00 PM** Prep Date: **5/6/2002**
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268256**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	720.5	330	1004	0	71.8	37.5	114	659.4	8.85	25	
1,2-Dichlorobenzene	611.2	330	1004	0	60.9	30.6	99.9	625.7	2.34	25	
1,2-Diphenylhydrazine	571.1	330	1004	0	56.9	16.8	73.2	530.9	7.29	25	
1,3-Dichlorobenzene	549.4	330	1004	0	54.7	33.2	89.5	558.2	1.6	25	
1,4-Dichlorobenzene	592	330	1004	0	59	30	97.6	594.4	0.406	25	
2,4,5-Trichlorophenol	681.9	330	1004	0	67.9	21.8	108	850.6	22	25	
2,4,6-Trichlorophenol	500.4	330	1004	0	49.8	29.7	105	470.7	6.12	25	
2,4-Dichlorophenol	430.5	330	1004	0	42.9	31.2	92.2	419.3	2.65	25	
2,4-Dimethylphenol	685.1	330	1004	0	68.3	35.8	103	642.6	6.41	25	
2,4-Dinitrotoluene	792.8	330	1004	0	79	24.6	115	730.1	8.23	25	
2,6-Dichlorophenol	625.7	330	1004	0	62.3	34.1	104	563.8	10.4	25	
2,6-Dinitrotoluene	764.6	330	1004	0	76.2	15.3	125	717.3	6.4	25	
2-Chloronaphthalene	890	330	1004	0	88.7	42.2	114	846.6	5	25	
2-Chlorophenol	614.4	330	1004	0	61.2	30	100	625.7	1.81	25	
2-Methylnaphthalene	2896	330	1004	1085	180	33.7	116	2460	16.2	25	S
2-Methylphenol	589.6	330	1004	0	58.7	19.9	111	593.6	0.679	25	
2-Nitroaniline	860.2	1700	1004	0	85.7	10	124	814.4	0	25	J
2-Nitrophenol	596.8	330	1004	0	59.5	10	96.1	537.3	10.5	25	
3-Methylphenol	1390	330	2008	0	69.2	39.1	106	1462	5.01	25	
3-Nitroaniline	781.5	1700	1004	0	77.9	12.6	104	744.6	0	25	J
4,6-Dinitro-2-methylphenol	ND	1700	1004	0	0	10	75.5	0	0	25	S
4-Bromophenyl-phenylether	807.2	330	1004	0	80.4	34.1	130	779.9	3.44	25	
4-Chloro-3-methylphenol	773.5	330	1004	0	77.1	33	107	766.3	0.939	25	
4-Chloroaniline	670.7	1700	1004	0	66.8	25.1	87.3	623.3	0	25	J
4-Chlorophenyl phenylether	869.9	330	1004	0	86.7	40.8	126	819.3	5.99	25	
4-Methylphenol	1378	330	2008	0	68.6	39.1	106	1422	3.1	25	
4-Nitroaniline	804	1700	1004	0	80.1	10	112	756.6	0	25	J
4-Nitrophenol	ND	1700	1004	0	0	10	128	0	0	25	S

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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Acenaphthene	900.4	330	1004	0	89.7	44.4	128	856.2	5.03	25	
Acenaphthylene	862.6	330	1004	0	86	37.6	110	818.5	5.26	25	
Aniline	484.3	1700	1004	0	48.2	34.2	78.7	509.2	0	25	J
Anthracene	988	330	1004	0	98.4	43	147	953.4	3.56	25	
Benz (a) anthracene	907.6	330	1004	0	90.4	43.9	150	857.8	5.64	25	
Benzo (a) pyrene	970.3	330	1004	0	96.7	41.8	150	912.4	6.14	25	
Benzo (b) fluoranthene	739	330	1004	0	73.6	24.1	150	714	3.43	25	
Benzo (g,h,i) perylene	811.2	330	1004	0	80.8	10	150	795.2	2	25	
Benzo (k) fluoranthene	1214	330	1004	0	121	29.3	150	1163	4.26	25	
Benzyl alcohol	434.5	1300	1004	0	43.3	23.8	95.2	445.8	0	25	J
Bis (2-chloroethoxy) methane	690	330	1004	0	68.7	37.1	111	653	5.5	25	
Bis (2-chloroethyl) ether	ND	330	1004	0	0	33.2	112	0	0	25	S
Bis (2-chloroisopropyl) ether	648.2	330	1004	0	64.6	38.4	110	648.2	0	25	
Bis (2-ethylhexyl) phthalate	1042	330	1004	0	104	10	150	1032	1.01	25	
Butyl benzyl phthalate	987.1	330	1004	0	98.4	10.4	150	935.7	5.35	25	
Carbazole	949.4	330	1004	0	94.6	33.9	131	889.2	6.55	25	
Chrysene	996.8	330	1004	0	99.3	45.2	150	947.8	5.04	25	
Di-n-butyl phthalate	952.6	330	1004	0	94.9	34.2	128	908.4	4.75	25	
Di-n-octyl phthalate	1052	330	1004	0	105	10	150	971.1	8.02	25	
Dibenz (a,h) anthracene	899.6	330	1004	0	89.6	28.6	135	842.6	6.55	25	
Dibenzofuran	852.2	330	1004	0	84.9	37.8	126	807.2	5.42	25	
Diethyl phthalate	930.9	330	1004	0	92.8	36	134	890.8	4.41	25	
Dimethyl phthalate	880.3	330	1004	0	87.7	37.2	125	843.4	4.29	25	
Diphenylamine	659.4	330	1004	0	65.7	10	88.8	641	2.84	25	
Fluoranthene	969.5	330	1004	0	96.6	33.6	150	915.7	5.71	25	
Fluorene	905.2	330	1004	0	90.2	41.2	129	860.2	5.1	25	
Hexachlorobenzene	813.6	330	1004	0	81.1	27.9	140	786.3	3.41	25	
Hexachlorobutadiene	676.3	330	1004	0	67.4	32.5	111	633.7	6.5	25	
Hexachlorocyclopentadiene	188	330	1004	0	18.7	13.5	66.2	175.9	0	25	J
Hexachloroethane	579.9	330	1004	0	57.8	21.4	85.3	595.2	2.6	25	
Indeno (1,2,3-cd) pyrene	747	330	1004	0	74.4	11.5	144	667.5	11.2	25	
Isophorone	714.8	330	1004	0	71.2	33.4	102	647.4	9.9	25	
N-Nitroso-di-n-propylamine	650.6	330	1004	0	64.8	11.2	122	642.6	1.24	25	

Qualifiers:
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

N-Nitrosodiphenylamine	657.8	330	1004	0	65.5	10	89	639.4	2.85	25	
Naphthalene	2774	330	1004	1213	156	43.8	112	2285	19.3	25	S
Nitrobenzene	656.2	330	1004	0	65.4	30.8	112	773.5	16.4	25	
Pentachlorophenol	240.2	800	1004	0	23.9	10	124	245	0	25	J
Phenanthrene	858.6	330	1004	0	85.6	35.9	150	810.4	5.77	25	
Phenol	710.8	330	1004	0	70.8	31.9	107	734.9	3.33	25	
Pyrene	983.9	330	1004	0	98	10	150	943.8	4.17	25	
Pyridine	624.1	330	1004	0	62.2	19.9	93.5	623.3	0.129	25	
Surr: 2,4,6-Tribromophenol	1912	1	3012	0	63.5	10	114	1929	0	25	
Surr: 2-Fluorobiphenyl	1741	1	2007	0	86.8	30.1	113	1649	0	25	
Surr: 2-Fluorophenol	1622	1	3012	0	53.8	10	94.7	1590	0	25	
Surr: 4-Terphenyl-d14	1929	1	2007	0	96.1	11	150	1847	0	0	
Surr: Nitrobenzene-d5	1415	1	2007	0	70.5	24.2	103	1271	0	25	
Surr: Phenol-d6	1787	1	3012	0	59.3	22.7	94	1814	0	25	

Qualifiers:
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-5648** **Batch ID:** **5648** **Test Code:** **EPA6010A** **Units:** **µg/Kg** **Analysis Date** **5/6/2002** **Prep Date:** **5/3/2002**

Client ID: **Run ID:** **ICP1_020506B** **SeqNo:** **267400**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	22450	1000	25000	0	89.8	80	120	0			
Chromium	24000	500	25000	0	96	80	120	0			
Lead	11350	1000	10000	0	114	80	120	0			

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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5648** Batch ID: **5648** Test Code: **EPA7061** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507A** SeqNo: **268044**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4950	100	5000	0	99	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5648** Batch ID: **5648** Test Code: **EPA7130** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507B** SeqNo: **268107**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	4950	50	5000	0	99	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5656** Batch ID: **5656** Test Code: **EPA7470** Units: **µg/Kg** Analysis Date **5/6/2002** Prep Date: **5/6/2002**
Client ID: Run ID: **ICP1_020507A** SeqNo: **267556**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	990	100	1000	0	99	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5648** Batch ID: **5648** Test Code: **EPA7741** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**

Client ID: Run ID: **ICP1MS_020507C** SeqNo: **268135**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2450	200	2500	0	98	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5648** Batch ID: **5648** Test Code: **EPA7760** Units: **µg/Kg** Analysis Date **5/7/2002** Prep Date: **5/3/2002**
Client ID: Run ID: **ICP1MS_020507D** SeqNo: **268179**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	5350	500	5000	0	107	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **lcs** Batch ID: **R20962** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/3/2002 8:05:00 PM** Prep Date:
Client ID: Run ID: **MS1_020503A** SeqNo: **267140**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.95	1	20	0	99.8	70	130	0			
1,1,1-Trichloroethane	19.71	1	20	0	98.6	70	130	0			
1,1,2,2-Tetrachloroethane	22.04	1	20	0	110	70	130	0			
1,1,2-Trichloroethane	20.48	1	20	0	102	70	130	0			
1,1-Dichloroethane	20.11	1	20	0	100	70	130	0			
1,1-Dichloroethene	20.82	1	20	0	104	70	130	0			
1,1-Dichloropropene	21.33	1	20	0	107	70	130	0			
1,2,3-Trichlorobenzene	21.34	5	20	0	107	70	130	0			
1,2,3-Trichloropropane	22.5	1	20	0	112	70	130	0			
1,2,4-Trichlorobenzene	19.96	5	20	0	99.8	70	130	0			
1,2,4-Trimethylbenzene	23.01	1	20	0	115	70	130	0			
1,2-Dibromo-3-chloropropane	16.02	1	20	0	80.1	70	130	0			
1,2-Dibromoethane	20.27	1	20	0	101	70	130	0			
1,2-Dichlorobenzene	21.75	1	20	0	109	70	130	0			
1,2-Dichloroethane	21.47	1	20	0	107	70	130	0			
1,2-Dichloropropane	20.45	1	20	0	102	70	130	0			
1,3,5-Trimethylbenzene	22.81	1	20	0	114	70	130	0			
1,3-Dichlorobenzene	22.24	1	20	0	111	70	130	0			
1,3-Dichloropropane	21.61	1	20	0	108	70	130	0			
1,4-Dichlorobenzene	20.87	1	20	0	104	70	130	0			
2,2-Dichloropropane	16.95	1	20	0	84.7	70	130	0			
2-Butanone	20.48	5	20	0	102	70	130	0			
2-Chloroethyl vinyl ether	17.13	5	20	0	85.6	70	130	0			
2-Chlorotoluene	22.17	1	20	0	111	70	130	0			
2-Hexanone	16.66	1	20	0	83.3	70	130	0			
2-Methylnaphthalene	36.85	5	20	0	184	70	130	0			S
4-Chlorotoluene	22.1	1	20	0	110	70	130	0			
4-Methyl-2-pentanone	16.53	5	20	0	82.6	70	130	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Acetone	23.64	5	20	0	118	70	130	0	
Acrylonitrile	16.76	5	20	0	83.8	70	130	0	
Benzene	22.03	1	20	0	110	70	130	0	
Bromobenzene	22.24	1	20	0	111	70	130	0	
Bromochloromethane	20.73	1	20	0	104	70	130	0	
Bromodichloromethane	18.17	1	20	0	90.8	70	130	0	
Bromoform	13.94	1	20	0	69.7	70	130	0	S
Bromomethane	18.37	1	20	0	91.8	70	130	0	
Carbon Disulfide	19.39	5	20	0	97	70	130	0	
Carbon tetrachloride	21.19	1	20	0	106	70	130	0	
Chlorobenzene	22.06	1	20	0	110	70	130	0	
Chlorodibromomethane	16.97	1	20	0	84.8	70	130	0	
Chloroethane	17.23	1	20	0	86.2	70	130	0	
Chloroform	29.79	1	20	0	149	70	130	0	S
Chloromethane	16.96	1	20	0	84.8	70	130	0	
cis-1,2-Dichloroethene	19.89	1	20	0	99.4	70	130	0	
cis-1,3-Dichloropropene	18.44	1	20	0	92.2	70	130	0	
Dibromomethane	21.03	1	20	0	105	70	130	0	
Dichlorodifluoromethane	17.95	1	20	0	89.8	70	130	0	
Diethyl ether	20.63	5	20	0	103	70	130	0	
Ethylbenzene	22.15	1	20	0	111	70	130	0	
Hexachlorobutadiene	19.57	5	20	0	97.8	70	130	0	
Isopropylbenzene	23.34	1	20	0	117	70	130	0	
Methyl-tert-butyl-ether	21.78	5	20	0	109	70	130	0	
Methylene chloride	25.06	5	20	3.58	107	70	130	0	
n-Butylbenzene	21.22	1	20	0	106	70	130	0	
n-Propylbenzene	23.89	1	20	0	119	70	130	0	
Naphthalene	21.7	5	20	0	108	70	130	0	
p-Isopropyltoluene	23.05	1	20	0	115	70	130	0	
sec-Butylbenzene	22.84	1	20	0	114	70	130	0	
Styrene	22.65	1	20	0	113	70	130	0	
tert-Butylbenzene	22.27	1	20	0	111	70	130	0	
Tetrachloroethene	18.74	1	20	0	93.7	70	130	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Toluene	21.91	1	20	0	110	70	130	0
trans-1,2-Dichloroethene	20.66	1	20	0	103	70	130	0
trans-1,3-Dichloropropene	17.82	1	20	0	89.1	70	130	0
Trichloroethene	21.53	1	20	0	108	70	130	0
Trichlorofluoromethane	18.28	1	20	0	91.4	70	130	0
Vinyl chloride	16.87	1	20	0	84.4	70	130	0
Xylenes (Total)	68.13	3	60	0	114	70	130	0
Surr: 4-Bromofluorobenzene	48.46	1	50	0	96.9	90.1	114	0
Surr: Dibromofluoromethane	47.17	1	50	0	94.3	66.3	124	0
Surr: Toluene-d8	47.93	1	50	0	95.9	83.2	115	0

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-5643** Batch ID: **5643** Test Code: **EPA8270** Units: **µg/Kg** Analysis Date **5/7/2002 12:56:00 PM** Prep Date: **5/6/2002**
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268264**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	523.3	330	833	0	62.8	43.4	118	0			
1,2-Dichlorobenzene	558	330	833	0	67	34.2	113	0			
1,2-Diphenylhydrazine	463.3	330	833	0	55.6	21.3	85.8	0			
1,3-Dichlorobenzene	510	330	833	0	61.2	31	108	0			
1,4-Dichlorobenzene	552.7	330	833	0	66.3	29.6	115	0			
2,4,5-Trichlorophenol	767.3	330	833	0	92.1	38.1	118	0			
2,4,6-Trichlorophenol	415.3	330	833	0	49.8	41.6	112	0			
2,4-Dichlorophenol	522	330	833	0	62.7	40.4	106	0			
2,4-Dimethylphenol	555.3	330	833	0	66.7	38	128	0			
2,4-Dinitrotoluene	610.7	330	833	0	73.3	32.7	129	0			
2,6-Dichlorophenol	669.3	330	833	0	80.4	48.6	113	0			
2,6-Dinitrotoluene	612	330	833	0	73.5	39.4	127	0			
2-Chloronaphthalene	702.7	330	833	0	84.4	43.3	127	0			
2-Chlorophenol	571.3	330	833	0	68.6	40.5	113	0			
2-Methylnaphthalene	756.7	330	833	0	90.8	36.6	130	0			
2-Methylphenol	497.3	330	833	0	59.7	42.2	122	0			
2-Nitroaniline	582.7	1700	833	0	69.9	26.7	134	0			J
2-Nitrophenol	461.3	330	833	0	55.4	21.6	107	0			
3-Methylphenol	1323	330	1667	0	79.4	39.2	136	0			
3-Nitroaniline	598	1700	833	0	71.8	30.1	111	0			J
4,6-Dinitro-2-methylphenol	ND	1700	833	0	0	10	96.7	0			S
4-Bromophenyl-phenylether	651.3	330	833	0	78.2	50.1	136	0			
4-Chloro-3-methylphenol	619.3	330	833	0	74.3	44.2	126	0			
4-Chloroaniline	633.3	1700	833	0	76	18.7	109	0			J
4-Chlorophenyl phenylether	711.3	330	833	0	85.4	45.7	140	0			
4-Methylphenol	1333	330	1667	0	79.9	39.1	136	0			
4-Nitroaniline	640.7	1700	833	0	76.9	10	130	0			J
4-Nitrophenol	ND	1700	833	0	0	10	75.5	0			S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

Acenaphthene	703.3	330	833	0	84.4	43.9	138	0	
Acenaphthylene	670	330	833	0	80.4	45.9	120	0	
Aniline	503.3	1700	833	0	60.4	10	115	0	J
Anthracene	781.3	330	833	0	93.8	54.3	146	0	
Benz (a) anthracene	756.7	330	833	0	90.8	58.9	150	0	
Benzo (a) pyrene	814	330	833	0	97.7	54.9	150	0	
Benzo (b) fluoranthene	616	330	833	0	73.9	41.8	150	0	
Benzo (g,h,i) perylene	652	330	833	0	78.3	28.1	147	0	
Benzo (k) fluoranthene	998.7	330	833	0	120	34.5	150	0	
Benzyl alcohol	448	1300	833	0	53.8	11.7	132	0	J
Bis (2-chloroethoxy) methane	574.7	330	833	0	69	42.3	124	0	
Bis (2-chloroethyl) ether	ND	330	833	0	0	40.7	119	0	S
Bis (2-chloroisopropyl) ether	575.3	330	833	0	69.1	30.6	137	0	
Bis (2-ethylhexyl) phthalate	899.3	330	833	0	108	42.6	150	0	
Butyl benzyl phthalate	816.7	330	833	0	98	28.4	150	0	
Carbazole	759.3	330	833	0	91.2	53.8	132	0	
Chrysene	824.7	330	833	0	99	63.4	150	0	
Di-n-butyl phthalate	784.7	330	833	0	94.2	53.3	145	0	
Di-n-octyl phthalate	923.3	330	833	0	111	10	150	0	
Dibenz (a,h) anthracene	722.7	330	833	0	86.8	39	135	0	
Dibenzofuran	675.3	330	833	0	81.1	52.9	124	0	
Diethyl phthalate	766.7	330	833	0	92	44	150	0	
Dimethyl phthalate	725.3	330	833	0	87.1	51.8	135	0	
Diphenylamine	656	330	833	0	78.8	10	91.7	0	
Fluoranthene	804	330	833	0	96.5	60.1	142	0	
Fluorene	712	330	833	0	85.5	50	135	0	
Hexachlorobenzene	662.7	330	833	0	79.6	43.8	148	0	
Hexachlorobutadiene	572	330	833	0	68.7	32.3	132	0	
Hexachlorocyclopentadiene	194.7	330	833	0	23.4	10	73.7	0	J
Hexachloroethane	568.7	330	833	0	68.3	20	113	0	
Indeno (1,2,3-cd) pyrene	803.3	330	833	0	96.4	36.5	144	0	
Isophorone	546.7	330	833	0	65.6	38.2	118	0	
N-Nitroso-di-n-propylamine	579.3	330	833	0	69.5	38.6	137	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Laboratory Control Spike - generic

N-Nitrosodiphenylamine	655.3	330	833	0	78.7	10	92	0	
Naphthalene	618.7	330	833	0	74.3	39.3	125	0	
Nitrobenzene	586.7	330	833	0	70.4	37	135	0	
Pentachlorophenol	376.7	800	833	0	45.2	10	112	0	J
Phenanthrene	661.3	330	833	0	79.4	50.6	150	0	
Phenol	578.7	330	833	0	69.5	46.4	109	0	
Pyrene	803.3	330	833	0	96.4	29.8	150	0	
Pyridine	513.3	330	833	0	61.6	23.5	116	0	
Surr: 2,4,6-Tribromophenol	3574	1	5000	0	71.5	18.1	115	0	
Surr: 2-Fluorobiphenyl	2785	1	3332	0	83.6	33	114	0	
Surr: 2-Fluorophenol	2934	1	5000	0	58.7	16.9	98.1	0	
Surr: 4-Terphenyl-d14	3143	1	3332	0	94.3	22.6	150	0	
Surr: Nitrobenzene-d5	2123	1	3332	0	63.7	32.7	99.4	0	
Surr: Phenol-d6	3273	1	5000	0	65.5	31.8	96.2	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID ccv01 | **Batch ID:** 5648 | **Test Code:** EPA6010A | **Units:** µg/Kg | **Analysis Date** 5/6/2002 | **Prep Date:**
Client ID: | **Run ID:** ICP1_020506B | **SeqNo:** 267415

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	9800	1000	10000	0	98	90	110	0			
Chromium	995	500	1000	0	99.5	90	110	0			
Lead	4990	1000	5000	0	99.8	90	110	0			

Sample ID ccv02 | **Batch ID:** 5648 | **Test Code:** EPA6010A | **Units:** µg/Kg | **Analysis Date** 5/6/2002 | **Prep Date:**
Client ID: | **Run ID:** ICP1_020506B | **SeqNo:** 267422

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	9830	1000	10000	0	98.3	90	110	0			
Chromium	1000	500	1000	0	100	90	110	0			
Lead	5120	1000	5000	0	102	90	110	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv	Batch ID: 5648	Test Code: EPA7061	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507A		SeqNo: 268049	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24	100	25	0	96	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7061	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507A		SeqNo: 268057	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	25	100	25	0	100	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7061	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507A		SeqNo: 268067	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	24	100	25	0	96	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv	Batch ID: 5648	Test Code: EPA7130	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507B		SeqNo: 268112	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	23	50	25	0	92	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7130	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507B		SeqNo: 268120	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	24	50	25	0	96	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7130	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507B		SeqNo: 268130	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	23	50	25	0	92	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv01**	Batch ID: **5656**	Test Code: **EPA7470**	Units: **µg/Kg**	Analysis Date **5/6/2002**	Prep Date:
Client ID:		Run ID: **ICP1_020507A**		SeqNo: **267571**	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.94	100	2	0	97	80	120	0			

Sample ID **ccv02**	Batch ID: **5656**	Test Code: **EPA7470**	Units: **µg/Kg**	Analysis Date **5/6/2002**	Prep Date:
Client ID:		Run ID: **ICP1_020507A**		SeqNo: **267580**	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.84	100	2	0	92	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv	Batch ID: 5648	Test Code: EPA7741	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507C		SeqNo: 268140	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	24	200	25	0	96	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7741	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507C		SeqNo: 268148	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	25	200	25	0	100	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7741	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507C		SeqNo: 268158	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	24	200	25	0	96	80	120	0			

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID ccv	Batch ID: 5648	Test Code: EPA7760	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507D		SeqNo: 268184	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	23	500	25	0	92	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7760	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507D		SeqNo: 268192	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	23	500	25	0	92	80	120	0			

Sample ID ccv	Batch ID: 5648	Test Code: EPA7760	Units: µg/Kg	Analysis Date 5/7/2002	Prep Date:
Client ID:		Run ID: ICP1MS_020507D		SeqNo: 268202	

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	24	500	25	0	96	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **ccv** Batch ID: **R20962** Test Code: **EPA8260** Units: **µg/Kg** Analysis Date **5/3/2002 9:28:00 AM** Prep Date:
Client ID: Run ID: **MS1_020503A** SeqNo: **266977**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	19.76	1	20	0	98.8	80	120	0			
1,1,1-Trichloroethane	19.26	1	20	0	96.3	80	120	0			
1,1,2,2-Tetrachloroethane	21.67	1	20	0	108	80	120	0			
1,1,2-Trichloroethane	19.55	1	20	0	97.8	80	120	0			
1,1-Dichloroethane	20.16	1	20	0	101	80	120	0			
1,1-Dichloroethene	20.36	1	20	0	102	80	120	0			
1,1-Dichloropropene	20	1	20	0	100	80	120	0			
1,2,3-Trichlorobenzene	15.47	5	20	0	77.4	40	120	0			
1,2,3-Trichloropropane	21.58	1	20	0	108	80	120	0			
1,2,4-Trichlorobenzene	14.89	5	20	0	74.4	80	120	0			S
1,2,4-Trimethylbenzene	22.21	1	20	0	111	80	120	0			
1,2-Dibromo-3-chloropropane	15.34	1	20	0	76.7	80	120	0			S
1,2-Dibromoethane	19.1	1	20	0	95.5	80	120	0			
1,2-Dichlorobenzene	20.88	1	20	0	104	80	120	0			
1,2-Dichloroethane	20.18	1	20	0	101	80	120	0			
1,2-Dichloropropane	19.41	1	20	0	97	80	120	0			
1,3,5-Trimethylbenzene	22.23	1	20	0	111	80	120	0			
1,3-Dichlorobenzene	21.39	1	20	0	107	80	120	0			
1,3-Dichloropropane	21.06	1	20	0	105	80	120	0			
1,4-Dichlorobenzene	20.19	1	20	0	101	80	120	0			
2,2-Dichloropropane	11.29	1	20	0	56.4	80	120	0			S
2-Butanone	16.2	5	20	0	81	80	120	0			
2-Chloroethyl vinyl ether	16.2	5	20	0	81	80	120	0			
2-Chlorotoluene	21.69	1	20	0	108	80	120	0			
2-Hexanone	18.2	1	20	0	91	80	120	0			
2-Methylnaphthalene	13.34	5	20	0	66.7	80	120	0			S
4-Chlorotoluene	21.44	1	20	0	107	80	120	0			
4-Methyl-2-pentanone	16.36	5	20	0	81.8	80	120	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Acetone	21.99	5	20	0	110	80	120	0	
Acrylonitrile	17.73	5	20	0	88.6	80	120	0	
Benzene	21	1	20	0	105	80	120	0	
Bromobenzene	21.7	1	20	0	108	80	120	0	
Bromochloromethane	20.46	1	20	0	102	80	120	0	
Bromodichloromethane	18.52	1	20	0	92.6	80	120	0	
Bromoform	15.57	1	20	0	77.8	80	120	0	S
Bromomethane	19.25	1	20	0	96.2	80	120	0	
Carbon Disulfide	16.94	5	20	0	84.7	80	120	0	
Carbon tetrachloride	19.23	1	20	0	96.2	80	120	0	
Chlorobenzene	21.37	1	20	0	107	80	120	0	
Chlorodibromomethane	18.13	1	20	0	90.6	80	120	0	
Chloroethane	19.55	1	20	0	97.8	80	120	0	
Chloroform	21.69	1	20	0	108	80	120	0	
Chloromethane	18.03	1	20	0	90.2	80	120	0	
cis-1,2-Dichloroethene	19.01	1	20	0	95	80	120	0	
cis-1,3-Dichloropropene	16.8	1	20	0	84	80	120	0	
Dibromomethane	19.5	1	20	0	97.5	80	120	0	
Dichlorodifluoromethane	18.86	1	20	0	94.3	80	120	0	
Diethyl ether	21.73	5	20	0	109	80	120	0	
Ethylbenzene	21.36	1	20	0	107	80	120	0	
Hexachlorobutadiene	17.59	5	20	0	87.9	80	120	0	
Isopropylbenzene	22.96	1	20	0	115	80	120	0	
Methyl-tert-butyl-ether	22	5	20	0	110	80	120	0	
Methylene chloride	28.89	5	20	0	144	80	120	0	S
n-Butylbenzene	19.38	1	20	0	96.9	80	120	0	
n-Propylbenzene	23.57	1	20	0	118	80	120	0	
Naphthalene	15.76	5	20	0	78.8	80	120	0	S
p-Isopropyltoluene	21.66	1	20	0	108	80	120	0	
sec-Butylbenzene	21.96	1	20	0	110	80	120	0	
Styrene	21.32	1	20	0	107	80	120	0	
tert-Butylbenzene	22.33	1	20	0	112	80	120	0	
Tetrachloroethene	17.03	1	20	0	85.2	80	120	0	

Qualifiers:
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B - Analyte detected in the associated Method Blank

Toluene	20.73	1	20	0	104	80	120	0
trans-1,2-Dichloroethene	20.48	1	20	0	102	80	120	0
trans-1,3-Dichloropropene	16.23	1	20	0	81.2	80	120	0
Trichloroethene	20.22	1	20	0	101	80	120	0
Trichlorofluoromethane	17.99	1	20	0	90	80	120	0
Vinyl chloride	18.19	1	20	0	91	80	120	0
Xylenes (Total)	66.17	3	60	0	110	80	120	0
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0
1,4-Difluorobenzene	50	0	0	0	0	0	0	0
Pentafluorobenzene	50	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	49.11	1	50	0	98.2	90.1	114	0
Surr: Dibromofluoromethane	48.93	1	50	0	97.9	66.3	124	0
Surr: Toluene-d8	47.3	1	50	0	94.6	83.2	115	0

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **CCV 40 PPM** Batch ID: **R21032** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/7/2002 12:01:00 PM** Prep Date:
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268262**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	41.18	5	40	0	103	80	120	0			
1,2-Dichlorobenzene	43.03	5	40	0	108	80	120	0			
1,2-Diphenylhydrazine	48.24	5	40	0	120	80	120	0			S
1,3-Dichlorobenzene	40.1	5	40	0	100	80	120	0			
1,4-Dichlorobenzene	42.89	5	40	0	107	80	120	0			
2,4,5-Trichlorophenol	45.14	5	40	0	113	80	120	0			
2,4,6-Trichlorophenol	35.37	5	40	0	88.4	80	120	0			
2,4-Dichlorophenol	40.21	5	40	0	100	80	120	0			
2,4-Dimethylphenol	39.19	5	40	0	98	80	120	0			
2,4-Dinitrophenol	15.98	20	40	0	40	80	120	0			S
2,4-Dinitrotoluene	40.5	20	40	0	101	80	120	0			
2,6-Dichlorophenol	43.53	5	40	0	109	80	120	0			
2,6-Dinitrotoluene	40.34	5	40	0	101	80	120	0			
2-Chloronaphthalene	44.54	5	40	0	111	80	120	0			
2-Chlorophenol	42.39	5	40	0	106	80	120	0			
2-Methylnaphthalene	41.47	5	40	0	104	80	120	0			
2-Methylphenol	37	5	40	0	92.5	80	120	0			
2-Nitroaniline	39.73	5	40	0	99.3	80	120	0			
2-Nitrophenol	38.91	5	40	0	97.3	80	120	0			
3,3'-Dichlorobenzidine	44.07	20	40	0	110	80	120	0			
3,3'-Dimethylbenzidine	41.49	20	40	0	104	80	120	0			
3-Methylphenol	78.36	5	80	0	98	80	120	0			
3-Nitroaniline	41.01	20	40	0	102	80	120	0			
4,6-Dinitro-2-methylphenol	25.82	20	40	0	64.6	80	120	0			S
4-Bromophenyl-phenylether	39.65	5	40	0	99.1	80	120	0			
4-Chloro-3-methylphenol	43.41	5	40	0	108	80	120	0			
4-Chloroaniline	44.06	20	40	0	110	80	120	0			
4-Chlorophenyl phenylether	40.71	5	40	0	102	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

4-Methylphenol	78.39	5	80	0	98	80	120	0	
4-Nitroaniline	39.8	20	40	0	99.5	80	120	0	
4-Nitrophenol	38.19	20	40	0	95.5	80	120	0	
Acenaphthene	43.77	5	40	0	109	80	120	0	
Acenaphthylene	42.6	5	40	0	106	80	120	0	
Acetophenone	41.38	5	40	0	103	80	120	0	
Aniline	39.81	20	40	0	99.5	80	120	0	
Anthracene	42.55	5	40	0	106	80	120	0	
Benz (a) anthracene	40.85	5	40	0	102	80	120	0	
Benzidine	37.33	20	40	0	93.3	80	120	0	
Benzo (a) pyrene	42.1	5	40	0	105	80	120	0	
Benzo (b) fluoranthene	39.03	5	40	0	97.6	80	120	0	
Benzo (g,h,i) perylene	36.28	5	40	0	90.7	80	120	0	
Benzo (k) fluoranthene	43.87	5	40	0	110	80	120	0	
Benzoic acid	30.46	50	40	0	76.1	80	120	0	S
Benzyl alcohol	36.48	50	40	0	91.2	80	120	0	
Bis (2-chloroethoxy) methane	41.57	5	40	0	104	80	120	0	
Bis (2-chloroethyl) ether	44.05	5	40	0	110	80	120	0	
Bis (2-chloroisopropyl) ether	42.17	5	40	0	105	80	120	0	
Bis (2-ethylhexyl) phthalate	44.68	5	40	0	112	80	120	0	
Butyl benzyl phthalate	44.27	5	40	0	111	80	120	0	
Carbazole	41.37	10	40	0	103	80	120	0	
Chrysene	43.44	5	40	0	108	80	120	0	
Di-n-butyl phthalate	42.58	5	40	0	106	80	120	0	
Di-n-octyl phthalate	46.82	5	40	0	117	80	120	0	
Dibenz (a,h) anthracene	40.64	5	40	0	102	80	120	0	
Dibenzofuran	41.23	5	40	0	103	80	120	0	
Diethyl phthalate	42.45	5	40	0	106	80	120	0	
Dimethyl phthalate	43.09	5	40	0	108	80	120	0	
Diphenylamine	35.27	5	40	0	88.2	80	120	0	
Fluoranthene	42.88	5	40	0	107	80	120	0	
Fluorene	42.03	5	40	0	105	80	120	0	
Hexachlorobenzene	39.84	5	40	0	99.6	80	120	0	

Qualifiers:
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Hexachlorobutadiene	42.5	5	40	0	106	80	120	0	
Hexachlorocyclopentadiene	29.48	5	40	0	73.7	80	120	0	S
Hexachloroethane	45.8	5	40	0	114	80	120	0	
Indeno (1,2,3-cd) pyrene	35	5	40	0	87.5	80	120	0	
Isophorone	38.18	5	40	0	95.4	80	120	0	
N-Nitroso-di-n-propylamine	42.04	5	40	0	105	80	120	0	
N-Nitrosodimethylamine	40.43	5	40	0	101	80	120	0	
N-Nitrosodiphenylamine	35.21	5	40	0	88	80	120	0	
Naphthalene	42.82	5	40	0	107	80	120	0	
Nitrobenzene	41.15	5	40	0	103	80	120	0	
Pentachlorophenol	36.8	20	40	0	92	80	120	0	
Phenanthrene	38.64	5	40	0	96.6	80	120	0	
Phenol	41.68	5	40	0	104	80	120	0	
Pyrene	44.12	5	40	0	110	80	120	0	
Pyridine	40.29	20	40	0	101	80	120	0	
1,4-Dichlorobenzene-d4	20	0	0	0	0	0	0	0	
Acenaphthene-d10	20	0	0	0	0	0	0	0	
Chrysene-d12	20	0	0	0	0	0	0	0	
Naphthalene-d8	20	0	0	0	0	0	0	0	
Perylene-d12	20	0	0	0	0	0	0	0	
Phenanthrene-d10	20	0	0	0	0	0	0	0	
Surr: 1,2-Dichlorobenzene-d4	42.26	5	40	0	106	25	125	0	
Surr: 2,4,6-Tribromophenol	39.37	5	40	0	98.4	25	125	0	
Surr: 2-Chlorophenol-d4	44.63	5	40	0	112	25	125	0	
Surr: 2-Fluorobiphenyl	46.41	5	40	0	116	21	115	0	S
Surr: 2-Fluorophenol	41.41	5	40	0	104	25	121	0	
Surr: 4-Terphenyl-d14	44.53	5	40	0	111	20	137	0	
Surr: Nitrobenzene-d5	39.68	5	40	0	99.2	23	120	0	
Surr: Phenol-d6	44.81	5	40	0	112	24	113	0	

Qualifiers:
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B - Analyte detected in the associated Method Blank

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID **CCV 40 PPM** Batch ID: **R21032** Test Code: **EPA8270** Units: **µg/L** Analysis Date **5/7/2002 10:59:00 PM** Prep Date:
Client ID: Run ID: **MSHPSEMI 01_020507** SeqNo: **268263**

Analyte	Result	PQL	SPK value	Smp/MB Rslt	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	41.28	5	40	0	103	80	120	0			
1,2-Dichlorobenzene	42.24	5	40	0	106	80	120	0			
1,2-Diphenylhydrazine	48.91	5	40	0	122	80	120	0			S
1,3-Dichlorobenzene	39.89	5	40	0	99.7	80	120	0			
1,4-Dichlorobenzene	42.14	5	40	0	105	80	120	0			
2,4,5-Trichlorophenol	45.39	5	40	0	113	80	120	0			
2,4,6-Trichlorophenol	35.39	5	40	0	88.5	80	120	0			
2,4-Dichlorophenol	40.37	5	40	0	101	80	120	0			
2,4-Dimethylphenol	39.22	5	40	0	98	80	120	0			
2,4-Dinitrophenol	16.7	20	40	0	41.8	80	120	0			S
2,4-Dinitrotoluene	40.4	20	40	0	101	80	120	0			
2,6-Dichlorophenol	43.17	5	40	0	108	80	120	0			
2,6-Dinitrotoluene	40.54	5	40	0	101	80	120	0			
2-Chloronaphthalene	45.32	5	40	0	113	80	120	0			
2-Chlorophenol	41.7	5	40	0	104	80	120	0			
2-Methylnaphthalene	40.57	5	40	0	101	80	120	0			
2-Methylphenol	37.13	5	40	0	92.8	80	120	0			
2-Nitroaniline	40.4	5	40	0	101	80	120	0			
2-Nitrophenol	38.73	5	40	0	96.8	80	120	0			
3,3'-Dichlorobenzidine	42.81	20	40	0	107	80	120	0			
3,3'-Dimethylbenzidine	39.05	20	40	0	97.6	80	120	0			
3-Methylphenol	77.83	5	80	0	97.3	80	120	0			
3-Nitroaniline	41.04	20	40	0	103	80	120	0			
4,6-Dinitro-2-methylphenol	27.65	20	40	0	69.1	80	120	0			S
4-Bromophenyl-phenylether	39.19	5	40	0	98	80	120	0			
4-Chloro-3-methylphenol	43.08	5	40	0	108	80	120	0			
4-Chloroaniline	43.17	20	40	0	108	80	120	0			
4-Chlorophenyl phenylether	41.08	5	40	0	103	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
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CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

4-Methylphenol	77.86	5	80	0	97.3	80	120	0	
4-Nitroaniline	41.71	20	40	0	104	80	120	0	
4-Nitrophenol	38.07	20	40	0	95.2	80	120	0	
Acenaphthene	43.43	5	40	0	108	80	120	0	
Acenaphthylene	42.7	5	40	0	107	80	120	0	
Acetophenone	40.69	5	40	0	102	80	120	0	
Aniline	40.16	20	40	0	100	80	120	0	
Anthracene	42.08	5	40	0	105	80	120	0	
Benz (a) anthracene	40.89	5	40	0	102	80	120	0	
Benzidine	35.93	20	40	0	89.8	80	120	0	
Benzo (a) pyrene	43.08	5	40	0	108	80	120	0	
Benzo (b) fluoranthene	39.37	5	40	0	98.4	80	120	0	
Benzo (g,h,i) perylene	33.96	5	40	0	84.9	80	120	0	
Benzo (k) fluoranthene	44.28	5	40	0	111	80	120	0	
Benzoic acid	31.51	50	40	0	78.8	80	120	0	S
Benzyl alcohol	36.05	50	40	0	90.1	80	120	0	
Bis (2-chloroethoxy) methane	43	5	40	0	108	80	120	0	
Bis (2-chloroethyl) ether	43.75	5	40	0	109	80	120	0	
Bis (2-chloroisopropyl) ether	43.28	5	40	0	108	80	120	0	
Bis (2-ethylhexyl) phthalate	43.02	5	40	0	108	80	120	0	
Butyl benzyl phthalate	42.24	5	40	0	106	80	120	0	
Carbazole	41.75	10	40	0	104	80	120	0	
Chrysene	43.64	5	40	0	109	80	120	0	
Di-n-butyl phthalate	41.7	5	40	0	104	80	120	0	
Di-n-octyl phthalate	45.26	5	40	0	113	80	120	0	
Dibenz (a,h) anthracene	40.1	5	40	0	100	80	120	0	
Dibenzofuran	42	5	40	0	105	80	120	0	
Diethyl phthalate	41.95	5	40	0	105	80	120	0	
Dimethyl phthalate	42.82	5	40	0	107	80	120	0	
Diphenylamine	34.79	5	40	0	87	80	120	0	
Fluoranthene	43.3	5	40	0	108	80	120	0	
Fluorene	42.76	5	40	0	107	80	120	0	
Hexachlorobenzene	38.57	5	40	0	96.4	80	120	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Toltest, Inc.
Work Order: 02-1218
Project: 41792.01/NTC-324

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Hexachlorobutadiene	41.64	5	40	0	104	80	120	0	
Hexachlorocyclopentadiene	29.69	5	40	0	74.2	80	120	0	S
Hexachloroethane	44.6	5	40	0	112	80	120	0	
Indeno (1,2,3-cd) pyrene	32.86	5	40	0	82.2	80	120	0	
Isophorone	38.53	5	40	0	96.3	80	120	0	
N-Nitroso-di-n-propylamine	41.81	5	40	0	104	80	120	0	
N-Nitrosodimethylamine	38.48	5	40	0	96.2	80	120	0	
N-Nitrosodiphenylamine	34.73	5	40	0	86.8	80	120	0	
Naphthalene	42.52	5	40	0	106	80	120	0	
Nitrobenzene	41.26	5	40	0	103	80	120	0	
Pentachlorophenol	35.71	20	40	0	89.3	80	120	0	
Phenanthrene	38.65	5	40	0	96.6	80	120	0	
Phenol	42.3	5	40	0	106	80	120	0	
Pyrene	42.37	5	40	0	106	80	120	0	
Pyridine	40.41	20	40	0	101	80	120	0	
1,4-Dichlorobenzene-d4	20	0	0	0	0	0	0	0	
Acenaphthene-d10	20	0	0	0	0	0	0	0	
Chrysene-d12	20	0	0	0	0	0	0	0	
Naphthalene-d8	20	0	0	0	0	0	0	0	
Perylene-d12	20	0	0	0	0	0	0	0	
Phenanthrene-d10	20	0	0	0	0	0	0	0	
Surr: 1,2-Dichlorobenzene-d4	41.67	5	40	0	104	25	125	0	
Surr: 2,4,6-Tribromophenol	38.61	5	40	0	96.5	25	125	0	
Surr: 2-Chlorophenol-d4	44.9	5	40	0	112	25	125	0	
Surr: 2-Fluorobiphenyl	46.85	5	40	0	117	21	115	0	S
Surr: 2-Fluorophenol	40.81	5	40	0	102	25	121	0	
Surr: 4-Terphenyl-d14	42.65	5	40	0	107	20	137	0	
Surr: Nitrobenzene-d5	39.35	5	40	0	98.4	23	120	0	
Surr: Phenol-d6	44.68	5	40	0	112	24	113	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

MAIN LAB & HEADQUARTERS
AAC *Trinity, Inc.*
38855 Hills Tech Drive, Suite 550
Farmington Hills, MI 48331
phone (248) 848-9656
fax (248) 848-9657

TRAVERSE CITY LAB
AAC *Trinity, Inc.*
3141 Logan Valley Road
Traverse City, MI 49684
phone (231) 947-2389
fax (231) 947-6530

CHAIN OF CUSTODY RECORD #1218

Client:	Report To:	Page:	Of:
To I Test, Inc	Khush Mander	1	1

Project Name:	Phone Nbr:	Fax Nbr:	Email Address:
NTC-324	847 689-0697	847 689-0698	Kmander@ToITest.com

Project Nbr:	P.O. Nbr:	Quote ID Nbr
41792.01		

Sampler's Name: Timothy A. Boos

Sampler's Signature: Timothy A. Boos

Item Nbr	Sample I.D.	Date Sampled	Time Sampled	Air	Solid	Fluid	Volume	Sample Description	Number of Samples	VOCs 5035/8260	Base/Neutrals 8270	PNAs 8100	Metals	Analytical Parameters
1	SB1-02	4/29	12:11		X				5	X	X	X	X	
2	SB2-03	4/29	10:48		X				5	X	X	X	X	
3	SB3-03	4/29	13:20		X				5	X	X	X	X	
4														
5														
6														
7														
8														
9														
10														
11														
12														

Metals: arsenic, barium, cadmium, total chromium, lead, COMMENTS mercury, selenium EPA 6000 and 7000

Relinquished By:	Date	Time	Received By:	Date:	Time:
Timothy A. Boos	5/1/02	8:00	FedEx		
Relinquished By:	Date	Time	Received By:	Date:	Time:
Relinquished By:	Date	Time	Received By:	Date:	Time:
Relinquished By:	Date	Time	Received By Laboratory: Pam Easley	Date: 5/2	Time: 800

FOR LAB USE ONLY

Were samples preserved ☐ in field ☐ in lab ☐ N/A

Were samples filtered ☐ in field ☐ in lab ☐ N/A

Temperature of samples 7 °C

Comments:

TAT: Standard ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐

Distribution: White and Yellow - Lab; Pink - Field

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LABORATORY DATA REPORT

CLIENT	**Toltest, Inc.** 1000 Northpointe Bldv. Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/16/01
REPORTED	: 12/03/01
FILE ID#	: **01110445 01-24**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Arminta P. Budej

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3402-SB1				
Lab Number		01110445-01				
Description		6-7'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	14.4	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00088	0.00088		11/24/2001	MNN
	Ethylbenzene	< 0.00088	0.00088		11/24/2001	MNN
	Toluene	< 0.00141	0.00141		11/24/2001	MNN
	Xylenes, Total	< 0.00176	0.00176		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0193	0.0193		11/26/2001	LBI
	Acenaphthylene	< 0.0243	0.0243		11/26/2001	LBI
	Anthracene	< 0.0212	0.0212		11/26/2001	LBI
	Benz(a)anthracene	< 0.0106	0.0106		11/26/2001	LBI
	Benzo(a)pyrene	< 0.022	0.022		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00674	0.00674		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0114	0.0114		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00623	0.00623		11/26/2001	LBI
	Chrysene	< 0.0107	0.0107		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00583	0.00583		11/26/2001	LBI
	Fluoranthene	< 0.00759	0.00759		11/26/2001	LBI
	Fluorene	< 0.014	0.014		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00968	0.00968		11/26/2001	LBI
	Naphthalene	< 0.0255	0.0255		11/26/2001	LBI
	Phenanthrene	< 0.0195	0.0195		11/26/2001	LBI
	Pyrene	< 0.0172	0.0172		11/26/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3402-SB2				
Lab Number		01110445-02				
Description		8-9'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	13.4	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00096	0.00096		11/24/2001	MNN
	Ethylbenzene	< 0.00096	0.00096		11/24/2001	MNN
	Toluene	< 0.00153	0.00153		11/24/2001	MNN
	Xylenes, Total	< 0.00192	0.00192		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0191	0.0191		11/26/2001	LBI
	Acenaphthylene	< 0.0242	0.0242		11/26/2001	LBI
	Anthracene	< 0.0211	0.0211		11/26/2001	LBI
	Benz(a)anthracene	< 0.0106	0.0106		11/26/2001	LBI
	Benzo(a)pyrene	< 0.0219	0.0219		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.0067	0.0067		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0114	0.0114		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00619	0.00619		11/26/2001	LBI
	Chrysene	< 0.0106	0.0106		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.0058	0.0058		11/26/2001	LBI
	Fluoranthene	0.0211	0.00754		11/26/2001	LBI
	Fluorene	< 0.014	0.014		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00962	0.00962		11/26/2001	LBI
	Naphthalene	< 0.0254	0.0254		11/26/2001	LBI
	Phenanthrene	< 0.0194	0.0194		11/26/2001	LBI
	Pyrene	< 0.0171	0.0171		11/26/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3402-SB3				
Lab Number		01110445-03				
Description		10-11'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	18.1	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	0.00291	0.00098		11/24/2001	MNN
	Ethylbenzene	< 0.00098	0.00098		11/24/2001	MNN
	Toluene	0.00547	0.00156		11/24/2001	MNN
	Xylenes, Total	< 0.00195	0.00195		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0201	0.0201		11/26/2001	LBI
	Acenaphthylene	< 0.0254	0.0254		11/26/2001	LBI
	Anthracene	< 0.0221	0.0221		11/26/2001	LBI
	Benz(a)anthracene	0.071	0.0111		11/26/2001	LBI
	Benzo(a)pyrene	0.0754	0.023		11/26/2001	LBI
	Benzo(b)fluoranthene	0.0798	0.00704		11/26/2001	LBI
	Benzo(g,h,i)perylene	0.0932	0.0119		11/26/2001	LBI
	Benzo(k)fluoranthene	0.0414	0.00651		11/26/2001	LBI
	Chrysene	0.0725	0.0112		11/26/2001	LBI
	Dibenz(a,h)anthracene	0.0133	0.00609		11/26/2001	LBI
	Fluoranthene	0.203	0.00793		11/26/2001	LBI
	Fluorene	< 0.0147	0.0147		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.0488	0.0101		11/26/2001	LBI
	Naphthalene	< 0.0267	0.0267		11/26/2001	LBI
	Phenanthrene	0.112	0.0204		11/26/2001	LBI
	Pyrene	0.151	0.0179		11/26/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

8100 North Austin Avenue. Morton Grove. IL 60053-3203 • Tel.: 847-967-9976 • Fax: 847-967-6735 • http://www.aealabs.com

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3402-TP1				
Lab Number		01110445-04				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/26/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/26/2001	LBI
	Acenaphthylene	< 0.00022	0.00022		11/26/2001	LBI
	Anthracene	< 0.00003	0.00003		11/26/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/26/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/26/2001	LBI
	Chrysene	< 0.00004	0.00004		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/26/2001	LBI
	Fluoranthene	< 0.00021	0.00021		11/26/2001	LBI
	Fluorene	< 0.00006	0.00006		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/26/2001	LBI
	Naphthalene	< 0.00021	0.00021		11/26/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/26/2001	LBI
	Pyrene	< 0.0001	0.0001		11/26/2001	LBI

The prep hold time for PNAs was exceeded by 4 days.
AEA Laboratories, Inc.

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Director of Laboratory Customer Service

8100 North Austin Avenue. Morton Grove. IL 60053-3203 • Tel.: 847-967-9976 • Fax: 847-967-6735 • http://www.aealabs.com

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3402-TP2				
Lab Number		01110445-05				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/26/2001	LBI
	Acenaphthene	< 0.00009	0.00009		11/26/2001	LBI
	Acenaphthylene	< 0.00024	0.00024		11/26/2001	LBI
	Anthracene	< 0.00004	0.00004		11/26/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/26/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0002	0.0002		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/26/2001	LBI
	Chrysene	< 0.00005	0.00005		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/26/2001	LBI
	Fluoranthene	< 0.00023	0.00023		11/26/2001	LBI
	Fluorene	< 0.00006	0.00006		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00015	0.00015		11/26/2001	LBI
	Naphthalene	< 0.00023	0.00023		11/26/2001	LBI
	Phenanthrene	< 0.00011	0.00011		11/26/2001	LBI
	Pyrene	< 0.00011	0.00011		11/26/2001	LBI

The prep hold time for PNAs was exceeded by 4 days.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3400-TP1				
Lab Number		01110445-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/27/2001	LBI
	Acenaphthene	< 0.00018	0.00018		11/27/2001	LBI
	Acenaphthylene	< 0.00052	0.00052		11/27/2001	LBI
	Anthracene	< 0.00008	0.00008		11/27/2001	LBI
	Benz(a)anthracene	< 0.00008	0.00008		11/27/2001	LBI
	Benzo(a)pyrene	< 0.00013	0.00013		11/27/2001	LBI
	Benzo(b)fluoranthene	< 0.00021	0.00021		11/27/2001	LBI
	Benzo(g,h,i)perylene	< 0.00041	0.00041		11/27/2001	LBI
	Benzo(k)fluoranthene	< 0.00012	0.00012		11/27/2001	LBI
	Chrysene	< 0.0001	0.0001		11/27/2001	LBI
	Dibenz(a,h)anthracene	< 0.0001	0.0001		11/27/2001	LBI
	Fluoranthene	< 0.00049	0.00049		11/27/2001	LBI
	Fluorene	< 0.00013	0.00013		11/27/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00031	0.00031		11/27/2001	LBI
	Naphthalene	< 0.00049	0.00049		11/27/2001	LBI
	Phenanthrene	< 0.00023	0.00023		11/27/2001	LBI
	Pyrene	< 0.00023	0.00023		11/27/2001	LBI

The prep hold time for PNAs was exceeded by 4 days.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3400-TP2				
Lab Number		01110445-07				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/26/2001	LBI
	Acenaphthene	0.00017	0.00008		11/26/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/26/2001	LBI
	Anthracene	0.00043	0.00003		11/26/2001	LBI
	Benz(a)anthracene	0.00693	0.00003		11/26/2001	LBI
	Benzo(a)pyrene	0.014	0.00006		11/26/2001	LBI
	Benzo(b)fluoranthene	0.0138	0.00009		11/26/2001	LBI
	Benzo(g,h,i)perylene	0.0197	0.00018		11/26/2001	LBI
	Benzo(k)fluoranthene	0.00677	0.00005		11/26/2001	LBI
	Chrysene	0.00789	0.00005		11/26/2001	LBI
	Dibenz(a,h)anthracene	0.00237	0.00005		11/26/2001	LBI
	Fluoranthene	0.0143	0.00021		11/26/2001	LBI
	Fluorene	0.00014	0.00006		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.0114	0.00014		11/26/2001	LBI
	Naphthalene	< 0.00021	0.00021		11/26/2001	LBI
	Phenanthrene	0.00367	0.0001		11/26/2001	LBI
	Pyrene	0.0134	0.0001		11/26/2001	LBI

The prep hold time for PNAs was exceeded by 4 days.
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First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3400-TP3				
Lab Number		01110445-08				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**			mg/L	11/29/2001	LBI
	Acenaphthene	< 0.00013	0.00013		11/29/2001	LBI
	Acenaphthylene	< 0.00036	0.00036		11/29/2001	LBI
	Anthracene	< 0.00005	0.00005		11/29/2001	LBI
	Benz(a)anthracene	< 0.00005	0.00005		11/29/2001	LBI
	Benzo(a)pyrene	< 0.00009	0.00009		11/29/2001	LBI
	Benzo(b)fluoranthene	< 0.00015	0.00015		11/29/2001	LBI
	Benzo(g,h,i)perylene	< 0.00029	0.00029		11/29/2001	LBI
	Benzo(k)fluoranthene	< 0.00008	0.00008		11/29/2001	LBI
	Chrysene	< 0.00007	0.00007		11/29/2001	LBI
	Dibenz(a,h)anthracene	< 0.00007	0.00007		11/29/2001	LBI
	Fluoranthene	< 0.00035	0.00035		11/29/2001	LBI
	Fluorene	< 0.00009	0.00009		11/29/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00022	0.00022		11/29/2001	LBI
	Naphthalene	< 0.00035	0.00035		11/29/2001	LBI
	Phenanthrene	< 0.00016	0.00016		11/29/2001	LBI
	Pyrene	< 0.00016	0.00016		11/29/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3400-SB2				
Lab Number		01110445-09				
Description		9-10'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	12.5	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00101	0.00101		11/24/2001	MNN
	Ethylbenzene	< 0.00101	0.00101		11/24/2001	MNN
	Toluene	< 0.00162	0.00162		11/24/2001	MNN
	Xylenes, Total	< 0.00202	0.00202		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0188	0.0188		11/26/2001	LBI
	Acenaphthylene	< 0.0237	0.0237		11/26/2001	LBI
	Anthracene	< 0.0206	0.0206		11/26/2001	LBI
	Benz(a)anthracene	0.0138	0.0104		11/26/2001	LBI
	Benzo(a)pyrene	< 0.0215	0.0215		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00657	0.00657		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0112	0.0112		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00607	0.00607		11/26/2001	LBI
	Chrysene	< 0.0104	0.0104		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00569	0.00569		11/26/2001	LBI
	Fluoranthene	0.00828	0.0074		11/26/2001	LBI
	Fluorene	< 0.0137	0.0137		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00944	0.00944		11/26/2001	LBI
	Naphthalene	< 0.0249	0.0249		11/26/2001	LBI
	Phenanthrene	0.0428	0.019		11/26/2001	LBI
	Pyrene	< 0.0167	0.0167		11/26/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3400-SB3				
Lab Number		01110445-10				
Description		3-4'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	13.6	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00092	0.00092		11/24/2001	MNN
	Ethylbenzene	< 0.00092	0.00092		11/24/2001	MNN
	Toluene	< 0.00148	0.00148		11/24/2001	MNN
	Xylenes, Total	< 0.00185	0.00185		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.019	0.019		11/26/2001	LBI
	Acenaphthylene	< 0.024	0.024		11/26/2001	LBI
	Anthracene	< 0.0208	0.0208		11/26/2001	LBI
	Benz(a)anthracene	< 0.0105	0.0105		11/26/2001	LBI
	Benzo(a)pyrene	< 0.0217	0.0217		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00663	0.00663		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0113	0.0113		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00613	0.00613		11/26/2001	LBI
	Chrysene	< 0.0105	0.0105		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00574	0.00574		11/26/2001	LBI
	Fluoranthene	< 0.00747	0.00747		11/26/2001	LBI
	Fluorene	< 0.0138	0.0138		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00953	0.00953		11/26/2001	LBI
	Naphthalene	< 0.0251	0.0251		11/26/2001	LBI
	Phenanthrene	< 0.0192	0.0192		11/26/2001	LBI
	Pyrene	< 0.0169	0.0169		11/26/2001	LBI

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Waukegan, IL 60085
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First Lab Number: 01110445
Sample Matrix: Soil
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Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
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ANALYTICAL REPORT

Field ID		NTC2912-SB1				
Lab Number		01110445-11				
Description		10-11'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	10.7	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00096	0.00096		11/24/2001	MNN
	Ethylbenzene	< 0.00096	0.00096		11/24/2001	MNN
	Toluene	< 0.00154	0.00154		11/24/2001	MNN
	Xylenes, Total	< 0.00193	0.00193		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0188	0.0188		11/26/2001	LBI
	Acenaphthylene	< 0.0238	0.0238		11/26/2001	LBI
	Anthracene	< 0.0207	0.0207		11/26/2001	LBI
	Benz(a)anthracene	< 0.0104	0.0104		11/26/2001	LBI
	Benzo(a)pyrene	< 0.0215	0.0215		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00658	0.00658		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0112	0.0112		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00609	0.00609		11/26/2001	LBI
	Chrysene	< 0.0105	0.0105		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.0057	0.0057		11/26/2001	LBI
	Fluoranthene	0.0111	0.00741		11/26/2001	LBI
	Fluorene	< 0.0137	0.0137		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00946	0.00946		11/26/2001	LBI
	Naphthalene	< 0.025	0.025		11/26/2001	LBI
	Phenanthrene	0.0899	0.0191		11/26/2001	LBI
	Pyrene	0.0443	0.0168		11/26/2001	LBI

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First Lab Number: 01110445
Sample Matrix: Soil
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Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC2912-SB2				
Lab Number		01110445-12				
Description		5-6'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	17.4	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00106	0.00106		11/24/2001	MNN
	Ethylbenzene	< 0.00106	0.00106		11/24/2001	MNN
	Toluene	< 0.0017	0.0017		11/24/2001	MNN
	Xylenes, Total	0.00275	0.00212		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0206	0.0206		11/26/2001	LBI
	Acenaphthylene	< 0.026	0.026		11/26/2001	LBI
	Anthracene	< 0.0226	0.0226		11/26/2001	LBI
	Benz(a)anthracene	< 0.0114	0.0114		11/26/2001	LBI
	Benzo(a)pyrene	< 0.0235	0.0235		11/26/2001	LBI
	Benzo(b)fluoranthene	0.00908	0.0072		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.0122	0.0122		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00666	0.00666		11/26/2001	LBI
	Chrysene	0.0121	0.0114		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00623	0.00623		11/26/2001	LBI
	Fluoranthene	0.0469	0.00811		11/26/2001	LBI
	Fluorene	0.0454	0.015		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0104	0.0104		11/26/2001	LBI
	Naphthalene	< 0.0273	0.0273		11/26/2001	LBI
	Phenanthrene	0.0454	0.0209		11/26/2001	LBI
	Pyrene	0.0303	0.0183		11/26/2001	LBI

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First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC2912-SB3				
Lab Number		01110445-13				
Description		4-5'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	8.36	0.1	% (Percent)	11/18/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00117	0.00117		11/24/2001	MNN
	Ethylbenzene	< 0.00117	0.00117		11/24/2001	MNN
	Toluene	0.00408	0.00186		11/24/2001	MNN
	Xylenes, Total	< 0.00233	0.00233		11/24/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	< 0.0182	0.0182		11/26/2001	LBI
	Acenaphthylene	< 0.0231	0.0231		11/26/2001	LBI
	Anthracene	< 0.0201	0.0201		11/26/2001	LBI
	Benz(a)anthracene	0.0389	0.0101		11/26/2001	LBI
	Benzo(a)pyrene	0.0442	0.0209		11/26/2001	LBI
	Benzo(b)fluoranthene	0.0483	0.00638		11/26/2001	LBI
	Benzo(g,h,i)perylene	0.067	0.0108		11/26/2001	LBI
	Benzo(k)fluoranthene	0.0228	0.0059		11/26/2001	LBI
	Chrysene	0.0349	0.0101		11/26/2001	LBI
	Dibenz(a,h)anthracene	0.00804	0.00552		11/26/2001	LBI
	Fluoranthene	0.0952	0.00719		11/26/2001	LBI
	Fluorene	< 0.0133	0.0133		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.0429	0.00917		11/26/2001	LBI
	Naphthalene	< 0.0242	0.0242		11/26/2001	LBI
	Phenanthrene	0.0496	0.0185		11/26/2001	LBI
	Pyrene	0.0764	0.0162		11/26/2001	LBI

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Waukegan, IL 60085
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First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		**NTC2912-TP2**				
Lab Number		**01110445-14**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	GO
	Benzene	< 0.004	0.004		11/27/2001	GO
	Ethylbenzene	< 0.003	0.003		11/27/2001	GO
	Toluene	< 0.004	0.004		11/27/2001	GO
	Xylenes, Total	< 0.007	0.007		11/27/2001	GO

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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
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ANALYTICAL REPORT

Field ID		NTC2912-TP3				
Lab Number		01110445-15				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**			mg/L	11/26/2001	LBI
	Acenaphthene	< 0.00007	0.00007		11/26/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/26/2001	LBI
	Anthracene	< 0.00003	0.00003		11/26/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/26/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/26/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/26/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/26/2001	LBI
	Chrysene	< 0.00004	0.00004		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/26/2001	LBI
	Fluoranthene	< 0.0002	0.0002		11/26/2001	LBI
	Fluorene	< 0.00005	0.00005		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/26/2001	LBI
	Naphthalene	< 0.0002	0.0002		11/26/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/26/2001	LBI
	Pyrene	< 0.0001	0.0001		11/26/2001	LBI

The prep hold time for PNAs was exceeded by 3 days.
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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
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ANALYTICAL REPORT

Field ID		NTC3114A-SB1				
Lab Number		01110445-16				
Description		9-10'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	14.6	0.1	% (Percent)	11/18/2001	RM2
SW6010B	Lead	9.72	3.98	mg/Kg-dry	11/21/2001	MG
SW1312/7421	Lead, SPLP	< 0.004	0.004	mg/L	11/27/2001	IG
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.001	0.001		11/24/2001	MNN
	Ethylbenzene	< 0.001	0.001		11/24/2001	MNN
	Methyl tert-butyl ether	< 0.0016	0.0016		11/24/2001	MNN
	Toluene	< 0.0016	0.0016		11/24/2001	MNN
	Xylenes, Total	< 0.002	0.002		11/24/2001	MNN

Field ID		NTC3114A-SB2				
Lab Number		01110445-17				
Description		10-11'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	13.6	0.1	% (Percent)	11/18/2001	RM2
SW6010B	Lead	8.64	3.97	mg/Kg-dry	11/21/2001	MG
SW1312/7421	Lead, SPLP	< 0.004	0.004	mg/L	11/27/2001	IG
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00096	0.00096		11/24/2001	MNN
	Ethylbenzene	< 0.00096	0.00096		11/24/2001	MNN
	Methyl tert-butyl ether	< 0.00154	0.00154		11/24/2001	MNN
	Toluene	< 0.00154	0.00154		11/24/2001	MNN
	Xylenes, Total	< 0.00193	0.00193		11/24/2001	MNN

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Waukegan, IL 60085
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First Lab Number: 01110445
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3114A-SB3				
Lab Number		01110445-18				
Description		5-6'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	18.5	0.1	% (Percent)	11/18/2001	RM2
SW6010B	Lead	26.1	4.21	mg/Kg-dry	11/21/2001	MG
SW1312/7421	Lead, SPLP	0.007	0.004	mg/L	11/27/2001	IG
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/24/2001	MNN
	Benzene	< 0.00105	0.00105		11/24/2001	MNN
	Ethylbenzene	< 0.00105	0.00105		11/24/2001	MNN
	Methyl tert-butyl ether	< 0.00168	0.00168		11/24/2001	MNN
	Toluene	< 0.00168	0.00168		11/24/2001	MNN
	Xylenes, Total	< 0.0021	0.0021		11/24/2001	MNN

Analytes reported on dry weight basis except for Moisture and SPLP Lead.
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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3114A-TP2				
Lab Number		01110445-19				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW6010B	Lead	0.006	0.003	mg/L	11/27/2001	IG
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Methyl tert-butyl ether	< 0.005	0.005		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN

Field ID		NTC3114A-TP3				
Lab Number		01110445-20				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW6010B	Lead	< 0.003	0.003	mg/L	11/27/2001	IG
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Methyl tert-butyl ether	< 0.005	0.005		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		**NTC3511-TP1**				
Lab Number		**01110445-21**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/28/2001	MNN
	Benzene	< 0.004	0.004		11/28/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/28/2001	MNN
	Toluene	< 0.004	0.004		11/28/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/28/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/29/2001	LBI
	Acenaphthene	0.00351	0.0004		11/29/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/26/2001	LBI
	Anthracene	0.00038	0.00003		11/26/2001	LBI
	Benz(a)anthracene	0.00255	0.00003		11/26/2001	LBI
	Benzo(a)pyrene	0.00029	0.00006		11/26/2001	LBI
	Benzo(b)fluoranthene	0.00031	0.00009		11/26/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/26/2001	LBI
	Benzo(k)fluoranthene	0.00019	0.00005		11/26/2001	LBI
	Chrysene	0.00392	0.00005		11/26/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/26/2001	LBI
	Fluoranthene	0.00677	0.00109		11/29/2001	LBI
	Fluorene	0.00054	0.00006		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/26/2001	LBI
	Naphthalene	< 0.00022	0.00022		11/26/2001	LBI
	Phenanthrene	0.00041	0.0001		11/26/2001	LBI
	Pyrene	0.022	0.00051		11/29/2001	LBI

The prep hold time for PNAs was exceeded by 3 days.
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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		NTC3511-TP3				
Lab Number		01110445-22				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/27/2001	MNN
	Benzene	< 0.004	0.004		11/27/2001	MNN
	Ethylbenzene	< 0.003	0.003		11/27/2001	MNN
	Toluene	< 0.004	0.004		11/27/2001	MNN
	Xylenes, Total	< 0.007	0.007		11/27/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/27/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/27/2001	LBI
	Acenaphthylene	< 0.00022	0.00022		11/27/2001	LBI
	Anthracene	< 0.00003	0.00003		11/27/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/27/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/27/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/27/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/27/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/27/2001	LBI
	Chrysene	< 0.00004	0.00004		11/27/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/27/2001	LBI
	Fluoranthene	< 0.00021	0.00021		11/27/2001	LBI
	Fluorene	< 0.00006	0.00006		11/27/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/27/2001	LBI
	Naphthalene	< 0.00021	0.00021		11/27/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/27/2001	LBI
	Pyrene	< 0.0001	0.0001		11/27/2001	LBI

The prep hold time for PNAs was exceeded by 3 days.
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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		229 NTC~~239~~-TP2				
Lab Number		01110445-23				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8270C	**Semivolatile Organics**	---	---	mg/L	11/27/2001	GG
	1,2,4-Trichlorobenzene	< 0.00174	0.00174		11/27/2001	GG
	1,2-Dichlorobenzene	< 0.00127	0.00127		11/27/2001	GG
	1,3-Dichlorobenzene	< 0.00134	0.00134		11/27/2001	GG
	1,4-Dichlorobenzene	< 0.00149	0.00149		11/27/2001	GG
	2,4,5-Trichlorophenol	< 0.00143	0.00143		11/27/2001	GG
	2,4,6-Trichlorophenol	< 0.00173	0.00173		11/27/2001	GG
	2,4-Dichlorophenol	< 0.00173	0.00173		11/27/2001	GG
	2,4-Dimethylphenol	< 0.0136	0.0136		11/27/2001	GG
	2,4-Dinitrophenol	< 0.0272	0.0272		11/27/2001	GG
	2,4-Dinitrotoluene	< 0.0272	0.0272		11/27/2001	GG
	2,6-Dinitrotoluene	< 0.00544	0.00544		11/27/2001	GG
	2-Chloronaphthalene	< 0.00094	0.00094		11/27/2001	GG
	2-Chlorophenol	< 0.00147	0 00147		11/27/2001	GG
	2-Methylnaphthalene	< 0.00179	0.00179		11/27/2001	GG
	2-Nitroaniline	< 0.00544	0.00544		11/27/2001	GG
	2-Nitrophenol	< 0.0022	0.0022		11/27/2001	GG
	3,3'-Dichlorobenzidine	< 0.0114	0.0114		11/27/2001	GG
	3-Nitroaniline	< 0.00544	0.00544		11/27/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0136	0.0136		11/27/2001	GG
	4-Bromophenyl phenyl ether	< 0.00154	0.00154		11/27/2001	GG
	4-Chloro-3-methylphenol	< 0.00147	0.00147		11/27/2001	GG
	4-Chloroaniline	< 0.0136	0.0136		11/27/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00155	0.00155		11/27/2001	GG
	4-Nitroaniline	< 0.00544	0.00544		11/27/2001	GG
	4-Nitrophenol	< 0.00544	0.00544		11/27/2001	GG
	Acenaphthene	< 0.00175	0.00175		11/27/2001	GG
	Acenaphthylene	< 0.00165	0.00165		11/27/2001	GG
	Anthracene	< 0.00129	0.00129		11/27/2001	GG
	Benz(a)anthracene	< 0.00177	0.00177		11/27/2001	GG
	Benzo(a)pyrene	< 0.00169	0.00169		11/27/2001	GG
	Benzo(b+k)fluoranthene	< 0.00335	0.00335		11/27/2001	GG
	Benzo(g,h,i)perylene	< 0.00225	0.00225		11/27/2001	GG
	Benzyl alcohol	< 0.00189	0.00189		11/27/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00247	0.00247		11/27/2001	GG
	Bis(2-chloroethyl)ether	< 0.00168	0.00168		11/27/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00217	0.00217		11/27/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00174	0.00174		11/27/2001	GG
	Butyl benzyl phthalate	< 0.00142	0.00142		11/27/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		**NTC~~239~~229-TP2**				
Lab Number		**01110445-23**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Chrysene	< 0.0021	0.0021		11/27/2001	GG
	Di-n-butyl phthalate	< 0.00153	0.00153		11/27/2001	GG
	Di-n-octyl phthalate	< 0.0014	0.0014		11/27/2001	GG
	Dibenz(a,h)anthracene	< 0.0016	0.0016		11/27/2001	GG
	Dibenzofuran	< 0.00161	0.00161		11/27/2001	GG
	Diethyl phthalate	< 0.0136	0.0136		11/27/2001	GG
	Dimethyl phthalate	< 0.00544	0.00544		11/27/2001	GG
	Fluoranthene	< 0.00137	0.00137		11/27/2001	GG
	Fluorene	< 0.00163	0.00163		11/27/2001	GG
	Hexachlorobenzene	< 0.0015	0.0015		11/27/2001	GG
	Hexachlorobutadiene	< 0.0272	0.0272		11/27/2001	GG
	Hexachlorocyclopentadiene	< 0.0272	0.0272		11/27/2001	GG
	Hexachloroethane	< 0.00134	0.00134		11/27/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00177	0.00177		11/27/2001	GG
	Isophorone	< 0.00174	0.00174		11/27/2001	GG
	m,p-Cresol	< 0.00544	0.00544		11/27/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00146	0.00146		11/27/2001	GG
	N-Nitrosodiphenylamine	< 0.00118	0.00118		11/27/2001	GG
	Naphthalene	< 0.00187	0.00187		11/27/2001	GG
	Nitrobenzene	< 0.00185	0.00185		11/27/2001	GG
	o-Cresol	< 0.00544	0.00544		11/27/2001	GG
	Pentachlorophenol	< 0.0272	0.0272		11/27/2001	GG
	Phenanthrene	< 0.00143	0.00143		11/27/2001	GG
	Phenol	0.00511	0.00381		11/27/2001	GG
	Pyrene	< 0.00136	0.00136		11/27/2001	GG

The prep hold time for BNAs was exceeded by 5 days.
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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

ANALYTICAL REPORT

Field ID		229 NTC~~239~~-TP3				
Lab Number		01110445-24				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8270C	**Semivolatile Organics**	---	---	mg/L	11/27/2001	GG
	1,2,4-Trichlorobenzene	< 0.00186	0.00186		11/27/2001	GG
	1,2-Dichlorobenzene	< 0.00136	0.00136		11/27/2001	GG
	1,3-Dichlorobenzene	< 0.00144	0.00144		11/27/2001	GG
	1,4-Dichlorobenzene	< 0.00159	0.00159		11/27/2001	GG
	2,4,5-Trichlorophenol	< 0.00153	0.00153		11/27/2001	GG
	2,4,6-Trichlorophenol	< 0.00185	0.00185		11/27/2001	GG
	2,4-Dichlorophenol	< 0.00185	0.00185		11/27/2001	GG
	2,4-Dimethylphenol	< 0.0146	0.0146		11/27/2001	GG
	2,4-Dinitrophenol	< 0.0291	0.0291		11/27/2001	GG
	2,4-Dinitrotoluene	< 0.0291	0.0291		11/27/2001	GG
	2,6-Dinitrotoluene	< 0.00582	0.00582		11/27/2001	GG
	2-Chloronaphthalene	< 0.001	0.001		11/27/2001	GG
	2-Chlorophenol	< 0.00157	0.00157		11/27/2001	GG
	2-Methylnaphthalene	< 0.00192	0.00192		11/27/2001	GG
	2-Nitroaniline	< 0.00582	0.00582		11/27/2001	GG
	2-Nitrophenol	< 0.00236	0.00236		11/27/2001	GG
	3,3'-Dichlorobenzidine	< 0.0122	0.0122		11/27/2001	GG
	3-Nitroaniline	< 0.00582	0.00582		11/27/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0146	0.0146		11/27/2001	GG
	4-Bromophenyl phenyl ether	< 0.00165	0.00165		11/27/2001	GG
	4-Chloro-3-methylphenol	< 0.00157	0.00157		11/27/2001	GG
	4-Chloroaniline	< 0.0146	0.0146		11/27/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00166	0.00166		11/27/2001	GG
	4-Nitroaniline	< 0.00582	0.00582		11/27/2001	GG
	4-Nitrophenol	< 0.00582	0.00582		11/27/2001	GG
	Acenaphthene	< 0.00187	0.00187		11/27/2001	GG
	Acenaphthylene	< 0.00177	0.00177		11/27/2001	GG
	Anthracene	< 0.00138	0.00138		11/27/2001	GG
	Benz(a)anthracene	< 0.00189	0.00189		11/27/2001	GG
	Benzo(a)pyrene	< 0.00181	0.00181		11/27/2001	GG
	Benzo(b+k)fluoranthene	< 0.00359	0.00359		11/27/2001	GG
	Benzo(g,h,i)perylene	< 0.00241	0.00241		11/27/2001	GG
	Benzyl alcohol	< 0.00203	0.00203		11/27/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00265	0.00265		11/27/2001	GG
	Bis(2-chloroethyl)ether	< 0.00179	0.00179		11/27/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00232	0.00232		11/27/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00186	0.00186		11/27/2001	GG
	Butyl benzyl phthalate	< 0.00152	0.00152		11/27/2001	GG

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110445
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/14-15/01
Received: 11/16/01
Date Reported: 12/03/01

NALYTICAL REPORT

Field ID		229 NTC~~239~~-TP3				
Lab Number		01110445-24				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Chrysene	< 0.00225	0.00225		11/27/2001	GG
	Di-n-butyl phthalate	< 0.00164	0.00164		11/27/2001	GG
	Di-n-octyl phthalate	< 0.00149	0.00149		11/27/2001	GG
	Dibenz(a,h)anthracene	< 0.00172	0.00172		11/27/2001	GG
	Dibenzofuran	< 0.00173	0.00173		11/27/2001	GG
	Diethyl phthalate	< 0.0146	0.0146		11/27/2001	GG
	Dimethyl phthalate	< 0.00582	0.00582		11/27/2001	GG
	Fluoranthene	< 0.00146	0.00146		11/27/2001	GG
	Fluorene	< 0.00175	0.00175		11/27/2001	GG
	Hexachlorobenzene	< 0.00161	0.00161		11/27/2001	GG
	Hexachlorobutadiene	< 0.0291	0.0291		11/27/2001	GG
	Hexachlorocyclopentadiene	< 0.0291	0.0291		11/27/2001	GG
	Hexachloroethane	< 0.00144	0.00144		11/27/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00189	0.00189		11/27/2001	GG
	Isophorone	< 0.00186	0.00186		11/27/2001	GG
	m,p-Cresol	< 0.00582	0.00582		11/27/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00156	0.00156		11/27/2001	GG
	N-Nitrosodiphenylamine	< 0.00126	0.00126		11/27/2001	GG
	Naphthalene	< 0.002	0.002		11/27/2001	GG
	Nitrobenzene	< 0.00198	0.00198		11/27/2001	GG
	o-Cresol	< 0.00582	0.00582		11/27/2001	GG
	Pentachlorophenol	< 0.0291	0.0291		11/27/2001	GG
	Phenanthrene	< 0.00153	0.00153		11/27/2001	GG
	Phenol	< 0.00407	0.00407		11/27/2001	GG
	Pyrene	< 0.00146	0.00146		11/27/2001	GG

The prep hold time for BNAs was exceeded by 4 days.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

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Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WAS

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: ToTest, Inc	Project Name: Relative Risk Ranking
Address:	Sampler Name: Lynn Smith
	Project #: 41729.01
Report to: Khush Mander	Time Period: (5 Day) 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #: (847)689-6694 Fax #: (847)689-0698	Date Needed:

Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1 NTC-3402-SB1(6'-7')	S	11-14-01 1115	A, O, E	2	PNAs, BTEX	01110445 01 AB
2 NTC-3402-SB2(8'-9')	S	11-14-01 1144	A, O, E	2	PNAs, BTEX	02
3 NTC-3402-SB3(10'-11')	S	11-14-01 1220	A, O, E	2	PNAs, BTEX	03
4 NTC-3402-TP1	W	11-14-01 1245	A, HCl, E	3	PNAs, BTEX	04
5 NTC-3402-TP2	W	11-14-01 1255	A, HCl, E	3	PNAs, BTEX	05
6 NTC-3400-TP1	W	11-14-01 1230	A, HCl, E	3	PNAs, BTEX	06
7 NTC-3400-TP2	W	11-14-01 1235	A, HCl, E	3	PNAs, BTEX	07
8 NTC-3400-TP3	W	11-14-01 1240	A, HCl, E	3	PNAs, BTEX	08
9 NTC-3400-SB2(9'-10')	S	11-14-01 0945	A, O, E	2	PNAs, BTEX	
10 NTC-3400-SB3(3'-4')	S	11-14-01 1040	A, O, E	2	PNAs, BTEX	
11 NTC-2912-SB1(10'-11')	S	11-14-01 1420	A, O, E	2	PNAs, BTEX	
12 NTC-2912-SB2(5'-6')	S	11-14-01 1430	A, O, E	2	PNAs, BTEX	
13 NTC-2912-SB3(4'-5')	S	11-14-01 1450	A, O, E	2	PNAs, BTEX	
14 NTC-2912-TP2	W	11-15-01 1430	A, HCl	1	BTEX	
15 NTC-2912-TP3	W	11-15-01 1430	A, HCl E	3	PNAs, BTEX	

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated	GLOSSARY:
Preservative Type:	Temp. of Container °C:	MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept. R=Reject
		CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W)
		PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:	Date/Time: 11/16/01 4:25	Accepted by: 11-16-01 16:30
Relinquished by:	Date/Time:	Accepted by:
Comments:		

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AEA LABORATORIES, INC.

Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WASTE

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: ToxTest, Inc.	Project Name: Relative Risk Ranking
Address:	Sampler Name: Lynn Smith
	Project #: 41728.01
Report to: Khush Mander	Time Period: (5 Day) 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #: (847)689-0697 Fax #: (847)689-0698	Date Needed:

	Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1	NTC-3114A-SB1(9'-10')	S	11-14-01 1520	A,O, E	2	BTEX, MTBE, Total Pb, SPLP Pb	16
2	NTC-3114A-SB2(10'-11')	S	11-14-01 1545	A,O, E	2	BTEX, MTBE, Total Pb, SPLP Lead	17
3	NTC-3114A-SB3(5'-6')	S	11-14-01 1600	A,O, E	2	BTEX, MTBE, Total Pb, SPLP Lead	18
4	NTC-3114A-TP2	W	11-15-01 1500	A, HCl P, HNO_3	3	BTEX, MTBE, Total Pb	19
5	NTC-3114A-TP3	W	11-15-01 1520	A, HCl P, HNO_3	3	BTEX, MTBE, Total Pb	20
6	NTC-3511-TP1	W	11-15-01 1240	A, HCl, F	3	PNAs, BTEX	21
7	NTC-3511-TP3	W	11-15-01 1300	A, HCl, F	3	PNAs, BTEX	22
8	NTC-2329-TP2	W	11-15-01 1610	F	1	PNAs	23
9	NTC-2329-TP3	W	11-15-01 1620	F	1	PNAs	24
10							
11							
12							
13							
14							
15							

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated
Preservative Type:	Temp. of Container °C:

GLOSSARY:
MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept. R=Reject
CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W)
PRESERVATIVE=HCl, HNO_3, H_2SO_4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:	Date/Time: 11/14/01 4:25	Accepted by: 11-16-01 16:30
Relinquished by:	Date/Time:	Accepted by:
Comments:		

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LABORATORY DATA REPORT

CLIENT **Toltest, Inc.**
1000 Northpointe Bldv.
Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/14/01
REPORTED	: 11/29/01
FILE ID#	: **01110380 01-25**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Romanita P. Prodi

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC144-TP3				
Lab Number		01110380-01				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/19/2001	AG
SW6010B	Barium	0.093	0.008	mg/L	11/16/2001	ML
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/19/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/16/2001	ML
SW7421	Lead	0.003	0.003	mg/L	11/16/2001	MG
SW7470A	Mercury	< 0.0004	0.0004	mg/L	11/16/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/19/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/16/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/16/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.01	0.01		11/16/2001	GO
	1,1,1-Trichloroethane	< 0.011	0.011		11/16/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.013	0.013		11/16/2001	GO
	1,1,2-Trichloroethane	< 0.009	0.009		11/16/2001	GO
	1,1-Dichloroethane	< 0.008	0.008		11/16/2001	GO
	1,1-Dichloroethene	< 0.011	0.011		11/16/2001	GO
	1,1-Dichloropropene	< 0.009	0.009		11/16/2001	GO
	1,2,3-Trichlorobenzene	< 0.05	0.05		11/16/2001	GO
	1,2,3-Trichloropropane	< 0.011	0.011		11/16/2001	GO
	1,2,4-Trichlorobenzene	< 0.05	0.05		11/16/2001	GO
	1,2,4-Trimethylbenzene	0.1654	0.012		11/16/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.05	0.05		11/16/2001	GO
	1,2-Dibromoethane	< 0.007	0.007		11/16/2001	GO
	1,2-Dichlorobenzene	< 0.016	0.016		11/16/2001	GO
	1,2-Dichloroethane	< 0.012	0.012		11/16/2001	GO
	1,2-Dichloropropane	< 0.008	0.008		11/16/2001	GO
	1,3,5-Trimethylbenzene	0.0588	0.014		11/16/2001	GO
	1,3-Dichlorobenzene	< 0.01	0.01		11/16/2001	GO
	1,3-Dichloropropane	< 0.007	0.007		11/16/2001	GO
	1,4-Dichlorobenzene	< 0.015	0.015		11/16/2001	GO
	2,2-Dichloropropane	< 0.012	0.012		11/16/2001	GO
	2-Butanone	< 0.1	0.1		11/16/2001	GO
	2-Chlorotoluene	< 0.01	0.01		11/16/2001	GO
	2-Hexanone	< 0.008	0.008		11/16/2001	GO
	4-Chlorotoluene	< 0.01	0.01		11/16/2001	GO
	4-Methyl-2-pentanone	< 0.1	0.1		11/16/2001	GO
	Acetone	< 0.4	0.4		11/16/2001	GO
	Benzene	1.738	0.007		11/16/2001	GO
	Bromobenzene	< 0.012	0.012		11/16/2001	GO
	Bromochloromethane	< 0.019	0.019		11/16/2001	GO

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC144-TP3				
Lab Number		01110380-01				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromodichloromethane	< 0.007	0.007		11/16/2001	GO
	Bromoform	< 0.05	0.05		11/16/2001	GO
	Bromomethane	0.04	0.014		11/16/2001	GO
	Carbon disulfide	< 0.012	0.012		11/16/2001	GO
	Carbon tetrachloride	< 0.017	0.017		11/16/2001	GO
	Chlorobenzene	< 0.012	0.012		11/16/2001	GO
	Chloroethane	< 0.018	0.018		11/16/2001	GO
	Chloroform	< 0.013	0.013		11/16/2001	GO
	Chloromethane	< 0.038	0.038		11/16/2001	GO
	cis-1,2-Dichloroethene	< 0.011	0.011		11/16/2001	GO
	cis-1,3-Dichloropropene	< 0.007	0.007		11/16/2001	GO
	Dibromochloromethane	< 0.012	0.012		11/16/2001	GO
	Dibromomethane	< 0.014	0.014		11/16/2001	GO
	Dichlorodifluoromethane	< 0.05	0.05		11/16/2001	GO
	Ethylbenzene	0.2664	0.014		11/16/2001	GO
	Hexachlorobutadiene	< 0.1	0.1		11/16/2001	GO
	Isopropyl Toluene	< 0.015	0.015		11/16/2001	GO
	Isopropylbenzene	< 0.013	0.013		11/16/2001	GO
	m,p-Xylene	0.9574	0.024		11/16/2001	GO
	Methyl tert-butyl ether	< 0.05	0.05		11/16/2001	GO
	Methylene chloride	< 0.027	0.027		11/16/2001	GO
	Naphthalene	0.068	0.02		11/16/2001	GO
	n-Butylbenzene	< 0.028	0.028		11/16/2001	GO
	n-Propylbenzene	< 0.016	0.016		11/16/2001	GO
	o-Xylene	0.5075	0.05		11/16/2001	GO
	sec-Butylbenzene	< 0.021	0.021		11/16/2001	GO
	Styrene	< 0.011	0.011		11/16/2001	GO
	tert-Butylbenzene	< 0.011	0.011		11/16/2001	GO
	Tetrachloroethene	< 0.016	0.016		11/16/2001	GO
	Toluene	3.634	0.0159		11/16/2001	GO
	trans-1,2-Dichloroethene	< 0.011	0.011		11/16/2001	GO
	trans-1,3-Dichloropropene	< 0.006	0.006		11/16/2001	GO
	Trichloroethene	< 0.01	0.01		11/16/2001	GO
	Trichlorofluoromethane	< 0.011	0.011		11/16/2001	GO
	Vinyl chloride	< 0.013	0.013		11/16/2001	GO

No sample received to perform SW8270C or SW8310 analysis.
AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC68H-TP1				
Lab Number		01110380-02				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.365	0.008	mg/L	11/16/2001	MG
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/16/2001	GO
	Benzene	0.0315	0.007		11/16/2001	GO
	Ethylbenzene	0.9251	0.014		11/16/2001	GO
	Methyl tert-butyl ether	< 0.05	0.05		11/16/2001	GO
	Toluene	0.1167	0.0159		11/16/2001	GO
	Xylenes, Total	2.384	0.05		11/16/2001	GO

Field ID		NTC68H-TP2				
Lab Number		01110380-03				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.205	0.004	mg/L	11/16/2001	MG
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/16/2001	GO
	Benzene	0.0835	0.007		11/16/2001	GO
	Ethylbenzene	0.5434	0.014		11/16/2001	GO
	Methyl tert-butyl ether	< 0.05	0.05		11/16/2001	GO
	Toluene	0.0457	0.0159		11/16/2001	GO
	Xylenes, Total	0.0943	0.05		11/16/2001	GO

Field ID		NTC68H-TP3				
Lab Number		01110380-04				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/152001	GO
	Benzene	< 0.0007	0.0007		11/152001	GO
	Ethylbenzene	0.00354	0.0014		11/152001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/152001	GO
	Toluene	0.002	0.00159		11/152001	GO
	Xylenes, Total	< 0.005	0.005		11/152001	GO

No sample received for NTC68H-TP3 to analyze for Lead.
AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC106-TP1				
Lab Number		01110380-05				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	0.00264	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Toluene	0.00668	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/19/2001	LBI
	Acenaphthene	< 0.00007	0.00007		11/19/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/19/2001	LBI
	Anthracene	< 0.00003	0.00003		11/19/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/19/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/19/2001	LBI
	Chrysene	< 0.00004	0.00004		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/19/2001	LBI
	Fluoranthene	< 0.0002	0.0002		11/19/2001	LBI
	Fluorene	< 0.00005	0.00005		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/19/2001	LBI
	Naphthalene	0.00044	0.0002		11/19/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/19/2001	LBI
	Pyrene	< 0.0001	0.0001		11/19/2001	LBI

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Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC103-TP1				
Lab Number		01110380-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	0.00135	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/15/2001	GO
	Toluene	0.00286	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/19/2001	LBI
	Acenaphthene	< 0.00012	0.00012		11/19/2001	LBI
	Acenaphthylene	< 0.00035	0.00035		11/19/2001	LBI
	Anthracene	< 0.00005	0.00005		11/19/2001	LBI
	Benz(a)anthracene	< 0.00005	0.00005		11/19/2001	LBI
	Benzo(a)pyrene	< 0.00009	0.00009		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00014	0.00014		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.00028	0.00028		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00008	0.00008		11/19/2001	LBI
	Chrysene	< 0.00007	0.00007		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00007	0.00007		11/19/2001	LBI
	Fluoranthene	< 0.00034	0.00034		11/19/2001	LBI
	Fluorene	< 0.00009	0.00009		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00021	0.00021		11/19/2001	LBI
	Naphthalene	< 0.00034	0.00034		11/19/2001	LBI
	Phenanthrene	< 0.00016	0.00016		11/19/2001	LBI
	Pyrene	< 0.00016	0.00016		11/19/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC3216B-TP1				
Lab Number		01110380-07				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/16/2001	GO
	Benzene	< 0.0007	0.0007		11/16/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/16/2001	GO
	Toluene	< 0.00159	0.00159		11/16/2001	GO
	Xylenes, Total	< 0.005	0.005		11/16/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/19/2001	LBI
	Acenaphthene	0.0367	0.00418		11/19/2001	LBI
	Acenaphthylene	< 0.0119	0.0119		11/19/2001	LBI
	Anthracene	0.00626	0.00179		11/19/2001	LBI
	Benz(a)anthracene	0.00239	0.00179		11/19/2001	LBI
	Benzo(a)pyrene	< 0.00298	0.00298		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00477	0.00477		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.00955	0.00955		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00268	0.00268		11/19/2001	LBI
	Chrysene	0.00268	0.00239		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00239	0.00239		11/19/2001	LBI
	Fluoranthene	0.0349	0.0113		11/19/2001	LBI
	Fluorene	0.0298	0.00298		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00716	0.00716		11/19/2001	LBI
	Naphthalene	< 0.0113	0.0113		11/19/2001	LBI
	Phenanthrene	0.0788	0.00537		11/19/2001	LBI
	Pyrene	0.0274	0.00537		11/19/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		**NTC3216B-TP2**				
Lab Number		**01110380-08**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/16/2001	GO
	Benzene	< 0.0007	0.0007		11/16/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/16/2001	GO
	Toluene	0.00255	0.00159		11/16/2001	GO
	Xylenes, Total	< 0.005	0.005		11/16/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	0.0789	0.0409		11/21/2001	LBI
	Acenaphthylene	< 0.00584	0.00584		11/19/2001	LBI
	Anthracene	0.0305	0.00088		11/19/2001	LBI
	Benz(a)anthracene	0.0538	0.00088		11/19/2001	LBI
	Benzo(a)pyrene	< 0.00146	0.00146		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00234	0.00234		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.00468	0.00468		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00132	0.00132		11/19/2001	LBI
	Chrysene	0.0237	0.00117		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00117	0.00117		11/19/2001	LBI
	Fluoranthene	0.95	0.111		11/21/2001	LBI
	Fluorene	0.111	0.0292		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00351	0.00351		11/19/2001	LBI
	Naphthalene	0.0473	0.00555		11/19/2001	LBI
	Phenanthrene	0.336	0.0526		11/21/2001	LBI
	Pyrene	0.532	0.0526		11/21/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
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Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC3216B-TP3				
Lab Number		01110380-09				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/16/2001	GO
	Benzene	< 0.007	0.007		11/16/2001	GO
	Ethylbenzene	< 0.014	0.014		11/16/2001	GO
	Toluene	< 0.0159	0.0159		11/16/2001	GO
	Xylenes, Total	< 0.05	0.05		11/16/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/26/2001	LBI
	Acenaphthene	0.0221	0.00351		11/26/2001	LBI
	Acenaphthylene	< 0.006	0.006		11/21/2001	LBI
	Anthracene	0.0105	0.00151		11/26/2001	LBI
	Benz(a)anthracene	< 0.008	0.008		11/21/2001	LBI
	Benzo(a)pyrene	0.00012	0.00006		11/21/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/21/2001	LBI
	Benzo(g,h,i)perylene	< 0.0002	0.0002		11/21/2001	LBI
	Benzo(k)fluoranthene	< 0.00006	0.00006		11/21/2001	LBI
	Chrysene	< 0.008	0.008		11/21/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/21/2001	LBI
	Fluoranthene	0.148	0.00953		11/26/2001	LBI
	Fluorene	0.0319	0.00251		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00015	0.00015		11/21/2001	LBI
	Naphthalene	0.0474	0.00953		11/26/2001	LBI
	Phenanthrene	0.11	0.00452		11/26/2001	LBI
	Pyrene	0.0823	0.00452		11/26/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC3216B-SB1				
Lab Number		01110380-10				
Description		2-4'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	30	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.012	0.012		11/21/2001	MNN
	Ethylbenzene	< 0.00992	0.00992		11/21/2001	MNN
	Toluene	< 0.0138	0.0138		11/21/2001	MNN
	Xylenes, Total	< 0.0231	0.0231		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/19/2001	LBI
	Acenaphthene	< 0.046	0.046		11/19/2001	LBI
	Acenaphthylene	0.378	0.0582		11/19/2001	LBI
	Anthracene	< 0.0506	0.0506		11/19/2001	LBI
	Benz(a)anthracene	0.0721	0.0255		11/19/2001	LBI
	Benzo(a)pyrene	0.13	0.0527		11/19/2001	LBI
	Benzo(b)fluoranthene	0.158	0.0161		11/19/2001	LBI
	Benzo(g,h,i)perylene	0.207	0.0274		11/19/2001	LBI
	Benzo(k)fluoranthene	0.0812	0.0149		11/19/2001	LBI
	Chrysene	0.0582	0.0256		11/19/2001	LBI
	Dibenz(a,h)anthracene	0.0278	0.0139		11/19/2001	LBI
	Fluoranthene	0.121	0.0181		11/19/2001	LBI
	Fluorene	< 0.0336	0.0336		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.123	0.0232		11/19/2001	LBI
	Naphthalene	< 0.0611	0.0611		11/19/2001	LBI
	Phenanthrene	0.065	0.0467		11/19/2001	LBI
	Pyrene	0.11	0.041		11/19/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
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ANALYTICAL REPORT

Field ID		NTC3216B-SB2				
Lab Number		01110380-11				
Description		6-8'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	39.9	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.013	0.013		11/21/2001	MNN
	Ethylbenzene	< 0.0107	0.0107		11/21/2001	MNN
	Toluene	< 0.0149	0.0149		11/21/2001	MNN
	Xylenes, Total	< 0.025	0.025		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	0.218	0.212		11/26/2001	LBI
	Acenaphthylene	< 0.335	0.335		11/19/2001	LBI
	Anthracene	< 0.233	0.233		11/26/2001	LBI
	Benz(a)anthracene	4.1	0.146		11/19/2001	LBI
	Benzo(a)pyrene	6	0.303		11/19/2001	LBI
	Benzo(b)fluoranthene	7.12	0.0927		11/19/2001	LBI
	Benzo(g,h,i)perylene	8.23	0.157		11/19/2001	LBI
	Benzo(k)fluoranthene	3.63	0.0857		11/19/2001	LBI
	Chrysene	4.19	0.147		11/19/2001	LBI
	Dibenz(a,h)anthracene	1.03	0.0802		11/19/2001	LBI
	Fluoranthene	3.24	0.0835		11/26/2001	LBI
	Fluorene	0.785	0.193		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	5.44	0.133		11/19/2001	LBI
	Naphthalene	3.81	0.351		11/19/2001	LBI
	Phenanthrene	1.15	0.215		11/26/2001	LBI
	Pyrene	2.43	0.189		11/26/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC3216B-SB3				
Lab Number		01110380-12				
Description		4-6'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	24.4	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.0128	0.0128		11/21/2001	MNN
	Ethylbenzene	< 0.0105	0.0105		11/21/2001	MNN
	Toluene	< 0.0146	0.0146		11/21/2001	MNN
	Xylenes, Total	< 0.0246	0.0246		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	0.547	0.438		11/26/2001	LBI
	Acenaphthylene	< 0.554	0.554		11/26/2001	LBI
	Anthracene	< 0.481	0.481		11/26/2001	LBI
	Benz(a)anthracene	< 0.242	0.242		11/26/2001	LBI
	Benzo(a)pyrene	3.93	0.501		11/19/2001	LBI
	Benzo(b)fluoranthene	3.51	0.153		11/19/2001	LBI
	Benzo(g,h,i)perylene	6.98	0.26		11/19/2001	LBI
	Benzo(k)fluoranthene	1.96	0.142		11/19/2001	LBI
	Chrysene	< 0.243	0.243		11/26/2001	LBI
	Dibenz(a,h)anthracene	0.805	0.133		11/19/2001	LBI
	Fluoranthene	4.06	0.173		11/26/2001	LBI
	Fluorene	0.483	0.319		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	5.66	0.22		11/19/2001	LBI
	Naphthalene	0.933	0.581		11/26/2001	LBI
	Phenanthrene	1.58	0.444		11/26/2001	LBI
	Pyrene	2.57	0.39		11/26/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC3511-SB1				
Lab Number		01110380-13				
Description		8-10'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.001	0.001		11/21/2001	MNN
	Ethylbenzene	< 0.001	0.001		11/21/2001	MNN
	Toluene	< 0.0016	0.0016		11/21/2001	MNN
	Xylenes, Total	< 0.002	0.002		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/26/2001	LBI
	Acenaphthene	0.0748	0.0192		11/26/2001	LBI
	Acenaphthylene	< 0.0243	0.0243		11/26/2001	LBI
	Anthracene	0.451	0.0210		11/26/2001	LBI
	Benz(a)anthracene	0.998	0.0106		11/26/2001	LBI
	Benzo(a)pyrene	0.931	0.0220		11/26/2001	LBI
	Benzo(b)fluoranthene	0.799	0.0067		11/26/2001	LBI
	Benzo(g,h,i)perylene	0.986	0.0114		11/26/2001	LBI
	Benzo(k)fluoranthene	0.536	0.0062		11/26/2001	LBI
	Chrysene	0.814	0.0107		11/26/2001	LBI
	Dibenz(a,h)anthracene	0.133	0.0058		11/26/2001	LBI
	Fluoranthene	2.16	0.0076		11/26/2001	LBI
	Fluorene	0.0959	0.0140		11/26/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.552	0.0097		11/26/2001	LBI
	Naphthalene	0.0592	0.0255		11/26/2001	LBI
	Phenanthrene	1.24	0.0194		11/26/2001	LBI
	Pyrene	1.94	0.0171		11/26/2001	LBI

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Fax: (847) 689-0698
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Project Name: Relative Risk Ranking UST Sites
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ANALYTICAL REPORT

Field ID		NTC3511-SB2				
Lab Number		01110380-14				
Description		8-10'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	19.3	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.00113	0.00113		11/21/2001	MNN
	Ethylbenzene	< 0.00113	0.00113		11/21/2001	MNN
	Toluene	< 0.0018	0.0018		11/21/2001	MNN
	Xylenes, Total	< 0.00225	0.00225		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/19/2001	LBI
	Acenaphthene	< 0.0207	0.0207		11/19/2001	LBI
	Acenaphthylene	< 0.0262	0.0262		11/19/2001	LBI
	Anthracene	0.0381	0.0228		11/19/2001	LBI
	Benz(a)anthracene	0.126	0.0115		11/19/2001	LBI
	Benzo(a)pyrene	0.134	0.0237		11/19/2001	LBI
	Benzo(b)fluoranthene	0.134	0.00725		11/19/2001	LBI
	Benzo(g,h,i)perylene	0.142	0.0123		11/19/2001	LBI
	Benzo(k)fluoranthene	0.0761	0.0067		11/19/2001	LBI
	Chrysene	0.0761	0.0115		11/19/2001	LBI
	Dibenz(a,h)anthracene	0.0259	0.00627		11/19/2001	LBI
	Fluoranthene	0.209	0.00816		11/19/2001	LBI
	Fluorene	< 0.0151	0.0151		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.0853	0.0104		11/19/2001	LBI
	Naphthalene	< 0.0275	0.0275		11/19/2001	LBI
	Phenanthrene	0.105	0.021		11/19/2001	LBI
	Pyrene	0.221	0.0185		11/19/2001	LBI

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Fax: (847) 689-0698
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First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
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Sampled: 11/12-13/01
Received: 11/14/01
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ANALYTICAL REPORT

Field ID		NTC3511-SB3				
Lab Number		01110380-15				
Description		10-12'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	21.8	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.00115	0.00115		11/21/2001	MNN
	Ethylbenzene	< 0.00115	0.00115		11/21/2001	MNN
	Toluene	< 0.00185	0.00185		11/21/2001	MNN
	Xylenes, Total	< 0.00231	0.00231		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/19/2001	LBI
	Acenaphthene	< 0.0215	0.0215		11/19/2001	LBI
	Acenaphthylene	< 0.0272	0.0272		11/19/2001	LBI
	Anthracene	< 0.0236	0.0236		11/19/2001	LBI
	Benz(a)anthracene	< 0.0119	0.0119		11/19/2001	LBI
	Benzo(a)pyrene	< 0.0246	0.0246		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00752	0.00752		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.0128	0.0128		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00695	0.00695		11/19/2001	LBI
	Chrysene	< 0.0119	0.0119		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00651	0.00651		11/19/2001	LBI
	Fluoranthene	< 0.00847	0.00847		11/19/2001	LBI
	Fluorene	< 0.0157	0.0157		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0108	0.0108		11/19/2001	LBI
	Naphthalene	< 0.0285	0.0285		11/19/2001	LBI
	Phenanthrene	< 0.0218	0.0218		11/19/2001	LBI
	Pyrene	< 0.0191	0.0191		11/19/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC90-SB3				
Lab Number		01110380-16				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	15	0.1	% (Percent)	11/15/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/21/2001	MNN
	Benzene	< 0.00093	0.00093		11/21/2001	MNN
	Ethylbenzene	< 0.00093	0.00093		11/21/2001	MNN
	Toluene	0.00172	0.00149		11/21/2001	MNN
	Xylenes, Total	< 0.00187	0.00187		11/21/2001	MNN
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/19/2001	LBI
	Acenaphthene	< 0.0192	0.0192		11/19/2001	LBI
	Acenaphthylene	< 0.0243	0.0243		11/19/2001	LBI
	Anthracene	< 0.0211	0.0211		11/19/2001	LBI
	Benz(a)anthracene	< 0.0106	0.0106		11/19/2001	LBI
	Benzo(a)pyrene	< 0.0219	0.0219		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00671	0.00671		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.0114	0.0114		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.0062	0.0062		11/19/2001	LBI
	Chrysene	< 0.0107	0.0107		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00581	0.00581		11/19/2001	LBI
	Fluoranthene	< 0.00756	0.00756		11/19/2001	LBI
	Fluorene	< 0.014	0.014		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00964	0.00964		11/19/2001	LBI
	Naphthalene	< 0.0254	0.0254		11/19/2001	LBI
	Phenanthrene	< 0.0195	0.0195		11/19/2001	LBI
	Pyrene	< 0.0171	0.0171		11/19/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC90-TP1				
Lab Number		01110380-17				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	0.00026	0.00007		11/21/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/21/2001	LBI
	Anthracene	0.00024	0.00003		11/21/2001	LBI
	Benz(a)anthracene	0.00144	0.00003		11/21/2001	LBI
	Benzo(a)pyrene	0.00119	0.00005		11/21/2001	LBI
	Benzo(b)fluoranthene	0.00118	0.00008		11/21/2001	LBI
	Benzo(g,h,i)perylene	0.00143	0.00017		11/21/2001	LBI
	Benzo(k)fluoranthene	0.00069	0.00005		11/21/2001	LBI
	Chrysene	0.00102	0.00004		11/21/2001	LBI
	Dibenz(a,h)anthracene	0.00019	0.00004		11/21/2001	LBI
	Fluoranthene	0.00396	0.0002		11/21/2001	LBI
	Fluorene	0.00027	0.00005		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.00086	0.00013		11/21/2001	LBI
	Naphthalene	0.00207	0.0002		11/21/2001	LBI
	Phenanthrene	0.001	0.0001		11/21/2001	LBI
	Pyrene	0.00332	0.0001		11/21/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC90-TP2				
Lab Number		01110380-18				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	0.00031	0.00008		11/21/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/21/2001	LBI
	Anthracene	0.00009	0.00003		11/21/2001	LBI
	Benz(a)anthracene	0.00029	0.00003		11/21/2001	LBI
	Benzo(a)pyrene	0.00036	0.00006		11/21/2001	LBI
	Benzo(b)fluoranthene	0.00035	0.00009		11/21/2001	LBI
	Benzo(g,h,i)perylene	0.0004	0.00019		11/21/2001	LBI
	Benzo(k)fluoranthene	0.00019	0.00005		11/21/2001	LBI
	Chrysene	0.00032	0.00005		11/21/2001	LBI
	Dibenz(a,h)anthracene	0.00005	0.00005		11/21/2001	LBI
	Fluoranthene	0.00107	0.00022		11/21/2001	LBI
	Fluorene	0.00032	0.00006		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.00024	0.00014		11/21/2001	LBI
	Naphthalene	0.00107	0.00022		11/21/2001	LBI
	Phenanthrene	0.00066	0.0001		11/21/2001	LBI
	Pyrene	0.00089	0.0001		11/21/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC90-TP3				
Lab Number		01110380-19				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO

Field ID		NTC13-TP1				
Lab Number		01110380-20				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.144	0.004	mg/L	11/16/2001	MG
W8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO

Field ID		NTC13-TP2				
Lab Number		01110380-21				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.071	0.003	mg/L	11/16/2001	MG
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO

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Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC13-TP3				
Lab Number		01110380-22				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7421	Lead	0.026	0.003	mg/L	11/16/2001	MG
SW8260B	**BTEX by GC/MS**	---	---	mg/L	11/15/2001	GO
	Benzene	0.00439	0.0007		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/15/2001	GO
	Toluene	0.01932	0.00159		11/15/2001	GO
	Xylenes, Total	< 0.005	0.005		11/15/2001	GO

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Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC1-TP1				
Lab Number		01110380-23				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/19/2001	AG
SW6010B	Barium	0.019	0.008	mg/L	11/16/2001	ML
SW7131	Cadmium	< 0.0013	0.001	mg/L	11/19/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/16/2001	ML
SW7421	Lead	< 0.003	0.003	mg/L	11/16/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/16/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/19/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/16/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/15/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/15/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/15/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/15/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/15/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/15/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/15/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/15/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/15/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/15/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/15/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/15/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/15/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/15/2001	GO
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/15/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/15/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/15/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/15/2001	GO
	2-Butanone	< 0.01	0.01		11/15/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/15/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/15/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/15/2001	GO
	Bromodichloromethane	< 0.0007	0.0007		11/15/2001	GO

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC1-TP1				
Lab Number		01110380-23				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromoform	< 0.005	0.005		11/15/2001	GO
	Bromomethane	< 0.0014	0.0014		11/15/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/15/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/15/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/15/2001	GO
	Chloroethane	< 0.0018	0.0018		11/15/2001	GO
	Chloroform	< 0.0013	0.0013		11/15/2001	GO
	Chloromethane	< 0.0038	0.0038		11/15/2001	GO
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/15/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/15/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/15/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/15/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/15/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/15/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/15/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/15/2001	GO
	Naphthalene	< 0.002	0.002		11/15/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/15/2001	GO
	n-Propylbenzene	< 0.0016	0.0016		11/15/2001	GO
	o-Xylene	< 0.005	0.005		11/15/2001	GO
	sec-Butylbenzene	< 0.0021	0.0021		11/15/2001	GO
	Styrene	< 0.0011	0.0011		11/15/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/15/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/15/2001	GO
	Toluene	< 0.00159	0.00159		11/15/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/15/2001	GO
	Trichloroethene	< 0.001	0.001		11/15/2001	GO
	Trichlorofluoromethane	< 0.0011	0.0011		11/15/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/15/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/15/2001	GO
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/16/2001	GG
	1,2,4-Trichlorobenzene	< 0.00156	0.00156		11/16/2001	GG
	1,2-Dichlorobenzene	< 0.00114	0.00114		11/16/2001	GG
	1,3-Dichlorobenzene	< 0.0012	0.0012		11/16/2001	GG
	1,4-Dichlorobenzene	< 0.00133	0.00133		11/16/2001	GG
	2,4,5-Trichlorophenol	< 0.00128	0.00128		11/16/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC1-TP1				
Lab Number		01110380-23				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,6-Trichlorophenol	< 0.00155	0.00155		11/16/2001	GG
	2,4-Dichlorophenol	< 0.00155	0.00155		11/16/2001	GG
	2,4-Dimethylphenol	< 0.0122	0.0122		11/16/2001	GG
	2,4-Dinitrophenol	< 0.0243	0.0243		11/16/2001	GG
	2,4-Dinitrotoluene	< 0.0243	0.0243		11/16/2001	GG
	2,6-Dinitrotoluene	< 0.00486	0.00486		11/16/2001	GG
	2-Chloronaphthalene	< 0.00084	0.00084		11/16/2001	GG
	2-Chlorophenol	< 0.00131	0.00131		11/16/2001	GG
	2-Methylnaphthalene	< 0.00161	0.00161		11/16/2001	GG
	2-Nitroaniline	< 0.00486	0.00486		11/16/2001	GG
	2-Nitrophenol	< 0.00197	0.00197		11/16/2001	GG
	3,3'-Dichlorobenzidine	< 0.0102	0.0102		11/16/2001	GG
	3-Nitroaniline	< 0.00486	0.00486		11/16/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0122	0.0122		11/16/2001	GG
	4-Bromophenyl phenyl ether	< 0.00138	0.00138		11/16/2001	GG
	4-Chloro-3-methylphenol	< 0.00131	0.00131		11/16/2001	GG
	4-Chloroaniline	< 0.0122	0.0122		11/16/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00139	0.00139		11/16/2001	GG
	4-Nitroaniline	< 0.00486	0.00486		11/16/2001	GG
	4-Nitrophenol	< 0.00486	0.00486		11/16/2001	GG
	Acenaphthene	< 0.00156	0.00156		11/16/2001	GG
	Acenaphthylene	< 0.00148	0.00148		11/16/2001	GG
	Anthracene	< 0.00115	0.00115		11/16/2001	GG
	Benz(a)anthracene	< 0.00158	0.00158		11/16/2001	GG
	Benzo(a)pyrene	< 0.00152	0.00152		11/16/2001	GG
	Benzo(b+k)fluoranthene	< 0.003	0.003		11/16/2001	GG
	Benzo(g,h,i)perylene	< 0.00201	0.00201		11/16/2001	GG
	Benzyl alcohol	< 0.00169	0.00169		11/16/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00221	0.00221		11/16/2001	GG
	Bis(2-chloroethyl)ether	< 0.0015	0.0015		11/16/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00194	0.00194		11/16/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00156	0.00156		11/16/2001	GG
	Butyl benzyl phthalate	< 0.00127	0.00127		11/16/2001	GG
	Chrysene	< 0.00188	0.00188		11/16/2001	GG
	Di-n-butyl phthalate	< 0.00137	0.00137		11/16/2001	GG
	Di-n-octyl phthalate	< 0.00125	0.00125		11/16/2001	GG
	Dibenz(a,h)anthracene	< 0.00144	0.00144		11/16/2001	GG
	Dibenzofuran	< 0.00144	0.00144		11/16/2001	GG
	Diethyl phthalate	< 0.0122	0.0122		11/16/2001	GG
	Dimethyl phthalate	< 0.00486	0.00486		11/16/2001	GG
	Fluoranthene	< 0.00122	0.00122		11/16/2001	GG

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Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
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ANALYTICAL REPORT

Field ID		NTC1-TP1				
Lab Number		01110380-23				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluorene	< 0.00146	0.00146		11/16/2001	GG
	Hexachlorobenzene	< 0.00135	0.00135		11/16/2001	GG
	Hexachlorobutadiene	< 0.0243	0.0243		11/16/2001	GG
	Hexachlorocyclopentadiene	< 0.0243	0.0243		11/16/2001	GG
	Hexachloroethane	< 0.0012	0.0012		11/16/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00158	0.00158		11/16/2001	GG
	Isophorone	< 0.00156	0.00156		11/16/2001	GG
	m,p-Cresol	< 0.00486	0.00486		11/16/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00131	0.00131		11/16/2001	GG
	N-Nitrosodiphenylamine	< 0.00105	0.00105		11/16/2001	GG
	Naphthalene	< 0.00167	0.00167		11/16/2001	GG
	Nitrobenzene	< 0.00165	0.00165		11/16/2001	GG
	o-Cresol	< 0.00486	0.00486		11/16/2001	GG
	Pentachlorophenol	< 0.0243	0.0243		11/16/2001	GG
	Phenanthrene	< 0.00128	0.00128		11/16/2001	GG
	Phenol	< 0.00341	0.00341		11/16/2001	GG
	Pyrene	< 0.00122	0.00122		11/16/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	< 0.00007	0.00007		11/21/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/21/2001	LBI
	Anthracene	< 0.00003	0.00003		11/21/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/21/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/21/2001	LBI
	Benzo(b)fluoranthene	< 0.00008	0.00008		11/21/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/21/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/21/2001	LBI
	Chrysene	< 0.00004	0.00004		11/21/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/21/2001	LBI
	Fluoranthene	< 0.0002	0.0002		11/21/2001	LBI
	Fluorene	< 0.00005	0.00005		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/21/2001	LBI
	Naphthalene	< 0.0002	0.0002		11/21/2001	LBI
	Phenanthrene	< 0.00009	0.00009		11/21/2001	LBI
	Pyrene	< 0.00009	0.00009		11/21/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC1-TP2				
Lab Number		01110380-24				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/15/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/15/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/15/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/15/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/15/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/15/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/15/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/15/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,4-Trimethylbenzene	0.00155	0.0012		11/15/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/15/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/15/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/15/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/15/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/15/2001	GO
	1,3,5-Trimethylbenzene	0.00227	0.0014		11/15/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/15/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/15/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/15/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/15/2001	GO
	2-Butanone	< 0.01	0.01		11/15/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/15/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/15/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/15/2001	GO
	Bromodichloromethane	< 0.0007	0.0007		11/15/2001	GO
	Bromoform	< 0.005	0.005		11/15/2001	GO
	Bromomethane	< 0.0014	0.0014		11/15/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/15/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/15/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/15/2001	GO
	Chloroethane	< 0.0018	0.0018		11/15/2001	GO
	Chloroform	< 0.0013	0.0013		11/15/2001	GO
	Chloromethane	< 0.0038	0.0038		11/15/2001	GO

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
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ANALYTICAL REPORT

Field ID		NTC1-TP2				
Lab Number		01110380-24				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/15/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/15/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/15/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/15/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/15/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/15/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/15/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/15/2001	GO
	Naphthalene	< 0.002	0.002		11/15/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/15/2001	GO
	n-Propylbenzene	0.0032	0.0016		11/15/2001	GO
	o-Xylene	< 0.005	0.005		11/15/2001	GO
	sec-Butylbenzene	0.00275	0.0021		11/15/2001	GO
	Styrene	< 0.0011	0.0011		11/15/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/15/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/15/2001	GO
	Toluene	0.00212	0.00159		11/15/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/15/2001	GO
	Trichloroethene	< 0.001	0.001		11/15/2001	GO
	Trichlorofluoromethane	< 0.0011	0.0011		11/15/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/15/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	< 0.0001	0.0001		11/21/2001	LBI
	Acenaphthylene	< 0.00028	0.00028		11/21/2001	LBI
	Anthracene	< 0.00004	0.00004		11/21/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/21/2001	LBI
	Benzo(a)pyrene	< 0.00007	0.00007		11/21/2001	LBI
	Benzo(b)fluoranthene	< 0.00011	0.00011		11/21/2001	LBI
	Benzo(g,h,i)perylene	< 0.00022	0.00022		11/21/2001	LBI
	Benzo(k)fluoranthene	< 0.00006	0.00006		11/21/2001	LBI
	Chrysene	< 0.00006	0.00006		11/21/2001	LBI
	Dibenz(a,h)anthracene	< 0.00006	0.00006		11/21/2001	LBI
	Fluoranthene	< 0.00026	0.00026		11/21/2001	LBI
	Fluorene	< 0.00007	0.00007		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00017	0.00017		11/21/2001	LBI

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Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
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ANALYTICAL REPORT

Field ID		NTC1-TP2				
Lab Number		01110380-24				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Naphthalene	< 0.00026	0.00026		11/21/2001	LBI
	Phenanthrene	< 0.00012	0.00012		11/21/2001	LBI
	Pyrene	< 0.00012	0.00012		11/21/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

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ANALYTICAL REPORT

Field ID		NTC1-TP3				
Lab Number		01110380-25				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/19/2001	AG
SW6010B	Barium	0.032	0.008	mg/L	11/16/2001	ML
SW7131	Cadmium	< 0.0013	0.001	mg/L	11/19/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/16/2001	ML
SW7421	Lead	0.004	0.003	mg/L	11/16/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/16/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/19/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/16/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/15/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/15/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/15/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/15/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/15/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/15/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/15/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/15/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/15/2001	GO
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/15/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/15/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/15/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/15/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/15/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/15/2001	GO
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/15/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/15/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/15/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/15/2001	GO
	2-Butanone	< 0.01	0.01		11/15/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/15/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/15/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/15/2001	GO
	Benzene	< 0.0007	0.0007		11/15/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/15/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/15/2001	GO
	Bromodichloromethane	< 0.0007	0.0007		11/15/2001	GO

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
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ANALYTICAL REPORT

Field ID		NTC1-TP3				
Lab Number		01110380-25				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromoform	< 0.005	0.005		11/15/2001	GO
	Bromomethane	< 0.0014	0.0014		11/15/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/15/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/15/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/15/2001	GO
	Chloroethane	< 0.0018	0.0018		11/15/2001	GO
	Chloroform	< 0.0013	0.0013		11/15/2001	GO
	Chloromethane	< 0.0038	0.0038		11/15/2001	GO
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/15/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/15/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/15/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/15/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/15/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/15/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/15/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/15/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/15/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/15/2001	GO
	Naphthalene	< 0.002	0.002		11/15/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/15/2001	GO
	n-Propylbenzene	< 0.0016	0.0016		11/15/2001	GO
	o-Xylene	< 0.005	0.005		11/15/2001	GO
	sec-Butylbenzene	< 0.0021	0.0021		11/15/2001	GO
	Styrene	< 0.0011	0.0011		11/15/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/15/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/15/2001	GO
	Toluene	0.00168	0.00159		11/15/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/15/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/15/2001	GO
	Trichloroethene	< 0.001	0.001		11/15/2001	GO
	Trichlorofluoromethane	< 0.0011	0.0011		11/15/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/15/2001	GO
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/16/2001	GG
	1,2,4-Trichlorobenzene	< 0.00176	0.00176		11/16/2001	GG
	1,2-Dichlorobenzene	< 0.00128	0.00128		11/16/2001	GG
	1,3-Dichlorobenzene	< 0.00136	0.00136		11/16/2001	GG
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/16/2001	GG
	2,4,5-Trichlorophenol	< 0.00145	0.00145		11/16/2001	GG
	2,4,6-Trichlorophenol	< 0.00175	0.00175		11/16/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
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Sampled: 11/12-13/01
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ANALYTICAL REPORT

Field ID		NTC1-TP3				
Lab Number		01110380-25				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4-Dichlorophenol	< 0.00175	0.00175		11/16/2001	GG
	2,4-Dimethylphenol	< 0.0138	0.0138		11/16/2001	GG
	2,4-Dinitrophenol	< 0.0275	0.0275		11/16/2001	GG
	2,4-Dinitrotoluene	< 0.0275	0.0275		11/16/2001	GG
	2,6-Dinitrotoluene	< 0.0055	0.0055		11/16/2001	GG
	2-Chloronaphthalene	< 0.00095	0.00095		11/16/2001	GG
	2-Chlorophenol	< 0.00149	0.00149		11/16/2001	GG
	2-Methylnaphthalene	< 0.00182	0.00182		11/16/2001	GG
	2-Nitroaniline	< 0.0055	0.0055		11/16/2001	GG
	2-Nitrophenol	< 0.00223	0.00223		11/16/2001	GG
	3,3'-Dichlorobenzidine	< 0.0116	0.0116		11/16/2001	GG
	3-Nitroaniline	< 0.0055	0.0055		11/16/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0138	0.0138		11/16/2001	GG
	4-Bromophenyl phenyl ether	< 0.00156	0.00156		11/16/2001	GG
	4-Chloro-3-methylphenol	< 0.00149	0.00149		11/16/2001	GG
	4-Chloroaniline	< 0.0138	0.0138		11/16/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00157	0.00157		11/16/2001	GG
	4-Nitroaniline	< 0.0055	0.0055		11/16/2001	GG
	4-Nitrophenol	< 0.0055	0.0055		11/16/2001	GG
	Acenaphthene	< 0.00177	0.00177		11/16/2001	GG
	Acenaphthylene	< 0.00167	0.00167		11/16/2001	GG
	Anthracene	< 0.0013	0.0013		11/16/2001	GG
	Benz(a)anthracene	< 0.00179	0.00179		11/16/2001	GG
	Benzo(a)pyrene	< 0.00171	0.00171		11/16/2001	GG
	Benzo(b+k)fluoranthene	< 0.00339	0.00339		11/16/2001	GG
	Benzo(g,h,i)perylene	< 0.00227	0.00227		11/16/2001	GG
	Benzyl alcohol	< 0.00192	0.00192		11/16/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0025	0.0025		11/16/2001	GG
	Bis(2-chloroethyl)ether	< 0.0017	0.0017		11/16/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00219	0.00219		11/16/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00176	0.00176		11/16/2001	GG
	Butyl benzyl phthalate	< 0.00144	0.00144		11/16/2001	GG
	Chrysene	< 0.00213	0.00213		11/16/2001	GG
	Di-n-butyl phthalate	< 0.00155	0.00155		11/16/2001	GG
	Di-n-octyl phthalate	< 0.00141	0.00141		11/16/2001	GG
	Dibenz(a,h)anthracene	< 0.00162	0.00162		11/16/2001	GG
	Dibenzofuran	< 0.00163	0.00163		11/16/2001	GG
	Diethyl phthalate	< 0.0138	0.0138		11/16/2001	GG
	Dimethyl phthalate	< 0.0055	0.0055		11/16/2001	GG
	Fluoranthene	< 0.00138	0.00138		11/16/2001	GG
	Fluorene	< 0.00165	0.00165		11/16/2001	GG

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110380
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/12-13/01
Received: 11/14/01
Date Reported: 11/29/01

ANALYTICAL REPORT

Field ID		NTC1-TP3				
Lab Number		01110380-25				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Hexachlorobenzene	< 0.00152	0.00152		11/16/2001	GG
	Hexachlorobutadiene	< 0.0275	0.0275		11/16/2001	GG
	Hexachlorocyclopentadiene	< 0.0275	0.0275		11/16/2001	GG
	Hexachloroethane	< 0.00136	0.00136		11/16/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00179	0.00179		11/16/2001	GG
	Isophorone	< 0.00176	0.00176		11/16/2001	GG
	m,p-Cresol	< 0.0055	0.0055		11/16/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00148	0.00148		11/16/2001	GG
	N-Nitrosodiphenylamine	< 0.00119	0.00119		11/16/2001	GG
	Naphthalene	< 0.00189	0.00189		11/16/2001	GG
	Nitrobenzene	< 0.00187	0.00187		11/16/2001	GG
	o-Cresol	< 0.0055	0.0055		11/16/2001	GG
	Pentachlorophenol	< 0.0275	0.0275		11/16/2001	GG
	Phenanthrene	< 0.00145	0.00145		11/16/2001	GG
	Phenol	< 0.00385	0.00385		11/16/2001	GG
	Pyrene	< 0.00138	0.00138		11/16/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/21/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/21/2001	LBI
	Acenaphthylene	< 0.00022	0.00022		11/21/2001	LBI
	Anthracene	< 0.00003	0.00003		11/21/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/21/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/21/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/21/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/21/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/21/2001	LBI
	Chrysene	< 0.00004	0.00004		11/21/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/21/2001	LBI
	Fluoranthene	< 0.00021	0.00021		11/21/2001	LBI
	Fluorene	< 0.00005	0.00005		11/21/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/21/2001	LBI
	Naphthalene	< 0.00021	0.00021		11/21/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/21/2001	LBI
	Pyrene	< 0.0001	0.0001		11/21/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

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AEA LABORATORIES, INC.

Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WAST

8609 W. Bryn Mawr. Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: ToITest	Project Name: Relative Risk Ranking
Address:	Sampler Name: Lynn Smith
	Project #: 41792.01
Report to: Khushwant Mander	Time Period: (5 Day) 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #: 847-689-0697 Fax #: 847-689-0698	Date Needed:

Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1 NTC 144 TP3	W	11/12/01 6:50		3	VOCs, MTBE, B/N, PNAs, Metals (No B/N or PNA jar; SPLP Lead)	01110380 01, AB
2 NTC 66H TP1		11/12/01 12:40		3	BTEX, MTBE, Total Lead, SPLP Lead	02 AB
3 NTC 66H TP2		11/12/01 12:45		3		03 AB
4 NTC 66H TP3		11/12/01 13:00		1	orig rec'd BTEX 1 40mL (No metals jar)	04 A
5 NTC 106 TP1		11/12/01 9:00		3	BTEX, PNAs	05 AB
6 NTC 103 TP1		11/12/01 9:23		3	BTEX, MTBE, PNAs, Total Lead (No metals for SPLP Lead)	06 AB
7 NTC 3216B TP1		11/13/01 7:50		3	BTEX, PNAs	07 AB
8 NTC 3216B TP2		11/13/01 7:40		3		08 AB
9 NTC 3216B TP3		11/13/01 7:55		3		09 AB
10 NTC 3216B SB1 (2'-4')	S	11/12/01 16:00		2	1 High Level only; pmoist	10 AB
11 NTC 3216B SB2 (6'-8')		11/12/01 16:40		2		11 AB
12 NTC 3216B SB3 (4'-6')		11/12/01 16:10		2		12 AB
13 NTC 3511 SB1 (8'-10')		11/13/01 14:07		2	BTEX, PNAs	13 AB
14 NTC 3511 SB2 (8'-10')		11/13/01 15:03		2	1 - Low Level only	14 AB
15 NTC 3511 SB3 (10'-12')		11/13/01 15:03		2		15 AB

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated
Preservative Type:	Temp. of Container °C:

GLOSSARY:
MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept. R=Reject
CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W)
PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:		Date/Time: 11/14/01 12:15	Accepted by:
Relinquished by:		Date/Time: 11/14/01 5:00	Accepted by:

Comments:

WHITE - OFFICE COPY YELLOW - LAB COPY PINK - CUSTOMER COPY

Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

AEA LABORATORIES, INC.

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WASTE

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: TolTest	Project Name: Relative Risk Sampling
Address:	Sampler Name: Lynn Smith
	Project #: 41792.01
Report to: Khushwant Mander	Time Period: (5 Day) 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #: 847-669-0697 Fax #: 847-669-0696	Date Needed:

	Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1	NTC 90 SB3 (6-8')	S	11/13/01 10:13		2	BTEX, PNAs	01110380 16 AB
2	NTC 90 TP1	W	11/13/01 10:20		3		17 AB
3	NTC 90 TP2		11/13/01 10:30		3		18 AB
4	NTC 90 TP3		11/13/01 10:15		2 (40 mL only)	No PNA Jar	19 A
5	NTC 13 TP1		11/12/01 11:15		3	BTEX, MTBE, Total Lead, SPLP Lead	20 AB
	NTC 13 TP2		11/12/01 11:25		3		21 AB
7	NTC 13 TP3		11/12/01 11:30		3		22 AB
8	NTC 1 TP1		11/12/01 10:10		5	VOCs, B/N, PNAs, Metals	23 ABCD
9	NTC 1 TP2		11/12/01 10:23		3	No B/N jar; No metals jar	24 ABC
10	NTC 1 TP3		11/12/01 10:00		5		25 ABCDE
11							
12							
13							
14							
15							

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated
Preservative Type:	Temp. of Container °C:

GLOSSARY:
MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept, R=Reject
CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W)
PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by: L. Mander	Date/Time: 11/14/01 13:15	Accepted by:	
Relinquished by:	Date/Time: 11/14/01 500	Accepted by: Annunciata P. Ruby	
Comments:			

Page 2 of 2

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LABORATORY DATA REPORT

CLIENT **Toltest, Inc.**
1000 Northpointe Bldv.
Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/07/01
REPORTED	: 11/27/01
FILE ID#	: **01110200 01-09**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Veronica P. Pinder

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB1				
Lab Number		01110200-1				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	17	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	10.6	0.177	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	12.9	0.386	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	< 0.675	0.675	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	6.31	1.54	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	7.41	4.05	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0502	0.0502	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.263	0.263	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 1.54	1.54	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00157	0.00157		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00108	0.00108		11/10/2001	XN
	1,1-Dichloroethane	< 0.00096	0.00096		11/10/2001	XN
	1,1-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	1,1-Dichloropropene	< 0.00108	0.00108		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00602	0.00602		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00133	0.00133		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00602	0.00602		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00145	0.00145		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00602	0.00602		11/10/2001	XN
	1,2-Dibromoethane	< 0.00084	0.00084		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00193	0.00193		11/10/2001	XN
	1,2-Dichloroethane	< 0.00145	0.00145		11/10/2001	XN
	1,2-Dichloropropane	< 0.00096	0.00096		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00169	0.00169		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00181	0.00181		11/10/2001	XN
	1,3-Dichloropropane	< 0.0012	0.0012		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00181	0.00181		11/10/2001	XN
	2,2-Dichloropropane	< 0.00145	0.00145		11/10/2001	XN
	2-Butanone	< 0.012	0.012		11/10/2001	XN
	2-Chlorotoluene	< 0.0012	0.0012		11/10/2001	XN
	2-Hexanone	< 0.00096	0.00096		11/10/2001	XN
	4-Chlorotoluene	< 0.0012	0.0012		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.012	0.012		11/10/2001	XN
	Acetone	< 0.0361	0.0361		11/10/2001	XN
	Benzene	0.00117	0.00084		11/10/2001	XN
	Bromobenzene	< 0.00145	0.00145		11/10/2001	XN

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB1				
Lab Number		01110200-1				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00229	0.00229		11/10/2001	XN
	Bromodichloromethane	< 0.00084	0.00084		11/10/2001	XN
	Bromoform	< 0.00602	0.00602		11/10/2001	XN
	Bromomethane	< 0.00169	0.00169		11/10/2001	XN
	Carbon disulfide	< 0.00145	0.00145		11/10/2001	XN
	Carbon tetrachloride	< 0.00205	0.00205		11/10/2001	XN
	Chlorobenzene	< 0.00145	0.00145		11/10/2001	XN
	Chloroethane	< 0.00217	0.00217		11/10/2001	XN
	Chloroform	< 0.00157	0.00157		11/10/2001	XN
	Chloromethane	< 0.00458	0.00458		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00084	0.00084		11/10/2001	XN
	Dibromochloromethane	< 0.00145	0.00145		11/10/2001	XN
	Dibromomethane	< 0.00169	0.00169		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00602	0.00602		11/10/2001	XN
	Ethylbenzene	< 0.00169	0.00169		11/10/2001	XN
	Hexachlorobutadiene	< 0.012	0.012		11/10/2001	XN
	Isopropyl Toluene	< 0.0006	0.0006		11/10/2001	XN
	Isopropylbenzene	< 0.00157	0.00157		11/10/2001	XN
	m,p-Xylene	< 0.00289	0.00289		11/10/2001	XN
	Methylene chloride	0.00449	0.00325		11/10/2001	XN
	n-Butylbenzene	< 0.00337	0.00337		11/10/2001	XN
	n-Propylbenzene	< 0.00193	0.00193		11/10/2001	XN
	Naphthalene	< 0.00241	0.00241		11/10/2001	XN
	o-Xylene	< 0.00602	0.00602		11/10/2001	XN
	sec-Butylbenzene	< 0.00253	0.00253		11/10/2001	XN
	Styrene	< 0.00133	0.00133		11/10/2001	XN
	tert-Butylbenzene	< 0.00133	0.00133		11/10/2001	XN
	Tetrachloroethene	< 0.00193	0.00193		11/10/2001	XN
	Toluene	< 0.00192	0.00192		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.00072	0.00072		11/10/2001	XN
	Trichloroethene	< 0.0012	0.0012		11/10/2001	XN
	Trichlorofluoromethane	< 0.00133	0.00133		11/10/2001	XN
	Vinyl chloride	< 0.00157	0.00157		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/13/2001	GG
	1,2,4-Trichlorobenzene	< 0.0658	0.0658		11/13/2001	GG
	1,2-Dichlorobenzene	< 0.0520	0.0520		11/13/2001	GG
	1,3-Dichlorobenzene	< 0.0595	0.0595		11/13/2001	GG
	1,4-Dichlorobenzene	< 0.0617	0.0617		11/13/2001	GG

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB1				
Lab Number		01110200-1				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0546	0.0546		11/13/2001	GG
	2,4,6-Trichlorophenol	< 0.0389	0.0389		11/13/2001	GG
	2,4-Dichlorophenol	< 0.0594	0.0594		11/13/2001	GG
	2,4-Dimethylphenol	< 0.0292	0.0292		11/13/2001	GG
	2,4-Dinitrophenol	< 0.0955	0.0955		11/13/2001	GG
	2,4-Dinitrotoluene	< 0.0333	0.0333		11/13/2001	GG
	2,6-Dinitrotoluene	< 0.0261	0.0261		11/13/2001	GG
	2-Chloronaphthalene	< 0.0417	0.0417		11/13/2001	GG
	2-Chlorophenol	< 0.0487	0.0487		11/13/2001	GG
	2-Methylnaphthalene	< 0.0499	0.0499		11/13/2001	GG
	2-Nitroaniline	< 0.0494	0.0494		11/13/2001	GG
	2-Nitrophenol	< 0.0984	0.0984		11/13/2001	GG
	3,3'-Dichlorobenzidine	< 0.142	0.142		11/13/2001	GG
	3-Nitroaniline	< 0.0811	0.0811		11/13/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0955	0.0955		11/13/2001	GG
	4-Bromophenyl phenyl ether	< 0.0445	0.0445		11/13/2001	GG
	4-Chloro-3-methylphenol	< 0.0407	0.0407		11/13/2001	GG
	4-Chloroaniline	< 0.0288	0.0288		11/13/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0569	0.0569		11/13/2001	GG
	4-Nitroaniline	< 0.108	0.108		11/13/2001	GG
	4-Nitrophenol	< 0.0437	0.0437		11/13/2001	GG
	Acenaphthene	< 0.0492	0.0492		11/13/2001	GG
	Acenaphthylene	< 0.0363	0.0363		11/13/2001	GG
	Anthracene	< 0.0257	0.0257		11/13/2001	GG
	Benz(a)anthracene	< 0.0393	0.0393		11/13/2001	GG
	Benzo(a)pyrene	< 0.0489	0.0489		11/13/2001	GG
	Benzo(b+k)fluoranthene	< 0.0312	0.0312		11/13/2001	GG
	Benzo(g,h,i)perylene	< 0.0317	0.0317		11/13/2001	GG
	Benzyl alcohol	< 0.0723	0.0723		11/13/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0584	0.0584		11/13/2001	GG
	Bis(2-chloroethyl)ether	< 0.0629	0.0629		11/13/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0752	0.0752		11/13/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0427	0.0427		11/13/2001	GG
	Butyl benzyl phthalate	< 0.0398	0.0398		11/13/2001	GG
	Chrysene	< 0.0396	0.0396		11/13/2001	GG
	Di-n-butyl phthalate	< 0.0540	0.0540		11/13/2001	GG
	Di-n-octyl phthalate	< 0.0304	0.0304		11/13/2001	GG
	Dibenz(a,h)anthracene	< 0.0419	0.0419		11/13/2001	GG
	Dibenzofuran	< 0.0424	0.0424		11/13/2001	GG
	Diethyl phthalate	< 0.0372	0.0372		11/13/2001	GG
	Dimethyl phthalate	< 0.0420	0.0420		11/13/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		**NTC239-SB1**				
Lab Number		**01110200-1**				
Description		**10-12'**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluoranthene	< 0.0251	0.0251		11/13/2001	GG
	Fluorene	< 0.0355	0.0355		11/13/2001	GG
	Hexachlorobenzene	< 0.0286	0.0286		11/13/2001	GG
	Hexachlorobutadiene	< 0.0731	0.0731		11/13/2001	GG
	Hexachlorocyclopentadiene	< 0.0757	0.0757		11/13/2001	GG
	Hexachloroethane	< 0.0664	0.0664		11/13/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0386	0.0386		11/13/2001	GG
	Isophorone	< 0.0508	0.0508		11/13/2001	GG
	m,p-Cresol	< 0.0565	0.0565		11/13/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0817	0.0817		11/13/2001	GG
	N-Nitrosodiphenylamine	< 0.0983	0.0983		11/13/2001	GG
	Naphthalene	< 0.0530	0.0530		11/13/2001	GG
	Nitrobenzene	< 0.0511	0.0511		11/13/2001	GG
	o-Cresol	< 0.0772	0.0772		11/13/2001	GG
	Pentachlorophenol	< 0.0793	0.0793		11/13/2001	GG
	Phenanthrene	< 0.0343	0.0343		11/13/2001	GG
	Phenol	< 0.0484	0.0484		11/13/2001	GG
	Pyrene	< 0.0202	0.0202		11/13/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.00407	0.00407		11/13/2001	LBI
	Acenaphthylene	< 0.00514	0.00514		11/13/2001	LBI
	Anthracene	< 0.00447	0.00447		11/13/2001	LBI
	Benz(a)anthracene	< 0.00225	0.00225		11/13/2001	LBI
	Benzo(a)pyrene	< 0.00465	0.00465		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00142	0.00142		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.00242	0.00242		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00132	0.00132		11/13/2001	LBI
	Chrysene	< 0.00226	0.00226		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00123	0.00123		11/13/2001	LBI
	Fluoranthene	< 0.0016	0.0016		11/13/2001	LBI
	Fluorene	< 0.00297	0.00297		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00204	0.00204		11/13/2001	LBI
	Naphthalene	< 0.00539	0.00539		11/13/2001	LBI
	Phenanthrene	< 0.00413	0.00413		11/13/2001	LBI
	Pyrene	< 0.00362	0.00362		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
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ANALYTICAL REPORT

Field ID		NTC239-SB2				
Lab Number		01110200-02				
Description		2-4'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.6	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	5.11	0.174	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	35.8	0.382	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	5.08	1	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	76.1	1.53	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	99.8	4.02	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0487	0.0487	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	0.29	0.259	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 2.87	2.87	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00152	0.00152		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00105	0.00105		11/10/2001	XN
	1,1-Dichloroethane	< 0.00094	0.00094		11/10/2001	XN
	1,1-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	1,1-Dichloropropene	< 0.00105	0.00105		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00585	0.00585		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00129	0.00129		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00585	0.00585		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00585	0.00585		11/10/2001	XN
	1,2-Dibromoethane	< 0.00082	0.00082		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00187	0.00187		11/10/2001	XN
	1,2-Dichloroethane	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dichloropropane	< 0.00094	0.00094		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	1,3-Dichloropropane	< 0.00117	0.00117		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	2,2-Dichloropropane	< 0.00141	0.00141		11/10/2001	XN
	2-Butanone	< 0.0117	0.0117		11/10/2001	XN
	2-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	2-Hexanone	< 0.00094	0.00094		11/10/2001	XN
	4-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0117	0.0117		11/10/2001	XN
	Acetone	< 0.0351	0.0351		11/10/2001	XN
	Benzene	0.00097	0.00082		11/10/2001	XN
	Bromobenzene	< 0.00141	0.00141		11/10/2001	XN

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
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Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB2				
Lab Number		01110200-02				
Description		2-4'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00222	0.00222		11/10/2001	XN
	Bromodichloromethane	< 0.00082	0.00082		11/10/2001	XN
	Bromoform	< 0.00585	0.00585		11/10/2001	XN
	Bromomethane	< 0.00164	0.00164		11/10/2001	XN
	Carbon disulfide	< 0.00141	0.00141		11/10/2001	XN
	Carbon tetrachloride	< 0.00199	0.00199		11/10/2001	XN
	Chlorobenzene	< 0.00141	0.00141		11/10/2001	XN
	Chloroethane	< 0.00211	0.00211		11/10/2001	XN
	Chloroform	< 0.00152	0.00152		11/10/2001	XN
	Chloromethane	< 0.00445	0.00445		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00082	0.00082		11/10/2001	XN
	Dibromochloromethane	< 0.00141	0.00141		11/10/2001	XN
	Dibromomethane	< 0.00164	0.00164		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00585	0.00585		11/10/2001	XN
	Ethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	Hexachlorobutadiene	< 0.0117	0.0117		11/10/2001	XN
	Isopropyl Toluene	< 0.00058	0.00058		11/10/2001	XN
	Isopropylbenzene	< 0.00152	0.00152		11/10/2001	XN
	m,p-Xylene	< 0.00281	0.00281		11/10/2001	XN
	Methylene chloride	< 0.00316	0.00316		11/10/2001	XN
	n-Butylbenzene	< 0.00328	0.00328		11/10/2001	XN
	n-Propylbenzene	< 0.00187	0.00187		11/10/2001	XN
	Naphthalene	< 0.00234	0.00234		11/10/2001	XN
	o-Xylene	< 0.00585	0.00585		11/10/2001	XN
	sec-Butylbenzene	< 0.00246	0.00246		11/10/2001	XN
	Styrene	< 0.00129	0.00129		11/10/2001	XN
	tert-Butylbenzene	< 0.00129	0.00129		11/10/2001	XN
	Tetrachloroethene	< 0.00187	0.00187		11/10/2001	XN
	Toluene	< 0.00186	0.00186		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.0007	0.0007		11/10/2001	XN
	Trichloroethene	< 0.00117	0.00117		11/10/2001	XN
	Trichlorofluoromethane	< 0.00129	0.00129		11/10/2001	XN
	Vinyl chloride	< 0.00152	0.00152		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/13/2001	GG
	1,2,4-Trichlorobenzene	< 0.0639	0.0639		11/13/2001	GG
	1,2-Dichlorobenzene	< 0.0507	0.0507		11/13/2001	GG
	1,3-Dichlorobenzene	< 0.0580	0.0580		11/13/2001	GG
	1,4-Dichlorobenzene	< 0.0600	0.0600		11/13/2001	GG

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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC239-SB2				
Lab Number		01110200-02				
Description		2-4'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0532	0.0532		11/13/2001	GG
	2,4,6-Trichlorophenol	< 0.0378	0.0378		11/13/2001	GG
	2,4-Dichlorophenol	< 0.0577	0.0577		11/13/2001	GG
	2,4-Dimethylphenol	< 0.0283	0.0283		11/13/2001	GG
	2,4-Dinitrophenol	< 0.0930	0.0930		11/13/2001	GG
	2,4-Dinitrotoluene	< 0.0323	0.0323		11/13/2001	GG
	2,6-Dinitrotoluene	< 0.0254	0.0254		11/13/2001	GG
	2-Chloronaphthalene	< 0.0406	0.0406		11/13/2001	GG
	2-Chlorophenol	< 0.0474	0.0474		11/13/2001	GG
	2-Methylnaphthalene	< 0.0485	0.0485		11/13/2001	GG
	2-Nitroaniline	< 0.0480	0.0480		11/13/2001	GG
	2-Nitrophenol	< 0.0958	0.0958		11/13/2001	GG
	3,3´-Dichlorobenzidine	< 0.138	0.138		11/13/2001	GG
	3-Nitroaniline	< 0.0788	0.0788		11/13/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0930	0.0930		11/13/2001	GG
	4-Bromophenyl phenyl ether	< 0.0432	0.0432		11/13/2001	GG
	4-Chloro-3-methylphenol	< 0.0397	0.0397		11/13/2001	GG
	4-Chloroaniline	< 0.0280	0.0280		11/13/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0553	0.0553		11/13/2001	GG
	4-Nitroaniline	< 0.106	0.106		11/13/2001	GG
	4-Nitrophenol	< 0.0426	0.0426		11/13/2001	GG
	Acenaphthene	< 0.0479	0.0479		11/13/2001	GG
	Acenaphthylene	< 0.0354	0.0354		11/13/2001	GG
	Anthracene	< 0.0249	0.0249		11/13/2001	GG
	Benz(a)anthracene	0.177	0.0383		11/13/2001	GG
	Benzo(a)pyrene	0.234	0.0475		11/13/2001	GG
	Benzo(b+k)fluoranthene	0.165	0.0303		11/13/2001	GG
	Benzo(g,h,i)perylene	0.199	0.0308		11/13/2001	GG
	Benzyl alcohol	< 0.0704	0.0704		11/13/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0569	0.0569		11/13/2001	GG
	Bis(2-chloroethyl)ether	< 0.0612	0.0612		11/13/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0731	0.0731		11/13/2001	GG
	Bis(2-ethylhexyl)phthalate	0.0536	0.0416		11/13/2001	GG
	Butyl benzyl phthalate	< 0.0388	0.0388		11/13/2001	GG
	Chrysene	0.244	0.0385		11/13/2001	GG
	Di-n-butyl phthalate	< 0.0525	0.0525		11/13/2001	GG
	Di-n-octyl phthalate	< 0.0296	0.0296		11/13/2001	GG
	Dibenz(a,h)anthracene	0.0557	0.0407		11/13/2001	GG
	Dibenzofuran	< 0.0412	0.0412		11/13/2001	GG
	Diethyl phthalate	< 0.0363	0.0363		11/13/2001	GG
	Dimethyl phthalate	< 0.0409	0.0409		11/13/2001	GG

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ANALYTICAL REPORT

Field ID		**NTC239-SB2**				
Lab Number		**01110200-02**				
Description		**2-4'**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluoranthene	0.121	0.0244		11/13/2001	GG
	Fluorene	< 0.0345	0.0345		11/13/2001	GG
	Hexachlorobenzene	< 0.0278	0.0278		11/13/2001	GG
	Hexachlorobutadiene	< 0.0711	0.0711		11/13/2001	GG
	Hexachlorocyclopentadiene	< 0.0735	0.0735		11/13/2001	GG
	Hexachloroethane	< 0.0646	0.0646		11/13/2001	GG
	Indeno(1,2,3-cd)pyrene	0.0749	0.0375		11/13/2001	GG
	Isophorone	< 0.0494	0.0494		11/13/2001	GG
	m,p-Cresol	< 0.0550	0.0550		11/13/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0795	0.0795		11/13/2001	GG
	N-Nitrosodiphenylamine	< 0.0956	0.0956		11/13/2001	GG
	Naphthalene	< 0.0516	0.0516		11/13/2001	GG
	Nitrobenzene	< 0.0498	0.0498		11/13/2001	GG
	o-Cresol	< 0.0752	0.0752		11/13/2001	GG
	Pentachlorophenol	< 0.0772	0.0772		11/13/2001	GG
	Phenanthrene	0.0923	0.0335		11/13/2001	GG
	Phenol	< 0.0471	0.0471		11/13/2001	GG
	Pyrene	0.231	0.0197		11/13/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0197	0.0197		11/13/2001	LBI
	Acenaphthylene	< 0.025	0.025		11/13/2001	LBI
	Anthracene	0.0363	0.0217		11/13/2001	LBI
	Benz(a)anthracene	0.126	0.0109		11/13/2001	LBI
	Benzo(a)pyrene	0.192	0.0226		11/13/2001	LBI
	Benzo(b)fluoranthene	0.144	0.00691		11/13/2001	LBI
	Benzo(g,h,i)perylene	0.302	0.0117		11/13/2001	LBI
	Benzo(k)fluoranthene	0.0943	0.00638		11/13/2001	LBI
	Chrysene	0.109	0.011		11/13/2001	LBI
	Dibenz(a,h)anthracene	0.0305	0.00598		11/13/2001	LBI
	Fluoranthene	0.235	0.00778		11/13/2001	LBI
	Fluorene	0.016	0.0144		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.11	0.00992		11/13/2001	LBI
	Naphthalene	< 0.0262	0.0262		11/13/2001	LBI
	Phenanthrene	0.16	0.02		11/13/2001	LBI
	Pyrene	0.209	0.0176		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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ANALYTICAL REPORT

Field ID		NTC239-SB3				
Lab Number		01110200-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.7	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	6.59	0.169	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	10.5	0.39	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	0.815	0.683	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	5.07	1.56	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	5.75	4.1	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0359	0.0359	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.251	0.251	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 1.56	1.56	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00152	0.00152		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00106	0.00106		11/10/2001	XN
	1,1-Dichloroethane	< 0.00094	0.00094		11/10/2001	XN
	1,1-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	1,1-Dichloropropene	< 0.00106	0.00106		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00586	0.00586		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00129	0.00129		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00586	0.00586		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00586	0.00586		11/10/2001	XN
	1,2-Dibromoethane	< 0.00082	0.00082		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00188	0.00188		11/10/2001	XN
	1,2-Dichloroethane	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dichloropropane	< 0.00094	0.00094		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	1,3-Dichloropropane	< 0.00117	0.00117		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	2,2-Dichloropropane	< 0.00141	0.00141		11/10/2001	XN
	2-Butanone	< 0.0117	0.0117		11/10/2001	XN
	2-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	2-Hexanone	< 0.00094	0.00094		11/10/2001	XN
	4-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0117	0.0117		11/10/2001	XN
	Acetone	< 0.0352	0.0352		11/10/2001	XN
	Benzene	0.00085	0.00082		11/10/2001	XN
	Bromobenzene	< 0.00141	0.00141		11/10/2001	XN

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB3				
Lab Number		01110200-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00223	0.00223		11/10/2001	XN
	Bromodichloromethane	< 0.00082	0.00082		11/10/2001	XN
	Bromoform	< 0.00586	0.00586		11/10/2001	XN
	Bromomethane	< 0.00164	0.00164		11/10/2001	XN
	Carbon disulfide	< 0.00141	0.00141		11/10/2001	XN
	Carbon tetrachloride	< 0.00199	0.00199		11/10/2001	XN
	Chlorobenzene	< 0.00141	0.00141		11/10/2001	XN
	Chloroethane	< 0.00211	0.00211		11/10/2001	XN
	Chloroform	< 0.00152	0.00152		11/10/2001	XN
	Chloromethane	< 0.00445	0.00445		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00082	0.00082		11/10/2001	XN
	Dibromochloromethane	< 0.00141	0.00141		11/10/2001	XN
	Dibromomethane	< 0.00164	0.00164		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00586	0.00586		11/10/2001	XN
	Ethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	Hexachlorobutadiene	< 0.0117	0.0117		11/10/2001	XN
	Isopropyl Toluene	< 0.00059	0.00059		11/10/2001	XN
	Isopropylbenzene	< 0.00152	0.00152		11/10/2001	XN
	m,p-Xylene	< 0.00281	0.00281		11/10/2001	XN
	Methylene chloride	< 0.00317	0.00317		11/10/2001	XN
	n-Butylbenzene	< 0.00328	0.00328		11/10/2001	XN
	n-Propylbenzene	< 0.00188	0.00188		11/10/2001	XN
	Naphthalene	< 0.00234	0.00234		11/10/2001	XN
	o-Xylene	< 0.00586	0.00586		11/10/2001	XN
	sec-Butylbenzene	< 0.00246	0.00246		11/10/2001	XN
	Styrene	< 0.00129	0.00129		11/10/2001	XN
	tert-Butylbenzene	< 0.00129	0.00129		11/10/2001	XN
	Tetrachloroethene	< 0.00188	0.00188		11/10/2001	XN
	Toluene	< 0.00186	0.00186		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.0007	0.0007		11/10/2001	XN
	Trichloroethene	< 0.00117	0.00117		11/10/2001	XN
	Trichlorofluoromethane	< 0.00129	0.00129		11/10/2001	XN
	Vinyl chloride	< 0.00152	0.00152		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/13/2001	GG
	1,2,4-Trichlorobenzene	< 0.0642	0.0642		11/13/2001	GG
	1,2-Dichlorobenzene	< 0.0509	0.0509		11/13/2001	GG
	1,3-Dichlorobenzene	< 0.0581	0.0581		11/13/2001	GG
	1,4-Dichlorobenzene	< 0.0601	0.0601		11/13/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
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Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-SB3				
Lab Number		01110200-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0533	0.0533		11/13/2001	GG
	2,4,6-Trichlorophenol	< 0.0380	0.0380		11/13/2001	GG
	2,4-Dichlorophenol	< 0.0580	0.0580		11/13/2001	GG
	2,4-Dimethylphenol	< 0.0285	0.0285		11/13/2001	GG
	2,4-Dinitrophenol	< 0.0933	0.0933		11/13/2001	GG
	2,4-Dinitrotoluene	< 0.0325	0.0325		11/13/2001	GG
	2,6-Dinitrotoluene	< 0.0254	0.0254		11/13/2001	GG
	2-Chloronaphthalene	< 0.0407	0.0407		11/13/2001	GG
	2-Chlorophenol	< 0.0476	0.0476		11/13/2001	GG
	2-Methylnaphthalene	< 0.0487	0.0487		11/13/2001	GG
	2-Nitroaniline	< 0.0482	0.0482		11/13/2001	GG
	2-Nitrophenol	< 0.0961	0.0961		11/13/2001	GG
	3,3'-Dichlorobenzidine	< 0.138	0.138		11/13/2001	GG
	3-Nitroaniline	< 0.0791	0.0791		11/13/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0933	0.0933		11/13/2001	GG
	4-Bromophenyl phenyl ether	< 0.0434	0.0434		11/13/2001	GG
	4-Chloro-3-methylphenol	< 0.0399	0.0399		11/13/2001	GG
	4-Chloroaniline	< 0.0281	0.0281		11/13/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0555	0.0555		11/13/2001	GG
	4-Nitroaniline	< 0.106	0.106		11/13/2001	GG
	4-Nitrophenol	< 0.0428	0.0428		11/13/2001	GG
	Acenaphthene	< 0.0481	0.0481		11/13/2001	GG
	Acenaphthylene	< 0.0354	0.0354		11/13/2001	GG
	Anthracene	< 0.0251	0.0251		11/13/2001	GG
	Benz(a)anthracene	< 0.0385	0.0385		11/13/2001	GG
	Benzo(a)pyrene	< 0.0477	0.0477		11/13/2001	GG
	Benzo(b+k)fluoranthene	0.0392	0.0305		11/13/2001	GG
	Benzo(g,h,i)perylene	< 0.0309	0.0309		11/13/2001	GG
	Benzyl alcohol	< 0.0706	0.0706		11/13/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0571	0.0571		11/13/2001	GG
	Bis(2-chloroethyl)ether	< 0.0614	0.0614		11/13/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0734	0.0734		11/13/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0416	0.0416		11/13/2001	GG
	Butyl benzyl phthalate	< 0.0389	0.0389		11/13/2001	GG
	Chrysene	< 0.0387	0.0387		11/13/2001	GG
	Di-n-butyl phthalate	< 0.0528	0.0528		11/13/2001	GG
	Di-n-octyl phthalate	< 0.0297	0.0297		11/13/2001	GG
	Dibenz(a,h)anthracene	< 0.0409	0.0409		11/13/2001	GG
	Dibenzofuran	< 0.0414	0.0414		11/13/2001	GG
	Diethyl phthalate	< 0.0363	0.0363		11/13/2001	GG
	Dimethyl phthalate	< 0.0410	0.0410		11/13/2001	GG

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ANALYTICAL REPORT

Field ID		NTC239-SB3				
Lab Number		01110200-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	0.0547	0.0244		11/13/2001	GG
	Fluorene	< 0.0347	0.0347		11/13/2001	GG
	Hexachlorobenzene	< 0.0278	0.0278		11/13/2001	GG
	Hexachlorobutadiene	< 0.0714	0.0714		11/13/2001	GG
	Hexachlorocyclopentadiene	< 0.0739	0.0739		11/13/2001	GG
	Hexachloroethane	< 0.0648	0.0648		11/13/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0376	0.0376		11/13/2001	GG
	Isophorone	< 0.0496	0.0496		11/13/2001	GG
	m,p-Cresol	< 0.0552	0.0552		11/13/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0797	0.0797		11/13/2001	GG
	N-Nitrosodiphenylamine	< 0.0959	0.0959		11/13/2001	GG
	Naphthalene	< 0.0518	0.0518		11/13/2001	GG
	Nitrobenzene	< 0.0499	0.0499		11/13/2001	GG
	o-Cresol	< 0.0754	0.0754		11/13/2001	GG
	Pentachlorophenol	< 0.0774	0.0774		11/13/2001	GG
	Phenanthrene	< 0.0335	0.0335		11/13/2001	GG
	Phenol	< 0.0472	0.0472		11/13/2001	GG
	Pyrene	0.0529	0.0197		11/13/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0195	0.0195		11/13/2001	LBI
	Acenaphthylene	< 0.0247	0.0247		11/13/2001	LBI
	Anthracene	< 0.0215	0.0215		11/13/2001	LBI
	Benz(a)anthracene	0.033	0.0108		11/13/2001	LBI
	Benzo(a)pyrene	0.0431	0.0223		11/13/2001	LBI
	Benzo(b)fluoranthene	0.0388	0.00684		11/13/2001	LBI
	Benzo(g,h,i)perylene	0.033	0.0116		11/13/2001	LBI
	Benzo(k)fluoranthene	0.0172	0.00632		11/13/2001	LBI
	Chrysene	0.0287	0.0109		11/13/2001	LBI
	Dibenz(a,h)anthracene	0.00862	0.00592		11/13/2001	LBI
	Fluoranthene	0.103	0.0077		11/13/2001	LBI
	Fluorene	< 0.0142	0.0142		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.0158	0.00982		11/13/2001	LBI
	Naphthalene	< 0.0259	0.0259		11/13/2001	LBI
	Phenanthrene	0.0646	0.0198		11/13/2001	LBI
	Pyrene	0.0919	0.0174		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Arminta P. Priddy, Director of Laboratory Customer Service

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Sampled: 11/05/01
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ANALYTICAL REPORT

Field ID		NTC229-SB1				
Lab Number		01110200-04				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	17.6	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	6.22	0.173	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	50.6	0.404	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	1.55	0.708	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	13.4	1.61	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	12.2	4.25	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0649	0.0649	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.258	0.258	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 3.03	3.03	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00158	0.00158		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00109	0.00109		11/10/2001	XN
	1,1-Dichloroethane	< 0.00097	0.00097		11/10/2001	XN
	1,1-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	1,1-Dichloropropene	< 0.00109	0.00109		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00607	0.00607		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00133	0.00133		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00607	0.00607		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00146	0.00146		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00607	0.00607		11/10/2001	XN
	1,2-Dibromoethane	< 0.00085	0.00085		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00194	0.00194		11/10/2001	XN
	1,2-Dichloroethane	< 0.00146	0.00146		11/10/2001	XN
	1,2-Dichloropropane	< 0.00097	0.00097		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.0017	0.0017		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00182	0.00182		11/10/2001	XN
	1,3-Dichloropropane	< 0.00121	0.00121		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00182	0.00182		11/10/2001	XN
	2,2-Dichloropropane	< 0.00146	0.00146		11/10/2001	XN
	2-Butanone	< 0.0121	0.0121		11/10/2001	XN
	2-Chlorotoluene	< 0.00121	0.00121		11/10/2001	XN
	2-Hexanone	< 0.00097	0.00097		11/10/2001	XN
	4-Chlorotoluene	< 0.00121	0.00121		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0121	0.0121		11/10/2001	XN
	Acetone	< 0.0364	0.0364		11/10/2001	XN
	Benzene	0.00131	0.00085		11/10/2001	XN
	Bromobenzene	< 0.00146	0.00146		11/10/2001	XN

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Project No.: 41792.01

Sampled: 11/05/01
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ANALYTICAL REPORT

Field ID		NTC229-SB1				
Lab Number		01110200-04				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00231	0.00231		11/10/2001	XN
	Bromodichloromethane	< 0.00085	0.00085		11/10/2001	XN
	Bromoform	< 0.00607	0.00607		11/10/2001	XN
	Bromomethane	< 0.0017	0.0017		11/10/2001	XN
	Carbon disulfide	< 0.00146	0.00146		11/10/2001	XN
	Carbon tetrachloride	< 0.00206	0.00206		11/10/2001	XN
	Chlorobenzene	< 0.00146	0.00146		11/10/2001	XN
	Chloroethane	< 0.00218	0.00218		11/10/2001	XN
	Chloroform	< 0.00158	0.00158		11/10/2001	XN
	Chloromethane	< 0.00461	0.00461		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00085	0.00085		11/10/2001	XN
	Dibromochloromethane	< 0.00146	0.00146		11/10/2001	XN
	Dibromomethane	< 0.0017	0.0017		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00607	0.00607		11/10/2001	XN
	Ethylbenzene	< 0.0017	0.0017		11/10/2001	XN
	Hexachlorobutadiene	< 0.0121	0.0121		11/10/2001	XN
	Isopropyl Toluene	< 0.00061	0.00061		11/10/2001	XN
	Isopropylbenzene	< 0.00158	0.00158		11/10/2001	XN
	m,p-Xylene	< 0.00291	0.00291		11/10/2001	XN
	Methylene chloride	< 0.00328	0.00328		11/10/2001	XN
	n-Butylbenzene	< 0.0034	0.0034		11/10/2001	XN
	n-Propylbenzene	< 0.00194	0.00194		11/10/2001	XN
	Naphthalene	< 0.00243	0.00243		11/10/2001	XN
	o-Xylene	< 0.00607	0.00607		11/10/2001	XN
	sec-Butylbenzene	< 0.00255	0.00255		11/10/2001	XN
	Styrene	< 0.00133	0.00133		11/10/2001	XN
	tert-Butylbenzene	< 0.00133	0.00133		11/10/2001	XN
	Tetrachloroethene	0.00198	0.00194		11/10/2001	XN
	Toluene	0.00269	0.00193		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.00073	0.00073		11/10/2001	XN
	Trichloroethene	< 0.00121	0.00121		11/10/2001	XN
	Trichlorofluoromethane	< 0.00133	0.00133		11/10/2001	XN
	Vinyl chloride	< 0.00158	0.00158		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/13/2001	GG
	1,2,4-Trichlorobenzene	< 0.0661	0.0661		11/13/2001	GG
	1,2-Dichlorobenzene	< 0.0523	0.0523		11/13/2001	GG
	1,3-Dichlorobenzene	< 0.0598	0.0598		11/13/2001	GG
	1,4-Dichlorobenzene	< 0.0620	0.0620		11/13/2001	GG

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ANALYTICAL REPORT

Field ID		NTC229-SB1				
Lab Number		01110200-04				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0550	0.0550		11/13/2001	GG
	2,4,6-Trichlorophenol	< 0.0391	0.0391		11/13/2001	GG
	2,4-Dichlorophenol	< 0.0597	0.0597		11/13/2001	GG
	2,4-Dimethylphenol	< 0.0292	0.0292		11/13/2001	GG
	2,4-Dinitrophenol	< 0.0961	0.0961		11/13/2001	GG
	2,4-Dinitrotoluene	< 0.0335	0.0335		11/13/2001	GG
	2,6-Dinitrotoluene	< 0.0262	0.0262		11/13/2001	GG
	2-Chloronaphthalene	< 0.0420	0.0420		11/13/2001	GG
	2-Chlorophenol	< 0.0490	0.0490		11/13/2001	GG
	2-Methylnaphthalene	< 0.0501	0.0501		11/13/2001	GG
	2-Nitroaniline	< 0.0496	0.0496		11/13/2001	GG
	2-Nitrophenol	< 0.0989	0.0989		11/13/2001	GG
	3,3'-Dichlorobenzidine	< 0.142	0.142		11/13/2001	GG
	3-Nitroaniline	< 0.0816	0.0816		11/13/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0961	0.0961		11/13/2001	GG
	4-Bromophenyl phenyl ether	< 0.0447	0.0447		11/13/2001	GG
	4-Chloro-3-methylphenol	< 0.0410	0.0410		11/13/2001	GG
	4-Chloroaniline	< 0.0290	0.0290		11/13/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0572	0.0572		11/13/2001	GG
	4-Nitroaniline	< 0.109	0.109		11/13/2001	GG
	4-Nitrophenol	< 0.0441	0.0441		11/13/2001	GG
	Acenaphthene	< 0.0495	0.0495		11/13/2001	GG
	Acenaphthylene	< 0.0365	0.0365		11/13/2001	GG
	Anthracene	< 0.0257	0.0257		11/13/2001	GG
	Benz(a)anthracene	< 0.0396	0.0396		11/13/2001	GG
	Benzo(a)pyrene	< 0.0492	0.0492		11/13/2001	GG
	Benzo(b+k)fluoranthene	< 0.0314	0.0314		11/13/2001	GG
	Benzo(g,h,i)perylene	< 0.0319	0.0319		11/13/2001	GG
	Benzyl alcohol	< 0.0727	0.0727		11/13/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0587	0.0587		11/13/2001	GG
	Bis(2-chloroethyl)ether	< 0.0632	0.0632		11/13/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0756	0.0756		11/13/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0430	0.0430		11/13/2001	GG
	Butyl benzyl phthalate	< 0.0400	0.0400		11/13/2001	GG
	Chrysene	< 0.0399	0.0399		11/13/2001	GG
	Di-n-butyl phthalate	< 0.0542	0.0542		11/13/2001	GG
	Di-n-octyl phthalate	< 0.0306	0.0306		11/13/2001	GG
	Dibenz(a,h)anthracene	< 0.0421	0.0421		11/13/2001	GG
	Dibenzofuran	< 0.0426	0.0426		11/13/2001	GG
	Diethyl phthalate	< 0.0375	0.0375		11/13/2001	GG
	Dimethyl phthalate	< 0.0422	0.0422		11/13/2001	GG

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Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
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ANALYTICAL REPORT

Field ID		NTC229-SB1				
Lab Number		01110200-04				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	< 0.0251	0.0251		11/13/2001	GG
	Fluorene	< 0.0357	0.0357		11/13/2001	GG
	Hexachlorobenzene	< 0.0286	0.0286		11/13/2001	GG
	Hexachlorobutadiene	< 0.0735	0.0735		11/13/2001	GG
	Hexachlorocyclopentadiene	< 0.0761	0.0761		11/13/2001	GG
	Hexachloroethane	< 0.0667	0.0667		11/13/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0387	0.0387		11/13/2001	GG
	Isophorone	< 0.0511	0.0511		11/13/2001	GG
	m,p-Cresol	< 0.0568	0.0568		11/13/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0822	0.0822		11/13/2001	GG
	N-Nitrosodiphenylamine	< 0.0988	0.0988		11/13/2001	GG
	Naphthalene	< 0.0533	0.0533		11/13/2001	GG
	Nitrobenzene	< 0.0515	0.0515		11/13/2001	GG
	o-Cresol	< 0.0777	0.0777		11/13/2001	GG
	Pentachlorophenol	< 0.0797	0.0797		11/13/2001	GG
	Phenanthrene	< 0.0346	0.0346		11/13/2001	GG
	Phenol	< 0.0487	0.0487		11/13/2001	GG
	Pyrene	< 0.0204	0.0204		11/13/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0201	0.0201		11/13/2001	LBI
	Acenaphthylene	< 0.0255	0.0255		11/13/2001	LBI
	Anthracene	< 0.0221	0.0221		11/13/2001	LBI
	Benz(a)anthracene	< 0.0111	0.0111		11/13/2001	LBI
	Benzo(a)pyrene	< 0.023	0.023		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00704	0.00704		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.012	0.012		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00651	0.00651		11/13/2001	LBI
	Chrysene	< 0.0112	0.0112		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.0061	0.0061		11/13/2001	LBI
	Fluoranthene	< 0.00793	0.00793		11/13/2001	LBI
	Fluorene	< 0.0147	0.0147		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0101	0.0101		11/13/2001	LBI
	Naphthalene	< 0.0267	0.0267		11/13/2001	LBI
	Phenanthrene	< 0.0204	0.0204		11/13/2001	LBI
	Pyrene	< 0.0179	0.0179		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

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Sample Matrix: Soil
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Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC229-SB2				
Lab Number		01110200-05				
Description		14-16'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	21.9	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	6.39	0.376	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	114	0.426	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	2.35	0.746	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	14.3	1.7	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	196	4.48	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	0.158	0.0685	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.28	0.28	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 3.2	3.2	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00141	0.00141		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00141	0.00141		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00166	0.00166		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00115	0.00115		11/10/2001	XN
	1,1-Dichloroethane	< 0.00102	0.00102		11/10/2001	XN
	1,1-Dichloroethene	< 0.00141	0.00141		11/10/2001	XN
	1,1-Dichloropropene	< 0.00115	0.00115		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.0064	0.0064		11/10/2001	XN
	1,2,3-Trichloropropane	0.0116	0.00141		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.0064	0.0064		11/10/2001	XN
	1,2,4-Trimethylbenzene	0.00335	0.00154		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.0064	0.0064		11/10/2001	XN
	1,2-Dibromoethane	< 0.0009	0.0009		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00205	0.00205		11/10/2001	XN
	1,2-Dichloroethane	< 0.00154	0.00154		11/10/2001	XN
	1,2-Dichloropropane	< 0.00102	0.00102		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00179	0.00179		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00192	0.00192		11/10/2001	XN
	1,3-Dichloropropane	< 0.00128	0.00128		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00192	0.00192		11/10/2001	XN
	2,2-Dichloropropane	< 0.00154	0.00154		11/10/2001	XN
	2-Butanone	< 0.0128	0.0128		11/10/2001	XN
	2-Chlorotoluene	< 0.00128	0.00128		11/10/2001	XN
	2-Hexanone	< 0.00102	0.00102		11/10/2001	XN
	4-Chlorotoluene	< 0.00128	0.00128		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0128	0.0128		11/10/2001	XN
	Acetone	< 0.0384	0.0384		11/10/2001	XN
	Benzene	< 0.0009	0.0009		11/10/2001	XN
	Bromobenzene	< 0.00154	0.00154		11/10/2001	XN

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Waukegan, IL 60085
Fax: (847) 689-0698
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ANALYTICAL REPORT

Field ID		NTC229-SB2				
Lab Number		01110200-05				
Description		14-16'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00243	0.00243		11/10/2001	XN
	Bromodichloromethane	< 0.0009	0.0009		11/10/2001	XN
	Bromoform	< 0.0064	0.0064		11/10/2001	XN
	Bromomethane	< 0.00179	0.00179		11/10/2001	XN
	Carbon disulfide	< 0.00154	0.00154		11/10/2001	XN
	Carbon tetrachloride	< 0.00218	0.00218		11/10/2001	XN
	Chlorobenzene	< 0.00154	0.00154		11/10/2001	XN
	Chloroethane	< 0.0023	0.0023		11/10/2001	XN
	Chloroform	< 0.00166	0.00166		11/10/2001	XN
	Chloromethane	< 0.00487	0.00487		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00141	0.00141		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.0009	0.0009		11/10/2001	XN
	Dibromochloromethane	< 0.00154	0.00154		11/10/2001	XN
	Dibromomethane	< 0.00179	0.00179		11/10/2001	XN
	Dichlorodifluoromethane	< 0.0064	0.0064		11/10/2001	XN
	Ethylbenzene	< 0.00179	0.00179		11/10/2001	XN
	Hexachlorobutadiene	< 0.0128	0.0128		11/10/2001	XN
	Isopropyl Toluene	< 0.00064	0.00064		11/10/2001	XN
	Isopropylbenzene	< 0.00166	0.00166		11/10/2001	XN
	m,p-Xylene	< 0.00307	0.00307		11/10/2001	XN
	Methylene chloride	< 0.00346	0.00346		11/10/2001	XN
	n-Butylbenzene	< 0.00359	0.00359		11/10/2001	XN
	n-Propylbenzene	< 0.00205	0.00205		11/10/2001	XN
	Naphthalene	< 0.00256	0.00256		11/10/2001	XN
	o-Xylene	< 0.0064	0.0064		11/10/2001	XN
	sec-Butylbenzene	< 0.00269	0.00269		11/10/2001	XN
	Styrene	< 0.00141	0.00141		11/10/2001	XN
	tert-Butylbenzene	< 0.00141	0.00141		11/10/2001	XN
	Tetrachloroethene	< 0.00205	0.00205		11/10/2001	XN
	Toluene	< 0.00204	0.00204		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00141	0.00141		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.00077	0.00077		11/10/2001	XN
	Trichloroethene	< 0.00128	0.00128		11/10/2001	XN
	Trichlorofluoromethane	< 0.00141	0.00141		11/10/2001	XN
	Vinyl chloride	< 0.00166	0.00166		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	GG
	1,2,4-Trichlorobenzene	< 0.167	0.167		11/14/2001	GG
	1,2-Dichlorobenzene	< 0.132	0.132		11/14/2001	GG
	1,3-Dichlorobenzene	< 0.150	0.150		11/14/2001	GG
	1,4-Dichlorobenzene	< 0.156	0.156		11/14/2001	GG

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ANALYTICAL REPORT

Field ID		NTC229-SB2				
Lab Number		01110200-05				
Description		14-16'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.138	0.138		11/14/2001	GG
	2,4,6-Trichlorophenol	< 0.0981	0.0981		11/14/2001	GG
	2,4-Dichlorophenol	< 0.150	0.150		11/14/2001	GG
	2,4-Dimethylphenol	< 0.0736	0.0736		11/14/2001	GG
	2,4-Dinitrophenol	< 0.241	0.241		11/14/2001	GG
	2,4-Dinitrotoluene	< 0.0840	0.0840		11/14/2001	GG
	2,6-Dinitrotoluene	< 0.0659	0.0659		11/14/2001	GG
	2-Chloronaphthalene	< 0.105	0.105		11/14/2001	GG
	2-Chlorophenol	< 0.123	0.123		11/14/2001	GG
	2-Methylnaphthalene	7.40	0.126		11/14/2001	GG
	2-Nitroaniline	< 0.125	0.125		11/14/2001	GG
	2-Nitrophenol	< 0.248	0.248		11/14/2001	GG
	3,3'-Dichlorobenzidine	< 0.357	0.357		11/14/2001	GG
	3-Nitroaniline	< 0.205	0.205		11/14/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.241	0.241		11/14/2001	GG
	4-Bromophenyl phenyl ether	< 0.112	0.112		11/14/2001	GG
	4-Chloro-3-methylphenol	< 0.103	0.103		11/14/2001	GG
	4-Chloroaniline	< 0.0727	0.0727		11/14/2001	GG
	4-Chlorophenyl phenyl ether	< 0.143	0.143		11/14/2001	GG
	4-Nitroaniline	< 0.274	0.274		11/14/2001	GG
	4-Nitrophenol	< 0.111	0.111		11/14/2001	GG
	Acenaphthene	0.899	0.124		11/14/2001	GG
	Acenaphthylene	< 0.0917	0.0917		11/14/2001	GG
	Anthracene	1.40	0.0648		11/14/2001	GG
	Benz(a)anthracene	1.50	0.0994		11/14/2001	GG
	Benzo(a)pyrene	1.34	0.123		11/14/2001	GG
	Benzo(b+k)fluoranthene	2.44	0.0789		11/14/2001	GG
	Benzo(g,h,i)perylene	0.916	0.0800		11/14/2001	GG
	Benzyl alcohol	< 0.183	0.183		11/14/2001	GG
	Bis(2-chloroethoxy)methane	< 0.147	0.147		11/14/2001	GG
	Bis(2-chloroethyl)ether	< 0.159	0.159		11/14/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.190	0.190		11/14/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.108	0.108		11/14/2001	GG
	Butyl benzyl phthalate	< 0.101	0.101		11/14/2001	GG
	Chrysene	1.61	0.100		11/14/2001	GG
	Di-n-butyl phthalate	< 0.136	0.136		11/14/2001	GG
	Di-n-octyl phthalate	< 0.0768	0.0768		11/14/2001	GG
	Dibenz(a,h)anthracene	0.307	0.106		11/14/2001	GG
	Dibenzofuran	< 0.107	0.107		11/14/2001	GG
	Diethyl phthalate	< 0.0941	0.0941		11/14/2001	GG
	Dimethyl phthalate	< 0.106	0.106		11/14/2001	GG

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ANALYTICAL REPORT

Field ID		**NTC229-SB2**				
Lab Number		**01110200-05**				
Description		**14-16'**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluoranthene	3.42	0.0631		11/14/2001	GG
	Fluorene	1.08	0.0896		11/14/2001	GG
	Hexachlorobenzene	< 0.0720	0.0720		11/14/2001	GG
	Hexachlorobutadiene	< 0.184	0.184		11/14/2001	GG
	Hexachlorocyclopentadiene	< 0.191	0.191		11/14/2001	GG
	Hexachloroethane	< 0.168	0.168		11/14/2001	GG
	Indeno(1,2,3-cd)pyrene	0.817	0.0973		11/14/2001	GG
	Isophorone	< 0.128	0.128		11/14/2001	GG
	m,p-Cresol	< 0.142	0.142		11/14/2001	GG
	N-Nitrosodi-n-propylamine	< 0.206	0.206		11/14/2001	GG
	N-Nitrosodiphenylamine	< 0.248	0.248		11/14/2001	GG
	Naphthalene	1.79	0.134		11/14/2001	GG
	Nitrobenzene	< 0.129	0.129		11/14/2001	GG
	o-Cresol	< 0.195	0.195		11/14/2001	GG
	Pentachlorophenol	< 0.200	0.200		11/14/2001	GG
	Phenanthrene	4.17	0.0868		11/14/2001	GG
	Phenol	< 0.122	0.122		11/14/2001	GG
	Pyrene	2.91	0.0511		11/14/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	0.705	0.021		11/13/2001	LBI
	Acenaphthylene	< 0.0265	0.0265		11/13/2001	LBI
	Anthracene	0.695	0.0231		11/13/2001	LBI
	Benz(a)anthracene	1.29	0.0116		11/13/2001	LBI
	Benzo(a)pyrene	1.19	0.024		11/13/2001	LBI
	Benzo(b)fluoranthene	0.998	0.00734		11/13/2001	LBI
	Benzo(g,h,i)perylene	1.24	0.0125		11/13/2001	LBI
	Benzo(k)fluoranthene	0.563	0.00678		11/13/2001	LBI
	Chrysene	0.874	0.0117		11/13/2001	LBI
	Dibenz(a,h)anthracene	0.159	0.00635		11/13/2001	LBI
	Fluoranthene	4.29	0.00826		11/13/2001	LBI
	Fluorene	2.93	0.0153		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.688	0.0105		11/13/2001	LBI
	Naphthalene	2.57	0.0278		11/13/2001	LBI
	Phenanthrene	4.46	0.0213		11/13/2001	LBI
	Pyrene	3.28	0.0187		11/13/2001	LBI

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Toltest, Inc.
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ANALYTICAL REPORT

Field ID		NTC229-SB3				
Lab Number		01110200-06				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.3	0.1	% (Percent)	11/13/2001	RM2
SW7060A	Arsenic	27.1	0.346	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	1020	1.87	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	10.6	3.27	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	86.1	1.49	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	3410	39.3	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	1.7	0.0673	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.258	0.258	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	9.61	1.49	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00128	0.00128		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00128	0.00128		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00152	0.00152		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00105	0.00105		11/10/2001	XN
	1,1-Dichloroethane	< 0.00093	0.00093		11/10/2001	XN
	1,1-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	1,1-Dichloropropene	< 0.00105	0.00105		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00583	0.00583		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00128	0.00128		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00583	0.00583		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.0014	0.0014		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00583	0.00583		11/10/2001	XN
	1,2-Dibromoethane	< 0.00082	0.00082		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00187	0.00187		11/10/2001	XN
	1,2-Dichloroethane	< 0.0014	0.0014		11/10/2001	XN
	1,2-Dichloropropane	< 0.00093	0.00093		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00163	0.00163		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00175	0.00175		11/10/2001	XN
	1,3-Dichloropropane	< 0.00117	0.00117		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00175	0.00175		11/10/2001	XN
	2,2-Dichloropropane	< 0.0014	0.0014		11/10/2001	XN
	2-Butanone	< 0.0117	0.0117		11/10/2001	XN
	2-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	2-Hexanone	< 0.00093	0.00093		11/10/2001	XN
	4-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0117	0.0117		11/10/2001	XN
	Acetone	< 0.035	0.035		11/10/2001	XN
	Benzene	0.00163	0.00082		11/10/2001	XN
	Bromobenzene	< 0.0014	0.0014		11/10/2001	XN

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC229-SB3				
Lab Number		01110200-06				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00222	0.00222		11/10/2001	XN
	Bromodichloromethane	< 0.00082	0.00082		11/10/2001	XN
	Bromoform	< 0.00583	0.00583		11/10/2001	XN
	Bromomethane	< 0.00163	0.00163		11/10/2001	XN
	Carbon disulfide	< 0.0014	0.0014		11/10/2001	XN
	Carbon tetrachloride	< 0.00198	0.00198		11/10/2001	XN
	Chlorobenzene	< 0.0014	0.0014		11/10/2001	XN
	Chloroethane	< 0.0021	0.0021		11/10/2001	XN
	Chloroform	< 0.00152	0.00152		11/10/2001	XN
	Chloromethane	< 0.00443	0.00443		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00082	0.00082		11/10/2001	XN
	Dibromochloromethane	< 0.0014	0.0014		11/10/2001	XN
	Dibromomethane	< 0.00163	0.00163		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00583	0.00583		11/10/2001	XN
	Ethylbenzene	< 0.00163	0.00163		11/10/2001	XN
	Hexachlorobutadiene	< 0.0117	0.0117		11/10/2001	XN
	Isopropyl Toluene	< 0.00058	0.00058		11/10/2001	XN
	Isopropylbenzene	< 0.00152	0.00152		11/10/2001	XN
	m,p-Xylene	< 0.0028	0.0028		11/10/2001	XN
	Methylene chloride	0.00396	0.00315		11/10/2001	XN
	n-Butylbenzene	< 0.00327	0.00327		11/10/2001	XN
	n-Propylbenzene	< 0.00187	0.00187		11/10/2001	XN
	Naphthalene	< 0.00233	0.00233		11/10/2001	XN
	o-Xylene	< 0.00583	0.00583		11/10/2001	XN
	sec-Butylbenzene	< 0.00245	0.00245		11/10/2001	XN
	Styrene	< 0.00128	0.00128		11/10/2001	XN
	tert-Butylbenzene	< 0.00128	0.00128		11/10/2001	XN
	Tetrachloroethene	0.0042	0.00187		11/10/2001	XN
	Toluene	< 0.00186	0.00186		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.0007	0.0007		11/10/2001	XN
	Trichloroethene	< 0.00117	0.00117		11/10/2001	XN
	Trichlorofluoromethane	< 0.00128	0.00128		11/10/2001	XN
	Vinyl chloride	< 0.00152	0.00152		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/13/2001	GG
	1,2,4-Trichlorobenzene	< 0.0932	0.0932		11/13/2001	GG
	1,2-Dichlorobenzene	< 0.0739	0.0739		11/13/2001	GG
	1,3-Dichlorobenzene	< 0.0845	0.0845		11/13/2001	GG
	1,4-Dichlorobenzene	< 0.0874	0.0874		11/13/2001	GG

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Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
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ANALYTICAL REPORT

Field ID		NTC229-SB3				
Lab Number		01110200-06				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0775	0.0775		11/13/2001	GG
	2,4,6-Trichlorophenol	< 0.0551	0.0551		11/13/2001	GG
	2,4-Dichlorophenol	< 0.0842	0.0842		11/13/2001	GG
	2,4-Dimethylphenol	< 0.0413	0.0413		11/13/2001	GG
	2,4-Dinitrophenol	< 0.135	0.135		11/13/2001	GG
	2,4-Dinitrotoluene	< 0.0473	0.0473		11/13/2001	GG
	2,6-Dinitrotoluene	< 0.0370	0.0370		11/13/2001	GG
	2-Chloronaphthalene	< 0.0592	0.0592		11/13/2001	GG
	2-Chlorophenol	< 0.0691	0.0691		11/13/2001	GG
	2-Methylnaphthalene	< 0.0707	0.0707		11/13/2001	GG
	2-Nitroaniline	< 0.0700	0.0700		11/13/2001	GG
	2-Nitrophenol	< 0.140	0.140		11/13/2001	GG
	3,3'-Dichlorobenzidine	< 0.201	0.201		11/13/2001	GG
	3-Nitroaniline	< 0.115	0.115		11/13/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.135	0.135		11/13/2001	GG
	4-Bromophenyl phenyl ether	< 0.0630	0.0630		11/13/2001	GG
	4-Chloro-3-methylphenol	< 0.0579	0.0579		11/13/2001	GG
	4-Chloroaniline	< 0.0408	0.0408		11/13/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0806	0.0806		11/13/2001	GG
	4-Nitroaniline	< 0.154	0.154		11/13/2001	GG
	4-Nitrophenol	< 0.0621	0.0621		11/13/2001	GG
	Acenaphthene	< 0.0698	0.0698		11/13/2001	GG
	Acenaphthylene	< 0.0515	0.0515		11/13/2001	GG
	Anthracene	< 0.0364	0.0364		11/13/2001	GG
	Benz(a)anthracene	< 0.0558	0.0558		11/13/2001	GG
	Benzo(a)pyrene	< 0.0693	0.0693		11/13/2001	GG
	Benzo(b+k)fluoranthene	0.0786	0.0442		11/13/2001	GG
	Benzo(g,h,i)perylene	< 0.0449	0.0449		11/13/2001	GG
	Benzyl alcohol	< 0.103	0.103		11/13/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0828	0.0828		11/13/2001	GG
	Bis(2-chloroethyl)ether	< 0.0893	0.0893		11/13/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.107	0.107		11/13/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0606	0.0606		11/13/2001	GG
	Butyl benzyl phthalate	< 0.0565	0.0565		11/13/2001	GG
	Chrysene	< 0.0562	0.0562		11/13/2001	GG
	Di-n-butyl phthalate	< 0.0765	0.0765		11/13/2001	GG
	Di-n-octyl phthalate	< 0.0432	0.0432		11/13/2001	GG
	Dibenz(a,h)anthracene	< 0.0594	0.0594		11/13/2001	GG
	Dibenzofuran	< 0.0601	0.0601		11/13/2001	GG
	Diethyl phthalate	< 0.0529	0.0529		11/13/2001	GG
	Dimethyl phthalate	< 0.0596	0.0596		11/13/2001	GG

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Toltest, Inc.
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Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC229-SB3				
Lab Number		01110200-06				
Description		10-12'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	0.0772	0.0355		11/13/2001	GG
	Fluorene	< 0.0504	0.0504		11/13/2001	GG
	Hexachlorobenzene	< 0.0405	0.0405		11/13/2001	GG
	Hexachlorobutadiene	< 0.104	0.104		11/13/2001	GG
	Hexachlorocyclopentadiene	< 0.107	0.107		11/13/2001	GG
	Hexachloroethane	< 0.0942	0.0942		11/13/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0546	0.0546		11/13/2001	GG
	Isophorone	< 0.0721	0.0721		11/13/2001	GG
	m,p-Cresol	< 0.0802	0.0802		11/13/2001	GG
	N-Nitrosodi-n-propylamine	< 0.116	0.116		11/13/2001	GG
	N-Nitrosodiphenylamine	< 0.139	0.139		11/13/2001	GG
	Naphthalene	< 0.0753	0.0753		11/13/2001	GG
	Nitrobenzene	< 0.0725	0.0725		11/13/2001	GG
	o-Cresol	< 0.110	0.110		11/13/2001	GG
	Pentachlorophenol	< 0.112	0.112		11/13/2001	GG
	Phenanthrene	< 0.0488	0.0488		11/13/2001	GG
	Phenol	< 0.0686	0.0686		11/13/2001	GG
	Pyrene	0.0755	0.0287		11/13/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0193	0.0193		11/13/2001	LBI
	Acenaphthylene	< 0.0244	0.0244		11/13/2001	LBI
	Anthracene	0.0468	0.0212		11/13/2001	LBI
	Benz(a)anthracene	0.406	0.0107		11/13/2001	LBI
	Benzo(a)pyrene	0.509	0.0221		11/13/2001	LBI
	Benzo(b)fluoranthene	0.384	0.00675		11/13/2001	LBI
	Benzo(g,h,i)perylene	0.567	0.0115		11/13/2001	LBI
	Benzo(k)fluoranthene	0.21	0.00624		11/13/2001	LBI
	Chrysene	0.357	0.0107		11/13/2001	LBI
	Dibenz(a,h)anthracene	0.061	0.00584		11/13/2001	LBI
	Fluoranthene	0.702	0.0076		11/13/2001	LBI
	Fluorene	< 0.0141	0.0141		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.231	0.0097		11/13/2001	LBI
	Naphthalene	0.0397	0.0256		11/13/2001	LBI
	Phenanthrene	0.143	0.0196		11/13/2001	LBI
	Pyrene	0.64	0.0172		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP1				
Lab Number		01110200-07				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.05	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	0.015	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/9/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/13/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/13/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/13/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/13/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/13/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/13/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/13/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/13/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/13/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/13/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/13/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/13/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/13/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/13/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/13/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/13/2001	XN
	2-Butanone	< 0.01	0.01		11/13/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/13/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/13/2001	XN
	Acetone	< 0.04	0.04		11/13/2001	XN
	Benzene	< 0.0007	0.0007		11/13/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/13/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/13/2001	XN

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First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		**NTC239-TP1**				
Lab Number		**01110200-07**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromodichloromethane	< 0.0007	0.0007		11/13/2001	XN
	Bromoform	< 0.005	0.005		11/13/2001	XN
	Bromomethane	< 0.0014	0.0014		11/13/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/13/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/13/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/13/2001	XN
	Chloroethane	< 0.0018	0.0018		11/13/2001	XN
	Chloroform	< 0.0013	0.0013		11/13/2001	XN
	Chloromethane	< 0.0038	0.0038		11/13/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/13/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/13/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/13/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/13/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/13/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/13/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/13/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/13/2001	XN
	Methylene chloride	< 0.0027	0.0027		11/13/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/13/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/13/2001	XN
	Naphthalene	< 0.002	0.002		11/13/2001	XN
	o-Xylene	< 0.005	0.005		11/13/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/13/2001	XN
	Styrene	< 0.0011	0.0011		11/13/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/13/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/13/2001	XN
	Toluene	< 0.00159	0.00159		11/13/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/13/2001	XN
	Trichloroethene	< 0.001	0.001		11/13/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/13/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/13/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/12/2001	GG
	1,2,4-Trichlorobenzene	< 0.00222	0.00222		11/12/2001	GG
	1,2-Dichlorobenzene	< 0.00162	0.00162		11/12/2001	GG
	1,3-Dichlorobenzene	< 0.00171	0.00171		11/12/2001	GG
	1,4-Dichlorobenzene	< 0.0019	0.0019		11/12/2001	GG
	2,4,5-Trichlorophenol	< 0.00183	0.00183		11/12/2001	GG

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1000 Northpointe Bldv.
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ANALYTICAL REPORT

Field ID		**NTC239-TP1**				
Lab Number		**01110200-07**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	2,4,6-Trichlorophenol	< 0.00221	0.00221		11/12/2001	GG
	2,4-Dichlorophenol	< 0.00221	0.00221		11/12/2001	GG
	2,4-Dimethylphenol	< 0.0174	0.0174		11/12/2001	GG
	2,4-Dinitrophenol	< 0.0347	0.0347		11/12/2001	GG
	2,4-Dinitrotoluene	< 0.0347	0.0347		11/12/2001	GG
	2,6-Dinitrotoluene	< 0.00695	0.00695		11/12/2001	GG
	2-Chloronaphthalene	< 0.00119	0.00119		11/12/2001	GG
	2-Chlorophenol	< 0.00188	0.00188		11/12/2001	GG
	2-Methylnaphthalene	< 0.00229	0.00229		11/12/2001	GG
	2-Nitroaniline	< 0.00695	0.00695		11/12/2001	GG
	2-Nitrophenol	< 0.00281	0.00281		11/12/2001	GG
	3,3'-Dichlorobenzidine	< 0.0146	0.0146		11/12/2001	GG
	3-Nitroaniline	< 0.00695	0.00695		11/12/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0174	0.0174		11/12/2001	GG
	4-Bromophenyl phenyl ether	< 0.00197	0.00197		11/12/2001	GG
	4-Chloro-3-methylphenol	< 0.00188	0.00188		11/12/2001	GG
	4-Chloroaniline	< 0.0174	0.0174		11/12/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00198	0.00198		11/12/2001	GG
	4-Nitroaniline	< 0.00695	0.00695		11/12/2001	GG
	4-Nitrophenol	< 0.00695	0.00695		11/12/2001	GG
	Acenaphthene	< 0.00223	0.00223		11/12/2001	GG
	Acenaphthylene	< 0.00211	0.00211		11/12/2001	GG
	Anthracene	< 0.00164	0.00164		11/12/2001	GG
	Benz(a)anthracene	< 0.00226	0.00226		11/12/2001	GG
	Benzo(a)pyrene	< 0.00216	0.00216		11/12/2001	GG
	Benzo(b+k)fluoranthene	< 0.00428	0.00428		11/12/2001	GG
	Benzo(g,h,i)perylene	< 0.00287	0.00287		11/12/2001	GG
	Benzyl alcohol	< 0.00242	0.00242		11/12/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00316	0.00316		11/12/2001	GG
	Bis(2-chloroethyl)ether	< 0.00214	0.00214		11/12/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00277	0.00277		11/12/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00222	0.00222		11/12/2001	GG
	Butyl benzyl phthalate	< 0.00182	0.00182		11/12/2001	GG
	Chrysene	< 0.00269	0.00269		11/12/2001	GG
	Di-n-butyl phthalate	< 0.00196	0.00196		11/12/2001	GG
	Di-n-octyl phthalate	< 0.00178	0.00178		11/12/2001	GG
	Dibenz(a,h)anthracene	< 0.00205	0.00205		11/12/2001	GG
	Dibenzofuran	< 0.00206	0.00206		11/12/2001	GG
	Diethyl phthalate	< 0.0174	0.0174		11/12/2001	GG
	Dimethyl phthalate	< 0.00695	0.00695		11/12/2001	GG
	Fluoranthene	< 0.00175	0.00175		11/12/2001	GG

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Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP1				
Lab Number		01110200-07				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluorene	< 0.00208	0.00208		11/12/2001	GG
	Hexachlorobenzene	< 0.00192	0.00192		11/12/2001	GG
	Hexachlorobutadiene	< 0.0347	0.0347		11/12/2001	GG
	Hexachlorocyclopentadiene	< 0.0347	0.0347		11/12/2001	GG
	Hexachloroethane	< 0.00171	0.00171		11/12/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00226	0.00226		11/12/2001	GG
	Isophorone	< 0.00222	0.00222		11/12/2001	GG
	m,p-Cresol	< 0.00695	0.00695		11/12/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00186	0.00186		11/12/2001	GG
	N-Nitrosodiphenylamine	< 0.0015	0.0015		11/12/2001	GG
	Naphthalene	< 0.00238	0.00238		11/12/2001	GG
	Nitrobenzene	< 0.00236	0.00236		11/12/2001	GG
	o-Cresol	< 0.00695	0.00695		11/12/2001	GG
	Pentachlorophenol	< 0.0347	0.0347		11/12/2001	GG
	Phenanthrene	< 0.00183	0.00183		11/12/2001	GG
	Phenol	< 0.00486	0.00486		11/12/2001	GG
	Pyrene	< 0.00174	0.00174		11/12/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/10/2001	LBI
	Acenaphthene	< 0.00009	0.00009		11/10/2001	LBI
	Acenaphthylene	< 0.00026	0.00026		11/10/2001	LBI
	Anthracene	< 0.00004	0.00004		11/10/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/10/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/10/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/10/2001	LBI
	Benzo(g,h,i)perylene	< 0.0002	0.0002		11/10/2001	LBI
	Benzo(k)fluoranthene	< 0.00006	0.00006		11/10/2001	LBI
	Chrysene	< 0.00005	0.00005		11/10/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/10/2001	LBI
	Fluoranthene	< 0.00024	0.00024		11/10/2001	LBI
	Fluorene	< 0.00006	0.00006		11/10/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00015	0.00015		11/10/2001	LBI
	Naphthalene	< 0.00024	0.00024		11/10/2001	LBI
	Phenanthrene	< 0.00012	0.00012		11/10/2001	LBI
	Pyrene	< 0.00012	0.00012		11/10/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP2				
Lab Number		01110200-08				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.231	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	0.005	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/09/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/13/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/13/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/13/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/13/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/13/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/13/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/13/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/13/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/13/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/13/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/13/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/13/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/13/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/13/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/13/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/13/2001	XN
	2-Butanone	< 0.01	0.01		11/13/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/13/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/13/2001	XN
	Acetone	< 0.04	0.04		11/13/2001	XN
	Benzene	< 0.0007	0.0007		11/13/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/13/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/13/2001	XN

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Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP2				
Lab Number		01110200-08				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromodichloromethane	< 0.0007	0.0007		11/13/2001	XN
	Bromoform	< 0.005	0.005		11/13/2001	XN
	Bromomethane	< 0.0014	0.0014		11/13/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/13/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/13/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/13/2001	XN
	Chloroethane	< 0.0018	0.0018		11/13/2001	XN
	Chloroform	< 0.0013	0.0013		11/13/2001	XN
	Chloromethane	< 0.0038	0.0038		11/13/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/13/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/13/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/13/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/13/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/13/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/13/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/13/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/13/2001	XN
	Methylene chloride	0.00271	0.0027		11/13/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/13/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/13/2001	XN
	Naphthalene	< 0.002	0.002		11/13/2001	XN
	o-Xylene	< 0.005	0.005		11/13/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/13/2001	XN
	Styrene	< 0.0011	0.0011		11/13/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/13/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/13/2001	XN
	Toluene	< 0.00159	0.00159		11/13/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/13/2001	XN
	Trichloroethene	< 0.001	0.001		11/13/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/13/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/13/2001	XN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/10/2001	LBI
	Acenaphthene	0.00013	0.00007		11/10/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/10/2001	LBI
	Anthracene	0.00006	0.00003		11/10/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/10/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/10/2001	LBI

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First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP2				
Lab Number		01110200-08				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/10/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/10/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/10/2001	LBI
	Chrysene	< 0.00004	0.00004		11/10/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/10/2001	LBI
	Fluoranthene	0.0006	0.0002		11/10/2001	LBI
	Fluorene	0.0001	0.00005		11/10/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/10/2001	LBI
	Naphthalene	0.00045	0.0002		11/10/2001	LBI
	Phenanthrene	0.00048	0.0001		11/10/2001	LBI
	Pyrene	0.00026	0.0001		11/10/2001	LBI

The B/N analysis needed to be re-extracted. The additional sample requested was logged in on 01110445 work order as sample 23.
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Waukegan, IL 60085
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Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP3				
Lab Number		01110200-09				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.126	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	0.005	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/9/2001	ES
SW7740	Selenium	< 0.006	0.0006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/13/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/13/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/13/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/13/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/13/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/13/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/13/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/13/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/13/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/13/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/13/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/13/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/13/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/13/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/13/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/13/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/13/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/13/2001	XN
	2-Butanone	< 0.01	0.01		11/13/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/13/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/13/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/13/2001	XN
	Acetone	< 0.04	0.04		11/13/2001	XN
	Benzene	< 0.0007	0.0007		11/13/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/13/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/13/2001	XN

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP3				
Lab Number		01110200-09				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromodichloromethane	< 0.0007	0.0007		11/13/2001	XN
	Bromoform	< 0.005	0.005		11/13/2001	XN
	Bromomethane	< 0.0014	0.0014		11/13/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/13/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/13/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/13/2001	XN
	Chloroethane	< 0.0018	0.0018		11/13/2001	XN
	Chloroform	< 0.0013	0.0013		11/13/2001	XN
	Chloromethane	< 0.0038	0.0038		11/13/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/13/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/13/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/13/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/13/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/13/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/13/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/13/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/13/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/13/2001	XN
	Methylene chloride	< 0.0027	0.0027		11/13/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/13/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/13/2001	XN
	Naphthalene	< 0.002	0.002		11/13/2001	XN
	o-Xylene	< 0.005	0.005		11/13/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/13/2001	XN
	Styrene	< 0.0011	0.0011		11/13/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/13/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/13/2001	XN
	Toluene	0.00169	0.00159		11/13/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/13/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/13/2001	XN
	Trichloroethene	< 0.001	0.001		11/13/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/13/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/13/2001	XN
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/10/2001	LBI
	Acenaphthene	< 0.00009	0.00009		11/10/2001	LBI
	Acenaphthylene	< 0.00026	0.00026		11/10/2001	LBI
	Anthracene	< 0.00004	0.00004		11/10/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/10/2001	LBI
	Benzo(a)pyrene	< 0.00007	0.00007		11/10/2001	LBI

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Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110200
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/05/01
Received: 11/07/01
Date Reported: 11/27/01

ANALYTICAL REPORT

Field ID		NTC239-TP3				
Lab Number		01110200-09				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/10/2001	LBI
	Benzo(g,h,i)perylene	< 0.00021	0.00021		11/10/2001	LBI
	Benzo(k)fluoranthene	< 0.00006	0.00006		11/10/2001	LBI
	Chrysene	< 0.00005	0.00005		11/10/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/10/2001	LBI
	Fluoranthene	< 0.00025	0.00025		11/10/2001	LBI
	Fluorene	< 0.00007	0.00007		11/10/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00016	0.00016		11/10/2001	LBI
	Naphthalene	< 0.00025	0.00025		11/10/2001	LBI
	Phenanthrene	< 0.00012	0.00012		11/10/2001	LBI
	Pyrene	< 0.00012	0.00012		11/10/2001	LBI

The B/N analysis needed to be re-extracted. The additional sample requested was logged in on 01110445 work order as sample 24.
AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

AEA LABORATORIES, INC.

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WAST

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: TriTest	Project Name: Relative Risk Ranking
Address: 1000 Northpointe Blvd. Waukegan, IL 60085	Sampler Name: Lynn Smith
	Project #: 41792.01
Report to: Khush Mander	Time Period: 5 Day 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #(847)689-0697 Fax #(847) 689-0698	Date Needed:

Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1 NTC-239-SB1 (10-12')	S	11-5-01 1055	G	~~6~~ TR 5 NP	VOCs, B/N, PNAs, Metals	01AB
2 NTC-239-SB2 (2-4')	S	11-5-01 1200	G	~~5~~ TR 4 NP		02AB
3 NTC-239-SB3 (6-8')	S	11-5-01 1230	G	5		03AB
4 NTC-229-SB1 (6-8')	S	11-5-01 1440	G	5		04AB
5 NTC-229-SB2 (14-16')	S	11-5-01 1540	G	5		05AB
6 NTC-229-SB3 (10-12')	S	11-5-01 1625	G	5		06AB
7 NTC-239-TP1	W	11-5-01 1111	G	5	VOCs, B/N* PNAs, Metals 28 mon	07ABC
8 NTC-239-TP2	W	11-5-01 1348	G	5		08ABC
9 NTC-239-TP3	W	11-5-01 1400	G	5		09ABC
10						
11						
12						
13						
14						
15						

01 to 200

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated	GLOSSARY: MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept. R=Reject
Preservative Type:	Temp. of Container °C:	CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W) PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:	Date/Time: 11/2/01 11:37	Accepted by:	11/1 11:45
Relinquished by:	Date/Time: 11/1 4:30	Accepted by:	11-7-01 1200
Comments:			

Page of

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LABORATORY DATA REPORT

CLIENT **Toltest, Inc.**
1000 Northpointe Bldv.
Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/09/01
REPORTED	: 11/21/01
FILE ID#	: **01110255 01-16**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Armenta P. Pinder

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC229-TP1				
Lab Number		01110255-01				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/15/2001	AG
SW6010B	Barium	0.137	0.008	mg/L	11/15/2001	ML
SW7131	Cadmium	< 0.0013	0.001	mg/L	11/15/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/15/2001	ML
SW7421	Lead	0.124	0.003	mg/L	11/14/2001	AG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/14/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/15/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/15/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	GO
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	GO
	2-Butanone	< 0.01	0.01		11/14/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/14/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	GO
	Acetone	< 0.04	0.04		11/14/2001	GO
	Benzene	< 0.0007	0.0007		11/14/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/14/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	GO

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC229-TP1**				
Lab Number		**01110255-01**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	GO
	Bromoform	< 0.005	0.005		11/14/2001	GO
	Bromomethane	< 0.0014	0.0014		11/14/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	GO
	Chloroethane	< 0.0018	0.0018		11/14/2001	GO
	Chloroform	< 0.0013	0.0013		11/14/2001	GO
	Chloromethane	< 0.0038	0.0038		11/14/2001	GO
	cis-1,2-Dichloroethene	0.0017	0.0011		11/14/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/14/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/14/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	GO
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	GO
	Naphthalene	< 0.002	0.002		11/14/2001	GO
	o-Xylene	< 0.005	0.005		11/14/2001	GO
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	GO
	Styrene	< 0.0011	0.0011		11/14/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	GO
	Toluene	< 0.00159	0.00159		11/14/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	GO
	Trichloroethene	< 0.001	0.001		11/14/2001	GO
	Trichlorofluoromethane	0.0056	0.0011		11/14/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	GO
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.00188	0.00188		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.00137	0.00137		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.00145	0.00145		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.00161	0.00161		11/15/2001	GG
	2,4,5-Trichlorophenol	< 0.00155	0.00155		11/15/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC229-TP1				
Lab Number		01110255-01				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,6-Trichlorophenol	< 0.00187	0.00187		11/15/2001	GG
	2,4-Dichlorophenol	< 0.00187	0.00187		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0147	0.0147		11/15/2001	GG
	2,4-Dinitrophenol	< 0.0294	0.0294		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.0294	0.0294		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.00589	0.00589		11/15/2001	GG
	2-Chloronaphthalene	< 0.00101	0.00101		11/15/2001	GG
	2-Chlorophenol	< 0.00159	0.00159		11/15/2001	GG
	2-Methylnaphthalene	< 0.00194	0.00194		11/15/2001	GG
	2-Nitroaniline	< 0.00589	0.00589		11/15/2001	GG
	2-Nitrophenol	< 0.00238	0.00238		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.0124	0.0124		11/15/2001	GG
	3-Nitroaniline	< 0.00589	0.00589		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0147	0.0147		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.00167	0.00167		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.00159	0.00159		11/15/2001	GG
	4-Chloroaniline	< 0.0147	0.0147		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00168	0.00168		11/15/2001	GG
	4-Nitroaniline	< 0.00589	0.00589		11/15/2001	GG
	4-Nitrophenol	< 0.00589	0.00589		11/15/2001	GG
	Acenaphthene	< 0.00189	0.00189		11/15/2001	GG
	Acenaphthylene	< 0.00179	0.00179		11/15/2001	GG
	Anthracene	< 0.00139	0.00139		11/15/2001	GG
	Benz(a)anthracene	< 0.00191	0.00191		11/15/2001	GG
	Benzo(a)pyrene	< 0.00184	0.00184		11/15/2001	GG
	Benzo(b+k)fluoranthene	< 0.00363	0.00363		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.00243	0.00243		11/15/2001	GG
	Benzyl alcohol	< 0.00205	0.00205		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00268	0.00268		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.00182	0.00182		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00235	0.00235		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00188	0.00188		11/15/2001	GG
	Butyl benzyl phthalate	< 0.00154	0.00154		11/15/2001	GG
	Chrysene	< 0.00228	0.00228		11/15/2001	GG
	Di-n-butyl phthalate	< 0.00166	0.00166		11/15/2001	GG
	Di-n-octyl phthalate	< 0.00151	0.00151		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.00174	0.00174		11/15/2001	GG
	Dibenzofuran	< 0.00175	0.00175		11/15/2001	GG
	Diethyl phthalate	< 0.0147	0.0147		11/15/2001	GG
	Dimethyl phthalate	< 0.00589	0.00589		11/15/2001	GG
	Fluoranthene	< 0.00148	0.00148		11/15/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC229-TP1**				
Lab Number		**01110255-01**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluorene	< 0.00177	0.00177		11/15/2001	GG
	Hexachlorobenzene	< 0.00163	0.00163		11/15/2001	GG
	Hexachlorobutadiene	< 0.0294	0.0294		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0294	0.0294		11/15/2001	GG
	Hexachloroethane	< 0.00145	0.00145		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00191	0.00191		11/15/2001	GG
	Isophorone	< 0.00188	0.00188		11/15/2001	GG
	m,p-Cresol	< 0.00589	0.00589		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00158	0.00158		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.00128	0.00128		11/15/2001	GG
	Naphthalene	< 0.00202	0.00202		11/15/2001	GG
	Nitrobenzene	< 0.002	0.002		11/15/2001	GG
	o-Cresol	< 0.00589	0.00589		11/15/2001	GG
	Pentachlorophenol	< 0.0294	0.0294		11/15/2001	GG
	Phenanthrene	< 0.00155	0.00155		11/15/2001	GG
	Phenol	< 0.00412	0.00412		11/15/2001	GG
	Pyrene	< 0.00147	0.00147		11/15/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/13/2001	LBI
	Acenaphthene	< 0.00023	0.00023		11/13/2001	LBI
	Acenaphthylene	< 0.00066	0.00066		11/13/2001	LBI
	Anthracene	< 0.0001	0.0001		11/13/2001	LBI
	Benz(a)anthracene	< 0.0001	0.0001		11/13/2001	LBI
	Benzo(a)pyrene	< 0.00017	0.00017		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00027	0.00027		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.00053	0.00053		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00015	0.00015		11/13/2001	LBI
	Chrysene	< 0.00013	0.00013		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00013	0.00013		11/13/2001	LBI
	Fluoranthene	< 0.00063	0.00063		11/13/2001	LBI
	Fluorene	< 0.00017	0.00017		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0004	0.0004		11/13/2001	LBI
	Naphthalene	< 0.00063	0.00063		11/13/2001	LBI
	Phenanthrene	< 0.0003	0.0003		11/13/2001	LBI
	Pyrene	< 0.0003	0.0003		11/13/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC103-SB2				
Lab Number		01110255-02				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	12.2	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	13.9	3.91	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	< 0.004	0.004	mg/L	11/14/2001	MG
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/14/2001	IK2
	Benzene	< 0.00535	0.00535		11/14/2001	IK2
	Ethylbenzene	< 0.00535	0.00535		11/14/2001	IK2
	Methyl tert-butyl ether	Pending			11/14/2001	IK2
	Toluene	< 0.00856	0.00856		11/14/2001	IK2
	Xylenes, Total	< 0.0107	0.0107		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/15/2001	LBI
	Acenaphthene	< 0.00968	0.00968		11/15/2001	LBI
	Acenaphthylene	< 0.0122	0.0122		11/15/2001	LBI
	Anthracene	< 0.0106	0.0106		11/15/2001	LBI
	Benz(a)anthracene	< 0.00535	0.00535		11/15/2001	LBI
	Benzo(a)pyrene	< 0.0111	0.0111		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00339	0.00339		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.03	0.03		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00313	0.00313		11/15/2001	LBI
	Chrysene	< 0.00538	0.00538		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00293	0.00293		11/15/2001	LBI
	Fluoranthene	< 0.00382	0.00382		11/15/2001	LBI
	Fluorene	< 0.00706	0.00706		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00487	0.00487		11/15/2001	LBI
	Naphthalene	< 0.0128	0.0128		11/15/2001	LBI
	Phenanthrene	< 0.00982	0.00982		11/15/2001	LBI
	Pyrene	< 0.00863	0.00863		11/15/2001	LBI

Analytes reported on dry weight basis except for Moisture and SPLP Lead.
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Arminta P. Priddy
Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		NTC103-TP3				
Lab Number		01110255-03				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.005	0.003	mg/L	11/14/2001	AG
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/14/2001	IK2
	Benzene	< 0.004	0.004		11/14/2001	IK2
	Ethylbenzene	< 0.003	0.003		11/14/2001	IK2
	Methyl tert-butyl ether	< 0.005	0.005		11/14/2001	IK2
	Toluene	< 0.004	0.004		11/14/2001	IK2
	Xylenes, Total	< 0.007	0.007		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/15/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/15/2001	LBI
	Anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00019	0.00019		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00005	0.00005		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/15/2001	LBI
	Fluoranthene	< 0.00022	0.00022		11/15/2001	LBI
	Fluorene	< 0.00006	0.00006		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/15/2001	LBI
	Naphthalene	< 0.00022	0.00022		11/15/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/15/2001	LBI
	Pyrene	< 0.0001	0.0001		11/15/2001	LBI

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Arminta P. Priddy

Arminta P. Priddy
Director of Laboratory Customer Service

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
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ANALYTICAL REPORT

Field ID		**NTC103-TP2**				
Lab Number		**01110255-04**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7421	Lead	0.003	0.003	mg/L	11/14/2001	AG
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/14/2001	IK2
	Benzene	< 0.004	0.004		11/14/2001	IK2
	Ethylbenzene	< 0.003	0.003		11/14/2001	IK2
	Methyl tert-butyl ether	< 0.005	0.005		11/14/2001	IK2
	Toluene	< 0.004	0.004		11/14/2001	IK2
	Xylenes, Total	< 0.007	0.007		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/15/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/15/2001	LBI
	Anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00005	0.00005		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/15/2001	LBI
	Fluoranthene	< 0.00022	0.00022		11/15/2001	LBI
	Fluorene	< 0.00006	0.00006		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/15/2001	LBI
	Naphthalene	< 0.00022	0.00022		11/15/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/15/2001	LBI
	Pyrene	< 0.0001	0.0001		11/15/2001	LBI

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Arminta P. Priddy

Arminta P. Priddy
Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		NTC106-SB1				
Lab Number		01110255-05				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.4	0.1	% (Percent)	11/11/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/14/2001	IK2
	Benzene	< 0.00567	0.00567		11/14/2001	IK2
	Ethylbenzene	< 0.00567	0.00567		11/14/2001	IK2
	Toluene	< 0.00907	0.00907		11/14/2001	IK2
	Xylenes, Total	< 0.0113	0.0113		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/15/2001	LBI
	Acenaphthene	< 0.00993	0.00993		11/15/2001	LBI
	Acenaphthylene	< 0.0126	0.0126		11/15/2001	LBI
	Anthracene	< 0.0109	0.0109		11/15/2001	LBI
	Benz(a)anthracene	0.00876	0.00549		11/15/2001	LBI
	Benzo(a)pyrene	0.0124	0.0114		11/15/2001	LBI
	Benzo(b)fluoranthene	0.0117	0.00348		11/15/2001	LBI
	Benzo(g,h,i)perylene	0.0212	0.0059		11/15/2001	LBI
	Benzo(k)fluoranthene	0.00584	0.00321		11/15/2001	LBI
	Chrysene	0.00949	0.00552		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00301	0.00301		11/15/2001	LBI
	Fluoranthene	0.0183	0.00391		11/15/2001	LBI
	Fluorene	< 0.00724	0.00724		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	0.00876	0.00499		11/15/2001	LBI
	Naphthalene	< 0.0132	0.0132		11/15/2001	LBI
	Phenanthrene	< 0.0101	0.0101		11/15/2001	LBI
	Pyrene	0.0183	0.00885		11/15/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Arminta P. Priddy
Director of Laboratory Customer Service

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laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC106-SB2				
Lab Number		01110255-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	11.7	0.1	% (Percent)	11/11/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	< 0.00506	0.00506		11/16/2001	GO
	Ethylbenzene	< 0.00506	0.00506		11/16/2001	GO
	Toluene	< 0.00809	0.00809		11/16/2001	GO
	Xylenes, Total	< 0.0101	0.0101		11/16/2001	GO
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/15/2001	LBI
	Acenaphthene	0.13	0.00963		11/15/2001	LBI
	Acenaphthylene	< 0.0122	0.0122		11/15/2001	LBI
	Anthracene	0.699	0.0106		11/15/2001	LBI
	Benz(a)anthracene	1.67	0.00532		11/15/2001	LBI
	Benzo(a)pyrene	1.74	0.011		11/15/2001	LBI
	Benzo(b)fluoranthene	1.44	0.00337		11/15/2001	LBI
	Benzo(g,h,i)perylene	1.96	0.00572		11/15/2001	LBI
	Benzo(k)fluoranthene	0.864	0.00311		11/15/2001	LBI
	Chrysene	1.37	0.00535		11/15/2001	LBI
	Dibenz(a,h)anthracene	0.225	0.00292		11/15/2001	LBI
	Fluoranthene	3.57	0.00379		11/15/2001	LBI
	Fluorene	0.13	0.00702		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	1.05	0.00484		11/15/2001	LBI
	Naphthalene	0.0262	0.0128		11/15/2001	LBI
	Phenanthrene	2.16	0.00977		11/15/2001	LBI
	Pyrene	3.25	0.00858		11/15/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

8100 North Austin Avenue. Morton Grove. IL 60053-3203 • Tel.: 847-967-9976 • Fax: 847-581-1576 • http://www.aealabs.com

laboratories inc.

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		NTC106-SB3				
Lab Number		01110255-07				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	18	0.1	% (Percent)	11/14/2001	RM2
SW8021B	**BTEX by GC/PID**	---	---	mg/Kg-dry	11/11/2001	IK2
	Benzene	0.00529	0.00112		11/11/2001	IK2
	Ethylbenzene	0.0575	0.00112		11/11/2001	IK2
	Toluene	< 0.00179	0.00179		11/11/2001	IK2
	Xylenes, Total	0.143	0.00224		11/11/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/19/2001	LBI
	Acenaphthene	< 0.0104	0.0104		11/19/2001	LBI
	Acenaphthylene	< 0.0131	0.0131		11/19/2001	LBI
	Anthracene	< 0.0114	0.0114		11/19/2001	LBI
	Benz(a)anthracene	< 0.00575	0.00575		11/19/2001	LBI
	Benzo(a)pyrene	< 0.0119	0.0119		11/19/2001	LBI
	Benzo(b)fluoranthene	< 0.00364	0.00364		11/19/2001	LBI
	Benzo(g,h,i)perylene	< 0.00617	0.00617		11/19/2001	LBI
	Benzo(k)fluoranthene	< 0.00336	0.00336		11/19/2001	LBI
	Chrysene	< 0.00578	0.00578		11/19/2001	LBI
	Dibenz(a,h)anthracene	< 0.00315	0.00315		11/19/2001	LBI
	Fluoranthene	0.0138	0.0041		11/19/2001	LBI
	Fluorene	0.0153	0.00758		11/19/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00523	0.00523		11/19/2001	LBI
	Naphthalene	0.0573	0.0138		11/19/2001	LBI
	Phenanthrene	0.0153	0.0105		11/19/2001	LBI
	Pyrene	< 0.00926	0.00926		11/19/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy
Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC144-TP1				
Lab Number		01110255-08				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/15/2001	AG
SW6010B	Barium	0.036	0.008	mg/L	11/15/2001	ML
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/15/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/15/2001	ML
SW7421	Lead	0.004	0.003	mg/L	11/14/2001	AG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/12/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/15/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/15/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	GO
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	GO
	2-Butanone	< 0.01	0.01		11/14/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/14/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	GO
	Acetone	< 0.04	0.04		11/14/2001	GO
	Benzene	< 0.0007	0.0007		11/14/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/14/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	GO

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		**NTC144-TP1**				
Lab Number		**01110255-08**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	GO
	Bromoform	< 0.005	0.005		11/14/2001	GO
	Bromomethane	< 0.0014	0.0014		11/14/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	GO
	Chloroethane	< 0.0018	0.0018		11/14/2001	GO
	Chloroform	< 0.0013	0.0013		11/14/2001	GO
	Chloromethane	< 0.0038	0.0038		11/14/2001	GO
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/14/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	GO
	Methyl tert-butyl ether	< 0.005	0.005		11/14/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/14/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	GO
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	GO
	Naphthalene	< 0.002	0.002		11/14/2001	GO
	o-Xylene	< 0.005	0.005		11/14/2001	GO
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	GO
	Styrene	< 0.0011	0.0011		11/14/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	GO
	Toluene	< 0.00159	0.00159		11/14/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	GO
	Trichloroethene	< 0.001	0.001		11/14/2001	GO
	Trichlorofluoromethane	< 0.0011	0.0011		11/14/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	GO

AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
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ANALYTICAL REPORT

Field ID		NTC144-TP2				
Lab Number		01110255-09				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/15/2001	AG
SW6010B	Barium	0.046	0.008	mg/L	11/15/2001	ML
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/15/2001	AG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/15/2001	ML
SW7421	Lead	< 0.003	0.003	mg/L	11/14/2001	AG
SW7470a	Mercury	< 0.0002	0.0002	mg/L	11/12/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/15/2001	AG
SW6010B	Silver	< 0.042	0.042	mg/L	11/15/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	GO
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	GO
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	GO
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	GO
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	GO
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	GO
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	GO
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	GO
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	GO
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	GO
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	GO
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	GO
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	GO
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	GO
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	GO
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	GO
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	GO
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	GO
	2-Butanone	< 0.01	0.01		11/14/2001	GO
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	2-Hexanone	< 0.0008	0.0008		11/14/2001	GO
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	GO
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	GO
	Acetone	< 0.04	0.04		11/14/2001	GO
	Benzene	< 0.0007	0.0007		11/14/2001	GO
	Bromobenzene	< 0.0012	0.0012		11/14/2001	GO
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	GO
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	GO

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC144-TP2**				
Lab Number		**01110255-09**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromoform	< 0.005	0.005		11/14/2001	GO
	Bromomethane	< 0.0014	0.0014		11/14/2001	GO
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	GO
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	GO
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	GO
	Chloroethane	< 0.0018	0.0018		11/14/2001	GO
	Chloroform	< 0.0013	0.0013		11/14/2001	GO
	Chloromethane	< 0.0038	0.0038		11/14/2001	GO
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	GO
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	GO
	Dibromomethane	< 0.0014	0.0014		11/14/2001	GO
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	GO
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	GO
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	GO
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	GO
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	GO
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	GO
	Methyl tert-butyl ether	0.02047	0.005		11/14/2001	GO
	Methylene chloride	< 0.0027	0.0027		11/14/2001	GO
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	GO
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	GO
	Naphthalene	< 0.002	0.002		11/14/2001	GO
	o-Xylene	< 0.005	0.005		11/14/2001	GO
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	GO
	Styrene	< 0.0011	0.0011		11/14/2001	GO
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	GO
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	GO
	Toluene	< 0.00159	0.00159		11/14/2001	GO
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	GO
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	GO
	Trichloroethene	< 0.001	0.001		11/14/2001	GO
	Trichlorofluoromethane	< 0.0011	0.0011		11/14/2001	GO
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	GO
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.00192	0.00192		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.0014	0.0014		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.00148	0.00148		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.00164	0.00164		11/15/2001	GG
	2,4,5-Trichlorophenol	< 0.00158	0.00158		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.00191	0.00191		11/15/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		**NTC144-TP2**				
Lab Number		**01110255-09**				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	2,4-Dichlorophenol	< 0.00191	0.00191		11/15/2001	GG
	2,4-Dimethylphenol	< 0.015	0.015		11/15/2001	GG
	2,4-Dinitrophenol	< 0.03	0.03		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.03	0.03		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.006	0.006		11/15/2001	GG
	2-Chloronaphthalene	< 0.00103	0.00103		11/15/2001	GG
	2-Chlorophenol	< 0.00162	0.00162		11/15/2001	GG
	2-Methylnaphthalene	< 0.00198	0.00198		11/15/2001	GG
	2-Nitroaniline	< 0.006	0.006		11/15/2001	GG
	2-Nitrophenol	< 0.00243	0.00243		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.0126	0.0126		11/15/2001	GG
	3-Nitroaniline	< 0.006	0.006		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.015	0.015		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.0017	0.0017		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.00162	0.00162		11/15/2001	GG
	4-Chloroaniline	< 0.015	0.015		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00171	0.00171		11/15/2001	GG
	4-Nitroaniline	< 0.006	0.006		11/15/2001	GG
	4-Nitrophenol	< 0.006	0.006		11/15/2001	GG
	Acenaphthene	< 0.00193	0.00193		11/15/2001	GG
	Acenaphthylene	< 0.00182	0.00182		11/15/2001	GG
	Anthracene	< 0.00142	0.00142		11/15/2001	GG
	Benz(a)anthracene	< 0.00195	0.00195		11/15/2001	GG
	Benzo(a)pyrene	< 0.00187	0.00187		11/15/2001	GG
	Benzo(b+k)fluoranthene	< 0.0037	0.0037		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.00248	0.00248		11/15/2001	GG
	Benzyl alcohol	< 0.00209	0.00209		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00273	0.00273		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.00185	0.00185		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00239	0.00239		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00192	0.00192		11/15/2001	GG
	Butyl benzyl phthalate	< 0.00157	0.00157		11/15/2001	GG
	Chrysene	< 0.00232	0.00232		11/15/2001	GG
	Di-n-butyl phthalate	< 0.00169	0.00169		11/15/2001	GG
	Di-n-octyl phthalate	< 0.00154	0.00154		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.00177	0.00177		11/15/2001	GG
	Dibenzofuran	< 0.00178	0.00178		11/15/2001	GG
	Diethyl phthalate	< 0.015	0.015		11/15/2001	GG
	Dimethyl phthalate	< 0.006	0.006		11/15/2001	GG
	Fluoranthene	< 0.00151	0.00151		11/15/2001	GG
	Fluorene	< 0.0018	0.0018		11/15/2001	GG
	Hexachlorobenzene	< 0.00166	0.00166		11/15/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC144-TP2**				
Lab Number		**01110255-09**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Hexachlorobutadiene	< 0.03	0.03		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.03	0.03		11/15/2001	GG
	Hexachloroethane	< 0.00148	0.00148		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00195	0.00195		11/15/2001	GG
	Isophorone	< 0.00192	0.00192		11/15/2001	GG
	m,p-Cresol	< 0.006	0.006		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00161	0.00161		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.0013	0.0013		11/15/2001	GG
	Naphthalene	< 0.00206	0.00206		11/15/2001	GG
	Nitrobenzene	< 0.00204	0.00204		11/15/2001	GG
	o-Cresol	< 0.006	0.006		11/15/2001	GG
	Pentachlorophenol	< 0.03	0.03		11/15/2001	GG
	Phenanthrene	< 0.00158	0.00158		11/15/2001	GG
	Phenol	< 0.0042	0.0042		11/15/2001	GG
	Pyrene	< 0.0015	0.0015		11/15/2001	GG
3310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00007	0.00007		11/15/2001	LBI
	Acenaphthylene	< 0.00021	0.00021		11/15/2001	LBI
	Anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00005	0.00005		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00008	0.00008		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00017	0.00017		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00004	0.00004		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/15/2001	LBI
	Fluoranthene	< 0.0002	0.0002		11/15/2001	LBI
	Fluorene	< 0.00005	0.00005		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00012	0.00012		11/15/2001	LBI
	Naphthalene	< 0.0002	0.0002		11/15/2001	LBI
	Phenanthrene	< 0.00009	0.00009		11/15/2001	LBI
	Pyrene	< 0.00009	0.00009		11/15/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC144-SB3				
Lab Number		01110255-10				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	17.2	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	3.01	0.351	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	77.5	0.383	mg/Kg-dry	11/15/2001	ML
SW6010B	Cadmium	1.28	0.671	mg/Kg-dry	11/15/2001	ML
SW6010B	Chromium	16.2	1.53	mg/Kg-dry	11/15/2001	ML
SW6010B	Lead	16.1	4.03	mg/Kg-dry	11/15/2001	ML
SW7470a	Mercury	< 0.0402	0.0402	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.261	0.261	mg/Kg-dry	11/13/2001	MG
SW6010B	Silver	< 1.53	1.53	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	0.014	0.004	mg/L	11/14/2001	IG
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.235	0.235		11/14/2001	XN
	1,1,1-Trichloroethane	< 0.235	0.235		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.278	0.278		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.193	0.193		11/14/2001	XN
	1,1-Dichloroethane	< 0.171	0.171		11/14/2001	XN
	1,1-Dichloroethene	< 0.235	0.235		11/14/2001	XN
	1,1-Dichloropropene	< 0.193	0.193		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 1.07	1.07		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.235	0.235		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 1.07	1.07		11/14/2001	XN
	1,2,4-Trimethylbenzene	137	6.42		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 1.07	1.07		11/14/2001	XN
	1,2-Dibromoethane	< 0.15	0.15		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.342	0.342		11/14/2001	XN
	1,2-Dichloroethane	< 0.257	0.257		11/14/2001	XN
	1,2-Dichloropropane	< 0.171	0.171		11/14/2001	XN
	1,3,5-Trimethylbenzene	39.6	0.3		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.321	0.321		11/14/2001	XN
	1,3-Dichloropropane	< 0.214	0.214		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.321	0.321		11/14/2001	XN
	2,2-Dichloropropane	< 0.257	0.257		11/14/2001	XN
	2-Butanone	< 2.14	2.14		11/14/2001	XN
	2-Chlorotoluene	< 0.214	0.214		11/14/2001	XN
	2-Hexanone	< 0.171	0.171		11/14/2001	XN
	4-Chlorotoluene	< 0.214	0.214		11/14/2001	XN
	4-Methyl-2-pentanone	< 2.14	2.14		11/14/2001	XN
	Acetone	< 6.42	6.42		11/14/2001	XN
	Benzene	6.16	0.15		11/14/2001	XN

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC144-SB3				
Lab Number		01110255-10				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromobenzene	< 0.257	0.257		11/14/2001	XN
	Bromochloromethane	< 0.407	0.407		11/14/2001	XN
	Bromodichloromethane	< 0.15	0.15		11/14/2001	XN
	Bromoform	< 1.07	1.07		11/14/2001	XN
	Bromomethane	< 0.3	0.3		11/14/2001	XN
	Carbon disulfide	< 0.257	0.257		11/14/2001	XN
	Carbon tetrachloride	< 0.364	0.364		11/14/2001	XN
	Chlorobenzene	< 0.257	0.257		11/14/2001	XN
	Chloroethane	< 0.385	0.385		11/14/2001	XN
	Chloroform	< 0.278	0.278		11/14/2001	XN
	Chloromethane	< 0.813	0.813		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.235	0.235		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.15	0.15		11/14/2001	XN
	Dibromochloromethane	< 0.257	0.257		11/14/2001	XN
	Dibromomethane	< 0.3	0.3		11/14/2001	XN
	Dichlorodifluoromethane	< 1.07	1.07		11/14/2001	XN
	Ethylbenzene	41.9	0.3		11/14/2001	XN
	Hexachlorobutadiene	< 2.14	2.14		11/14/2001	XN
	Isopropyl Toluene	1.1	0.321		11/14/2001	XN
	Isopropylbenzene	< 0.278	0.278		11/14/2001	XN
	m,p-Xylene	125	0.514		11/14/2001	XN
	Methyl tert-butyl ether	< 1.07	1.07		11/14/2001	XN
	Methylene chloride	< 0.578	0.578		11/14/2001	XN
	n-Butylbenzene	21	0.599		11/14/2001	XN
	n-Propylbenzene	< 0.342	0.342		11/14/2001	XN
	Naphthalene	13.2	0.428		11/14/2001	XN
	o-Xylene	37.2	1.07		11/14/2001	XN
	sec-Butylbenzene	5.4	0.449		11/14/2001	XN
	Styrene	1.09	0.235		11/14/2001	XN
	tert-Butylbenzene	< 0.235	0.235		11/14/2001	XN
	Tetrachloroethene	< 0.342	0.342		11/14/2001	XN
	Toluene	19	0.34		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.235	0.235		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.128	0.128		11/14/2001	XN
	Trichloroethene	< 0.214	0.214		11/14/2001	XN
	Trichlorofluoromethane	< 0.235	0.235		11/14/2001	XN
	Vinyl chloride	< 0.278	0.278		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.077	0.077		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.0609	0.0609		11/15/2001	GG

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ANALYTICAL REPORT

Field ID		NTC144-SB3				
Lab Number		01110255-10				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	1,3-Dichlorobenzene	< 0.0697	0.0697		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.0721	0.0721		11/15/2001	GG
	2,4,5-Trichlorophenol	< 0.0639	0.0639		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.0455	0.0455		11/15/2001	GG
	2,4-Dichlorophenol	< 0.0695	0.0695		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0341	0.0341		11/15/2001	GG
	2,4-Dinitrophenol	< 0.112	0.112		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.0389	0.0389		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.0306	0.0306		11/15/2001	GG
	2-Chloronaphthalene	< 0.0488	0.0488		11/15/2001	GG
	2-Chlorophenol	< 0.057	0.057		11/15/2001	GG
	2-Methylnaphthalene	5.14	0.0583		11/15/2001	GG
	2-Nitroaniline	< 0.0578	0.0578		11/15/2001	GG
	2-Nitrophenol	< 0.115	0.115		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.166	0.166		11/15/2001	GG
	3-Nitroaniline	< 0.0948	0.0948		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.112	0.112		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.052	0.052		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.0477	0.0477		11/15/2001	GG
	4-Chloroaniline	< 0.0337	0.0337		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0665	0.0665		11/15/2001	GG
	4-Nitroaniline	< 0.127	0.127		11/15/2001	GG
	4-Nitrophenol	< 0.0512	0.0512		11/15/2001	GG
	Acenaphthene	0.0783	0.0576		11/15/2001	GG
	Acenaphthylene	< 0.0425	0.0425		11/15/2001	GG
	Anthracene	0.0965	0.03		11/15/2001	GG
	Benz(a)anthracene	0.0749	0.046		11/15/2001	GG
	Benzo(a)pyrene	< 0.0572	0.0572		11/15/2001	GG
	Benzo(b+k)fluoranthene	0.0712	0.0365		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.0371	0.0371		11/15/2001	GG
	Benzyl alcohol	< 0.0846	0.0846		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0684	0.0684		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.0736	0.0736		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0879	0.0879		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0499	0.0499		11/15/2001	GG
	Butyl benzyl phthalate	< 0.0466	0.0466		11/15/2001	GG
	Chrysene	0.0794	0.0464		11/15/2001	GG
	Di-n-butyl phthalate	< 0.0632	0.0632		11/15/2001	GG
	Di-n-octyl phthalate	< 0.0356	0.0356		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.049	0.049		11/15/2001	GG
	Dibenzofuran	< 0.0496	0.0496		11/15/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC144-SB3				
Lab Number		01110255-10				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Diethyl phthalate	< 0.0436	0.0436		11/15/2001	GG
	Dimethyl phthalate	< 0.0492	0.0492		11/15/2001	GG
	Fluoranthene	0.25	0.0293		11/15/2001	GG
	Fluorene	0.0723	0.0416		11/15/2001	GG
	Hexachlorobenzene	< 0.0334	0.0334		11/15/2001	GG
	Hexachlorobutadiene	< 0.0855	0.0855		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0885	0.0885		11/15/2001	GG
	Hexachloroethane	< 0.0777	0.0777		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0451	0.0451		11/15/2001	GG
	Isophorone	< 0.0594	0.0594		11/15/2001	GG
	m,p-Cresol	0.193	0.0661		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0956	0.0956		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.115	0.115		11/15/2001	GG
	Naphthalene	6.11	0.062		11/15/2001	GG
	Nitrobenzene	< 0.0598	0.0598		11/15/2001	GG
	o-Cresol	0.216	0.0904		11/15/2001	GG
	Pentachlorophenol	< 0.0928	0.0928		11/15/2001	GG
	Phenanthrene	0.326	0.0402		11/15/2001	GG
	Phenol	< 0.0566	0.0566		11/15/2001	GG
	Pyrene	0.186	0.0237		11/15/2001	GG

Analytes reported on dry weight basis except for Moisture.
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Waukegan, IL 60085
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ANALYTICAL REPORT

Field ID		NTC144-SB2				
Lab Number		01110255-11				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	15.6	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	5.99	0.348	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	15	0.383	mg/Kg-dry	11/15/2001	ML
SW6010B	Cadmium	0.817	0.671	mg/Kg-dry	11/15/2001	ML
SW6010B	Chromium	7.76	1.53	mg/Kg-dry	11/15/2001	ML
SW6010B	Lead	11.7	4.03	mg/Kg-dry	11/15/2001	ML
SW7470a	Mercury	< 0.0658	0.0658	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.259	0.258	mg/Kg-dry	11/13/2001	MG
SW6010B	Silver	< 1.53	1.53	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	< 0.004	0.004	mg/L	11/14/2001	IG
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	XN
	1,1,1-Trichloroethane	< 0.00127	0.00127		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0015	0.0015		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.00104	0.00104		11/14/2001	XN
	1,1-Dichloroethane	< 0.00092	0.00092		11/14/2001	XN
	1,1-Dichloroethene	< 0.00127	0.00127		11/14/2001	XN
	1,1-Dichloropropene	< 0.00104	0.00104		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.00575	0.00575		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.00127	0.00127		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.00575	0.00575		11/14/2001	XN
	1,2,4-Trimethylbenzene	0.00589	0.00138		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00575	0.00575		11/14/2001	XN
	1,2-Dibromoethane	< 0.00081	0.00081		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.00184	0.00184		11/14/2001	XN
	1,2-Dichloroethane	< 0.00138	0.00138		11/14/2001	XN
	1,2-Dichloropropane	< 0.00092	0.00092		11/14/2001	XN
	1,3,5-Trimethylbenzene	< 0.00161	0.00161		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.00173	0.00173		11/14/2001	XN
	1,3-Dichloropropane	< 0.00115	0.00115		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.00173	0.00173		11/14/2001	XN
	2,2-Dichloropropane	< 0.00138	0.00138		11/14/2001	XN
	2-Butanone	< 0.0115	0.0115		11/14/2001	XN
	2-Chlorotoluene	< 0.00115	0.00115		11/14/2001	XN
	2-Hexanone	< 0.00092	0.00092		11/14/2001	XN
	4-Chlorotoluene	< 0.00115	0.00115		11/14/2001	XN
	4-Isopropyltoluene	< 0.0015	0.0015		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.0115	0.0115		11/14/2001	XN
	Acetone	< 0.0345	0.0345		11/14/2001	XN
	Benzene	0.00587	0.00081		11/14/2001	XN

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1000 Northpointe Bldv.
Waukegan, IL 60085
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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		NTC144-SB2				
Lab Number		01110255-11				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromobenzene	< 0.00138	0.00138		11/14/2001	XN
	Bromochloromethane	< 0.00219	0.00219		11/14/2001	XN
	Bromodichloromethane	< 0.00081	0.00081		11/14/2001	XN
	Bromoform	< 0.00575	0.00575		11/14/2001	XN
	Bromomethane	< 0.00161	0.00161		11/14/2001	XN
	Carbon disulfide	< 0.00138	0.00138		11/14/2001	XN
	Carbon tetrachloride	< 0.00196	0.00196		11/14/2001	XN
	Chlorobenzene	< 0.00138	0.00138		11/14/2001	XN
	Chloroethane	< 0.00207	0.00207		11/14/2001	XN
	Chloroform	< 0.0015	0.0015		11/14/2001	XN
	Chloromethane	< 0.00437	0.00437		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.00127	0.00127		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.00081	0.00081		11/14/2001	XN
	Dibromochloromethane	< 0.00138	0.00138		11/14/2001	XN
	Dibromomethane	< 0.00161	0.00161		11/14/2001	XN
	Dichlorodifluoromethane	< 0.00575	0.00575		11/14/2001	XN
	Ethylbenzene	0.00892	0.00161		11/14/2001	XN
	Hexachlorobutadiene	< 0.0115	0.0115		11/14/2001	XN
	Isopropylbenzene	< 0.0015	0.0015		11/14/2001	XN
	m,p-Xylene	0.0107	0.00276		11/14/2001	XN
	Methyl tert-butyl ether	0.0117	0.00575		11/14/2001	XN
	Methylene chloride	0.0547	0.00311		11/14/2001	XN
	n-Butylbenzene	< 0.00322	0.00322		11/14/2001	XN
	n-Propylbenzene	< 0.00184	0.00184		11/14/2001	XN
	Naphthalene	< 0.0023	0.0023		11/14/2001	XN
	o-Xylene	< 0.00575	0.00575		11/14/2001	XN
	sec-Butylbenzene	< 0.00242	0.00242		11/14/2001	XN
	Styrene	< 0.00127	0.00127		11/14/2001	XN
	tert-Butylbenzene	< 0.00127	0.00127		11/14/2001	XN
	Tetrachloroethene	< 0.00184	0.00184		11/14/2001	XN
	Toluene	0.00419	0.00183		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.00127	0.00127		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.00069	0.00069		11/14/2001	XN
	Trichloroethene	< 0.00115	0.00115		11/14/2001	XN
	Trichlorofluoromethane	< 0.00127	0.00127		11/14/2001	XN
	Vinyl chloride	< 0.0015	0.0015		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.0644	0.0644		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.051	0.051		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.0584	0.0584		11/15/2001	GG

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Waukegan, IL 60085
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Sampled: 11/1-8/01
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ANALYTICAL REPORT

Field ID		NTC144-SB2				
Lab Number		01110255-11				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	1,4-Dichlorobenzene	< 0.0604	0.0604		11/15/2001	GG
	2,4,5-Trichlorophenol	< 0.0535	0.0535		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.0381	0.0381		11/15/2001	GG
	2,4-Dichlorophenol	< 0.0582	0.0582		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0286	0.0286		11/15/2001	GG
	2,4-Dinitrophenol	< 0.0936	0.0936		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.0326	0.0326		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.0256	0.0256		11/15/2001	GG
	2-Chloronaphthalene	< 0.0409	0.0409		11/15/2001	GG
	2-Chlorophenol	< 0.0477	0.0477		11/15/2001	GG
	2-Methylnaphthalene	< 0.0488	0.0488		11/15/2001	GG
	2-Nitroaniline	< 0.0484	0.0484		11/15/2001	GG
	2-Nitrophenol	< 0.0964	0.0964		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.139	0.139		11/15/2001	GG
	3-Nitroaniline	< 0.0794	0.0794		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0936	0.0936		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.0435	0.0435		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.0399	0.0399		11/15/2001	GG
	4-Chloroaniline	< 0.0282	0.0282		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0557	0.0557		11/15/2001	GG
	4-Nitroaniline	< 0.106	0.106		11/15/2001	GG
	4-Nitrophenol	< 0.0429	0.0429		11/15/2001	GG
	Acenaphthene	< 0.0482	0.0482		11/15/2001	GG
	Acenaphthylene	< 0.0356	0.0356		11/15/2001	GG
	Anthracene	< 0.0251	0.0251		11/15/2001	GG
	Benz(a)anthracene	< 0.0385	0.0385		11/15/2001	GG
	Benzo(a)pyrene	< 0.0479	0.0479		11/15/2001	GG
	Benzo(b+k)fluoranthene	< 0.0306	0.0306		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.031	0.031		11/15/2001	GG
	Benzyl alcohol	< 0.0708	0.0708		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0573	0.0573		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.0616	0.0616		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0736	0.0736		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0418	0.0418		11/15/2001	GG
	Butyl benzyl phthalate	< 0.039	0.039		11/15/2001	GG
	Chrysene	< 0.0389	0.0389		11/15/2001	GG
	Di-n-butyl phthalate	< 0.0529	0.0529		11/15/2001	GG
	Di-n-octyl phthalate	< 0.0298	0.0298		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.041	0.041		11/15/2001	GG
	Dibenzofuran	< 0.0415	0.0415		11/15/2001	GG
	Diethyl phthalate	< 0.0365	0.0365		11/15/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
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Attn: Khush Mander

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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		**NTC144-SB2**				
Lab Number		**01110255-11**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Dimethyl phthalate	< 0.0412	0.0412		11/15/2001	GG
	Fluoranthene	< 0.0245	0.0245		11/15/2001	GG
	Fluorene	< 0.0348	0.0348		11/15/2001	GG
	Hexachlorobenzene	< 0.0279	0.0279		11/15/2001	GG
	Hexachlorobutadiene	< 0.0716	0.0716		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0741	0.0741		11/15/2001	GG
	Hexachloroethane	< 0.0651	0.0651		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0378	0.0378		11/15/2001	GG
	Isophorone	< 0.0498	0.0498		11/15/2001	GG
	m,p-Cresol	< 0.0554	0.0554		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.08	0.08		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.0963	0.0963		11/15/2001	GG
	Naphthalene	< 0.052	0.052		11/15/2001	GG
	Nitrobenzene	< 0.0501	0.0501		11/15/2001	GG
	o-Cresol	< 0.0757	0.0757		11/15/2001	GG
	Pentachlorophenol	< 0.0777	0.0777		11/15/2001	GG
	Phenanthrene	< 0.0337	0.0337		11/15/2001	GG
	Phenol	< 0.0474	0.0474		11/15/2001	GG
	Pyrene	< 0.0198	0.0198		11/15/2001	GG

Analytes reported on dry weight basis except for Moisture.
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ANALYTICAL REPORT

Field ID		NTC1-SB2				
Lab Number		01110255-12				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	15.3	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	7.02	0.34	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	48	0.378	mg/Kg-dry	11/15/2001	ML
SW6010B	Cadmium	1.11	0.662	mg/Kg-dry	11/15/2001	ML
SW6010B	Chromium	12.6	1.51	mg/Kg-dry	11/15/2001	ML
SW6010B	Lead	8.72	3.97	mg/Kg-dry	11/15/2001	ML
SW7470a	Mercury	< 0.0553	0.0553	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.253	0.253	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 2.4	2.4	mg/Kg-dry	11/15/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	XN
	1,1,1-Trichloroethane	< 0.011	0.011		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.013	0.013		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.00898	0.00898		11/14/2001	XN
	1,1-Dichloroethane	< 0.00798	0.00798		11/14/2001	XN
	1,1-Dichloroethene	< 0.011	0.011		11/14/2001	XN
	1,1-Dichloropropene	< 0.00898	0.00898		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.0499	0.0499		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.011	0.011		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.0499	0.0499		11/14/2001	XN
	1,2,4-Trimethylbenzene	0.0796	0.012		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.0499	0.0499		11/14/2001	XN
	1,2-Dibromoethane	< 0.00698	0.00698		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.016	0.016		11/14/2001	XN
	1,2-Dichloroethane	< 0.012	0.012		11/14/2001	XN
	1,2-Dichloropropane	< 0.00798	0.00798		11/14/2001	XN
	1,3,5-Trimethylbenzene	0.0293	0.014		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.015	0.015		11/14/2001	XN
	1,3-Dichloropropane	< 0.00997	0.00997		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.015	0.015		11/14/2001	XN
	2,2-Dichloropropane	< 0.012	0.012		11/14/2001	XN
	2-Butanone	< 0.0997	0.0997		11/14/2001	XN
	2-Chlorotoluene	< 0.00997	0.00997		11/14/2001	XN
	2-Hexanone	< 0.00798	0.00798		11/14/2001	XN
	4-Chlorotoluene	< 0.00997	0.00997		11/14/2001	XN
	4-Isopropyltoluene	< 0.013	0.013		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.0997	0.0997		11/14/2001	XN
	Acetone	< 0.299	0.299		11/14/2001	XN
	Benzene	0.0646	0.00698		11/14/2001	XN
	Bromobenzene	< 0.012	0.012		11/14/2001	XN

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Sampled: 11/1-8/01
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ANALYTICAL REPORT

Field ID		**NTC1-SB2**				
Lab Number		**01110255-12**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromochloromethane	< 0.019	0.019		11/14/2001	XN
	Bromodichloromethane	< 0.00698	0.00698		11/14/2001	XN
	Bromoform	< 0.0499	0.0499		11/14/2001	XN
	Bromomethane	< 0.014	0.014		11/14/2001	XN
	Carbon disulfide	< 0.012	0.012		11/14/2001	XN
	Carbon tetrachloride	< 0.017	0.017		11/14/2001	XN
	Chlorobenzene	< 0.012	0.012		11/14/2001	XN
	Chloroethane	< 0.018	0.018		11/14/2001	XN
	Chloroform	< 0.013	0.013		11/14/2001	XN
	Chloromethane	< 0.0379	0.0379		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.011	0.011		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.00698	0.00698		11/14/2001	XN
	Dibromochloromethane	< 0.012	0.012		11/14/2001	XN
	Dibromomethane	< 0.014	0.014		11/14/2001	XN
	Dichlorodifluoromethane	< 0.0499	0.0499		11/14/2001	XN
	Ethylbenzene	0.127	0.014		11/14/2001	XN
	Hexachlorobutadiene	< 0.0997	0.0997		11/14/2001	XN
	Isopropylbenzene	< 0.013	0.013		11/14/2001	XN
	m,p-Xylene	0.134	0.0239		11/14/2001	XN
	Methyl tert-butyl ether	< 0.0499	0.0499		11/14/2001	XN
	Methylene chloride	< 0.0269	0.0269		11/14/2001	XN
	n-Butylbenzene	< 0.0279	0.0279		11/14/2001	XN
	n-Propylbenzene	< 0.016	0.016		11/14/2001	XN
	Naphthalene	< 0.0199	0.0199		11/14/2001	XN
	o-Xylene	< 0.0499	0.0499		11/14/2001	XN
	sec-Butylbenzene	< 0.0209	0.0209		11/14/2001	XN
	Styrene	< 0.011	0.011		11/14/2001	XN
	tert-Butylbenzene	< 0.011	0.011		11/14/2001	XN
	Tetrachloroethene	< 0.016	0.016		11/14/2001	XN
	Toluene	0.0291	0.0159		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.011	0.011		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.00598	0.00598		11/14/2001	XN
	Trichloroethene	< 0.00997	0.00997		11/14/2001	XN
	Trichlorofluoromethane	< 0.011	0.011		11/14/2001	XN
	Vinyl chloride	< 0.013	0.013		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.0635	0.0635		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.0503	0.0503		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.0575	0.0575		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.0595	0.0595		11/15/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
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Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC1-SB2				
Lab Number		01110255-12				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0528	0.0528		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.0375	0.0375		11/15/2001	GG
	2,4-Dichlorophenol	< 0.0574	0.0574		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0282	0.0282		11/15/2001	GG
	2,4-Dinitrophenol	< 0.0923	0.0923		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.0322	0.0322		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.0252	0.0252		11/15/2001	GG
	2-Chloronaphthalene	< 0.0403	0.0403		11/15/2001	GG
	2-Chlorophenol	< 0.0471	0.0471		11/15/2001	GG
	2-Methylnaphthalene	< 0.0482	0.0482		11/15/2001	GG
	2-Nitroaniline	< 0.0477	0.0477		11/15/2001	GG
	2-Nitrophenol	< 0.0951	0.0951		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.137	0.137		11/15/2001	GG
	3-Nitroaniline	< 0.0783	0.0783		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0923	0.0923		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.0429	0.0429		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.0394	0.0394		11/15/2001	GG
	4-Chloroaniline	< 0.0278	0.0278		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0549	0.0549		11/15/2001	GG
	4-Nitroaniline	< 0.105	0.105		11/15/2001	GG
	4-Nitrophenol	< 0.0423	0.0423		11/15/2001	GG
	Acenaphthene	< 0.0475	0.0475		11/15/2001	GG
	Acenaphthylene	< 0.0351	0.0351		11/15/2001	GG
	Anthracene	< 0.0248	0.0248		11/15/2001	GG
	Benz(a)anthracene	< 0.038	0.038		11/15/2001	GG
	Benzo(a)pyrene	< 0.0472	0.0472		11/15/2001	GG
	Benzo(b+k)fluoranthene	< 0.0302	0.0302		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.0306	0.0306		11/15/2001	GG
	Benzyl alcohol	< 0.0699	0.0699		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0565	0.0565		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.0608	0.0608		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0726	0.0726		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0412	0.0412		11/15/2001	GG
	Butyl benzyl phthalate	< 0.0385	0.0385		11/15/2001	GG
	Chrysene	< 0.0383	0.0383		11/15/2001	GG
	Di-n-butyl phthalate	< 0.0522	0.0522		11/15/2001	GG
	Di-n-octyl phthalate	< 0.0294	0.0294		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.0405	0.0405		11/15/2001	GG
	Dibenzofuran	< 0.0409	0.0409		11/15/2001	GG
	Diethyl phthalate	< 0.036	0.036		11/15/2001	GG
	Dimethyl phthalate	< 0.0406	0.0406		11/15/2001	GG

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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
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ANALYTICAL REPORT

Field ID		NTC1-SB2				
Lab Number		01110255-12				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	< 0.0242	0.0242		11/15/2001	GG
	Fluorene	< 0.0343	0.0343		11/15/2001	GG
	Hexachlorobenzene	< 0.0275	0.0275		11/15/2001	GG
	Hexachlorobutadiene	< 0.0706	0.0706		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0731	0.0731		11/15/2001	GG
	Hexachloroethane	< 0.0642	0.0642		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0372	0.0372		11/15/2001	GG
	Isophorone	< 0.0491	0.0491		11/15/2001	GG
	m,p-Cresol	< 0.0546	0.0546		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0789	0.0789		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.0949	0.0949		11/15/2001	GG
	Naphthalene	< 0.0512	0.0512		11/15/2001	GG
	Nitrobenzene	< 0.0494	0.0494		11/15/2001	GG
	o-Cresol	< 0.0746	0.0746		11/15/2001	GG
	Pentachlorophenol	< 0.0766	0.0766		11/15/2001	GG
	Phenanthrene	0.765	0.0332		11/15/2001	GG
	Phenol	< 0.0468	0.0468		11/15/2001	GG
	Pyrene	0.141	0.0195		11/15/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/15/2001	LBI
	Acenaphthene	0.0635	0.01		11/15/2001	LBI
	Acenaphthylene	< 0.0127	0.0127		11/15/2001	LBI
	Anthracene	0.0539	0.011		11/15/2001	LBI
	Benz(a)anthracene	0.0885	0.0555		11/15/2001	LBI
	Benzo(a)pyrene	< 0.0115	0.0115		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00351	0.00351		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00596	0.00596		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00325	0.00325		11/15/2001	LBI
	Chrysene	0.0959	0.0558		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00304	0.00304		11/15/2001	LBI
	Fluoranthene	0.782	0.0396		11/15/2001	LBI
	Fluorene	0.157	0.00732		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00505	0.00505		11/15/2001	LBI
	Naphthalene	0.0207	0.0133		11/15/2001	LBI
	Phenanthrene	0.414	0.0102		11/15/2001	LBI
	Pyrene	0.45	0.0894		11/15/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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ANALYTICAL REPORT

Field ID		NTC1-SB3				
Lab Number		01110255-13				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	20.6	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	3.97	0.374	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	44.2	0.411	mg/Kg-dry	11/15/2001	ML
SW6010B	Cadmium	1.07	0.72	mg/Kg-dry	11/15/2001	ML
SW6010B	Chromium	11.3	1.64	mg/Kg-dry	11/15/2001	ML
SW6010B	Lead	9.04	4.32	mg/Kg-dry	11/15/2001	ML
SW7470a	Mercury	< 0.059	0.059	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	0.306	0.278	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 0.98	0.98	mg/Kg-dry	11/15/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	XN
	1,1,1-Trichloroethane	< 0.0122	0.0122		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0144	0.0144		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.00995	0.00995		11/14/2001	XN
	1,1-Dichloroethane	< 0.00884	0.00884		11/14/2001	XN
	1,1-Dichloroethene	< 0.0122	0.0122		11/14/2001	XN
	1,1-Dichloropropene	< 0.00995	0.00995		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.0553	0.0553		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.0122	0.0122		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.0553	0.0553		11/14/2001	XN
	1,2,4-Trimethylbenzene	0.0871	0.0133		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.0553	0.0553		11/14/2001	XN
	1,2-Dibromoethane	< 0.00774	0.00774		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.0177	0.0177		11/14/2001	XN
	1,2-Dichloroethane	< 0.0133	0.0133		11/14/2001	XN
	1,2-Dichloropropane	< 0.00884	0.00884		11/14/2001	XN
	1,3,5-Trimethylbenzene	0.0308	0.0155		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.0166	0.0166		11/14/2001	XN
	1,3-Dichloropropane	< 0.0111	0.0111		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.0166	0.0166		11/14/2001	XN
	2,2-Dichloropropane	< 0.0133	0.0133		11/14/2001	XN
	2-Butanone	< 0.111	0.111		11/14/2001	XN
	2-Chlorotoluene	< 0.0111	0.0111		11/14/2001	XN
	2-Hexanone	< 0.00884	0.00884		11/14/2001	XN
	4-Chlorotoluene	< 0.0111	0.0111		11/14/2001	XN
	4-Isopropyltoluene	< 0.0144	0.0144		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.111	0.111		11/14/2001	XN
	Acetone	< 0.332	0.332		11/14/2001	XN
	Benzene	0.0695	0.00774		11/14/2001	XN
	Bromobenzene	< 0.0133	0.0133		11/14/2001	XN

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Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC1-SB3				
Lab Number		01110255-13				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.021	0.021		11/14/2001	XN
	Bromodichloromethane	< 0.00774	0.00774		11/14/2001	XN
	Bromoform	< 0.0553	0.0553		11/14/2001	XN
	Bromomethane	< 0.0155	0.0155		11/14/2001	XN
	Carbon disulfide	< 0.0133	0.0133		11/14/2001	XN
	Carbon tetrachloride	< 0.0188	0.0188		11/14/2001	XN
	Chlorobenzene	< 0.0133	0.0133		11/14/2001	XN
	Chloroethane	< 0.0199	0.0199		11/14/2001	XN
	Chloroform	< 0.0144	0.0144		11/14/2001	XN
	Chloromethane	< 0.042	0.042		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.0122	0.0122		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.00774	0.00774		11/14/2001	XN
	Dibromochloromethane	< 0.0133	0.0133		11/14/2001	XN
	Dibromomethane	< 0.0155	0.0155		11/14/2001	XN
	Dichlorodifluoromethane	< 0.0553	0.0553		11/14/2001	XN
	Ethylbenzene	0.126	0.0155		11/14/2001	XN
	Hexachlorobutadiene	< 0.111	0.111		11/14/2001	XN
	Isopropylbenzene	< 0.0144	0.0144		11/14/2001	XN
	m,p-Xylene	0.155	0.0265		11/14/2001	XN
	Methyl tert-butyl ether	< 0.0553	0.0553		11/14/2001	XN
	Methylene chloride	0.0358	0.0298		11/14/2001	XN
	n-Butylbenzene	< 0.0309	0.0309		11/14/2001	XN
	n-Propylbenzene	< 0.0177	0.0177		11/14/2001	XN
	Naphthalene	< 0.0221	0.0221		11/14/2001	XN
	o-Xylene	< 0.0553	0.0553		11/14/2001	XN
	sec-Butylbenzene	< 0.0232	0.0232		11/14/2001	XN
	Styrene	< 0.0122	0.0122		11/14/2001	XN
	tert-Butylbenzene	< 0.0122	0.0122		11/14/2001	XN
	Tetrachloroethene	< 0.0177	0.0177		11/14/2001	XN
	Toluene	0.0285	0.0176		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.0122	0.0122		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.00663	0.00663		11/14/2001	XN
	Trichloroethene	< 0.0111	0.0111		11/14/2001	XN
	Trichlorofluoromethane	< 0.0122	0.0122		11/14/2001	XN
	Vinyl chloride	< 0.0144	0.0144		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.0514	0.0514		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.0407	0.0407		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.0465	0.0465		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.0481	0.0481		11/15/2001	GG

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ANALYTICAL REPORT

Field ID		NTC1-SB3				
Lab Number		01110255-13				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0427	0.0427		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.0303	0.0303		11/15/2001	GG
	2,4-Dichlorophenol	< 0.0464	0.0464		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0228	0.0228		11/15/2001	GG
	2,4-Dinitrophenol	< 0.0746	0.0746		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.026	0.026		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.0204	0.0204		11/15/2001	GG
	2-Chloronaphthalene	< 0.0326	0.0326		11/15/2001	GG
	2-Chlorophenol	< 0.0381	0.0381		11/15/2001	GG
	2-Methylnaphthalene	< 0.0389	0.0389		11/15/2001	GG
	2-Nitroaniline	< 0.0385	0.0385		11/15/2001	GG
	2-Nitrophenol	< 0.0768	0.0768		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.111	0.111		11/15/2001	GG
	3-Nitroaniline	< 0.0633	0.0633		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0746	0.0746		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.0347	0.0347		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.0318	0.0318		11/15/2001	GG
	4-Chloroaniline	< 0.0225	0.0225		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0444	0.0444		11/15/2001	GG
	4-Nitroaniline	< 0.0847	0.0847		11/15/2001	GG
	4-Nitrophenol	< 0.0342	0.0342		11/15/2001	GG
	Acenaphthene	< 0.0384	0.0384		11/15/2001	GG
	Acenaphthylene	< 0.0284	0.0284		11/15/2001	GG
	Anthracene	< 0.02	0.02		11/15/2001	GG
	Benz(a)anthracene	< 0.0307	0.0307		11/15/2001	GG
	Benzo(a)pyrene	< 0.0382	0.0382		11/15/2001	GG
	Benzo(b+k)fluoranthene	< 0.0244	0.0244		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.0247	0.0247		11/15/2001	GG
	Benzyl alcohol	< 0.0565	0.0565		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0456	0.0456		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.0491	0.0491		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0587	0.0587		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0333	0.0333		11/15/2001	GG
	Butyl benzyl phthalate	< 0.0311	0.0311		11/15/2001	GG
	Chrysene	< 0.031	0.031		11/15/2001	GG
	Di-n-butyl phthalate	< 0.0422	0.0422		11/15/2001	GG
	Di-n-octyl phthalate	< 0.0238	0.0238		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.0327	0.0327		11/15/2001	GG
	Dibenzofuran	< 0.0331	0.0331		11/15/2001	GG
	Diethyl phthalate	< 0.0291	0.0291		11/15/2001	GG
	Dimethyl phthalate	< 0.0328	0.0328		11/15/2001	GG

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ANALYTICAL REPORT

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Lab Number		**01110255-13**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluoranthene	< 0.0195	0.0195		11/15/2001	GG
	Fluorene	< 0.0277	0.0277		11/15/2001	GG
	Hexachlorobenzene	< 0.0223	0.0223		11/15/2001	GG
	Hexachlorobutadiene	< 0.0571	0.0571		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0591	0.0591		11/15/2001	GG
	Hexachloroethane	< 0.0519	0.0519		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0301	0.0301		11/15/2001	GG
	Isophorone	< 0.0397	0.0397		11/15/2001	GG
	m,p-Cresol	< 0.0441	0.0441		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0638	0.0638		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.0767	0.0767		11/15/2001	GG
	Naphthalene	< 0.0414	0.0414		11/15/2001	GG
	Nitrobenzene	< 0.0399	0.0399		11/15/2001	GG
	o-Cresol	< 0.0603	0.0603		11/15/2001	GG
	Pentachlorophenol	< 0.0619	0.0619		11/15/2001	GG
	Phenanthrene	< 0.0269	0.0269		11/15/2001	GG
	Phenol	< 0.0378	0.0378		11/15/2001	GG
	Pyrene	< 0.0158	0.0158		11/15/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/15/2001	LBI
	Acenaphthene	< 0.0107	0.0107		11/15/2001	LBI
	Acenaphthylene	< 0.0135	0.0135		11/15/2001	LBI
	Anthracene	< 0.0118	0.0118		11/15/2001	LBI
	Benz(a)anthracene	< 0.00592	0.00592		11/15/2001	LBI
	Benzo(a)pyrene	< 0.0122	0.0122		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00375	0.00375		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00636	0.00636		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00346	0.00346		11/15/2001	LBI
	Chrysene	< 0.00595	0.00595		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00324	0.00324		11/15/2001	LBI
	Fluoranthene	< 0.00422	0.00422		11/15/2001	LBI
	Fluorene	< 0.00781	0.00781		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00538	0.00538		11/15/2001	LBI
	Naphthalene	< 0.0142	0.0142		11/15/2001	LBI
	Phenanthrene	< 0.0109	0.0109		11/15/2001	LBI
	Pyrene	< 0.00954	0.00954		11/15/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC238-TP1**				
Lab Number		**01110255-14**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/14/2001	IK2
	Benzene	< 0.004	0.004		11/14/2001	IK2
	Ethylbenzene	< 0.003	0.003		11/14/2001	IK2
	Toluene	< 0.004	0.004		11/14/2001	IK2
	Xylenes, Total	< 0.007	0.007		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/15/2001	LBI
	Acenaphthylene	< 0.00024	0.00024		11/15/2001	LBI
	Anthracene	< 0.00004	0.00004		11/15/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00019	0.00019		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00005	0.00005		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/15/2001	LBI
	Fluoranthene	< 0.00023	0.00023		11/15/2001	LBI
	Fluorene	< 0.00006	0.00006		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/15/2001	LBI
	Naphthalene	< 0.00023	0.00023		11/15/2001	LBI
	Phenanthrene	< 0.00011	0.00011		11/15/2001	LBI
	Pyrene	< 0.00011	0.00011		11/15/2001	LBI

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC238-TP2**				
Lab Number		**01110255-15**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/14/2001	IK2
	Benzene	< 0.004	0.004		11/14/2001	IK2
	Ethylbenzene	< 0.003	0.003		11/14/2001	IK2
	Toluene	< 0.004	0.004		11/14/2001	IK2
	Xylenes, Total	< 0.007	0.007		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/15/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/15/2001	LBI
	Anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00019	0.00019		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00005	0.00005		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/15/2001	LBI
	Fluoranthene	< 0.00022	0.00022		11/15/2001	LBI
	Fluorene	< 0.00006	0.00006		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/15/2001	LBI
	Naphthalene	< 0.00022	0.00022		11/15/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/15/2001	LBI
	Pyrene	< 0.0001	0.0001		11/15/2001	LBI

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110255
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/1-8/01
Received: 11/09/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC238-TP3**				
Lab Number		**01110255-16**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
SW8021B	**BTEX by GC/PID**	---	---	mg/L	11/14/2001	IK2
	Benzene	< 0.004	0.004		11/14/2001	IK2
	Ethylbenzene	< 0.003	0.003		11/14/2001	IK2
	Toluene	< 0.004	0.004		11/14/2001	IK2
	Xylenes, Total	< 0.007	0.007		11/14/2001	IK2
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/15/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/15/2001	LBI
	Acenaphthylene	< 0.00023	0.00023		11/15/2001	LBI
	Anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/15/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/15/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/15/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/15/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/15/2001	LBI
	Chrysene	< 0.00005	0.00005		11/15/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/15/2001	LBI
	Fluoranthene	< 0.00022	0.00022		11/15/2001	LBI
	Fluorene	< 0.00006	0.00006		11/15/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/15/2001	LBI
	Naphthalene	< 0.00022	0.00022		11/15/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/15/2001	LBI
	Pyrene	< 0.0001	0.0001		11/15/2001	LBI

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1915 N. 12th St., P.O. Box 2186, Toledo, OH 43603-2186; Voice (419) 241-7175, Fax (419) 321-6259
Ship To Address: ATTN: RECEIVING LAB, 1810 N. 12th St., Toledo, OH 43624-1304; Voice (419) 241-7175, Fax (419) 241-1808
Sent From: ☐ Corporate ☐ Plymouth ☐ Pittsburgh ☒ Other GLNTC

Chain of Custody Record

38602 Page 1 of 2

Project No.: 41792.01
Client: U.S. Navy
P.O. No.:
Project/Location: Great Lakes Naval Training Center
Project Mgr.: Khush Mander
Sampler's Name: Lynn Smith
Phone No.: (847) 684-0697
Sampler's Signature: Lynn Smith MPG

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample ID ~~Sample Location~~	Total No. of Containers	BTEX	MTBE	PNAs	total Pb	sp/p Pb	metals	VOCs	B/N	Preserved Yes/No	LAB USE ONLY 01110255 Lab #
1	~~NTC-329~~	11/6/01		G	W	NTC-329-TP1 (other jars on previous coc rec'd 11/7/01 R)	1			No jar X			X	No jar X	No jar X		01110199-4C
2		11/6/01			W	NTC-329-TP3	1			No jar X			X	No jar X	No jar X		01110199-6C
3		11/7/01			W	NTC-229-TP1	~~4~~ 5			X			X	X	X		01ABCD
4		11/7/01			S	NTC-103-SB2	~~6~~ 4	X	X	X	X	X					02ABCD
5		11/7/01			W	NTC-103-TP3	4	X	X	X	X	X					03ABC
6		11/7/01			W	NTC-103-TP2	4	X	X	X	X	X					04ABC
7		11/8/01			S	NTC-106-SB1	2	X		X							05AB
8		11/8/01			S	NTC-106-SB2	2	X		X							06AB
9		11/8/01			S	NTC-106-SB3	2	X		X							07AB
10		11/7/01			W	NTC-144-TP1	3		X		X	X	X	X	No jar X		08AB

Item No.	Relinquished By:	Date	Time	Received By:	Date	Time
	Lynn Smith MPG	11/9/01	1400	[signature]	11/9/01	1400
	[signature]	11/9/01	1630	Armenta P. Budd	11/9/01	16:30
				[signature]	11-9-01	1800

LAB USE ONLY

Were samples delivered ☐ in person ☐ by courier
Were samples preserved ☐ in field ☐ in lab ☐ N/A
Temp of samples _____ °C
Did samples arrive intact and sealed? ☐ yes ☐ no ☐ N/A
Were proper containers used? ☐ yes ☐ no
Was container labeled properly for contents? ☐ yes ☐ no
Were samples packaged properly for type of material? ☐ yes ☐ no
Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
Comments: _____ TAT

Distribution: Orig[illegible] plus one accompanies shipment (white and yellow); copy to coor[illegible]

TOLTEST, INC.

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Ship To Address: ATTN: RECEIVING LAB, 1810 N. 12th St., Toledo, OH 43624-1304; Voice (419) 241-7175, Fax (419) 241-1808
Sent From: ☐ Corporate ☐ Plymouth ☐ Pittsburgh ☒ Other GLNTC

Chain of Custody Record

38603 Page 2 of 2

Project No.: 41792.01
Client: U.S. Navy
P.O. No.:
Project/Location: Great Lakes Naval Training Center
Project Mgr.: Khush Mander
Sampler's Name: Lynn Smith
Phone No.: (847) 689-0697
Sampler's Signature: [signature] MPG

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample ID ~~Sample Location~~	Total No. of Containers	BTEX	MTBE	PNAs	total Pb	sple Pb	metals	VOCs	B/N	Preserved Yes/No	LAB USE ONLY 01110255 Lab #
1		11/7/01		G	W	NTC-144-TP2	5		X	Heat a Jar	X	X	X	X	X		09ABCD
2		11/7/01			S	NTC-144-SB3	3		X		X	X	X	X	X		10ABC
3		11/7/01			S	NTC-144-SB2	3		X		X	X	X	X	X		11ABC
4		11/8/01			S	NTC-1-SB2	4			X			X	2-MBH X	X		12ABC
5		11/8/01			S	NTC-1-SB3	4			X			X	X	X		13ABC
6		11/1/01			W	NTC-238-TP1	3	X		X						-	14AB
7		11/1/01			W	NTC-238-TP2	3	X		X						-	15AB
8		11/1/01			W	NTC-238-TP3	3	X		X						-	16AB
9																	
10																	

Item No.	Relinquished By:	Date	Time	Received By:	Date	Time
	Lynn Smith MPG	11/9/01	1400	[signature]	11/9/01	1400
	[signature]	11/9/01	16:30	Arminta P. Pindoy	11/9/01	16:30
				[signature]	11-9-01	1800

LAB USE ONLY

Were samples delivered ☐ in person ☐ by courier
Were samples preserved ☐ in field ☐ in lab ☐ N/A
Temp of samples _____ °C
Did samples arrive intact and sealed? ☐ yes ☐ no ☐ N/A
Were proper containers used? ☐ yes ☐ no
Was container labeled properly for contents? ☐ yes ☐ no
Were samples packaged properly for type of material? ☐ yes ☐ no
Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no

Comments: _____

TAT

Distribution: Original plus one accompanies shipment (white and yellow) ...

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LABORATORY DATA REPORT

CLIENT

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/07/01
REPORTED	: 11/21/01
FILE ID#	: **01110199 01-06**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Annunta P Pudi

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-SB1				
Lab Number		01110199-1				
Description		5-7'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.1	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	2.34	0.339	mg/Kg-dry	11/10/2001	MG
SW6010B	Barium	31	0.373	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	< 0.653	0.653	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	13.5	1.49	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	7.8	3.92	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0581	0.0581	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.252	0.252	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 1.49	1.49	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00128	0.00128		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00128	0.00128		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00151	0.00151		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00105	0.00105		11/10/2001	XN
	1,1-Dichloroethane	< 0.00093	0.00093		11/10/2001	XN
	1,1-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	1,1-Dichloropropene	< 0.00105	0.00105		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00582	0.00582		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00128	0.00128		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00582	0.00582		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.0014	0.0014		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00582	0.00582		11/10/2001	XN
	1,2-Dibromoethane	< 0.00081	0.00081		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00186	0.00186		11/10/2001	XN
	1,2-Dichloroethane	< 0.0014	0.0014		11/10/2001	XN
	1,2-Dichloropropane	< 0.00093	0.00093		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00163	0.00163		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00175	0.00175		11/10/2001	XN
	1,3-Dichloropropane	< 0.00116	0.00116		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00175	0.00175		11/10/2001	XN
	2,2-Dichloropropane	< 0.0014	0.0014		11/10/2001	XN
	2-Butanone	< 0.0116	0.0116		11/10/2001	XN
	2-Chlorotoluene	< 0.00116	0.00116		11/10/2001	XN
	2-Hexanone	< 0.00093	0.00093		11/10/2001	XN
	4-Chlorotoluene	< 0.00116	0.00116		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0116	0.0116		11/10/2001	XN
	Acetone	< 0.0349	0.0349		11/10/2001	XN
	Benzene	< 0.00081	0.00081		11/10/2001	XN
	Bromobenzene	< 0.0014	0.0014		11/10/2001	XN

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC329-SB1**				
Lab Number		**01110199-1**				
Description		**5-7'**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromochloromethane	< 0.00221	0.00221		11/10/2001	XN
	Bromodichloromethane	< 0.00081	0.00081		11/10/2001	XN
	Bromoform	0.0124	0.00582		11/10/2001	XN
	Bromomethane	< 0.00163	0.00163		11/10/2001	XN
	Carbon disulfide	< 0.0014	0.0014		11/10/2001	XN
	Carbon tetrachloride	< 0.00198	0.00198		11/10/2001	XN
	Chlorobenzene	< 0.0014	0.0014		11/10/2001	XN
	Chloroethane	< 0.0021	0.0021		11/10/2001	XN
	Chloroform	< 0.00151	0.00151		11/10/2001	XN
	Chloromethane	< 0.00442	0.00442		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00081	0.00081		11/10/2001	XN
	Dibromochloromethane	< 0.0014	0.0014		11/10/2001	XN
	Dibromomethane	< 0.00163	0.00163		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00582	0.00582		11/10/2001	XN
	Ethylbenzene	< 0.00163	0.00163		11/10/2001	XN
	Hexachlorobutadiene	< 0.0116	0.0116		11/10/2001	XN
	Isopropyl Toluene	< 0.00058	0.00058		11/10/2001	XN
	Isopropylbenzene	< 0.00151	0.00151		11/10/2001	XN
	m,p-Xylene	< 0.00279	0.00279		11/10/2001	XN
	Methylene chloride	< 0.00314	0.00314		11/10/2001	XN
	n-Butylbenzene	< 0.00326	0.00326		11/10/2001	XN
	n-Propylbenzene	< 0.00186	0.00186		11/10/2001	XN
	Naphthalene	< 0.00233	0.00233		11/10/2001	XN
	o-Xylene	< 0.00582	0.00582		11/10/2001	XN
	sec-Butylbenzene	< 0.00244	0.00244		11/10/2001	XN
	Styrene	< 0.00128	0.00128		11/10/2001	XN
	tert-Butylbenzene	< 0.00128	0.00128		11/10/2001	XN
	Tetrachloroethene	< 0.00186	0.00186		11/10/2001	XN
	Toluene	< 0.00185	0.00185		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00128	0.00128		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.0007	0.0007		11/10/2001	XN
	Trichloroethene	< 0.00116	0.00116		11/10/2001	XN
	Trichlorofluoromethane	< 0.00128	0.00128		11/10/2001	XN
	Vinyl chloride	< 0.00151	0.00151		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	GG
	1,2,4-Trichlorobenzene	< 0.0632	0.0632		11/14/2001	GG
	1,2-Dichlorobenzene	< 0.0501	0.0501		11/14/2001	GG
	1,3-Dichlorobenzene	< 0.0573	0.0573		11/14/2001	GG
	1,4-Dichlorobenzene	< 0.0593	0.0593		11/14/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-SB1				
Lab Number		01110199-1				
Description		5-7'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0525	0.0525		11/14/2001	GG
	2,4,6-Trichlorophenol	< 0.0374	0.0374		11/14/2001	GG
	2,4-Dichlorophenol	< 0.0571	0.0571		11/14/2001	GG
	2,4-Dimethylphenol	< 0.028	0.028		11/14/2001	GG
	2,4-Dinitrophenol	< 0.0919	0.0919		11/14/2001	GG
	2,4-Dinitrotoluene	< 0.032	0.032		11/14/2001	GG
	2,6-Dinitrotoluene	< 0.0251	0.0251		11/14/2001	GG
	2-Chloronaphthalene	< 0.0401	0.0401		11/14/2001	GG
	2-Chlorophenol	< 0.0469	0.0469		11/14/2001	GG
	2-Methylnaphthalene	< 0.0479	0.0479		11/14/2001	GG
	2-Nitroaniline	< 0.0475	0.0475		11/14/2001	GG
	2-Nitrophenol	< 0.0946	0.0946		11/14/2001	GG
	3,3'-Dichlorobenzidine	< 0.136	0.136		11/14/2001	GG
	3-Nitroaniline	< 0.0779	0.0779		11/14/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0919	0.0919		11/14/2001	GG
	4-Bromophenyl phenyl ether	< 0.0427	0.0427		11/14/2001	GG
	4-Chloro-3-methylphenol	< 0.0392	0.0392		11/14/2001	GG
	4-Chloroaniline	< 0.0277	0.0277		11/14/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0547	0.0547		11/14/2001	GG
	4-Nitroaniline	< 0.104	0.104		11/14/2001	GG
	4-Nitrophenol	< 0.0421	0.0421		11/14/2001	GG
	Acenaphthene	< 0.0473	0.0473		11/14/2001	GG
	Acenaphthylene	< 0.0349	0.0349		11/14/2001	GG
	Anthracene	< 0.0247	0.0247		11/14/2001	GG
	Benz(a)anthracene	< 0.0378	0.0378		11/14/2001	GG
	Benzo(a)pyrene	< 0.047	0.047		11/14/2001	GG
	Benzo(b+k)fluoranthene	< 0.03	0.03		11/14/2001	GG
	Benzo(g,h,i)perylene	< 0.0305	0.0305		11/14/2001	GG
	Benzyl alcohol	< 0.0695	0.0695		11/14/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0562	0.0562		11/14/2001	GG
	Bis(2-chloroethyl)ether	< 0.0605	0.0605		11/14/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0723	0.0723		11/14/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.041	0.041		11/14/2001	GG
	Butyl benzyl phthalate	< 0.0383	0.0383		11/14/2001	GG
	Chrysene	< 0.0381	0.0381		11/14/2001	GG
	Di-n-butyl phthalate	< 0.0519	0.0519		11/14/2001	GG
	Di-n-octyl phthalate	< 0.0292	0.0292		11/14/2001	GG
	Dibenz(a,h)anthracene	< 0.0403	0.0403		11/14/2001	GG
	Dibenzofuran	< 0.0407	0.0407		11/14/2001	GG
	Diethyl phthalate	< 0.0358	0.0358		11/14/2001	GG
	Dimethyl phthalate	< 0.0404	0.0404		11/14/2001	GG

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-SB1				
Lab Number		01110199-1				
Description		5-7'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	< 0.024	0.024		11/14/2001	GG
	Fluorene	< 0.0341	0.0341		11/14/2001	GG
	Hexachlorobenzene	< 0.0274	0.0274		11/14/2001	GG
	Hexachlorobutadiene	< 0.0703	0.0703		11/14/2001	GG
	Hexachlorocyclopentadiene	< 0.0727	0.0727		11/14/2001	GG
	Hexachloroethane	< 0.0638	0.0638		11/14/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0371	0.0371		11/14/2001	GG
	Isophorone	< 0.0488	0.0488		11/14/2001	GG
	m,p-Cresol	< 0.0544	0.0544		11/14/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0785	0.0785		11/14/2001	GG
	N-Nitrosodiphenylamine	< 0.0945	0.0945		11/14/2001	GG
	Naphthalene	< 0.051	0.051		11/14/2001	GG
	Nitrobenzene	< 0.0491	0.0491		11/14/2001	GG
	o-Cresol	< 0.0743	0.0743		11/14/2001	GG
	Pentachlorophenol	< 0.0762	0.0762		11/14/2001	GG
	Phenanthrene	< 0.0331	0.0331		11/14/2001	GG
	Phenol	< 0.0465	0.0465		11/14/2001	GG
	Pyrene	< 0.0194	0.0194		11/14/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0191	0.0191		11/13/2001	LBI
	Acenaphthylene	< 0.0242	0.0242		11/13/2001	LBI
	Anthracene	< 0.021	0.021		11/13/2001	LBI
	Benz(a)anthracene	< 0.0106	0.0106		11/13/2001	LBI
	Benzo(a)pyrene	< 0.0218	0.0218		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00668	0.00668		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.0113	0.0113		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00618	0.00618		11/13/2001	LBI
	Chrysene	< 0.0106	0.0106		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00579	0.00579		11/13/2001	LBI
	Fluoranthene	< 0.00753	0.00753		11/13/2001	LBI
	Fluorene	< 0.0139	0.0139		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0096	0.0096		11/13/2001	LBI
	Naphthalene	< 0.0253	0.0253		11/13/2001	LBI
	Phenanthrene	< 0.0194	0.0194		11/13/2001	LBI
	Pyrene	< 0.017	0.017		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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ANALYTICAL REPORT

Field ID		NTC329-SB2				
Lab Number		01110199-02				
Description		4-6'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	14.6	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	5.53	0.341	mg/Kg-dry	11/14/2001	MG
SW6010B	Barium	34.8	0.371	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	1.12	0.65	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	11.1	1.48	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	13.2	3.9	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0516	0.0516	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.254	0.254	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 2.79	2.79	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00129	0.00129		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00152	0.00152		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00105	0.00105		11/10/2001	XN
	1,1-Dichloroethane	< 0.00094	0.00094		11/10/2001	XN
	1,1-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	1,1-Dichloropropene	< 0.00105	0.00105		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00585	0.00585		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00129	0.00129		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00585	0.00585		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00585	0.00585		11/10/2001	XN
	1,2-Dibromoethane	< 0.00082	0.00082		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00187	0.00187		11/10/2001	XN
	1,2-Dichloroethane	< 0.00141	0.00141		11/10/2001	XN
	1,2-Dichloropropane	< 0.00094	0.00094		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	1,3-Dichloropropane	< 0.00117	0.00117		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00176	0.00176		11/10/2001	XN
	2,2-Dichloropropane	< 0.00141	0.00141		11/10/2001	XN
	2-Butanone	< 0.0117	0.0117		11/10/2001	XN
	2-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	2-Hexanone	< 0.00094	0.00094		11/10/2001	XN
	4-Chlorotoluene	< 0.00117	0.00117		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0117	0.0117		11/10/2001	XN
	Acetone	< 0.0351	0.0351		11/10/2001	XN
	Benzene	0.00097	0.00082		11/10/2001	XN
	Bromobenzene	< 0.00141	0.00141		11/10/2001	XN

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First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
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ANALYTICAL REPORT

Field ID		NTC329-SB2				
Lab Number		01110199-02				
Description		4-6'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00222	0.00222		11/10/2001	XN
	Bromodichloromethane	< 0.00082	0.00082		11/10/2001	XN
	Bromoform	0.0238	0.00585		11/10/2001	XN
	Bromomethane	< 0.00164	0.00164		11/10/2001	XN
	Carbon disulfide	< 0.00141	0.00141		11/10/2001	XN
	Carbon tetrachloride	< 0.00199	0.00199		11/10/2001	XN
	Chlorobenzene	< 0.00141	0.00141		11/10/2001	XN
	Chloroethane	< 0.00211	0.00211		11/10/2001	XN
	Chloroform	< 0.00152	0.00152		11/10/2001	XN
	Chloromethane	< 0.00445	0.00445		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00082	0.00082		11/10/2001	XN
	Dibromochloromethane	< 0.00141	0.00141		11/10/2001	XN
	Dibromomethane	< 0.00164	0.00164		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00585	0.00585		11/10/2001	XN
	Ethylbenzene	< 0.00164	0.00164		11/10/2001	XN
	Hexachlorobutadiene	< 0.0117	0.0117		11/10/2001	XN
	Isopropyl Toluene	< 0.00058	0.00058		11/10/2001	XN
	Isopropylbenzene	< 0.00152	0.00152		11/10/2001	XN
	m,p-Xylene	< 0.00281	0.00281		11/10/2001	XN
	Methylene chloride	< 0.00316	0.00316		11/10/2001	XN
	n-Butylbenzene	< 0.00328	0.00328		11/10/2001	XN
	n-Propylbenzene	< 0.00187	0.00187		11/10/2001	XN
	Naphthalene	< 0.00234	0.00234		11/10/2001	XN
	o-Xylene	< 0.00585	0.00585		11/10/2001	XN
	sec-Butylbenzene	< 0.00246	0.00246		11/10/2001	XN
	Styrene	< 0.00129	0.00129		11/10/2001	XN
	tert-Butylbenzene	< 0.00129	0.00129		11/10/2001	XN
	Tetrachloroethene	< 0.00187	0.00187		11/10/2001	XN
	Toluene	0.00187	0.00186		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00129	0.00129		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.0007	0.0007		11/10/2001	XN
	Trichloroethene	< 0.00117	0.00117		11/10/2001	XN
	Trichlorofluoromethane	< 0.00129	0.00129		11/10/2001	XN
	Vinyl chloride	< 0.00152	0.00152		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/15/2001	GG
	1,2,4-Trichlorobenzene	< 0.0472	0.0472		11/15/2001	GG
	1,2-Dichlorobenzene	< 0.0374	0.0374		11/15/2001	GG
	1,3-Dichlorobenzene	< 0.0427	0.0427		11/15/2001	GG
	1,4-Dichlorobenzene	< 0.0442	0.0442		11/15/2001	GG

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ANALYTICAL REPORT

Field ID		NTC329-SB2				
Lab Number		01110199-02				
Description		4-6'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0392	0.0392		11/15/2001	GG
	2,4,6-Trichlorophenol	< 0.0279	0.0279		11/15/2001	GG
	2,4-Dichlorophenol	< 0.0426	0.0426		11/15/2001	GG
	2,4-Dimethylphenol	< 0.0209	0.0209		11/15/2001	GG
	2,4-Dinitrophenol	< 0.0686	0.0686		11/15/2001	GG
	2,4-Dinitrotoluene	< 0.0239	0.0239		11/15/2001	GG
	2,6-Dinitrotoluene	< 0.0187	0.0187		11/15/2001	GG
	2-Chloronaphthalene	< 0.0299	0.0299		11/15/2001	GG
	2-Chlorophenol	< 0.035	0.035		11/15/2001	GG
	2-Methylnaphthalene	< 0.0358	0.0358		11/15/2001	GG
	2-Nitroaniline	< 0.0354	0.0354		11/15/2001	GG
	2-Nitrophenol	< 0.0706	0.0706		11/15/2001	GG
	3,3'-Dichlorobenzidine	< 0.102	0.102		11/15/2001	GG
	3-Nitroaniline	< 0.0582	0.0582		11/15/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0686	0.0686		11/15/2001	GG
	4-Bromophenyl phenyl ether	< 0.0319	0.0319		11/15/2001	GG
	4-Chloro-3-methylphenol	< 0.0293	0.0293		11/15/2001	GG
	4-Chloroaniline	< 0.0207	0.0207		11/15/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0408	0.0408		11/15/2001	GG
	4-Nitroaniline	< 0.0778	0.0778		11/15/2001	GG
	4-Nitrophenol	< 0.0314	0.0314		11/15/2001	GG
	Acenaphthene	< 0.0353	0.0353		11/15/2001	GG
	Acenaphthylene	< 0.0261	0.0261		11/15/2001	GG
	Anthracene	< 0.0184	0.0184		11/15/2001	GG
	Benz(a)anthracene	0.043	0.0282		11/15/2001	GG
	Benzo(a)pyrene	< 0.0351	0.0351		11/15/2001	GG
	Benzo(b+k)fluoranthene	0.0528	0.0224		11/15/2001	GG
	Benzo(g,h,i)perylene	< 0.0227	0.0227		11/15/2001	GG
	Benzyl alcohol	< 0.0519	0.0519		11/15/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0419	0.0419		11/15/2001	GG
	Bis(2-chloroethyl)ether	< 0.0451	0.0451		11/15/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0539	0.0539		11/15/2001	GG
	Bis(2-ethylhexyl)phthalate	0.313	0.0306		11/15/2001	GG
	Butyl benzyl phthalate	0.0329	0.0286		11/15/2001	GG
	Chrysene	0.0482	0.0285		11/15/2001	GG
	Di-n-butyl phthalate	< 0.0387	0.0387		11/15/2001	GG
	Di-n-octyl phthalate	< 0.0218	0.0218		11/15/2001	GG
	Dibenz(a,h)anthracene	< 0.0301	0.0301		11/15/2001	GG
	Dibenzofuran	< 0.0304	0.0304		11/15/2001	GG
	Diethyl phthalate	< 0.0267	0.0267		11/15/2001	GG
	Dimethyl phthalate	< 0.0302	0.0302		11/15/2001	GG

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Field ID		NTC329-SB2				
Lab Number		01110199-02				
Description		4-6'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	0.135	0.0179		11/15/2001	GG
	Fluorene	< 0.0255	0.0255		11/15/2001	GG
	Hexachlorobenzene	< 0.0205	0.0205		11/15/2001	GG
	Hexachlorobutadiene	< 0.0525	0.0525		11/15/2001	GG
	Hexachlorocyclopentadiene	< 0.0543	0.0543		11/15/2001	GG
	Hexachloroethane	< 0.0477	0.0477		11/15/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0277	0.0277		11/15/2001	GG
	Isophorone	< 0.0365	0.0365		11/15/2001	GG
	m,p-Cresol	< 0.0406	0.0406		11/15/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0586	0.0586		11/15/2001	GG
	N-Nitrosodiphenylamine	< 0.0705	0.0705		11/15/2001	GG
	Naphthalene	< 0.0381	0.0381		11/15/2001	GG
	Nitrobenzene	< 0.0367	0.0367		11/15/2001	GG
	o-Cresol	< 0.0554	0.0554		11/15/2001	GG
	Pentachlorophenol	< 0.0569	0.0569		11/15/2001	GG
	Phenanthrene	0.0672	0.0247		11/15/2001	GG
	Phenol	< 0.0347	0.0347		11/15/2001	GG
	Pyrene	0.109	0.0145		11/15/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0199	0.0199		11/13/2001	LBI
	Acenaphthylene	< 0.0251	0.0251		11/13/2001	LBI
	Anthracene	< 0.0219	0.0219		11/13/2001	LBI
	Benz(a)anthracene	< 0.011	0.011		11/13/2001	LBI
	Benzo(a)pyrene	< 0.0227	0.0227		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00696	0.00696		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.0118	0.0118		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00643	0.00643		11/13/2001	LBI
	Chrysene	< 0.0111	0.0111		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00602	0.00602		11/13/2001	LBI
	Fluoranthene	< 0.00783	0.00783		11/13/2001	LBI
	Fluorene	< 0.0145	0.0145		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.01	0.01		11/13/2001	LBI
	Naphthalene	< 0.0264	0.0264		11/13/2001	LBI
	Phenanthrene	< 0.0202	0.0202		11/13/2001	LBI
	Pyrene	< 0.0177	0.0177		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

NALYTICAL REPORT

Field ID		NTC329-SB3				
Lab Number		01110199-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
2540G	Percent Moisture	17.1	0.1	% (Percent)	11/11/2001	RM2
SW7060A	Arsenic	17.1	0.354	mg/Kg-dry	11/10/2001	MG
SW6010B	Barium	34.9	0.398	mg/Kg-dry	11/13/2001	ML
SW6010B	Cadmium	1.69	0.696	mg/Kg-dry	11/13/2001	ML
SW6010B	Chromium	11.7	1.59	mg/Kg-dry	11/13/2001	ML
SW6010B	Lead	10.4	4.18	mg/Kg-dry	11/13/2001	ML
SW7470a	Mercury	< 0.0603	0.0603	mg/Kg-dry	11/13/2001	ES
SW7740	Selenium	< 0.264	0.264	mg/Kg-dry	11/13/2001	IG
SW6010B	Silver	< 2.99	2.99	mg/Kg-dry	11/13/2001	ML
SW8260B	**Volatiles by GC/MS**	---	---	mg/Kg-dry	11/10/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,1-Trichloroethane	< 0.00133	0.00133		11/10/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.00157	0.00157		11/10/2001	XN
	1,1,2-Trichloroethane	< 0.00109	0.00109		11/10/2001	XN
	1,1-Dichloroethane	< 0.00096	0.00096		11/10/2001	XN
	1,1-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	1,1-Dichloropropene	< 0.00109	0.00109		11/10/2001	XN
	1,2,3-Trichlorobenzene	< 0.00603	0.00603		11/10/2001	XN
	1,2,3-Trichloropropane	< 0.00133	0.00133		11/10/2001	XN
	1,2,4-Trichlorobenzene	< 0.00603	0.00603		11/10/2001	XN
	1,2,4-Trimethylbenzene	< 0.00145	0.00145		11/10/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.00603	0.00603		11/10/2001	XN
	1,2-Dibromoethane	< 0.00084	0.00084		11/10/2001	XN
	1,2-Dichlorobenzene	< 0.00193	0.00193		11/10/2001	XN
	1,2-Dichloroethane	< 0.00145	0.00145		11/10/2001	XN
	1,2-Dichloropropane	< 0.00096	0.00096		11/10/2001	XN
	1,3,5-Trimethylbenzene	< 0.00169	0.00169		11/10/2001	XN
	1,3-Dichlorobenzene	< 0.00181	0.00181		11/10/2001	XN
	1,3-Dichloropropane	< 0.00121	0.00121		11/10/2001	XN
	1,4-Dichlorobenzene	< 0.00181	0.00181		11/10/2001	XN
	2,2-Dichloropropane	< 0.00145	0.00145		11/10/2001	XN
	2-Butanone	< 0.0121	0.0121		11/10/2001	XN
	2-Chlorotoluene	< 0.00121	0.00121		11/10/2001	XN
	2-Hexanone	< 0.00096	0.00096		11/10/2001	XN
	4-Chlorotoluene	< 0.00121	0.00121		11/10/2001	XN
	4-Methyl-2-pentanone	< 0.0121	0.0121		11/10/2001	XN
	Acetone	< 0.0362	0.0362		11/10/2001	XN
	Benzene	0.00192	0.00084		11/10/2001	XN
	Bromobenzene	< 0.00145	0.00145		11/10/2001	XN

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1000 Northpointe Bldv.
Waukegan, IL 60085
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Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-SB3				
Lab Number		01110199-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromochloromethane	< 0.00329	0.00329		11/10/2001	XN
	Bromodichloromethane	< 0.00084	0.00084		11/10/2001	XN
	Bromoform	0.0614	0.00603		11/10/2001	XN
	Bromomethane	< 0.00169	0.00169		11/10/2001	XN
	Carbon disulfide	< 0.00145	0.00145		11/10/2001	XN
	Carbon tetrachloride	< 0.00205	0.00205		11/10/2001	XN
	Chlorobenzene	< 0.00145	0.00145		11/10/2001	XN
	Chloroethane	< 0.00217	0.00217		11/10/2001	XN
	Chloroform	< 0.00157	0.00157		11/10/2001	XN
	Chloromethane	< 0.00458	0.00458		11/10/2001	XN
	cis-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	cis-1,3-Dichloropropene	< 0.00084	0.00084		11/10/2001	XN
	Dibromochloromethane	0.0027	0.00145		11/10/2001	XN
	Dibromomethane	< 0.00169	0.00169		11/10/2001	XN
	Dichlorodifluoromethane	< 0.00603	0.00603		11/10/2001	XN
	Ethylbenzene	< 0.00169	0.00169		11/10/2001	XN
	Hexachlorobutadiene	< 0.0121	0.0121		11/10/2001	XN
	Isopropyl Toluene	< 0.0006	0.0006		11/10/2001	XN
	Isopropylbenzene	< 0.00157	0.00157		11/10/2001	XN
	m,p-Xylene	< 0.0029	0.0029		11/10/2001	XN
	Methylene chloride	< 0.00326	0.00326		11/10/2001	XN
	n-Butylbenzene	< 0.00338	0.00338		11/10/2001	XN
	n-Propylbenzene	< 0.00193	0.00193		11/10/2001	XN
	Naphthalene	< 0.00241	0.00241		11/10/2001	XN
	o-Xylene	< 0.00603	0.00603		11/10/2001	XN
	sec-Butylbenzene	< 0.00253	0.00253		11/10/2001	XN
	Styrene	< 0.00133	0.00133		11/10/2001	XN
	tert-Butylbenzene	< 0.00133	0.00133		11/10/2001	XN
	Tetrachloroethene	< 0.00193	0.00193		11/10/2001	XN
	Toluene	0.00302	0.00192		11/10/2001	XN
	trans-1,2-Dichloroethene	< 0.00133	0.00133		11/10/2001	XN
	trans-1,3-Dichloropropene	< 0.00072	0.00072		11/10/2001	XN
	Trichloroethene	< 0.00121	0.00121		11/10/2001	XN
	Trichlorofluoromethane	< 0.00133	0.00133		11/10/2001	XN
	Vinyl chloride	< 0.00157	0.00157		11/10/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/Kg-dry	11/14/2001	GG
	1,2,4-Trichlorobenzene	< 0.0661	0.0661		11/14/2001	GG
	1,2-Dichlorobenzene	< 0.0524	0.0524		11/14/2001	GG
	1,3-Dichlorobenzene	< 0.0599	0.0599		11/14/2001	GG
	1,4-Dichlorobenzene	< 0.062	0.062		11/14/2001	GG

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Project No.: 41792.01

Sampled: 11/06/01
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NALYTICAL REPORT

Field ID		NTC329-SB3				
Lab Number		01110199-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,5-Trichlorophenol	< 0.0549	0.0549		11/14/2001	GG
	2,4,6-Trichlorophenol	< 0.0391	0.0391		11/14/2001	GG
	2,4-Dichlorophenol	< 0.0597	0.0597		11/14/2001	GG
	2,4-Dimethylphenol	< 0.0293	0.0293		11/14/2001	GG
	2,4-Dinitrophenol	< 0.0961	0.0961		11/14/2001	GG
	2,4-Dinitrotoluene	< 0.0335	0.0335		11/14/2001	GG
	2,6-Dinitrotoluene	< 0.0263	0.0263		11/14/2001	GG
	2-Chloronaphthalene	< 0.042	0.042		11/14/2001	GG
	2-Chlorophenol	< 0.049	0.049		11/14/2001	GG
	2-Methylnaphthalene	< 0.0501	0.0501		11/14/2001	GG
	2-Nitroaniline	< 0.0496	0.0496		11/14/2001	GG
	2-Nitrophenol	< 0.099	0.099		11/14/2001	GG
	3,3'-Dichlorobenzidine	< 0.142	0.142		11/14/2001	GG
	3-Nitroaniline	< 0.0815	0.0815		11/14/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0961	0.0961		11/14/2001	GG
	4-Bromophenyl phenyl ether	< 0.0447	0.0447		11/14/2001	GG
	4-Chloro-3-methylphenol	< 0.041	0.041		11/14/2001	GG
	4-Chloroaniline	< 0.029	0.029		11/14/2001	GG
	4-Chlorophenyl phenyl ether	< 0.0572	0.0572		11/14/2001	GG
	4-Nitroaniline	< 0.109	0.109		11/14/2001	GG
	4-Nitrophenol	< 0.044	0.044		11/14/2001	GG
	Acenaphthene	< 0.0495	0.0495		11/14/2001	GG
	Acenaphthylene	< 0.0365	0.0365		11/14/2001	GG
	Anthracene	< 0.0258	0.0258		11/14/2001	GG
	Benz(a)anthracene	< 0.0396	0.0396		11/14/2001	GG
	Benzo(a)pyrene	< 0.0492	0.0492		11/14/2001	GG
	Benzo(b+k)fluoranthene	< 0.0314	0.0314		11/14/2001	GG
	Benzo(g,h,i)perylene	< 0.0319	0.0319		11/14/2001	GG
	Benzyl alcohol	< 0.0727	0.0727		11/14/2001	GG
	Bis(2-chloroethoxy)methane	< 0.0588	0.0588		11/14/2001	GG
	Bis(2-chloroethyl)ether	< 0.0633	0.0633		11/14/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0756	0.0756		11/14/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.0429	0.0429		11/14/2001	GG
	Butyl benzyl phthalate	< 0.04	0.04		11/14/2001	GG
	Chrysene	< 0.0399	0.0399		11/14/2001	GG
	Di-n-butyl phthalate	< 0.0543	0.0543		11/14/2001	GG
	Di-n-octyl phthalate	< 0.0306	0.0306		11/14/2001	GG
	Dibenz(a,h)anthracene	< 0.0421	0.0421		11/14/2001	GG
	Dibenzofuran	< 0.0426	0.0426		11/14/2001	GG
	Diethyl phthalate	< 0.0375	0.0375		11/14/2001	GG
	Dimethyl phthalate	< 0.0423	0.0423		11/14/2001	GG

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Waukegan, IL 60085
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Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
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ANALYTICAL REPORT

Field ID		NTC329-SB3				
Lab Number		01110199-03				
Description		6-8'				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluoranthene	< 0.0251	0.0251		11/14/2001	GG
	Fluorene	< 0.0357	0.0357		11/14/2001	GG
	Hexachlorobenzene	< 0.0287	0.0287		11/14/2001	GG
	Hexachlorobutadiene	< 0.0735	0.0735		11/14/2001	GG
	Hexachlorocyclopentadiene	< 0.0761	0.0761		11/14/2001	GG
	Hexachloroethane	< 0.0668	0.0668		11/14/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.0388	0.0388		11/14/2001	GG
	Isophorone	< 0.0511	0.0511		11/14/2001	GG
	m,p-Cresol	< 0.0568	0.0568		11/14/2001	GG
	N-Nitrosodi-n-propylamine	< 0.0821	0.0821		11/14/2001	GG
	N-Nitrosodiphenylamine	< 0.0988	0.0988		11/14/2001	GG
	Naphthalene	< 0.0533	0.0533		11/14/2001	GG
	Nitrobenzene	< 0.0514	0.0514		11/14/2001	GG
	o-Cresol	< 0.0777	0.0777		11/14/2001	GG
	Pentachlorophenol	< 0.0797	0.0797		11/14/2001	GG
	Phenanthrene	< 0.0346	0.0346		11/14/2001	GG
	Phenol	< 0.0487	0.0487		11/14/2001	GG
	Pyrene	< 0.0203	0.0203		11/14/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/Kg-dry	11/13/2001	LBI
	Acenaphthene	< 0.0201	0.0201		11/13/2001	LBI
	Acenaphthylene	< 0.0254	0.0254		11/13/2001	LBI
	Anthracene	< 0.0221	0.0221		11/13/2001	LBI
	Benz(a)anthracene	< 0.0111	0.0111		11/13/2001	LBI
	Benzo(a)pyrene	< 0.0329	0.0329		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00702	0.00702		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.0119	0.0119		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00649	0.00649		11/13/2001	LBI
	Chrysene	< 0.0111	0.0111		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00607	0.00607		11/13/2001	LBI
	Fluoranthene	< 0.0079	0.0079		11/13/2001	LBI
	Fluorene	< 0.0146	0.0146		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.0101	0.0101		11/13/2001	LBI
	Naphthalene	< 0.0266	0.0266		11/13/2001	LBI
	Phenanthrene	< 0.0203	0.0203		11/13/2001	LBI
	Pyrene	< 0.0179	0.0179		11/13/2001	LBI

Analytes reported on dry weight basis except for Moisture.
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1000 Northpointe Bldv.
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Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-TP1				
Lab Number		01110199-04				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.151	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	< 0.003	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/14/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	XN
	2-Butanone	< 0.01	0.01		11/14/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/14/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	XN
	Acetone	< 0.04	0.04		11/14/2001	XN
	Benzene	< 0.0007	0.0007		11/14/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/14/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	XN

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Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
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ANALYTICAL REPORT

Field ID		NTC329-TP1				
Lab Number		01110199-04				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	XN
	Bromoform	< 0.005	0.005		11/14/2001	XN
	Bromomethane	< 0.0014	0.0014		11/14/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	XN
	Chloroethane	< 0.0018	0.0018		11/14/2001	XN
	Chloroform	< 0.0013	0.0013		11/14/2001	XN
	Chloromethane	< 0.0038	0.0038		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/14/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	XN
	Methylene chloride	< 0.0027	0.0027		11/14/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	XN
	Naphthalene	< 0.002	0.002		11/14/2001	XN
	o-Xylene	< 0.005	0.005		11/14/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	XN
	Styrene	< 0.0011	0.0011		11/14/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	XN
	Toluene	< 0.00159	0.00159		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	XN
	Trichloroethene	< 0.001	0.001		11/14/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/14/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/12/2001	GG
	1,2,4-Trichlorobenzene	< 0.00219	0.00219		11/12/2001	GG
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/12/2001	GG
	1,3-Dichlorobenzene	< 0.00169	0.00169		11/12/2001	GG
	1,4-Dichlorobenzene	< 0.00187	0.00187		11/12/2001	GG
	2,4,5-Trichlorophenol	< 0.00181	0.00181		11/12/2001	GG

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-TP1				
Lab Number		01110199-04				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,6-Trichlorophenol	< 0.00218	0.00218		11/12/2001	GG
	2,4-Dichlorophenol	< 0.00218	0.00218		11/12/2001	GG
	2,4-Dimethylphenol	< 0.0171	0.0171		11/12/2001	GG
	2,4-Dinitrophenol	< 0.0343	0.0343		11/12/2001	GG
	2,4-Dinitrotoluene	< 0.0343	0.0343		11/12/2001	GG
	2,6-Dinitrotoluene	< 0.00686	0.00686		11/12/2001	GG
	2-Chloronaphthalene	< 0.00118	0.00118		11/12/2001	GG
	2-Chlorophenol	< 0.00185	0.00185		11/12/2001	GG
	2-Methylnaphthalene	< 0.00226	0.00226		11/12/2001	GG
	2-Nitroaniline	< 0.00686	0.00686		11/12/2001	GG
	2-Nitrophenol	< 0.00278	0.00278		11/12/2001	GG
	3,3'-Dichlorobenzidine	< 0.0144	0.0144		11/12/2001	GG
	3-Nitroaniline	< 0.00686	0.00686		11/12/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0171	0.0171		11/12/2001	GG
	4-Bromophenyl phenyl ether	< 0.00194	0.00194		11/12/2001	GG
	4-Chloro-3-methylphenol	< 0.00185	0.00185		11/12/2001	GG
	4-Chloroaniline	< 0.0171	0.0171		11/12/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00195	0.00195		11/12/2001	GG
	4-Nitroaniline	< 0.00686	0.00686		11/12/2001	GG
	4-Nitrophenol	< 0.00686	0.00686		11/12/2001	GG
	Acenaphthene	< 0.00221	0.00221		11/12/2001	GG
	Acenaphthylene	< 0.00208	0.00208		11/12/2001	GG
	Anthracene	< 0.00162	0.00162		11/12/2001	GG
	Benz(a)anthracene	< 0.00223	0.00223		11/12/2001	GG
	Benzo(a)pyrene	< 0.00214	0.00214		11/12/2001	GG
	Benzo(b+k)fluoranthene	< 0.00423	0.00423		11/12/2001	GG
	Benzo(g,h,i)perylene	< 0.00283	0.00283		11/12/2001	GG
	Benzyl alcohol	0.00865	0.00239		11/12/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00312	0.00312		11/12/2001	GG
	Bis(2-chloroethyl)ether	< 0.00211	0.00211		11/12/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00273	0.00273		11/12/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00219	0.00219		11/12/2001	GG
	Butyl benzyl phthalate	< 0.00179	0.00179		11/12/2001	GG
	Chrysene	< 0.00265	0.00265		11/12/2001	GG
	Di-n-butyl phthalate	< 0.00193	0.00193		11/12/2001	GG
	Di-n-octyl phthalate	< 0.00176	0.00176		11/12/2001	GG
	Dibenz(a,h)anthracene	< 0.00202	0.00202		11/12/2001	GG
	Dibenzofuran	< 0.00203	0.00203		11/12/2001	GG
	Diethyl phthalate	< 0.0171	0.0171		11/12/2001	GG
	Dimethyl phthalate	< 0.00686	0.00686		11/12/2001	GG
	Fluoranthene	< 0.00173	0.00173		11/12/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
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First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

NALYTICAL REPORT

Field ID		**NTC329-TP1**				
Lab Number		**01110199-04**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluorene	< 0.00206	0.00206		11/12/2001	GG
	Hexachlorobenzene	< 0.0019	0.0019		11/12/2001	GG
	Hexachlorobutadiene	< 0.0343	0.0343		11/12/2001	GG
	Hexachlorocyclopentadiene	< 0.0343	0.0343		11/12/2001	GG
	Hexachloroethane	< 0.00169	0.00169		11/12/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00223	0.00223		11/12/2001	GG
	Isophorone	< 0.00219	0.00219		11/12/2001	GG
	m,p-Cresol	< 0.00686	0.00686		11/12/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00184	0.00184		11/12/2001	GG
	N-Nitrosodiphenylamine	< 0.00149	0.00149		11/12/2001	GG
	Naphthalene	< 0.00235	0.00235		11/12/2001	GG
	Nitrobenzene	< 0.00233	0.00233		11/12/2001	GG
	o-Cresol	< 0.00686	0.00686		11/12/2001	GG
	Pentachlorophenol	< 0.0343	0.0343		11/12/2001	GG
	Phenanthrene	< 0.00181	0.00181		11/12/2001	GG
	Phenol	< 0.0048	0.0048		11/12/2001	GG
	Pyrene	< 0.00171	0.00171		11/12/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/13/2001	LBI
	Acenaphthene	< 0.00009	0.00009		11/13/2001	LBI
	Acenaphthylene	< 0.00026	0.00026		11/13/2001	LBI
	Anthracene	< 0.00004	0.00004		11/13/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/13/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.00021	0.00021		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00006	0.00006		11/13/2001	LBI
	Chrysene	< 0.00005	0.00005		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/13/2001	LBI
	Fluoranthene	< 0.00025	0.00025		11/13/2001	LBI
	Fluorene	< 0.00006	0.00006		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00016	0.00016		11/13/2001	LBI
	Naphthalene	< 0.00025	0.00025		11/13/2001	LBI
	Phenanthrene	< 0.00012	0.00012		11/13/2001	LBI
	Pyrene	< 0.00012	0.00012		11/13/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
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Project No.: 41792.01

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ANALYTICAL REPORT

Field ID		NTC329-TP2				
Lab Number		01110199-05				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.048	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	< 0.003	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/09/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	XN
	2-Butanone	< 0.01	0.01		11/14/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/14/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	XN
	Acetone	< 0.04	0.04		11/14/2001	XN
	Benzene	< 0.0007	0.0007		11/14/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/14/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	XN

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Waukegan, IL 60085
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Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
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ANALYTICAL REPORT

Field ID		NTC329-TP2				
Lab Number		01110199-05				
Description		na				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	XN
	Bromoform	< 0.005	0.005		11/14/2001	XN
	Bromomethane	< 0.0014	0.0014		11/14/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	XN
	Chloroethane	< 0.0018	0.0018		11/14/2001	XN
	Chloroform	< 0.0013	0.0013		11/14/2001	XN
	Chloromethane	< 0.0038	0.0038		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/14/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	XN
	Methylene chloride	< 0.0027	0.0027		11/14/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	XN
	Naphthalene	< 0.002	0.002		11/14/2001	XN
	o-Xylene	< 0.005	0.005		11/14/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	XN
	Styrene	< 0.0011	0.0011		11/14/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	XN
	Toluene	< 0.00159	0.00159		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	XN
	Trichloroethene	< 0.001	0.001		11/14/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/14/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/14/2001	GG
	1,2,4-Trichlorobenzene	< 0.00177	0.00177		11/14/2001	GG
	1,2-Dichlorobenzene	< 0.00129	0.00129		11/14/2001	GG
	1,3-Dichlorobenzene	< 0.00136	0.00136		11/14/2001	GG
	1,4-Dichlorobenzene	< 0.00151	0.00151		11/14/2001	GG
	2,4,5-Trichlorophenol	< 0.00145	0.00145		11/14/2001	GG

Toltest, Inc.
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Project No.: 41792.01

Sampled: 11/06/01
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ANALYTICAL REPORT

Field ID		NTC329-TP2				
Lab Number		01110199-05				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,6-Trichlorophenol	< 0.00176	0.00176		11/14/2001	GG
	2,4-Dichlorophenol	< 0.00176	0.00176		11/14/2001	GG
	2,4-Dimethylphenol	< 0.0138	0.0138		11/14/2001	GG
	2,4-Dinitrophenol	< 0.0276	0.0276		11/14/2001	GG
	2,4-Dinitrotoluene	< 0.0276	0.0276		11/14/2001	GG
	2,6-Dinitrotoluene	< 0.00552	0.00552		11/14/2001	GG
	2-Chloronaphthalene	< 0.00095	0.00095		11/14/2001	GG
	2-Chlorophenol	< 0.00149	0.00149		11/14/2001	GG
	2-Methylnaphthalene	< 0.00182	0.00182		11/14/2001	GG
	2-Nitroaniline	< 0.00552	0.00552		11/14/2001	GG
	2-Nitrophenol	< 0.00224	0.00224		11/14/2001	GG
	3,3'-Dichlorobenzidine	< 0.0116	0.0116		11/14/2001	GG
	3-Nitroaniline	< 0.00552	0.00552		11/14/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0138	0.0138		11/14/2001	GG
	4-Bromophenyl phenyl ether	< 0.00156	0.00156		11/14/2001	GG
	4-Chloro-3-methylphenol	< 0.00149	0.00149		11/14/2001	GG
	4-Chloroaniline	< 0.0138	0.0138		11/14/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00157	0.00157		11/14/2001	GG
	4-Nitroaniline	< 0.00552	0.00552		11/14/2001	GG
	4-Nitrophenol	< 0.00552	0.00552		11/14/2001	GG
	Acenaphthene	< 0.00178	0.00178		11/14/2001	GG
	Acenaphthylene	< 0.00167	0.00167		11/14/2001	GG
	Anthracene	< 0.00131	0.00131		11/14/2001	GG
	Benz(a)anthracene	< 0.00179	0.00179		11/14/2001	GG
	Benzo(a)pyrene	< 0.00172	0.00172		11/14/2001	GG
	Benzo(b+k)fluoranthene	< 0.0034	0.0034		11/14/2001	GG
	Benzo(g,h,i)perylene	< 0.00228	0.00228		11/14/2001	GG
	Benzyl alcohol	< 0.00192	0.00192		11/14/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00251	0.00251		11/14/2001	GG
	Bis(2-chloroethyl)ether	< 0.0017	0.0017		11/14/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.0022	0.0022		11/14/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00177	0.00177		11/14/2001	GG
	Butyl benzyl phthalate	< 0.00144	0.00144		11/14/2001	GG
	Chrysene	< 0.00213	0.00213		11/14/2001	GG
	Di-n-butyl phthalate	< 0.00155	0.00155		11/14/2001	GG
	Di-n-octyl phthalate	< 0.00142	0.00142		11/14/2001	GG
	Dibenz(a,h)anthracene	< 0.00163	0.00163		11/14/2001	GG
	Dibenzofuran	< 0.00164	0.00164		11/14/2001	GG
	Diethyl phthalate	< 0.0138	0.0138		11/14/2001	GG
	Dimethyl phthalate	< 0.00552	0.00552		11/14/2001	GG
	Fluoranthene	< 0.00139	0.00139		11/14/2001	GG

Toltest, Inc.
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ANALYTICAL REPORT

Field ID		NTC329-TP2				
Lab Number		01110199-05				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Fluorene	< 0.00166	0.00166		11/14/2001	GG
	Hexachlorobenzene	< 0.00153	0.00153		11/14/2001	GG
	Hexachlorobutadiene	< 0.0276	0.0276		11/14/2001	GG
	Hexachlorocyclopentadiene	< 0.0276	0.0276		11/14/2001	GG
	Hexachloroethane	< 0.00136	0.00136		11/14/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00179	0.00179		11/14/2001	GG
	Isophorone	< 0.00177	0.00177		11/14/2001	GG
	m,p-Cresol	< 0.00552	0.00552		11/14/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00148	0.00148		11/14/2001	GG
	N-Nitrosodiphenylamine	< 0.0012	0.0012		11/14/2001	GG
	Naphthalene	< 0.00189	0.00189		11/14/2001	GG
	Nitrobenzene	< 0.00188	0.00188		11/14/2001	GG
	o-Cresol	< 0.00552	0.00552		11/14/2001	GG
	Pentachlorophenol	< 0.0276	0.0276		11/14/2001	GG
	Phenanthrene	< 0.00145	0.00145		11/14/2001	GG
	Phenol	< 0.00386	0.00386		11/14/2001	GG
	Pyrene	< 0.00138	0.00138		11/14/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/13/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/13/2001	LBI
	Acenaphthylene	< 0.00022	0.00022		11/13/2001	LBI
	Anthracene	< 0.00003	0.00003		11/13/2001	LBI
	Benz(a)anthracene	< 0.00003	0.00003		11/13/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.00009	0.00009		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.00018	0.00018		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/13/2001	LBI
	Chrysene	< 0.00004	0.00004		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00004	0.00004		11/13/2001	LBI
	Fluoranthene	< 0.00021	0.00021		11/13/2001	LBI
	Fluorene	< 0.00006	0.00006		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00013	0.00013		11/13/2001	LBI
	Naphthalene	< 0.00021	0.00021		11/13/2001	LBI
	Phenanthrene	< 0.0001	0.0001		11/13/2001	LBI
	Pyrene	< 0.0001	0.0001		11/13/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy

Arminta P. Priddy, Director of Laboratory Customer Service

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-TP3				
Lab Number		01110199-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
SW7060A	Arsenic	< 0.004	0.004	mg/L	11/14/2001	MG
SW6010B	Barium	0.09	0.008	mg/L	11/13/2001	AG
SW7131	Cadmium	< 0.0013	0.0013	mg/L	11/13/2001	IG
SW6010B	Chromium	< 0.124	0.124	mg/L	11/13/2001	AG
SW7421	Lead	< 0.003	0.003	mg/L	11/14/2001	MG
SW7470a	Mercury	< 0.0004	0.0004	mg/L	11/14/2001	ES
SW7740	Selenium	< 0.006	0.006	mg/L	11/13/2001	IG
SW6010B	Silver	< 0.042	0.042	mg/L	11/13/2001	AG
SW8260B	**Volatiles by GC/MS**	---	---	mg/L	11/14/2001	XN
	1,1,1,2-Tetrachloroethane	< 0.001	0.001		11/14/2001	XN
	1,1,1-Trichloroethane	< 0.0011	0.0011		11/14/2001	XN
	1,1,2,2-Tetrachloroethane	< 0.0013	0.0013		11/14/2001	XN
	1,1,2-Trichloroethane	< 0.0009	0.0009		11/14/2001	XN
	1,1-Dichloroethane	< 0.0008	0.0008		11/14/2001	XN
	1,1-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	1,1-Dichloropropene	< 0.0009	0.0009		11/14/2001	XN
	1,2,3-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,3-Trichloropropane	< 0.0011	0.0011		11/14/2001	XN
	1,2,4-Trichlorobenzene	< 0.005	0.005		11/14/2001	XN
	1,2,4-Trimethylbenzene	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dibromo-3-chloropropane	< 0.005	0.005		11/14/2001	XN
	1,2-Dibromoethane	< 0.0007	0.0007		11/14/2001	XN
	1,2-Dichlorobenzene	< 0.0016	0.0016		11/14/2001	XN
	1,2-Dichloroethane	< 0.0012	0.0012		11/14/2001	XN
	1,2-Dichloropropane	< 0.0008	0.0008		11/14/2001	XN
	1,3,5-Trimethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	1,3-Dichlorobenzene	< 0.001	0.001		11/14/2001	XN
	1,3-Dichloropropane	< 0.0007	0.0007		11/14/2001	XN
	1,4-Dichlorobenzene	< 0.0015	0.0015		11/14/2001	XN
	2,2-Dichloropropane	< 0.0012	0.0012		11/14/2001	XN
	2-Butanone	< 0.01	0.01		11/14/2001	XN
	2-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	2-Hexanone	< 0.0008	0.0008		11/14/2001	XN
	4-Chlorotoluene	< 0.001	0.001		11/14/2001	XN
	4-Methyl-2-pentanone	< 0.01	0.01		11/14/2001	XN
	Acetone	< 0.04	0.04		11/14/2001	XN
	Benzene	< 0.0007	0.0007		11/14/2001	XN
	Bromobenzene	< 0.0012	0.0012		11/14/2001	XN
	Bromochloromethane	< 0.0019	0.0019		11/14/2001	XN

Toltest, Inc.
000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

NALYTICAL REPORT

Field ID		NTC329-TP3				
Lab Number		01110199-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	Bromodichloromethane	< 0.0007	0.0007		11/14/2001	XN
	Bromoform	< 0.005	0.005		11/14/2001	XN
	Bromomethane	< 0.0014	0.0014		11/14/2001	XN
	Carbon disulfide	< 0.0012	0.0012		11/14/2001	XN
	Carbon tetrachloride	< 0.0017	0.0017		11/14/2001	XN
	Chlorobenzene	< 0.0012	0.0012		11/14/2001	XN
	Chloroethane	< 0.0018	0.0018		11/14/2001	XN
	Chloroform	< 0.0013	0.0013		11/14/2001	XN
	Chloromethane	< 0.0038	0.0038		11/14/2001	XN
	cis-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	cis-1,3-Dichloropropene	< 0.0007	0.0007		11/14/2001	XN
	Dibromochloromethane	< 0.0012	0.0012		11/14/2001	XN
	Dibromomethane	< 0.0014	0.0014		11/14/2001	XN
	Dichlorodifluoromethane	< 0.005	0.005		11/14/2001	XN
	Ethylbenzene	< 0.0014	0.0014		11/14/2001	XN
	Hexachlorobutadiene	< 0.01	0.01		11/14/2001	XN
	Isopropyl Toluene	< 0.0015	0.0015		11/14/2001	XN
	Isopropylbenzene	< 0.0013	0.0013		11/14/2001	XN
	m,p-Xylene	< 0.0024	0.0024		11/14/2001	XN
	Methylene chloride	< 0.0027	0.0027		11/14/2001	XN
	n-Butylbenzene	< 0.0028	0.0028		11/14/2001	XN
	n-Propylbenzene	< 0.0016	0.0016		11/14/2001	XN
	Naphthalene	< 0.002	0.002		11/14/2001	XN
	o-Xylene	< 0.005	0.005		11/14/2001	XN
	sec-Butylbenzene	< 0.0021	0.0021		11/14/2001	XN
	Styrene	< 0.0011	0.0011		11/14/2001	XN
	tert-Butylbenzene	< 0.0011	0.0011		11/14/2001	XN
	Tetrachloroethene	< 0.0016	0.0016		11/14/2001	XN
	Toluene	< 0.00159	0.00159		11/14/2001	XN
	trans-1,2-Dichloroethene	< 0.0011	0.0011		11/14/2001	XN
	trans-1,3-Dichloropropene	< 0.0006	0.0006		11/14/2001	XN
	Trichloroethene	< 0.001	0.001		11/14/2001	XN
	Trichlorofluoromethane	< 0.0011	0.0011		11/14/2001	XN
	Vinyl chloride	< 0.0013	0.0013		11/14/2001	XN
SW8270C	**Semivolatiles by GC/MS**	---	---	mg/L	11/14/2001	GG
	1,2,4-Trichlorobenzene	< 0.00254	0.00254		11/14/2001	GG
	1,2-Dichlorobenzene	< 0.00185	0.00185		11/14/2001	GG
	1,3-Dichlorobenzene	< 0.00196	0.00196		11/14/2001	GG
	1,4-Dichlorobenzene	< 0.00217	0.00217		11/14/2001	GG
	2,4,5-Trichlorophenol	< 0.00209	0.00209		11/14/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		NTC329-TP3				
Lab Number		01110199-06				
Description		na				
Method	Analyte	Result	Reporting Limit	Unit	Analysis Date	Analyst
	2,4,6-Trichlorophenol	< 0.00252	0.00252		11/14/2001	GG
	2,4-Dichlorophenol	< 0.00252	0.00252		11/14/2001	GG
	2,4-Dimethylphenol	< 0.0198	0.0198		11/14/2001	GG
	2,4-Dinitrophenol	< 0.0396	0.0396		11/14/2001	GG
	2,4-Dinitrotoluene	< 0.0396	0.0396		11/14/2001	GG
	2,6-Dinitrotoluene	< 0.00793	0.00793		11/14/2001	GG
	2-Chloronaphthalene	< 0.00136	0.00136		11/14/2001	GG
	2-Chlorophenol	< 0.00214	0.00214		11/14/2001	GG
	2-Methylnaphthalene	< 0.00262	0.00262		11/14/2001	GG
	2-Nitroaniline	< 0.00793	0.00793		11/14/2001	GG
	2-Nitrophenol	< 0.00321	0.00321		11/14/2001	GG
	3,3'-Dichlorobenzidine	< 0.0166	0.0166		11/14/2001	GG
	3-Nitroaniline	< 0.00793	0.00793		11/14/2001	GG
	4,6-Dinitro-2-methylphenol	< 0.0198	0.0198		11/14/2001	GG
	4-Bromophenyl phenyl ether	< 0.00225	0.00225		11/14/2001	GG
	4-Chloro-3-methylphenol	< 0.00214	0.00214		11/14/2001	GG
	4-Chloroaniline	< 0.0198	0.0198		11/14/2001	GG
	4-Chlorophenyl phenyl ether	< 0.00226	0.00226		11/14/2001	GG
	4-Nitroaniline	< 0.00793	0.00793		11/14/2001	GG
	4-Nitrophenol	< 0.00793	0.00793		11/14/2001	GG
	Acenaphthene	< 0.00255	0.00255		11/14/2001	GG
	Acenaphthylene	< 0.0024	0.0024		11/14/2001	GG
	Anthracene	< 0.00188	0.00188		11/14/2001	GG
	Benz(a)anthracene	< 0.00258	0.00258		11/14/2001	GG
	Benzo(a)pyrene	< 0.00247	0.00247		11/14/2001	GG
	Benzo(b+k)fluoranthene	< 0.00489	0.00489		11/14/2001	GG
	Benzo(g,h,i)perylene	< 0.00328	0.00328		11/14/2001	GG
	Benzyl alcohol	< 0.00276	0.00276		11/14/2001	GG
	Bis(2-chloroethoxy)methane	< 0.00361	0.00361		11/14/2001	GG
	Bis(2-chloroethyl)ether	< 0.00244	0.00244		11/14/2001	GG
	Bis(2-chloroisopropyl)ether	< 0.00316	0.00316		11/14/2001	GG
	Bis(2-ethylhexyl)phthalate	< 0.00254	0.00254		11/14/2001	GG
	Butyl benzyl phthalate	< 0.00207	0.00207		11/14/2001	GG
	Chrysene	< 0.00307	0.00307		11/14/2001	GG
	Di-n-butyl phthalate	< 0.00223	0.00223		11/14/2001	GG
	Di-n-octyl phthalate	< 0.00203	0.00203		11/14/2001	GG
	Dibenz(a,h)anthracene	< 0.00234	0.00234		11/14/2001	GG
	Dibenzofuran	< 0.00235	0.00235		11/14/2001	GG
	Diethyl phthalate	< 0.0198	0.0198		11/14/2001	GG
	Dimethyl phthalate	< 0.00793	0.00793		11/14/2001	GG
	Fluoranthene	< 0.002	0.002		11/14/2001	GG

Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110199
Sample Matrix: water
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/06/01
Received: 11/07/01
Date Reported: 11/21/01

ANALYTICAL REPORT

Field ID		**NTC329-TP3**				
Lab Number		**01110199-06**				
Description		**na**				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
	Fluorene	< 0.00238	0.00238		11/14/2001	GG
	Hexachlorobenzene	< 0.00219	0.00219		11/14/2001	GG
	Hexachlorobutadiene	< 0.0396	0.0396		11/14/2001	GG
	Hexachlorocyclopentadiene	< 0.0396	0.0396		11/14/2001	GG
	Hexachloroethane	< 0.00196	0.00196		11/14/2001	GG
	Indeno(1,2,3-cd)pyrene	< 0.00258	0.00258		11/14/2001	GG
	Isophorone	< 0.00254	0.00254		11/14/2001	GG
	m,p-Cresol	< 0.00793	0.00793		11/14/2001	GG
	N-Nitrosodi-n-propylamine	< 0.00213	0.00213		11/14/2001	GG
	N-Nitrosodiphenylamine	< 0.00172	0.00172		11/14/2001	GG
	Naphthalene	< 0.00272	0.00272		11/14/2001	GG
	Nitrobenzene	< 0.0027	0.0027		11/14/2001	GG
	o-Cresol	< 0.00793	0.00793		11/14/2001	GG
	Pentachlorophenol	< 0.0396	0.0396		11/14/2001	GG
	Phenanthrene	< 0.00209	0.00209		11/14/2001	GG
	Phenol	< 0.00555	0.00555		11/14/2001	GG
	Pyrene	< 0.00198	0.00198		11/14/2001	GG
SW8310	**Polynuclear Aromatics**	---	---	mg/L	11/13/2001	LBI
	Acenaphthene	< 0.00008	0.00008		11/13/2001	LBI
	Acenaphthylene	< 0.00024	0.00024		11/13/2001	LBI
	Anthracene	< 0.00004	0.00004		11/13/2001	LBI
	Benz(a)anthracene	< 0.00004	0.00004		11/13/2001	LBI
	Benzo(a)pyrene	< 0.00006	0.00006		11/13/2001	LBI
	Benzo(b)fluoranthene	< 0.0001	0.0001		11/13/2001	LBI
	Benzo(g,h,i)perylene	< 0.00019	0.00019		11/13/2001	LBI
	Benzo(k)fluoranthene	< 0.00005	0.00005		11/13/2001	LBI
	Chrysene	< 0.00005	0.00005		11/13/2001	LBI
	Dibenz(a,h)anthracene	< 0.00005	0.00005		11/13/2001	LBI
	Fluoranthene	< 0.00023	0.00023		11/13/2001	LBI
	Fluorene	< 0.00006	0.00006		11/13/2001	LBI
	Indeno(1,2,3-cd)pyrene	< 0.00014	0.00014		11/13/2001	LBI
	Naphthalene	< 0.00023	0.00023		11/13/2001	LBI
	Phenanthrene	< 0.00011	0.00011		11/13/2001	LBI
	Pyrene	< 0.00011	0.00011		11/13/2001	LBI

AEA Laboratories, Inc.

Arminta P. Priddy, Director of Laboratory Customer Service

Samples received after 3:00PM will be processed as received on the next business day (Mon.-Fri.).

AEA LABORATORIES, INC.

LABORATORY TESTING OF SOIL WATER AND HAZARDOUS WASTE

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524
Tel.: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST
Web: http://www.aeatest.com

CHAIN OF CUSTODY

Client: TolTest	Project Name: Relative Risk Ranking
Address: 1000 Northpointe Blvd Waukegan, IL 60085	Sampler Name: Lynn Smith
	Project #: 41792.01
Report to: Khush Mamtora	Time Period: 5 Day 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #(847) 689-0697 Fax #(847) 689-0698	Date Needed:

Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	01110199 AEA ID #
1 NTC-329-SB1(5-7)	S	11-6-01 0900	G	8	5 VOCs, B/N, PNA, Metals	01AB
2 NTC-329-SB2(4-6)	S	11-6-01 1000	G	8	5A 11/8	02AB
3 NTC329-SB3(6-8')	S	11-6-01 1100	G	8	5	03AB
4 NTC-329-TP1	W	11-6-01	G	4	4A Rec'd 11/9 No metals R 11/8	04ABC
5 NTC-329-TP2	W	11-6-01	G	5		05ABC
6 NTC-329-TP3	W	11-6-01 1500	G	4	Rec'd 11/9 No metals R 11/8	06ABC
7						
8						
9						
10						
11						
12						
13						
14						
15						

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated
Preservative Type:	Temp. of Container °C:

GLOSSARY:
MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept. R=Reject
CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W)
PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:	Date/Time: 11/7/01 11:35	Accepted by:	11/7 11:3
Relinquished by:	Date/Time: 11/7/01 4:30	Accepted by:	

Comments:

Page of

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laboratories inc.

LABORATORY DATA REPORT

CLIENT	**Toltest, Inc.** 1000 Northpointe Bldv. Waukegan, IL 60085

PROJECT NAME	: **Relative Risk Ranking UST Sites**
NUMBER#	: 41792.01
TASK ORDER	: PO 48336
ATTN	: **Khush Mander**
RECEIVED	: 11/12/01
REPORTED	: 11/19/01
FILE ID#	: **01110292 01-06**

PROJECT SUMMARY:

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, April 1998. Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

DIRECTOR OF LABORATORY CUSTOMER SERVICE Armintel Lidz

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Toltest, Inc.
1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110292
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/9/01
Received: 11/12/01
Date Reported: 11/19/01

ANALYTICAL REPORT

Field ID		NTC13-SB1				
Lab Number		01110292-01				
Description		4.5-6.5'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	14.4	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	14.9	3.97	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	0.007	0.004	mg/L	11/14/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	< 0.00069	0.00069		11/16/2001	GO
	Ethylbenzene	< 0.00138	0.00138		11/16/2001	GO
	Methyl tert-butyl ether	< 0.00494	0.00494		11/16/2001	GO
	Toluene	< 0.00157	0.00157		11/16/2001	GO
	Xylenes, Total	< 0.00494	0.00494		11/16/2001	GO

Field ID		NTC13-SB2				
Lab Number		01110292-02				
Description		5-7'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	15.9	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	8.98	4	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	< 0.004	0.004	mg/L	11/14/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	< 0.0311	0.0311		11/16/2001	GO
	Ethylbenzene	< 0.0622	0.0622		11/16/2001	GO
	Methyl tert-butyl ether	< 0.222	0.222		11/16/2001	GO
	Toluene	< 0.0706	0.0706		11/16/2001	GO
	Xylenes, Total	< 0.222	0.222		11/16/2001	GO

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110292
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/9/01
Received: 11/12/01
Date Reported: 11/19/01

ANALYTICAL REPORT

Field ID		NTC13-SB3				
Lab Number		01110292-03				
Description		8-10'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	17.4	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	10.8	4.11	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	0.012	0.004	mg/L	11/14/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	0.0011	0.00076		11/16/2001	GO
	Ethylbenzene	< 0.00152	0.00152		11/16/2001	GO
	Methyl tert-butyl ether	< 0.00543	0.00543		11/16/2001	GO
	Toluene	< 0.00173	0.00173		11/16/2001	GO
	Xylenes, Total	< 0.00543	0.00543		11/16/2001	GO

Field ID		NTC68H-SB1				
Lab Number		01110292-04				
Description		8-10'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	18.6	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	16.3	4.22	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	0.007	0.004	mg/L	11/19/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	< 0.0376	0.0376		11/16/2001	GO
	Ethylbenzene	2.54	0.0752		11/16/2001	GO
	Methyl tert-butyl ether	< 0.268	0.268		11/16/2001	GO
	Toluene	0.0922	0.0854		11/16/2001	GO
	Xylenes, Total	5.2	0.268		11/16/2001	GO

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1000 Northpointe Bldv.
Waukegan, IL 60085
Fax: (847) 689-0698
Attn: Khush Mander

First Lab Number: 01110292
Sample Matrix: Soil
Project Name: Relative Risk Ranking UST Sites
Project No.: 41792.01

Sampled: 11/9/01
Received: 11/12/01
Date Reported: 11/19/01

ANALYTICAL REPORT

Field ID		NTC68H-SB2				
Lab Number		01110292-05				
Description		6-8'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	16.1	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	12	4.17	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	00.006	0.004	mg/L	11/19/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	0.485	0.0344		11/16/2001	GO
	Ethylbenzene	24.1	0.0688		11/16/2001	GO
	Methyl tert-butyl ether	< 0.246	0.246		11/16/2001	GO
	Toluene	0.19	0.0782		11/16/2001	GO
	Xylenes, Total	< 0.246	0.246		11/16/2001	GO

Field ID		NTC68H-SB3				
Lab Number		01110292-06				
Description		8-10'				
Method	**Analyte**	**Result**	**Reporting Limit**	**Unit**	**Analysis Date**	**Analyst**
2540G	Percent Moisture	20	0.1	% (Percent)	11/13/2001	RM2
SW6010B	Lead	21	4.25	mg/Kg-dry	11/15/2001	ML
SW1312/7421	Lead, SPLP	0.005	0.004	mg/L	11/19/2001	AG
SW8260B	**BTEX by GC/MS**	---	---	mg/Kg-dry	11/16/2001	GO
	Benzene	< 0.00078	0.00078		11/16/2001	GO
	Ethylbenzene	< 0.00156	0.00156		11/16/2001	GO
	Methyl tert-butyl ether	< 0.00556	0.00556		11/16/2001	GO
	Toluene	< 0.00177	0.00177		11/16/2001	GO
	Xylenes, Total	< 0.00556	0.00556		11/16/2001	GO

Analytes reported on dry weight basis except for Moisture and SPLP Lead.
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Arminta P. Priddy
Director of Laboratory Customer Service

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Client: US Navy	Project Name: RRR LUST Sites
Address:	Sampler Name: Lynn Smith
	Project #: 41792.01
Report to: Khushwant Mander	Time Period: (5 Day) 4 Day 3 Day 2 Day 1 Day <24Hr.
Phone #: 847-669-0697 Fax #: 847-669-0698	Date Needed:

Field ID; Location	Matrix	Date Time	Type Cont.	# Cont.	Parameters Requested	AEA ID #
1 NTC13-SB1(4.5'-6.5')	S	11-9-01 9:20	Brz 40ml	2	BTEX, MTBE, SPLP Lead, Total Lead	01110292 01 AB
2 NTC13-SB2(5'-7')	↓	11-9-01 9:40	↓	2	meoh only ↓	02 ↓
3 NTC13-SB3(8'-10')		11-9-01 10:20		2		03
4 NTC68H-SB1(8'-10')		11-9-01 11:10		2	meoh only	04
NTC68H-SB2(6'-8')		11-9-01 13:10		2		05
NTC68H-SB3(8'-10')	↓	11-9-01 12:30	↓	2	meoh only ↓	06 ↓
7		—				
8		—				
9		—				
10		—				
11		—				
12		—				
13		—				
14		—				
15		—				

PLEASE FILL COMPLETELY

Sample Preserved: Y - N	Condition of Sample(s): Good - Violated	GLOSSARY: MATRIX=Soil(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O). A=Accept, R=Reject
Preservative Type:	Temp. of Container °C:	CONTAINER=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), Air Tube(T), Wipe(W) PRESERVATIVE=HCl, HNO3, H2SO4, NaOH, MeCl, Other(O). I=Ice. N/A=Not Applicable

Relinquished by:	Date/Time:	Accepted by: 11/12 11:40am
quished by:	Date/Time: 11/12/01 16:30	Accepted by:

Comments:

Page of

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APPENDIX E

DEPARTMENT OF DEFENSE

RELATIVE RISK SITE EVALUATION PRIMER

Introduction

This revised edition of the Primer provides information on the relative risk site evaluation framework being used by the Department of Defense (DoD), in concert with stakeholders, to help sequence environmental restoration work at sites at active military installations, Base Realignment and Closure (BRAC) installations, and formerly used defense properties. It describes the structure and logic underpinning the framework and provides detailed instructions for conducting relative risk site evaluations in the field. It also describes how removal and remedial actions should be factored into relative risk site evaluations.

This document is a product of the Interservice Relative Risk Working Group, comprised of representatives from the Army, Navy, Air Force, and Defense Logistics Agency, that was formed in May 1994 to develop concepts and implementation procedures for the relative risk site evaluation framework.

This revised edition of the Primer replaces the Relative Risk Site Evaluation Primer (Interim Edition, Summer 1994) issued in September 1994, in its entirety. It contains enhanced technical guidelines for performing relative risk site evaluations which have been added in response to DoD initiatives as well as questions and comments received from DoD field elements, regulatory agencies, and stakeholders during the first twenty months of relative risk implementation.

The audience within DoD includes remedial project managers and other environmental personnel responsible for planning, executing, and evaluating environmental restoration activities at DoD installations and formerly used defense sites (FUDS). The audience outside DoD includes federal and state regulatory agencies, local governments, and public stakeholders living or working in the vicinity of DoD installations and FUDS.

Definition of Relative Risk Site Evaluation

The relative risk site evaluation framework is a methodology used by all DoD Components to evaluate the relative risk posed by a site in relation to other sites. It is a tool used across all of DoD to group sites into high, medium, and low categories based on an evaluation of site information using three factors: the contaminant hazard factor (CHF), the migration pathway factor (MPF), and the receptor factor (RF). Factors are based on a quantitative evaluation of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) hazardous substances, pollutants, or contaminants and a qualitative evaluation of pathways and human and ecological receptors in the four media most likely to result in significant exposure¾groundwater, surface water, sediment, and surface soils. A representation of this evaluation concept is presented in Figure 1. Figure 1 also depicts possible opportunities for stakeholder input into the technical evaluation.

The relative risk site evaluation framework is a qualitative and easy to understand methodology for evaluating the relative risks posed by sites and should not be equated with more formal risk assessments conducted to assess baseline risks posed by sites. It is a tool to assist in sequencing environmental restoration work (i.e., known requirements such as remedial investigation or cleanup actions) to be done by a DoD Component. It is designed to handle the broad range of sites that exist at DoD installations and the broad range of data available. Like any risk evaluation tool and perhaps

more so than a comprehensive risk assessment, the relative risk site evaluation framework makes use of assumptions and approximations. Users should bear these limitations in mind when applying the framework. Relative risk is not the sole factor in determining the sequence of environmental restoration work, but it is an important consideration in the priority setting process. It should be factored into all priority setting decisions, and should be discussed with regulators and public stakeholders in the environmental restoration process, such as those mentioned above. The grouping of sites into high, medium, or low relative risk categories **is not** a substitute for either a baseline risk assessment or health assessment; **it is not** a means of placing sites into a Response Complete/No Further Action category; and **it is not** a tool for justifying a particular type of action (e.g., the selection of a remedy).

The relative risk site evaluation framework is used by all DoD Components to assess site relative risks at installations and formerly used defense properties. Use of the framework and resulting relative risk information allows DoD and DoD Components to communicate and help establish priorities for environmental restoration work.

The actual funding priority for a site is identified after relative risk information is combined with other important risk management considerations (e.g., the statutory and regulatory status of a particular installation or site, public stakeholder concerns, program execution considerations, and economic factors). A list of common risk management considerations can be found on page 39 of the briefing in Appendix E. These additional risk management considerations can result in a decision to fund work at a site that is not classified as a high relative risk. DoD Components have each developed guidelines for combining relative risk and risk management considerations as part of their planning, programming, and budgeting process. The planning, programming, and budgeting process within DoD is outlined on page 16 of the briefing in Appendix E.

The relative risk site evaluation framework does not address the question of whether work is necessary at a site; it only provides information for use in helping to determine the general sequence in which sites will be addressed. At the DoD headquarters level, it also provides a framework for planning, programming, and budgeting requirements, a topic discussed further under Management Uses of Relative Risk Information, later in this Section.

Use of the relative risk site evaluation framework is restricted to environmental restoration sites and does not extend to unexploded ordnance (UXO) removal, building demolition/debris removal (BD/DR), potentially responsible party (PRP) activities, or compliance activities.

Rationale for Relative Risk Site Evaluation

In a 1994 report, entitled *Environmental Cleanup: Too Many High-Priority Sites Impede DoD's Program*, the General Accounting Office (GAO, 3 May 1994) concluded that the method used at that time by regulators and the DoD to determine which sites to work on first resulted in (1) too many similar priorities where too little got done, or (2) instances where DoD's worst sites were not getting priority attention. The report further stated that the approach in 1994, which was based solely on regulation-driven requirements, led to significant cost growth that strained limited resources and forced difficult choices.

Prior to 1994 and the implementation of the relative risk site evaluation concept within DoD, restoration priorities were established at the field level using a variety of methods and factors. At many installations, work priorities were established by DoD and regulatory agency personnel as part

of regulatory agreement negotiations. By the end of negotiations, work sequencing was often included in legal agreements in the form of study and cleanup milestones, using information available at that time. The degree to which risk-based considerations were incorporated into scheduling milestone decisions varied considerably within DoD.

Typical legal agreements that contain milestones for sites include Federal Facility Agreements under CERCLA, permits for corrective action under the Resource Conservation and Recovery Act (RCRA), as amended; two-party agreements under federal or state law; and enforcement orders under CERCLA or RCRA, as amended. Because additional data continue to become available for many of the sites with established milestones, and in light of recent budget shortfalls and funding recisions, DoD believes that a risk-based approach should continue to be applied to work sequencing using relative risk as a key factor. The relative risk site evaluation framework described in this revised edition of the Primer provides a means of helping accomplish this objective.

Development of the Relative Risk Site Evaluation Framework

On 9 November 1993, the Deputy Under Secretary of Defense (Environmental Security) (DUSD[ES]) committed to pursuing relative risk site evaluation in the Defense Environmental Restoration Program (DERP) in consultation with regulators and communities in testimony before the Senate Committee on Energy and Natural Resources (Goodman, 1993). On 14 April 1994, DUSD(ES) issued *Management Guidance for Execution of the FY94/95 and Development of the FY96 Defense Environmental Restoration Program* (Office of the Under Secretary of Defense [Environmental Security], 1994), which promotes the use of a risk management concept to evaluate the sequence of work at environmental restoration program sites in conjunction with the regulatory agreement status of each site. It directs each service within DoD to begin developing its environmental restoration program using a relative risk site evaluation framework.

In September 1994, DUSD(ES) issued the Interim Edition of the Primer, which contained instructions for performing relative risk site evaluations at sites across DoD. In the fall of 1995, DUSD(ES) decided to revise the Primer, resulting in the issuance of this document.

Requirements for Relative Risk Site Evaluations

Relative risk site evaluations are required for all sites at active military installations, BRAC installations, and formerly used defense properties that have future funding requirements that are not classified as (1) having "all remedies in place," (2) "response complete," (3) lacking sufficient information, or (4) abandoned ordnance. These four situations are discussed in the following four paragraphs.

Relative risk site evaluations are not required (NR) for sites classified as having all remedies in place (RIP) even though they may be in remedial action operation (RAO) or long-term monitoring (LTM). A RIP determination requires that remedial action construction is complete for a site.

Relative risk site evaluations are not required (NR) for sites classified as response complete (RC). Sites classified as RC are those where a DoD Component deems that no further action (NFA) is required with the possible exception of LTM. A RC determination requires that one of the following apply: (1) there is no evidence that contaminants were released at the site, (2) no contaminants were detected at the site other than at background concentrations, (3) contaminants attributable to the site

are below action levels used for risk screening, (4) the results of a baseline risk assessment demonstrate that cumulative risks posed by the site are below established thresholds, or (5) removal and/or remedial action operations (RAOs) at a site have been implemented, completed, and are the final action for the site. Only LTM remains.

Relative risk site evaluations should be based on the information currently available on contaminants, migration pathways, and receptors. Sites lacking sufficient information for the conduct of a relative risk site evaluation should be given a "Not Evaluated" designation and should then be programmed for additional study, a removal action if warranted, or other appropriate response action, including deferral, before they are evaluated.

Sites comprised solely of abandoned ordnance are not subject to the relative risk site evaluation described in this Primer. Such sites should be evaluated using a separate risk procedure, which is discussed in the management guidance cited above (Office of the Under Secretary of Defense [Environmental Security], 1994).

Implementation of the Relative Risk Site Evaluation Framework

DoD's goal is to conduct relative risk site evaluations at the field level with **the involvement** of the **regulators and public stakeholders** (see Figure 1). The technical evaluation of sites using the evaluation framework can serve as a basis for discussion and negotiation with **regulators and public stakeholders**. In particular, regulators and public stakeholders can help identify receptors, and can make judgments about the extent of contaminant migration in various environmental media at a site. Where they exist, Restoration Advisory Boards (RABs) are an excellent forum for obtaining **public stakeholder input** on these aspects of site relative risk. Other opportunities for public stakeholder involvement may also be appropriate. Regulators and public stakeholders should always **be given the opportunity** to participate in the development and review of relative risk site evaluation data before the data is used in planning and programming.

As lessons are learned during this implementation phase, DoD will continue to make appropriate adjustments and improvements to the framework through the established interservice working group, as has been done in this revised Primer.

Management Uses of Relative Risk Information

DoD and DoD Components are using the relative risk site evaluation framework as a tool to help sequence work at sites and as a headquarters program management tool. As a program management tool, the framework is being used by DoD and DoD Components to periodically identify the distribution of sites in each of three relative risk categories-high, medium, and low. A series of discrete relative risk site evaluations provides headquarters program managers with a macro-level view of changes in relative risk distributions within DoD over time.

The relative risk site evaluation framework and resulting data also provide DoD with a basis for establishing goals and performance measures for the environmental restoration program. In this regard, DoD has established goals for all DoD Components to reduce relative risk at sites in Defense Environmental Restoration Account (DERA) and BRAC programs or to have remedial systems in place where necessary for these sites, within the context of legal agreements. DoD and DoD ..

Components are tracking progress towards these relative risk reduction goals as one of several program measures of merit (MOMs) at the headquarters level. Another MOM tracks the number of sites where cleanup action has been taken and relative risk has been reduced in one or more media. Resultant information is used to provide the necessary feedback to develop and adjust program requirements and budget projections, as well as to assess whether established goals reflect fiscal reality.

Last Updated: 30 July 1996

Robert Turkeltaub, Office of the Deputy Under Secretary of Defense (Environmental Security), turkelrb@acq.osd.mil
Scott English, U.S. Army Environmental Center, sdenglis@aecl.apgea.army.mil
Geoff Cullison, U.S. Navy/Environmental Protection, Safety and Occupational Health Division, cullisong@n4.opnav.navy.mil
Bob Furlong, Headquarters U.S. Air Force/Directorate of Environmental Quality, furlongr@afce.hq.af.mil

Description of Relative Risk Site Evaluation Framework

This section provides information on the structure and logic underpinning the relative risk site evaluation framework and provides definitions of each relative risk factor by environmental medium

The relative risk site evaluation framework is based on information fundamental to risk assessment: sources, pathways, and receptors. These elements are building blocks of a conceptual site model, a tool used in field investigation and risk assessment to organize site information. Relative risks to human health for cancer and toxicity, as well as to ecological systems, are addressed in the relative risk site evaluation framework.

The framework uses recent/representative site information to evaluate the following four media and their exposure endpoints:

- Groundwater (human endpoint)
- Surface water

  - Human endpoint
  - Ecological endpoint

- Sediments

  - Human endpoint
  - Ecological endpoint

- Surface soils, preferably from a depth of 0-6 inches (human endpoint) are not available from the 0-6 inch interval, results from depths

Air is not considered by the relative risk site evaluation framework because the risk through this pathway from DoD sites without soil contamination generally is minimal, and the PRGs for contaminated soils consider inhalation of volatiles and contaminated particles (U.S. EPA, *Region IX Preliminary Remediation Goals, Second Half*, 1 September 1995). (The PRGs for water consider inhalation for water contaminated with volatiles.)

Each environmental medium is evaluated using three factors that relate to the three structural components of the conceptual site model used in risk assessment: CHF (relationship of contaminants to comparison values), MPF (likelihood/extent of contaminant migration), and RF (likelihood of receptor exposure to contamination). Each of these three factors is given a rating (e.g., *Significant*, *Moderate*, or *Minimal* for CHF) based on recent/representative site information for a given medium. For each environmental medium, factor ratings are combined to determine the environmental medium-specific rating of *High*, *Medium*,or *Low*. The site is then placed in an overall category of *High, Medium, or Low*, based on the highest medium-specific rating. This site-specific process is illustrated schematically in Figure 2. Figure 3 expands on Figure 2 and illustrates the decision framework for the relative risk site evaluations.

As shown in Figure 3, only sites with reliable (i.e., most recent/representative) contaminant data will be evaluated using the framework. Do not perform evaluations on sites classified as RIP and RC, and

do not perform evaluations at sites comprised solely of ordnance. If data are available for only one medium, a site can be evaluated for relative risk. If data are absent, sites should be designated "Not Evaluated." Action on these sites may be deferred, or the sites may be programmed for additional study before they are evaluated. In addition, a removal action or other response action may be appropriate.

Figures 4, 5, and 6 provide definitions of each factor for groundwater, surface water and sediment, and surface soils, respectively. Factors and associated rating definitions should be used together with detailed instructions in Section 3. Use of factor definitions **and** corresponding instructions in Section 3 ensures a common categorization method across DoD Components.

Contaminant Hazard Factor

The CHF is based on the ratio of the maximum concentration of a contaminant detected in an environmental medium to a risk-based comparison value for that contaminant in that medium. Detected contamination must be recent yet representative of site conditions. Comparison values are listed in Appendix B.

For carcinogens, the comparison value for human health is the concentration that presents a 1-in-10,000 risk of increased cancer incidence, which is the remedial action threshold for carcinogens defined in the Preamble to the National Oil and Hazardous Substance Pollution Contingency Plan (55 Federal Register 8716, March 8, 1990) and by Directive 9355.0-30 of the Office of Solid Waste and Emergency Response, U.S. EPA (22 April 1991). For non-carcinogens, the comparison value for human health is the concentration that provides an exposed individual with the daily reference dose (RfD), which is the estimated daily exposure level of a contaminant to a human population below which adverse non-cancer health effects are not anticipated.

For ecological endpoint evaluations, comparison values are based on ambient water quality criteria (for the surface water medium) or sediment screening values developed by either NOAA or the Ontario Ministry of Environment and Energy.

For a medium that contains more than one contaminant, the ratios from the individual contaminants are added. A CHF of *significant* (sum of ratios is greater than 100), *moderate* (from 2 to 100), or *minimal* (less than 2) is assigned on the basis of the magnitude of the ratio or sum of ratios. The breakpoints were established by the interservice working group after reviewing the results of a considerable number of site distributions derived from a range of different breakpoints. Further discussion of these breakpoints is provided in Question 11 of the Question and Answer Factsheet, contained in Appendix E. The mechanics of the CHF calculations are described in detail in the Instruction Section.

The framework utilizes available site information to evaluate three media of concern:

Each of the media above is evaluated using three factors that relate to the three structural components of risk assessment: the CHF, MPF, and RF. The CHF corresponds with information about the contaminants. The MPF corresponds with information about the pathways of contaminant migration. The RF corresponds with information about the receptors of contaminant exposure. Each of these three factors is given a rating (e.g., based on available site information for a given media. For each site, ratings are combined to place the site in an overall category of. This site-specific process is illustrated schematically and illustrates the decision points for media-specific relative risk site

evaluations.

As noted in Figure 3, sites and AOCs are not rated using the evaluation framework if they lack reliable concentration data. In such instances, sites and AOCs should be designated "Not Evaluated," should be reviewed and discussed with community stakeholders, and should be deferred, programmed for additional data collection, a removal action if warranted, or other appropriate response action before they are evaluated.

Migration Pathway Factor

Information about migration pathways of contamination for a site is summarized as the MPF. MPFs of *evident*, *potential*, or *confined* are determined by matching available site information on pathways with the corresponding definitions about the likelihood of contaminant migration shown in Figures 4, 5, and 6. Individuals or groups performing the relative risk site evaluations should determine the MPF on the basis of consideration of available site information, the definitions in Figures 4 through 6, the detailed instructions associated with medium-specific MPF evaluations in the Instruction Section, and professional judgment.

Receptor Factor

Information about the present or future likelihood of receptors for each site is summarized as the RF. RFs of *identified*, *potential*, or *limited* are determined by matching available information on receptors at sites or AOCs with the definitions in Figures 4, 5, and 6. These statements, like those for the MPF, should be considered on the basis of available information, detailed instructions associated with medium-specific RF evaluations in the Instruction Section, and professional judgment.

Human and ecological receptors (i.e., endpoints for exposure) to be considered are as follows:

- **Groundwater**. Human receptors include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Groundwater can be classified using EPA's *Guidelines for Groundwater Classification Under the EPA Groundwater Protection Strategy*, Office of Groundwater Protection, 1986. This classification scheme is presented in Table 1 and is used together with definitions and instructions to assist in the determination of the groundwater RF (see Figure 4). Ecological receptors are not evaluated.
- **Surface Water and Sediment**. These two media are discussed together since they potentially affect the same receptors. Human receptors for surface water and sediment share the same migration pathway and, therefore, include those individuals that may be exposed to surface water or sediment contamination through onsite and downgradient water supplies and recreational areas. Receptors include downgradient water supplies used for drinking water, irrigation of food crops, watering of livestock, aquaculture, and recreational activities such as fishing. ***Ecological receptors for surface water and sediment are limited to critical habitats and other environments listed in Table 2 that can be reasonably expected to be impacted by a site.***
- **Surface Soil**. Human receptors include residents, people in schools and daycare, and workers who have direct access to contamination on a frequent basis. Ecological receptors are not considered for evaluation of the surface soil since ecological standards are generally not available for the CHF calculation. Ecological receptors may be incorporated into the soil evaluation if ecological standards become available.

Site Categorization

For each medium at a site, the CHF, MPF, and RF are combined using the relative risk site evaluation matrix shown in Figure 7 to obtain the relative risk (*High*, *Medium*, or *Low*) for that medium. The highest relative risk site evaluation result for a medium determines the relative risk designation for the site, according to the process illustrated in Figure 2. Where sufficient data are available, evaluate all four environmental media and their associated endpoints for a site, since the data establish a site baseline that is used throughout the relative risk site evaluation process to show changes against the baseline due to the implementation of response actions.

Table 1. EPA Groundwater Classification Guidelines*

Class I Groundwater**

Special groundwater is (1) highly vulnerable to contamination because of the hydrological characteristics of the areas in which it occurs and (2) irreplaceable; no reasonable alternative source of drinking water is available to substantial populations.

- If water supply wells in Class I groundwater are threatened, the receptor factor is *Identified.*
- If water supply wells in Class I groundwater are not threatened the receptor factor is *Potential.*

Class II Groundwater

Current and potential source of drinking water and water having other beneficial uses includes all other groundwater that is currently used (IIA) or is potentially available (IIB) for drinking water, agriculture, or other beneficial use.

- If water supply wells in Class IIA groundwater are threatened, the receptor factor is *Identified.*
- If water supply wells in Class IIA groundwater are not threatened, the receptor factor is *Potential.*
- If groundwater is Class IIB, the receptor factor is *Potential.*

Class III Groundwater

Groundwater that is not considered a potential source of drinking water and of limited beneficial use (Class IIIA and Class IIIB), is saline (i.e., it has a total dissolved solids level over 10,000 milligrams per liter [mg/l]), or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation using methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at any depth to meet the needs of an average household.

Class IIIA includes groundwater that is interconnected to surface water or adjacent groundwater that potentially could be used for drinking water.

Class IIIB includes groundwater that has no interconnection to surface water or adjacent aquifers.

- If groundwater is Class III, the receptor factor is *Limited.*

---

*Guidelines for Groundwater Classification Under the EPA Groundwater Protection Strategy, Office of Groundwater Protection, December 1986.

**Special groundwater is also ecologically vital; the aquifer provides the base flow for a particularly sensitive ecological system that, if polluted, would destroy a unique habitat (this characteristic is not applicable for relative risk site evaluation since ecological receptors are not evaluated for groundwater)

Table 2. List of Ecological Receptors*

(based on 55 FR 51624, Dec. 14, 1990)

- Critical habitat [*a*] for Federal designated endangered or threatened species
- Marine Sanctuary
- National Park
- Designated Federal Wilderness Area
- Areas identified under Coastal Zone Management Act [*b*]
- Sensitive areas identified under National Estuary Program [*c*] or Near Coastal Waters Program [*d*]
- Critical areas identified under the Clean Lakes Program [*e*]
- National Seashore Recreational Area
- National Lakeshore Recreational Area
- Habitat known to be used by Federal designated or proposed endangered or threatened species
- National Preserve
- National or State Wildlife Refuge
- Unit of Coastal Barrier Resources System
- Coastal Barrier (undeveloped)
- Federal land designated for protection of natural ecosystems
- Administratively Proposed Federal Wilderness Area
- Spawning areas critical for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters [*f*]
- Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time
- Terrestrial areas utilized for breeding by large or dense aggregations of animals [*g*]
- National river reach designated as Recreational

Notes:

[*a*] Critical habitat as defined in 50 CFR 424.02.

[*b*] Areas identified in State Coastal Zone Management plans as requiring protection because of ecological value.

[*c*] National Estuary Program study areas (subareas within estuaries) identified in Comprehensive

Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).

[*d*] Near Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.

[*e*] Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitat (Section 314 of Clean Water Act, as amended).

[*f*] Limit to areas described as being used for intense or concentrated spawning by a given species.

[*g*] For the surface water migration pathway, limit to terrestrial vertebrate species with aquatic or semiaquatic foraging habits.

*See Section A.4 of the *Hazard Ranking System Guidance Manual*, OSWER Directive 9345.107, November 1992, for sources of information on how to identify these receptors. Information on how to obtain this guidance can be found in the References Section of this Primer.

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Last Updated: 30 July 1996
Robert Turkeltaub, Office of the Deputy Under Secretary of Defense (Environmental Security), turkelrb@acq.osd.mil
Scott English, U.S. Army Environmental Center, sdenglis@aecl.apgea.army.mil
Geoff Cullison, U.S. Navy/Environmental Protection, Safety and Occupational Health Division, cullisong@n4.opnav.navy.mil
Bob Furlong, Headquarters U.S. Air Force/Directorate of Environmental Quality, furlongr@afce.hq.af.mil

Instructions for Relative Risk Site Evaluations

This section provides a set of general and specific instructions for conducting relative risk site evaluations at installations and formerly used defense sites (FUDS). The general instructions below apply throughout the evaluation. Instructions on performing medium-specific evaluations and completing specific parts of the Relative Risk Site Evaluation Worksheet follow. Because it forms the basis of so much of the evaluation, the CHF, as it applies to all media, is discussed in detail. Following that, instructions for evaluating each medium are given, with specific instructions for each of the factors in that medium.

General Instructions

Use the *Relative Risk Evaluation Worksheet*, in Appendix A (or its electronic equivalent), to record pertinent information on the site being evaluated. The first page of the Worksheet asks for information on the site. Following sections ask for information on each environmental medium (groundwater, surface water [human and ecological endpoints], sediment [human and ecological endpoints], and soil) and cover determinations of the CHF, MPF, and RF for each medium.

Proceed through the Worksheet in Appendix A using the specific instructions in this Primer. Evaluate all media with reliable analytical data at all sites; designate those sites without reliable analytical data as "Not Evaluated." See Figure 3 for an illustration of this decision logic.

Use the most recent yet representative sampling and analysis data from existing restoration documents or databases to complete the Worksheet; additional data gathering activities are not required. Examples of such documents include completed site inspections, remedial investigations, feasibility studies, engineering evaluations/cost analysis studies, records of decision, decision documents, design documents, performance monitoring reports, and equivalent types of information.

When conducting relative risk site evaluations for sites contaminated solely with petroleum, oils, and lubricants (POL), do not use Total Petroleum Hydrocarbon data. Instead, use the concentrations for benzene, toluene, ethylbenzene, and xylene (BTEX) compounds in each medium, together with corresponding BTEX standards, to calculate the CHF. Support for using BTEX compounds in the evaluation of POL contamination can be found in *Use of Risk Based Standards for Cleanup of Petroleum Contaminated Soil* (Department of the Air Force, June 1994).

When conducting relative risk site evaluations for sites contaminated with POL ***and*** other contaminants, use the concentrations for BTEX compounds and the other contaminants present, together with their corresponding comparison values, to calculate the CHF.

Do not perform relative risk site evaluations at sites that are categorized as either "response complete" (RC) or "all remedies in place" (RIP). See the Definitions of terms section for these definitions. Do not perform relative risk site evaluations on sites without reliable concentration data. These sites should be categorized as Not Evaluated (NE). Finally, do not perform relative risk site evaluations on PRP sites and sites comprised solely of ordnance.

Site Information

The first page of the Worksheet in Appendix A asks for information on the background of the site and a summary of key elements of information about the site.

Site Background Information. Provide a record of basic information on the following: the installation's name (property name for FUDS), location, site name (project name for FUDS), and Restoration Management Information System (RMIS)/Defense Site Environmental Restoration Tracking System (DSERTS) identification number (project number for FUDS), contact person, date of relative risk site evaluation, media evaluated, site execution phase from which data are available (e.g., site inspection, remedial investigation, remedial design), agreement status of the site, and site type. Applicable regulatory agreements and their codes and a list of site types are found in Appendix C. Much of this information is available from existing DoD Component databases and is typically imported from these into appropriate data fields for each site. For example, agreement status and site type codes are available in and obtained from RMIS/DSERTS.

The background information will aid in understanding the quality of information used in site evaluations, the level of uncertainty associated with the data, and anticipated follow-on phases of execution. It will also assist in explaining activities at the site to stakeholders.

Site Summary ("Project Summary" for FUDS). Briefly describe the source of contamination (materials disposed of) at the site, the exposure setting (the site's physical environment), and any potentially exposed human and ecological receptors. The emphasis should be on including the key elements of information used to conduct the relative risk site evaluation. As noted on the summary sheet, you may include a map and/or cross section of the site.

Preparers of worksheets should also determine their Component-specific procedures for submitting relative risk site evaluation documentation.

Evaluation of Contaminant Hazard Factor

This subsection discusses the general method, common to all environmental media, for evaluating the CHF. The CHF will be *significant*, *moderate*, or *minimal,* based on summing the ratios of maximum contaminant concentrations in each medium to corresponding comparison values in Appendices B-1, B-2, or B-3, as appropriate. The CHF is *significant* for a medium when the sum of the ratios for that medium exceeds 100, *moderate* when the sum of the ratios is from 2 to 100, and *minimal* when the sum of the ratios is less than 2. (See Figures 8 and 9.)

Select contaminants for inclusion in the CHF evaluation for each medium and list them on the Worksheet. **Only chemicals listed in the appropriate Appendix (B-1, B-2, or B-3) can be included.** Total Petroleum Hydrocarbons (TPH) is not included, and only specific petroleum constituents are listed. **Select only those contaminants having reliable analytical data, using the most recent yet representative sampling and analysis data.** General considerations for selecting contaminants are discussed at the end of this subsection, while considerations specific to each medium are discussed under the specific instructions for the medium. If no reliable concentration data are available for any contaminants for the medium, no evaluation can be made of that medium, and the medium should be rated as "Not Evaluated." If sampling results for a particular medium are below detection limits or are detected within established background concentration ranges, then that medium should automatically be assigned a rating of *Low*. If sampling results for each and every medium sampled are below detection or are within established background concentration ranges, the site is

automatically assigned a category of *Low* (see Figure 3).

For each contaminant listed on the Worksheet, record the most recent yet representative maximum detected concentration of that contaminant in that medium at that site on the Worksheet. Adjacent to this value record the appropriate comparison value for the contaminant from Appendix B-1, B-2, or B-3. (See the instructions for each medium for the comparison values appropriate to that medium.) Calculate the ratio to be listed on the Worksheet by dividing the maximum concentration by the comparison value. Select only those contaminants having reliable analytical data, using the most recent sampling and analysis data **which is representative of the site.**

Sum the column of ratio values to obtain the total value (Figures 8 and 9). Where a lengthy series of analyses has been carried out, it is not necessary to list every contaminant found. However, **the Worksheet should include all contaminants of concern that are attributable to the site,** especially those that produce the highest ratios of observed concentrations to their comparison values. The highest ratios do not necessarily result from contaminants with the highest concentrations. Extremely carcinogenic or toxic compounds may have very low comparison values and therefore result in the highest ratios.

The existence of high ratio values will lead to a higher rating for the CHF. Note that the CHF is *significant* when the sum of the ratios exceeds 100. Every attempt should be made to include all contaminants of concern present at a site for the CHF calculation in order to be able to compare current site evaluations with future ones.

In selecting contaminants with reliable analytical data, review the contaminants that have been detected in the medium and that can be reasonably attributed to the site. Attribution implies that the contaminant concentrations are distinguishable from background concentrations. **Do not include naturally occurring compounds that are detected within established background concentration ranges.** Additionally, if all analytical data are within established background ranges for a medium or site, automatically assign that medium or site a rating of *Low*. All contaminants that have been reliably reported at concentrations near or above the detection limit can be included.

For contaminants with reliable analytical data, record only the maximum concentration found in the medium for each contaminant. The contaminants need not have been detected at the same location, but contaminant data should be recent and representative of conditions at the site. Additional considerations specific to each medium are discussed in the instructions for that medium.

To implement the requirements of this section (use reliable data, do not use results that are less than detection limits, and do not use results within background ranges) media with CHF values below 0.005 will be assigned a category of *Low*.

Evaluation of Groundwater

The evaluation of the groundwater medium is summarized in Figure 4. Groundwater contaminant data used in site evaluations must be based on groundwater samples affected by the site. The sampling location need not be on installation property, but contamination must be attributable to the site. The groundwater sample location (i.e., a well) may be a source of drinking water or irrigation water, or it may be a monitoring well. A well that is confirmed to be upgradient from the site **does not** provide suitable data for this evaluation.

If a well is thought to be influenced by more than one site, exercise additional care in selecting the data to be used. Select only contaminants that can reasonably be linked to past practices at the site. If, for example, a site was contaminated by trichloroethylene (TCE) and an adjacent site had been shown to have chromium contamination, even though both TCE and chromium may appear in groundwater samples downgradient from the sites, restrict the evaluation of each site solely to the specific contaminants that can be reasonably linked to the site. Depending on past practices, this could be both the TCE and chromium or just the chromium or just the TCE.

Contaminant Hazard Factor (CHF). Review the most recent yet representative analytical data to determine what contaminants have been detected in groundwater at or near the site and which of these contaminants can be reasonably attributed to the site. Attribution implies that the contaminant concentrations are distinguishable from background concentrations. For metals, analyses are often available for both the dissolved fraction and the "total" concentration. The dissolved data are preferred for this evaluation and should be used if available.

For each contaminant listed on the Worksheet, note a maximum detected concentration in ug/l. Adjacent to this value, record the comparison value for the contaminant, using the values in Appendix B-1. For groundwater use the value listed under "water," which is reported in units of ug/l.

Migration Pathway Factor (MPF). The migration of a contaminant from a site into and through groundwater is dependent upon a complex interaction of the physical and chemical properties of the contaminant, the hydrologic environment surrounding the site, and the presence or absence of physical factors that could impede transport. The likelihood of transport of contaminants via groundwater is evaluated qualitatively as *evident*, *potential*, or *confined* (see Figure 4), based on available information for a site and professional judgment.

The MPF is evaluated as *evident* only if analytical data or direct observation indicates that contamination in the groundwater is moving or has moved away from the area under the source. The data used in this evaluation may be from a water supply well or monitoring well (see Figure 10 for illustrations).

The MPF is *potential* under the following conditions:

- Contamination in the groundwater is largely restricted to the area directly under the source or only slightly beyond the edge of the source (i.e., tens of feet)
- There is no evidence of appreciable contaminant migration in groundwater, but subsurface soil contamination has been identified, the contaminants have physical properties that suggest they are mobile, and there are no known barriers to migration. A leaking underground storage tank above the water table is an example.
- Information is not available to support an MPF of *evident* or *confined*.

The MPF is *confined* at sites where the contaminants in the source have very little potential to migrate to groundwater, or where contaminated groundwater has little potential to be transported down-gradient. Confined conditions may be due to physical barriers to migration, such as a hydraulic barrier created by an installed and properly operating removal or remedial action, or a confining clay layer between the source and groundwater. There may be limited net precipitation (i.e., 0 to 5 inches per year) to drive soil contamination towards groundwater, and/or groundwater may be located several hundred feet below the ground surface with very long travel times for contamination to reach

groundwater.

Receptor Factor (RF). Possible ratings for RF are *identified*, *potential*, or *limited* (see Figure 4). Only human receptors are considered for groundwater exposure, and there is no distinction made for the type of receptor (e.g., workers versus residents) or the number of receptors.

Evaluate the RF as *identified* if a currently used water supply well downgradient from the source is threatened. A threatened water supply well is one that is impacted by contamination, or will likely be impacted by contamination within a reasonable timeframe. The water supply must be equivalent to either EPA Class I or Class IIA groundwater, as outlined in Table 1. The RF is *potential* if there are no threatened water supply wells downgradient from the source, but the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture. The water supply should be equivalent to EPA Class I, Class IIA, or Class IIB groundwater (Table 1). The RF is *limited* when there is no potentially threatened groundwater supply well downgradient from the source and the groundwater is not considered to be a potential source of drinking water and is of limited beneficial use. This is a water supply equivalent to Class III groundwater (Table 1), such as saline water or an aquifer with insufficient production to meet the needs of an average household, for example, a perched aquifer (see Figure 10). Do not include properly abandoned wells in the RF evaluation.

Evaluation of Surface Water and Sediment

The evaluations for the surface water and sediment media are summarized in Figure 5. Consult a topographic map that includes the site under evaluation when evaluating surface water and sediment factors. A topographic map will reveal surface water features that potentially can be affected by the site and will provide a view of potential migration pathways toward surface water receptors. Either water or sediment samples can be used to document the presence and migration of contaminants (and in some cases receptors) for this evaluation.

Contaminant Hazard Factor (CHF). For contaminants in surface water with a potential for human exposure, use comparison values in Appendix B-1 under "water," which are reported in units of ug/l. For contaminants in surface water with a potential for ecological exposure, use comparison values in Appendix B-2, which are reported in units of ug/l. For contaminants in sediment with a potential for human exposure, use values in Appendix B-1 under the "soil" column, which are reported in units of mg/kg. For contaminants in sediments with a potential for ecological exposure, use comparison values in Appendix B-3, which are reported in units of mg/kg. Only contaminants with comparison values in the appropriate tables are to be included in the CHF calculation. A *significant* CHF is greater than 100. A *moderate* CHF is from 2 to 100. A *minimal* CHF is less than 2. (See Figures 8 and 9.)

Review the most recent yet representative analytical data to determine what contaminants have been detected in surface water and sediment at or near the site and which of these contaminants can be reasonably attributed to the site. Attribution implies that the contaminant concentrations are distinguishable from background concentrations. Samples collected from surface streams, drainage ditches, rivers, lakes, wetlands, and embayments are all appropriate. Samples do not have to be collected adjacent to the site, but greater distances often make attribution to the site more difficult, and dilution from downstream tributaries often reduces observed contaminant concentrations.

For metals in surface water samples, analyses are often available for both the dissolved fraction and the "total" concentration. If they are available, use the data on the dissolved fraction.

Sediment is the result of deposition of solid material from the water. Obtain sediment samples from surface water bodies receiving runoff from the site or from areas such as swales and ditches that are known to have transported water from the site.

For each contaminant listed on the Worksheet, note a maximum detected concentration. Use units of ug/l for water samples and mg/kg for sediment samples. Adjacent to this value record the comparison value for the contaminant using the appropriate subsection of Appendix B.

Migration Pathway Factor (MPF). The likelihood of transport of contaminants via surface water or sediment is evaluated qualitatively as *evident*, *potential*, or *confined* (see Figure 5). Base MPF evaluations on available information and professional judgment. The MPF is *evident* if analytical data or direct observation indicates that contaminants in surface water and sediments are present at a point of exposure for a surface water receptor or have moved in surface water or sediments away from the source towards a point of exposure for a surface water receptor. Water or sediment samples can provide the analytical data. Showing the actual movement of contaminated runoff from a source toward a point of exposure is needed for direct observation (see Figure 11).

The MPF is *potential* in any instance where there is information to suggest contamination could move away from the source toward a point of exposure for a surface water receptor, or has moved slightly beyond the source area (i.e., tens of feet). Where there is insufficient information to support an MPF of *evident* or *confined*, the MPF defaults to *potential*.

Application of the *confined* MPF to a site requires information that transport of contaminants from the source by surface water to a potential point of exposure to a surface water receptor is restricted. Reasons to believe such a condition could exist include the following:

- The site has engineered runon/runoff controls that can effectively interrupt transport of contaminants to surface water.
- Removal or remedial actions have been implemented that restrict the movement of contaminants away from the source.
- The contamination at the source is below the ground surface and is not subject to erosion or interaction with surface water. For example, leaking underground storage tanks may result in subsurface soil and groundwater contamination but not contamination of surface water.
- Topographic conditions prevent surface water from leaving the immediate area of the site. If there is effectively no runoff from the site to surface water, there will be no migration of contaminants to points of exposure. This may also occur in areas with very low rainfall, perhaps with only nearby ephemeral streams. In some areas surface water may be completely lost to groundwater recharge.

Note that the rationale for a *confined* MPF must be based upon hydrologic factors; water must be prevented from coming into contact with contaminated sources or moving to a potential point of exposure for a surface water receptor. The chemical or physical characteristics of the contaminants, although important in determining transport mechanisms, will not in themselves prevent such transport. The chemical and physical properties of a contaminant may determine whether it will be transported primarily in a dissolved form or adsorbed on particulate matter, but if the contaminant is in contact with surface water and subject to erosive forces, it will tend to move. Further, the existence of manmade structures, such as dams, or the presence of lakes and reservoirs in the surface water pathway does not necessarily imply a *confined* condition. Although the travel time for the

contaminants will undoubtedly be affected by such structures, the migration pathway may still be uninterrupted.

Receptor Factor (RF). Receptors could be subject to a number of exposure scenarios associated with surface water and sediment. Surface water can be a source of drinking water and is often used for recreational activities such as boating, swimming, and fishing. Human exposure could occur through the use of surface water for drinking water, the incidental ingestion of surface water during recreational activity, dermal contact with surface water or sediments, ingestion of aquatic species caught in the water body for human consumption, and the use of surface water for watering livestock or irrigation of human food crops. Aquatic species, considered part of the human food chain, could potentially include fresh and marine species, such as finfish, shellfish, shrimp, squid, snails, and crayfish. Ecological receptors to be considered are restricted to those areas specifically identified in Table 2.

The RF can be *identified*, *potential*, or *limited* (see Figure 5). Rate the RF as identified whenever receptors have been specifically identified as having access to surface water or sediment to which the contaminants have moved or can move. This could potentially include the use of water as drinking water, for irrigating human food crops, for watering livestock, and for supporting recreational activity, including fishing. It could also include the presence of ecological areas downstream from the site and within the surface water migration pathway (see Figure 11).

The RF is *potential* if there are no known uses of surface water as outlined above, but the potential for such use is thought to exist because of nearby populations or predicted future development.

The RF is *limited* when it is unlikely that human population will come into contact with the water or sediment and when there are no ecological receptors apparent. These conditions, as they apply to humans, may be met in remote areas or areas in which access is highly restricted.

Evaluation of Surface Soils

Samples for the soil evaluation should be from a depth of 0 to 6 inches. If samples are not available from this interval, samples from depths up to 24 inches can be used. Preference is given to shallower samples when there is a choice. In no instance should samples deeper than 24 inches be used. For the purpose of this evaluation, the hazard posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Contaminant Hazard Factor (CHF). For contaminants in surface soils with a potential for human exposure, use comparison values in Appendix B-1 under "soil," which are reported in units of mg/kg. Contaminants in soils with a potential for ecological exposure are not evaluated since comparison values for such contaminants do not currently exist. A *significant* CHF is greater than 100. A *moderate* CHF is from 2 to 100. A *minimal* CHF is less than 2 (see Figures 8 and 9).

Review the most recent yet representative analytical data to determine what contaminants have been detected in surface soils at the site. Attribution of the contaminants to the site requires that the observed concentrations are distinguishable from background.

For each contaminant listed on the Worksheet, note a maximum detected concentration in mg/kg

(ppm). Adjacent to this value, record the comparison value for the contaminant, using the values in Appendix B-1.

Migration Pathway Factor (MPF). The likelihood of transport of contaminants through soil is evaluated qualitatively as *evident*, *potential*, or *confined* (see Figure 6 for definitions). Base MPF evaluations on available information and professional judgment. Assign *evident* to the MPF if analytical data or direct observation indicates that contamination is present at, is moving toward, or has moved to a point of exposure. This may be determined through analysis of runoff or observation of secondary sources as a result of the slumping of soil or wind erosion.

Assign *potential* to the MPF if contamination has moved only slightly beyond the source (i.e., tens of feet) or it could move but is not moving appreciably. Where there is insufficient information to support an MPF of *evident* or *confined*, the MPF defaults to *potential* (see Figure 12). This rating would be appropriate when the there is no evidence of movement from an unconfined source or when berms surrounding sources are old, eroding, or otherwise unmaintained.

To apply the *confined* MPF to a site requires information that transport of contaminated surface soil from the site to a point of exposure is restricted. Reasons to believe such confinement exists include the presence of site barriers such as buildings, maintained berms, and pavement or caps that prevent contact with the contaminated soil or prevent the contaminated soil from moving to a point of exposure. When conducting relative risk site evaluations for soils, take into account remedies implemented to contain or confine soil contamination.

Receptor Factor (RF). Soil receptors include only those humans with the potential to come into contact with contaminated surface soils, including residents, persons attending school or daycare on the site or in proximity to the site, and workers who have direct access to soil contamination on a frequent long-term basis.

The RF can be *identified*, *potential*, or *limited* (see Figure 6 for definitions). The RF is *identified* if analytical data or direct observation indicates that people reside or frequently work, recreate, or attend school or daycare in the area of contamination. If there are no workplaces, residences, schools, or daycare centers in the area of contamination, but access is not restricted, the RF is *potential* (see Figure 12).

Evaluate the RF as *limited* when it is unlikely that humans will come into contact with the contaminated soil. This would be appropriate when the MPF is *confined*.

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Last Updated: 30 July 1997
Robert Turkeltaub, Office of the Deputy Under Secretary of Defense (Environmental Security), turkelrb@acq.osd.mil
Scott English, U.S. Army Environmental Center, sdenglis@aecl.apgea.army.mil
Geoff Cullison, U.S. Navy/Environmental Protection, Safety and Occupational Health Division, cullisong@n4.opnav.navy.mil
Bob Furlong, Headquarters U.S. Air Force/Directorate of Environmental Quality, furlongr@afce.hq.af.mil

Terms and Definitions

Base Realignment and Closure (BRAC)
Refers to policy, procedures, authorities, and responsibilities for closing or realigning military installations across the Department of Defense. Includes environmental restoration activities.

Baseline Risk Assessment
An analysis of the potential adverse health effects (current or future) caused by contaminant releases from a site in the absence of any actions to control or mitigate these releases.

Cancer Risk
Incremental probability of an individual developing cancer over a lifetime as a result of exposure to a carcinogen.

Comprehensive Environmental Response, Compensation and Liability Act
CERCLA, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, establishes a comprehensive framework for identifying, investigating, and cleaning up releases of hazardous substances to the environment. CERCLA authorizes the President to take response actions when a release or the threat of a release is discovered. Through Executive Order 12580, signed in January 1987, the President directs the Secretary of Defense to implement investigation and cleanup measures in consultation with EPA for releases of hazardous substances from facilities under the jurisdiction of the Secretary.

Defense Environmental Restoration Account (DERA)
A transfer account, established by the Defense Appropriation Act of 1984, that funds the Installation Restoration Program for active installations and the Formerly Used Defense Sites Program for formerly owned or used installations. The account also funds the other goals of the Defense Environmental Restoration Program.

Defense Environmental Restoration Program (DERP)
A program established by Congress in 1984 to evaluate and clean up contamination from past DoD activities (Title 10 U.S. Code 2701-2707 and 2810.)

Defense Site Environmental Restoration Tracking System (DSERTS)
The Defense Site Environmental Restoration Tracking System (DSERTS) is a personal computer program used by installation and command level restoration program managers. It automates collection and reporting of information on sites addressed by the Defense Environmental Cleanup Programs (Installation Restoration and Base Realignment and Closure).

Exposure Point
A location of potential contact between a receptor and a chemical or physical agent.

Feasibility Study (FS)
Based on data collected during the remedial investigation, options for final cleanup actions are developed and evaluated in the FS. The FS is divided into two phases: (1) an initial screening of alternatives, followed by (2) the detailed analysis of alternatives. The detailed analysis, considers, among other things, cost-effectiveness, short- and long-term effectiveness, and the

overall protection of human health and the environment.

Hazard Quotient

The ratio of a single substance exposure level over a specified time period (e.g., subchronic) to a reference dose for that substance derived from a similar exposure period.

Interim Remedial Action (IRA)

An early response action that may be identified and implemented at any time during the study or design phase. IRAs are limited in scope, and they address only areas or media for which a final remedy will be developed by the RI/FS process. An IRA should be consistent with the final remedy for a site.

Media

Environmental media subject to relative risk evaluation, namely groundwater, surface water, sediment, and soils.

Measures of Merit (MOMs)

DoD has developed Measures of Merit (MOMs) to define goals, measure how well these goals are achieved, and assess program effectiveness. MOM #1 sets forth goals for relative risk reduction at sites in DERP over time. MOM #3 tracks the number of sites where cleanup action has been taken and relative risk has been reduced in one or more media.

National Oil and Hazardous Substances Pollution Contingency Plan (NCP)

Located at 40 Code of Federal Regulations 300, the NCP establishes EPA's response policy and lays out the key response steps for implementing CERCLA.

No Further Action (NFA)

A no-further-action designation for a site means that response actions are either complete or not required and no additional actions are warranted. A no-further-action decision can be made at different points in the process if data indicate that risks are within acceptable levels.

Not Required (NR)

A site status classification that means that relative risk site evaluation is not required. This classification applies to sites designated "Response Complete" (RC) or all "Remedies in Place" (RIP).

Petroleum, Oil, and Lubricants (POL)

For example, jet fuel, gasoline, and their sludges.

Preliminary Assessment (PA)

A limited-scope investigation designed to distinguish between sites that pose little or no threat to human health and the environment and sites that require further investigation. The PA is typically based on installation record searches, visual site inspections, and interviews of site personnel. It is required at sites listed on the Federal Facility Hazardous Waste Compliance Docket.

Preliminary Remediation Goals (PRGs)

Relative risk PRGs are concentration levels set for individual chemicals that, for carcinogens, correspond to a specific cancer risk level of 1 in 1 million and, for noncarcinogens, correspond

to a Hazard Quotient of 1. They are generally selected when Applicable or Relevant and Appropriate Requirements (ARARs) are not available.

RCRA Facility Assessment (RFA)

The first step in the RCRA corrective action process. The RFA acts as a screen, first identifying and then eliminating solid waste management units (SWMU), environmental media, or entire facilities from further consideration for corrective action. RFAs are performed as part of the RCRA permitting process.

Receptor

A human individual or individuals, ecological population, or sensitive environment subject to, or potentially subject to, the hazard of contaminant exposure. Sensitive environments considered as receptors are listed in Table 2.

Reference Dose (RfD)

An estimated daily exposure level of a contaminant to a human population below which no adverse noncancer health effects are anticipated.

Relative Risk

The grouping of sites in DERP into High, Medium, and Low categories based on an evaluation of site information using three key factors: the contaminant hazard factor (CHF), the migration pathway factor (MPF), and the receptor factor (RF).

Remedial Action (RA)

Involves the construction, operation, and implementation of the final cleanup remedy. Long-term RAs require continued monitoring, operation, and maintenance for a number of years.

Remedial Action Operation (RAO)

A site status classification that applies after all remedies are in place, but before a response complete decision is made.

Remedial Design (RD)

Involves the development of the actual design of the selected cleanup remedy including preparation of all technical drawings and specifications needed to implement the cleanup action.

Remedial Investigation (RI)

A field investigation that is more extensive than an SI. Its purpose is to characterize the nature and extent of contamination at a site. The RI also assesses the risks posed by on-site contamination to human health and the environment.

Remedies in Place (RIP)

A site status classification that implies that all required removal and/or remedial actions are in place at a site. If a site required a remedial action for contaminated groundwater and a second such action for contaminated soils, both actions would need to be in place (e.g., operating successfully for groundwater and construction completion for soil) at the site before making an RIP designation.

Removal Action

Taken to respond to a release, or threat of a release, of hazardous substances, pollutants, or

contaminants so as to prevent, minimize, or mitigate harm to human health or the environment. Such actions may be taken during any phase of the site cleanup.

Resource Conservation and Recovery Act (RCRA)

RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA), requires the establishment of a management system for hazardous waste (Subtitle C), non-hazardous solid waste (Subtitle D), and underground storage tanks (Subtitle I). RCRA also provides corrective action authority for cleanup of non-hazardous solid waste management units.

Response Complete (RC)

A "response complete" designation means that a Component deems that no further action is required at the site with the exception of long-term monitoring. A RC determination requires that (1) there is no evidence that contaminants were released at the site, (2) no contaminants other than background levels were detected at the site, (3) contaminants attributable to the site are below action levels used for risk screening, (4) the results of a baseline risk assessment demonstrate that cumulative risks posed by the site are below established thresholds, or (5) removal and/or remedial actions at a site have been implemented, completed, and are the final action for the site.

Restoration Management Information System (RMIS)

A DoD database used to track information on the status and progress of activities at sites in the DERP. It is used to support the Annual Report to Congress and is linked with DSERTS.

Site

A discrete area where contamination has been verified, requiring further response action. By definition, a site has been or will be entered into RMIS. For the Formerly Utilized Defense Sites (FUDS) program, a *site* is equivalent to a "project" and an *installation* is equivalent to a "FUDS Property." Hence, there may be multiple projects on a single FUDS property.

Site Inspection (SI)

Performed if the PA recommends further investigation. SI investigations typically collect waste and environmental samples to determine the hazardous substances present at a site and whether they are being released to the environment.

Slope Factor (SF)

A plausible upper-bound estimate of the probability of a response per unit intake of a chemical over a lifetime. The slope factor is used to estimate an upper-bound probability of an individual developing cancer as a result of a lifetime of exposure to a particular level of a carcinogen.

Source

Area where hazardous substances or petroleum products have been deposited, stored, released, disposed of, or placed.

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Last Updated: 30 July 1996
Robert Turkeltaub, Office of the Deputy Under Secretary of Defense (Environmental Security), turkelrb@acq.osd.mil
Scott English, U.S. Army Environmental Center, sdenglis@aecl.apgea.army.mil

Geoff Cullison, U.S. Navy/Environmental Protection, Safety and Occupational Health Division, cullisong@n4.opnav.navy.mil
Bob Furlong, Headquarters U.S. Air Force/Directorate of Environmental Quality, furlongr@afce.hq.af.mil

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U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, *The Hazard Ranking System Guidance Manual,* Directive 9345.1-07, Interim Final, November 1992. Section A.4 of this document contains sources of information for identifying sensitive environments listed in Table 2 of this Primer. Copies of this section can be obtained by calling the Cleanup Program Office at (703) 697-7475 or through the National Technical Information Service at 1-800-553-NTIS.

U.S. Environmental Protection Agency, *Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance; Final Rule*, 57 *Federal Register* 60848; 22 December 1992.

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September 1995.

[redacted]

Last Updated: 30 July 1996

Robert Turkeltaub, Office of the Deputy Under Secretary of Defense (Environmental Security), turkelrb@acq.osd.mil
Scott English, U.S. Army Environmental Center, sdenglis@aecl.apgea.army.mil
Geoff Cullison, U.S. Navy/Environmental Protection, Safety and Occupational Health Division, cullisong@n4.opnav.navy.mil
Bob Furlong, Headquarters U.S. Air Force/Directorate of Environmental Quality, furlongr@afce.hq.af.mil

LIST OF ACRONYMS AND ABBREVIATIONS

ARAR
Applicable or Relevant and Appropriate Requirements

BRAC
Base realignment and closure
BTEX
Benzene, Toluene, Ethylbenzene, and Xylene

CERCLA
Comprehensive Environmental Response, Compensation, and Liability Act
CAS
Chemical Abstract System
CHF
Contaminant Hazard Factor
CHHPM
Center for Human Health and Preventative Medicine

DERA
Defense Environmental Restoration Account
DERP
Defense Environmental Restoration Program
DLA
Defense Logistics Agency
DSERTS
Defense Site Environmental Restoration Tracking System
DoD
Department of Defense
DUSD(ES)
Deputy Under Secretary of Defense (Environmental Security)

EPA
U.S. Environmental Protection Agency
ER-L
Environmental Response-Low

FS
Feasibility Study
FUDS
Formerly Used Defense Sites
FY
Fiscal Year

GAO
Government Accounting Office
GW

Groundwater

HEAST
Health Effects Assessment Summary Tables
HSWA
Hazardous and Solid Waste Amendments

ID
Identification
IRA
Interim Remedial Action
IRIS
Integrated Risk Information System
IRP
Installation Restoration Program

LOEL
Lowest Observed Effects Level
LTM
Long-term monitoring

mg/kg
Milligrams per kilogram
MPF
Migration Pathway Factor

NCP
National Oil and Hazardous Substances Pollution Contingency Plan
NFA
No Further Action
NOAA
National Oceanic and Atmospheric Administration
NR
Not Required

PA
Preliminary Assessment
PAH
Polyaromatic Hydrocarbons
PCB
Polychlorinated Biphenyl
PCi/kg
Picocuries per kilogram
PCi/l
Picocuries per liter
POL
Petroleum, Oil, and Lubricants
ppb
Parts per billion

ppm
Parts per million
PRG
Preliminary Remediation Goal

RA
Removal Action
RAB
Restoration Advisory Board
RAO
Remedial Action Operation
RC
Response Complete
RCRA
Resource Conservation and Recovery Act
RD
Remedial Design
RF
Receptor Factor
RFA
RCRA Facility Assessment
RfD
Reference Dose
RI
Remedial Investigation
RIP
Remedies in Place
RMIS
Restoration Management Information System

SARA
Superfund Amendments and Reauthorization Act
SF
Slope Factor
SI
Site Inspection
Std
Standard
SW
Surface Water

TCE
Trichloroethylene
TPH
Total petroleum hydrocarbons

UXO
Unexploded ordnance

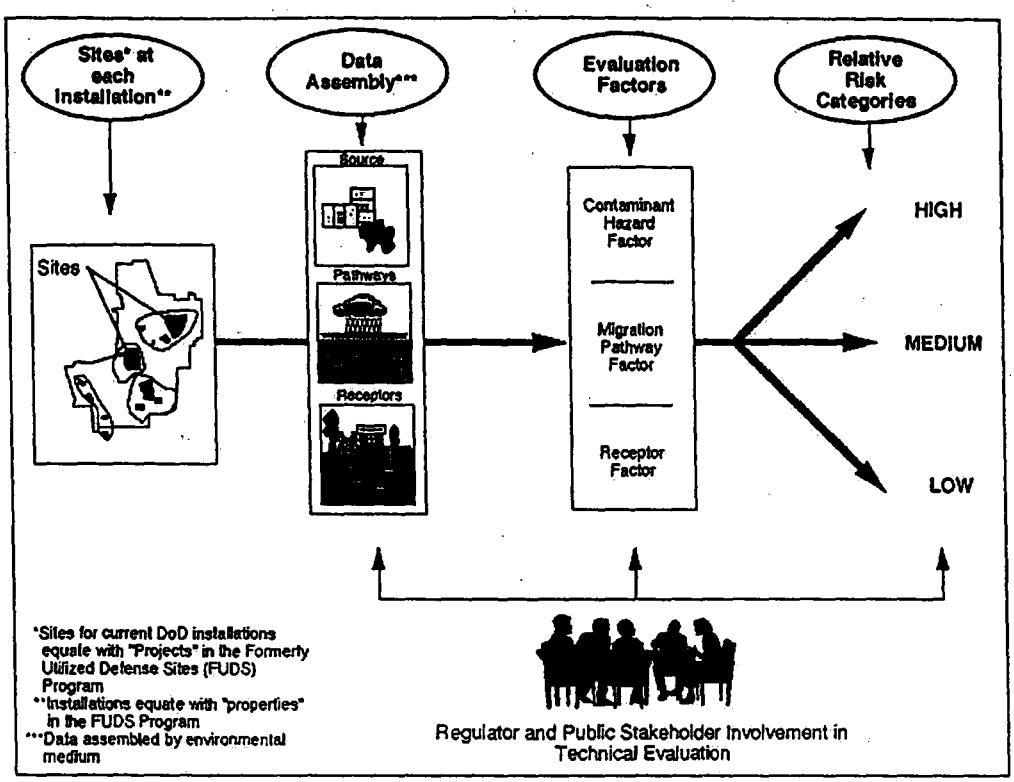


Figure 1. Relative Risk Site Evaluation Concept Summary

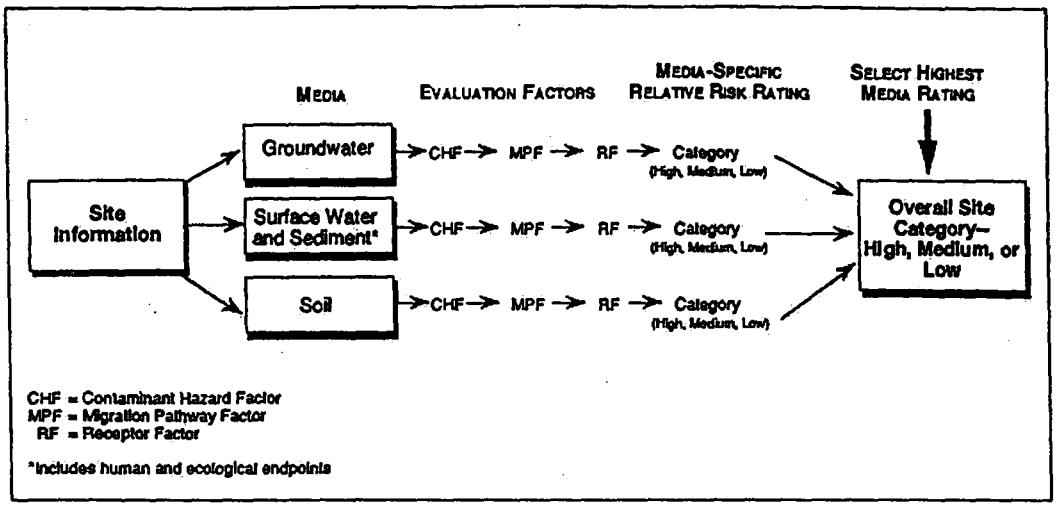


Figure 2. Flow Diagram of the Relative Risk Site Evaluation Framework

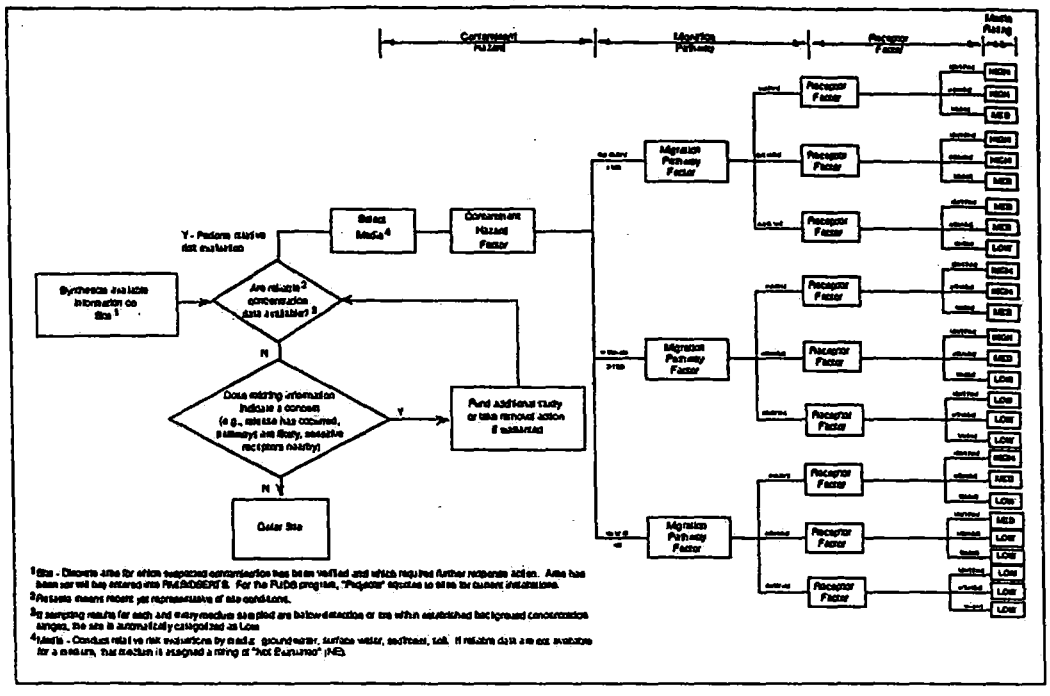


Figure 3. Relative Risk Site Evaluation Framework: Decision Flowchart

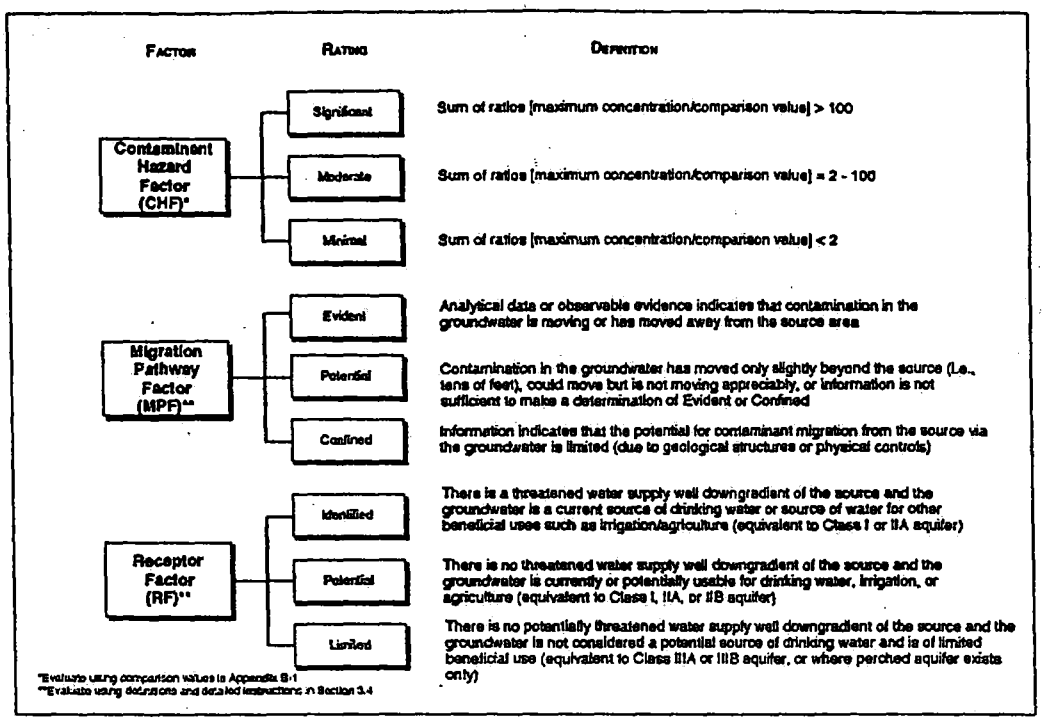


Figure 4. Relative Risk Site Evaluation Factor Information for Groundwater

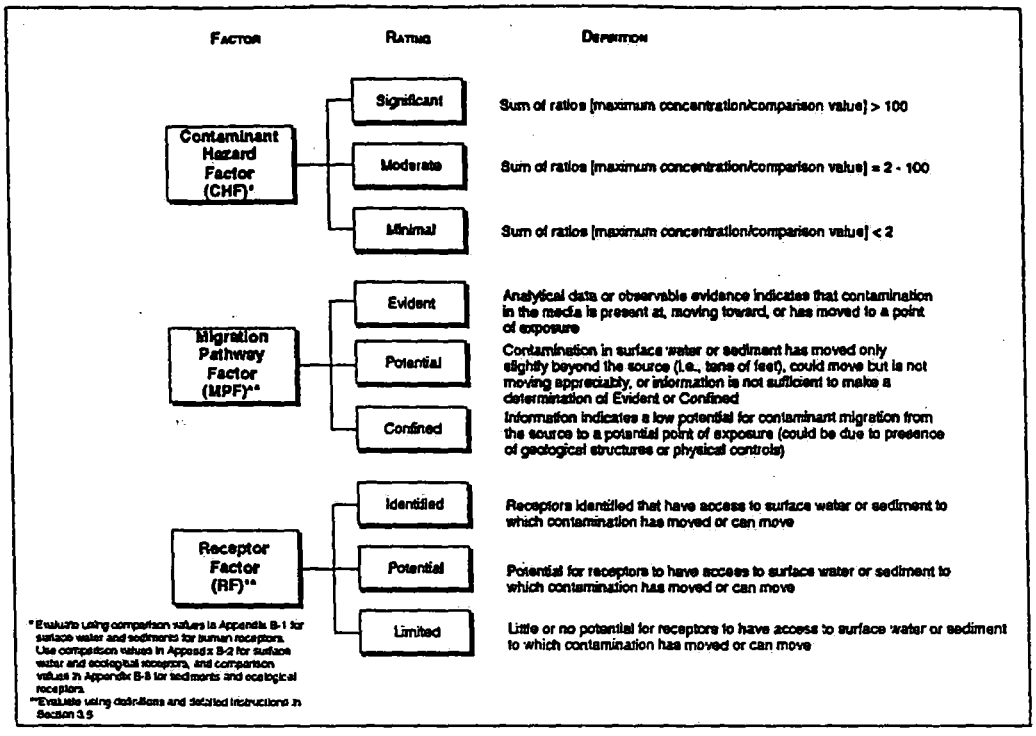


Figure 5. Relative Risk Site Evaluation Factor Information for Surface Water and Sediment

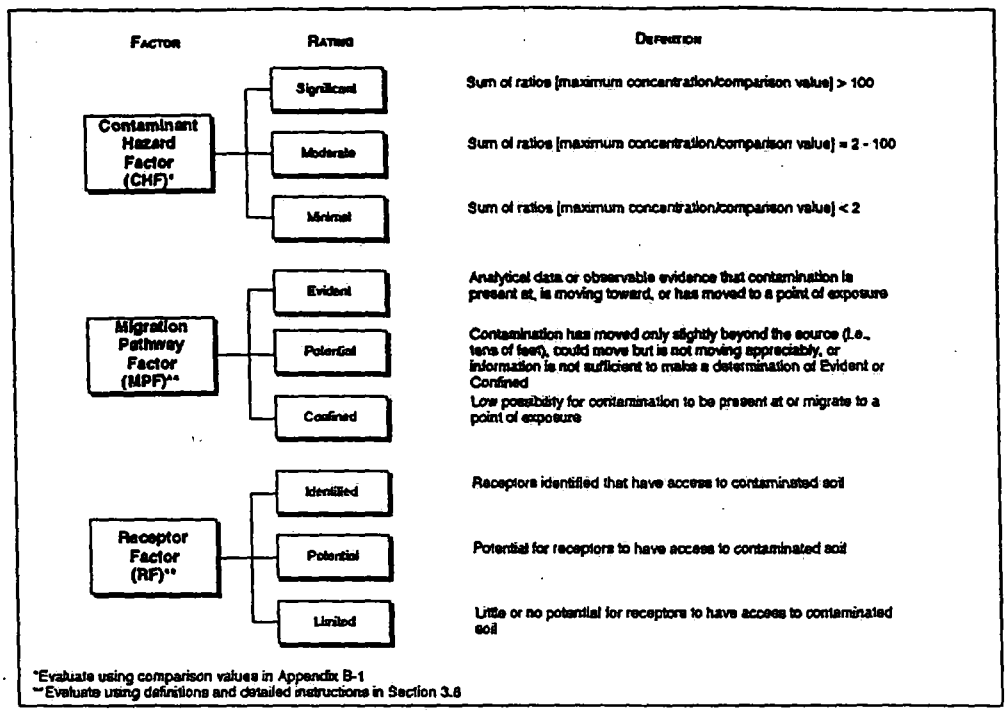


Figure 6. Relative Risk Site Evaluation Factor Information for Soils

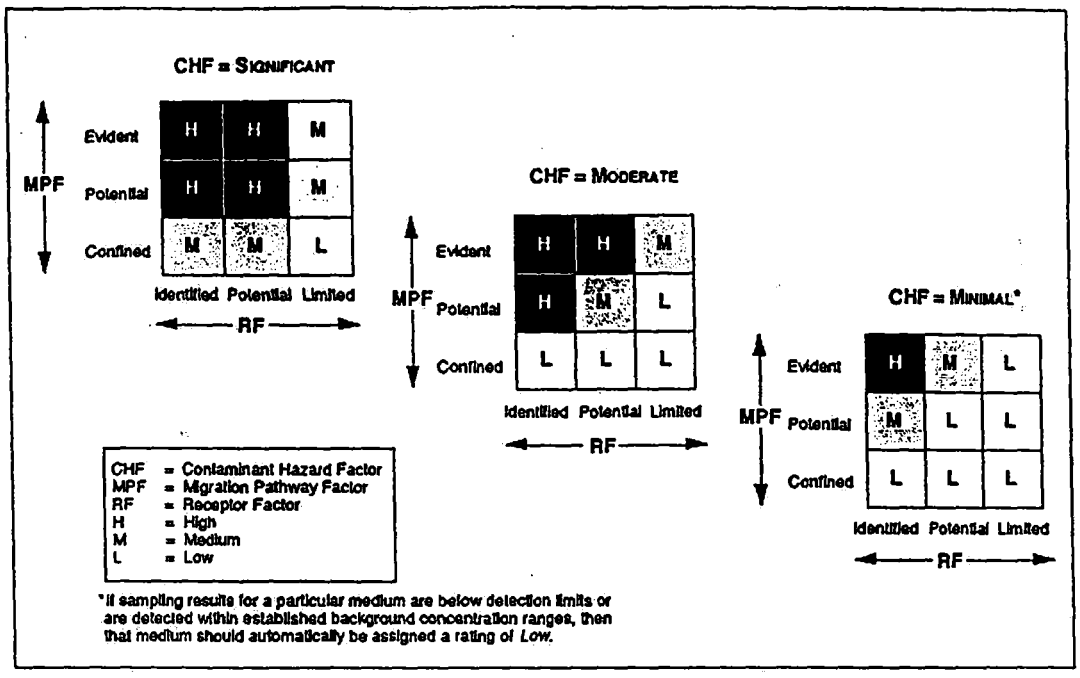


Figure 7. Relative Risk Site Evaluation Matrix

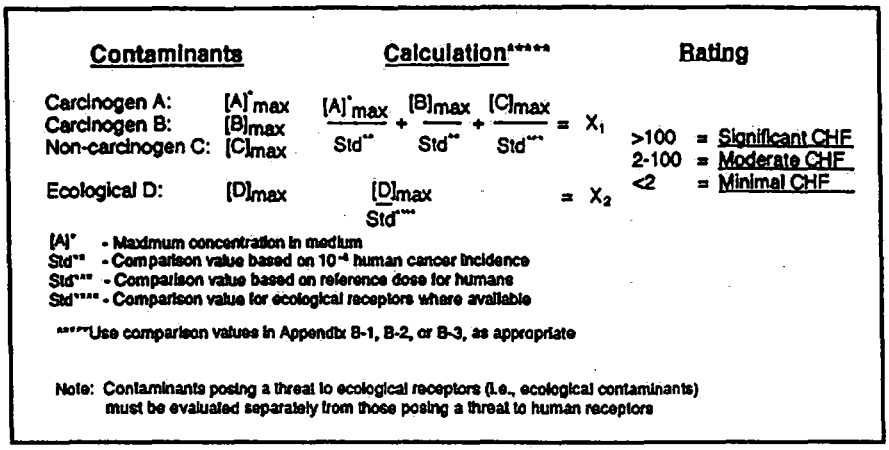


Figure 8. Mechanics of the Contaminant Hazard Factor Calculation

Contaminants		Calculation*****	Rating
Carcinogen A: Carcinogen B: Non-carcinogen C: Carcinogen/ Non-carcinogen E:	$[A]^*_{max}$ $[B]_{max}$ $[C]_{max}$ $[E]_{max}$	$\frac{[A]^*_{max}}{Std^{**}} + \frac{[B]_{max}}{Std^{**}} + \frac{[C]_{max}}{Std^{***}} + \frac{[E]_{max}}{Std^{**}} + \frac{[E]_{max}}{Std^{***}} = X_1$	>100 = Significant CHF 2-100 = Moderate CHF <2 = Minimal CHF
Ecological D:	$[D]_{max}$	$\frac{[D]_{max}}{Std^{****}} = X_2$	

[A]* - Maximum concentration in medium
Std** - Comparison value based on 10^{-4} human cancer incidence
Std*** - Comparison value based on reference dose for humans
Std**** - Comparison value for ecological receptors where available

*****Use comparison values in Appendix B-1, B-2, or B-3, as appropriate

Note: Contaminants posing a threat to ecological receptors (i.e., ecological contaminants) must be evaluated separately from those posing a threat to human receptors

Figure 9. Mechanics of the Contaminant Hazard Factor Calculation for Substances with both Carcinogenic and Non-Carcinogenic Effects

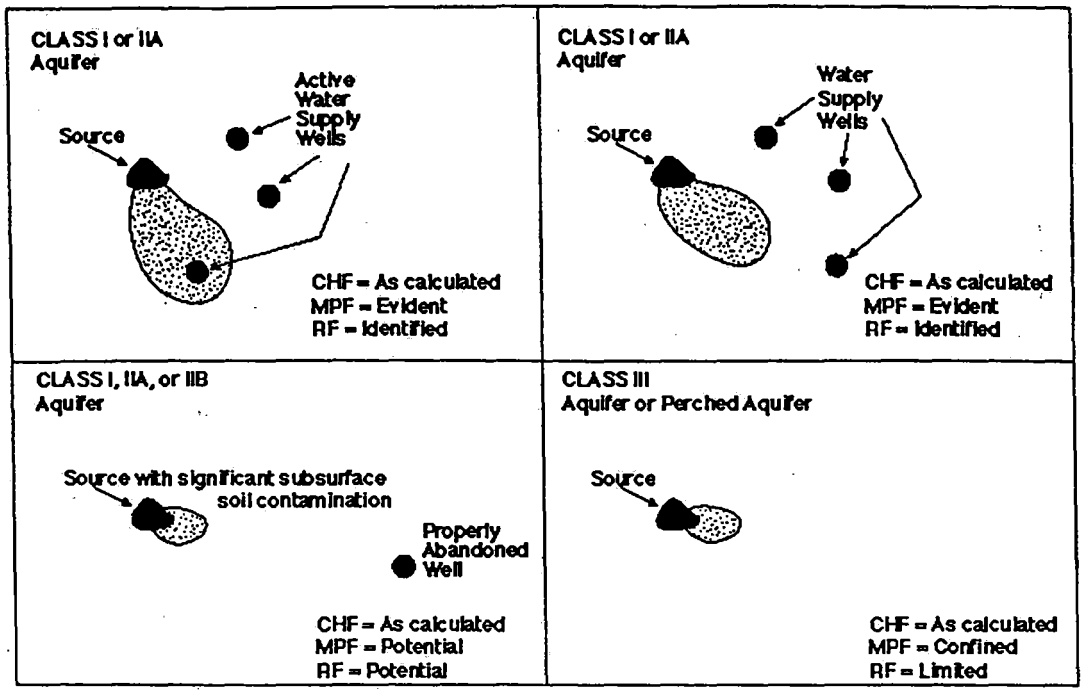


Figure 10. Example Scenarios for the Groundwater Medium

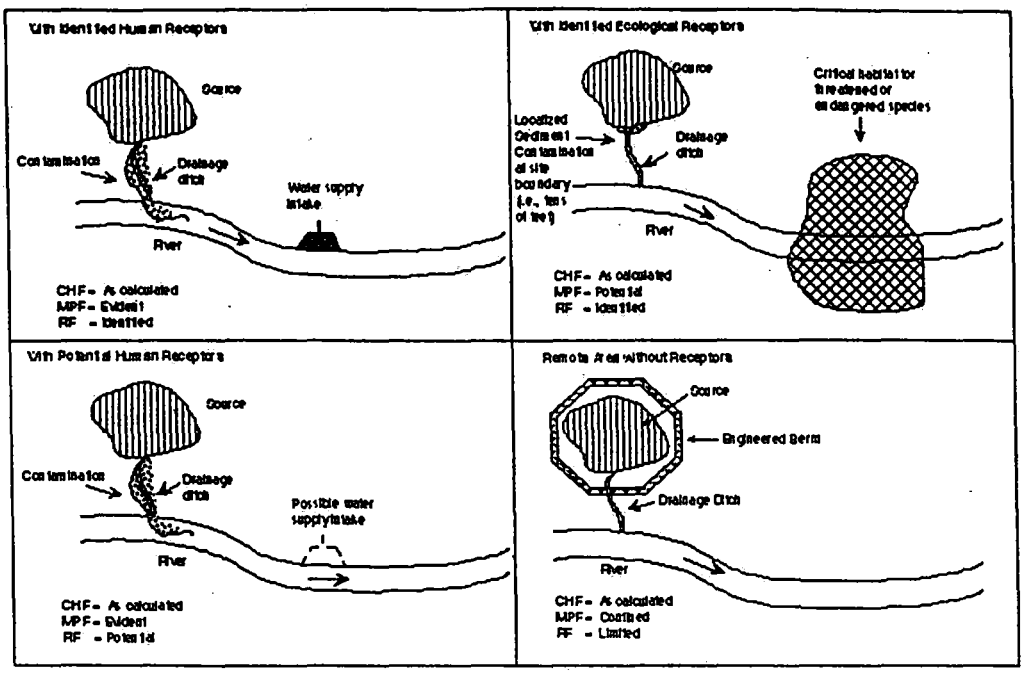


Figure 11. Example Scenarios for the Surface Water and Sediment Media

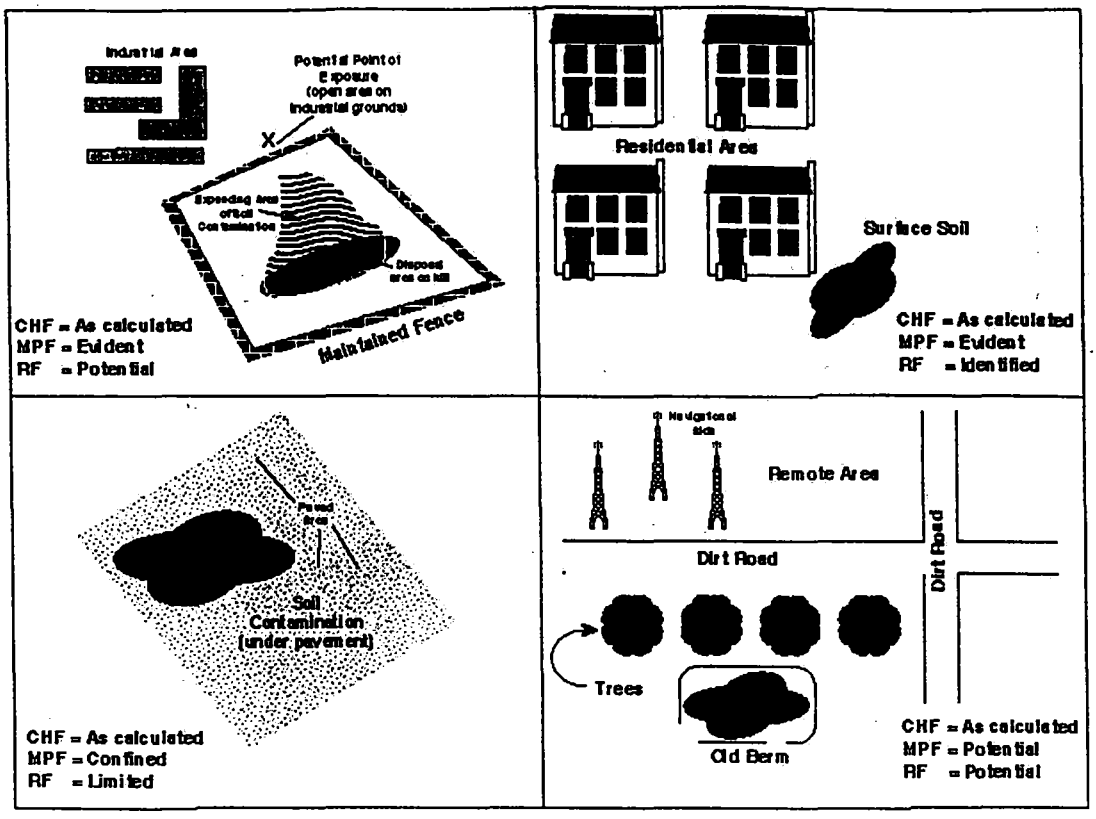


Figure 12. Example Scenarios for the Soil Medium

APPENDIX F

RELATIVE RISK SITE EVALUATION WORKSHEETS

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 1
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

On January 24, 1994, a 2,000-gallon diesel fuel emergency generator tank installed in 1978 was removed from the site. The tank was replaced with a 2,500-gallon double-wall fiberglass UST. Contamination was left in the excavation cavity when it was backfilled.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 1
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	2.12	720	0.003
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 13
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Removed (2) 1961 20,000 gallon boiler #6 diesel fuel tanks on January 24, 2991. Visual signs of petroleum contamination existed along the side of the east tank, within the backfill of a four inch natural gas line. The release is believed to have occurred from overspills and/or leaking supply/return lines. Contamination remained at the site when the excavation cavity was backfilled.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 13
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	4.4	39	0.11
Toluene	19	720	0.03
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Lead	144	4	36.00
		TOTAL	36.14

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, however, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 68H
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

On June 28, 1999, removed one 1943 1,500-gallon gasoline UST including the associated piping. As soil was being excavated for the removal, a release was determined through visual and olfactory observations. The source of the releases surrounding the UST was determined to be due to the tank deterioration. Free product was not encountered during the removal. The removal actions generated approximately 30 cubic yards of contaminated soil that was disposed at a landfill. The contaminated hole was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 68H
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	83.5	39	2.14
Toluene	116.7	720	0.16
Ethylbenzene	925.1	1,300	0.71
Xylenes	2,384	1,400	1.70
Lead	365	4	91.25
		TOTAL	95.96

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, however, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 90
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 90 was built in 1917 and demolished in 1997. There are no records of the tanks in existence. During the trenching for a steam line for the construction of a new A School Barracks, a 15,000-gallon UST that supplied fuel oil #5 to building 90 was found. The tank was removed on January 26, 2001 and was found to be in poor condition with numerous holes in the tank. The excavation was contaminated and contained free product. No over excavation was conducted. Approximately 3,500 gallons of fuel oil was recovered from the tank excavation. The extent of contamination is unknown.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 90
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Benz(a)anthracene	1.44	9.2	0.16
Benzo(a)pyrene	1.19	92	0.01
Benzo(k)fluoranthene	1.18	92	0.01
Indeno(1,2,3-cd)pyrene	0.86	9.2	0.09
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 103
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

In October 1997, three 10,000-gallon gasoline USTs, one 12,500-gallon diesel UST, and one 1,200-gallon kerosene UST were removed from the site. The USTs were installed in 1960. Free product was recovered from the excavation cavity and 1,275 cubic yards of contaminated soil was removed from the site and treated at a bioremediation site located on the base. The excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 103
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 1

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 106
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

On December 3, 1993, one 1958 1,000-gallon #2 diesel fuel oil steel UST was removed from the site. Visual signs of petroleum contamination existed beneath the tank including soil staining and a strong odor. The contaminated excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 106
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	0.00264	39	---
Toluene	0.00668	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 1

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 144
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 144 was a PWC gasoline station. There were two 20-000 gallon gasoline tanks that were installed in 1952 and removed on February 27, 1991. There was also one 600-gallon used oil tank that was replaced with a new used oil tank on December 3, 1993. Free product and extensive contamination was found in the excavation. Extensive (3,000 cubic yards) over-excavation was conducted at this site but funds were insufficient to complete the needed cleanup.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 144
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	1.738	39	0.044
Toluene	3.634	720	0.005
Ethylbenzene	0.2664	1,300	0.0002
Xylenes	1.4649	1,400	0.001
		TOTAL	<1

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, however, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 229
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 229 is a Steam Propulsion Trainer constructed in 1961. To support the operation of a boiler, two steel USTs containing 12,500 gallons of diesel were installed in 1963. In conjunction with the installation of the diesel tanks a 500 gallon waste oil UST was also installed. The tanks failed a tightness test in 1990 and were removed from service with the contents being removed and the piping disconnected. The tanks were removed on February 26, 1999. Free product and extensive contamination was found in the excavation and remains at the site.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 229
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Lead	124	4	31
		TOTAL	31

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 238
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

In 1991, a 5,000-gallon diesel fuel steel UST that was installed in 1979 failed a tank tightness teat. Use of the tank was stopped, the tank was drained and the piping was repaired. On March 1, 1994, the UST was removed from the site. The contaminated excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 238
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	—
Toluene	Below Detection Limit	720	—
Ethylbenzene	Below Detection Limit	1,300	—
Xylenes	Below Detection Limit	1,400	—
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 239
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 239 is a steam propulsion trainer constructed in 1973. To support the boiler operations, two 20,000-gallon diesel steel USTs were installed along with a 500-gallon used oil UST in 1973. In 1990, the three tanks failed tightness and were drained, piping disconnected and removed from service. The three tanks were removed on March 12, 1999. Free product and extensive contamination was found in the excavation.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 239
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	1.69	720	0.0023
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 324
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 324 is a Gas Turbine Trainer constructed in 1945. To support the trainer engines, three 3,500-gallon diesel USTs were installed in 1947 along with one 3,500-gallon used oil UST. In 1992 all four tanks failed a tightness test and were drained, piping disconnected and the tanks were removed from service. The tanks were removed on May 3, 1999. Free product and extensive contamination was found in the excavation and left in place.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 324
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Benz(a)anthracene	45	9.2	4.89
Benzo(a)pyrene	6.1	92	0.66
Benzo(b)fluoranthene	4.2	9.2	0.46
Benzo(k)fluoranthene	5.9	92	0.06
Dibenz(a,h)anthracene	7.7	0.92	8.37
Indeno(1,2,3-cd)pyrene	7.9	9.2	0.86
		TOTAL	15.30

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 329
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Building 329 is a Diesel Engineman Trainer constructed in 1983. To support the engines, two 1,200-gallon diesel steel underground storage tanks were installed in 1983 on the south side of the building. A 500-gallon used steel underground storage tank was also installed in 1983. In 1992, the three UST's were tightness tested for the first time. The tanks failed the initial tightness test. Following this test all three tanks were taken out of service with all of the contents removed on March 25, 1999. Free product and extensive contamination was found in the excavation and remains at the site.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 329
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	—
Toluene	Below Detection Limit	720	—
Ethylbenzene	Below Detection Limit	1,300	—
Xylenes	Below Detection Limit	1,400	—
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is not present at concentrations above the method detection limit, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF must be considered Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 2912
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

On July 28, 1997, a 2,000-gallon diesel UST installed in 1989 was removed from the site. Visual evidence of diesel contamination was observed in the excavation cavity as well as the presence of a diesel odor from the soil. The excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 2912
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 3114A
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

One 1,000-gallon steel UST was removed from the site in 1991. The UST was installed in 1943. The contaminated excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 3114A
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 3216B
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

The UST was located on the east side of Building 3216B. The UST removed on December 1, 1999 was a 3,500-gallon steel tank that held diesel fuel for the CBU 401 Vehicle Storage Area dating from 1954. The tank was shut down prior to 1974. At the time of the removal, the contents were removed and the associated piping was disconnected. The tank was discovered during a parking lot grading project. During tank removal, significant deterioration of the tank was found. Free product was found in the excavation. Soil and groundwater contamination combined with additional free product remain at the site. The site is up gradient of the Skokie river, which flows through base housing and then off base through private residential areas.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 3216B
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	2.55	720	0.004
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Benz(a)anthracene	53.8	9.2	5.85
Chrysene	23.7	920	0.03
Napthalene	47.4	6.2	7.65
Pyrene	532	180	2.96
		TOTAL	16.49

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 3400
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Removed (2) 1961 20,000 gallon boiler #6 diesel fuel tanks on January 24, 2991. Visual signs of petroleum contamination existed along the side of the east tank, within the backfill of a four inch natural gas line. The release is believed to have occurred from overspills and/or leaking supply/return lines. Contamination remained at the site when the excavation cavity was backfilled.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 3400
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	---
Toluene	Below Detection Limit	720	---
Ethylbenzene	Below Detection Limit	1,300	---
Xylenes	Below Detection Limit	1,400	---
Benz(a)anthracene	6.93	9.2	0.75
Benzo(a)pyrene	14	92	0.15
Benzo(k)fluoranthene	6.77	9.2	0.74
Chrysene	7.89	920	0.01
Dibenz(a,h)anthracene	2.37	0.92	2.58
Indeno(1,2,3-cd)pyrene	11.4	9.2	1.24
		TOTAL	5.56

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered moderate, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category MEDIUM
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 3402
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

On January 24, 1994, a 2,000-gallon diesel fuel emergency generator tank installed in 1978 was removed from the site. The tank was replaced with a 2,500-gallon double-wall fiberglass UST. Contamination was left in the excavation cavity when it was backfilled.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 3402
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	—
Toluene	Below Detection Limit	720	—
Ethylbenzene	Below Detection Limit	1,300	—
Xylenes	Below Detection Limit	1,400	—
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

RELATIVE RISK SITE EVALUATION WORKSHEET

SITE[1] BACKGROUND INFORMATION

Installation/Property Name for FUDS: Naval Training Center, Great Lakes
Location (City/County/State): Great Lakes/Lake Co./Illinois
Site (Name/DSERTS ID)/Project (Name/Project No.) for FUDS: Bldg 3511
Point of Contact (Name/Phone): Carlo Luciano 847-688-5999 x 150

Date Entered/Updated (day, month, year): November 2002
Media Evaluated (GW, SW, Sediment, Soil, Sed Eco, Soil Eco): GW
Phase of Execution (SI, RI, FS, EE/CA,IRA,RD/RA,or Equiv.RCRA Stage): SI
Agreement Status (enter appropriate DERP Site Code):

SITE SUMMARY

(Include only the key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

In November 1994, one 1960 4,000-gallon #2 diesel fuel oil steel UST, one 1966 20,000-gallon #2 diesel fuel oil UST and one 1966 #6 diesel fuel oil UST was removed from the site. The contaminated excavation cavity was backfilled with clean soil.

Brief Description of Pathways (Groundwater, Soil, Surface Water (Human) Surface Water (Ecological), Sediment (Human), Sediment (Ecological):

Groundwater is considered a potential pathway at this site. The site can be classified as having EPA Class III Groundwater, which is defined as groundwater that is not considered a potential source of drinking water and of limited beneficial use, is saline, or is otherwise contaminated by naturally occurring constituents or human activity that is not associated with a particular waste disposal activity or another site beyond levels that allow remediation methods reasonably employed in public water treatment systems. Class III also includes groundwater that is not available in sufficient quantity at depth to meet the needs of an average household.

Soil is not considered a potential pathway at this site. The DOD Relative Risk Site Evaluation Primer states that hazards posed by subsurface soil contaminants (e.g., a buried leaking storage tank deeper than 24 inches) is assumed to be assessed by the evaluation of groundwater (based on actual groundwater sampling data), which would be the most probable pathway of deep soil contaminant migration to humans.

Surface water and sediment are not considered a potential pathway at this site since contamination at this site has occurred to the subsurface environment (deeper than 24 inches).

Brief Description of Receptors (Human and Ecological)

As defined by the DOD Relative Risk Site Evaluation Primer, human receptors for the groundwater pathway include those individuals that may be exposed to groundwater contamination via onsite and downgradient water supply wells used for human consumption or in food production. Ecological receptors for groundwater have not been evaluated by the DOD Relative Risk Site Evaluation Primer.

1.The term Site is defined as a discrete area for which suspected contamination has been verified and requires further response action. A Site by definition has been, or will be entered into RMIS/DSERTS. For the FUDS Program, "projects" equates to sites for current installations.

Building 3511
GROUNDWATER

Containment Hazard Factor [1]
(CHF)

Contaminant	Max Concentration (ug/l)	Comparison Value (ug/l)	Ratio[2]
Benzene	Below Detection Limit	39	—
Toluene	Below Detection Limit	720	—
Ethylbenzene	Below Detection Limit	1,300	—
Xylenes	Below Detection Limit	1,400	—
Benz(a)anthracene	2.55	9.2	0.28
Benzo(a)pyrene	0.29	92	0.003
Benzo(b)fluoranthene	0.31	9.2	0.03
Benzo(k)fluoranthene	0.19	92	0.002
Chrysene	3.92	920	0.004
		TOTAL	< 2

[1] Evaluate for human contaminants only
[2] Ration – Max. Concentration Comparison Value (Significant if total > 100, Moderate if total 2-100, and Minimal if total < 2)

MIGRATION PATHWAY FACTOR (MPF)

Evident – Analytical data or observable evidence indicates that contamination in the groundwater is moving or has moved away from the source area.

Potential – Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.

Confined – Information indicates that the potential for contaminant migration from the source via the groundwater is limited (due to geological structures or physical controls)

Brief Rationale for Selection: Although impact to the groundwater for the contaminants of concern identified by the DOD Relative Risk Site Evaluation Primer for petroleum sites is considered minimal, a detailed evaluation of groundwater quality has not been performed. Therefore, the MPF is conservatively evaluated as being Potential.

RECEPTOR FACTOR (RF)

Identified – There is a threatened water supply downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer)

Potential – There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer)

Limited – There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only)

Brief Rationale for Selection: The site is classified as having EPA Class III groundwater, therefore the RF is classified as limited.

Groundwater Category LOW
(High, Medium, Low)

LUST UPADTE

DO 86

Bldg 1: Closed 13 May 05

Bldg 13: Resubmitted PE Cert 6 Sep 05. This needs to be sent to IEPA per their letter dated 10 May 05.

Bldg 68H: Per IEPA letter dated 11 May 05, additional testing is needed in order to fully delineate horizontal and vertical contamination. TolTest has prepared proposed comments to IEPA's issues in their letter dated 11 May 05. Recommend meeting with IEPA to determine parameters for closure. Recommend a Mod to DO 111 include additional testing.

Bldg 106: TolTest has prepared response to comments for IEPA letter dated 12 May 05. The proposed response and revised CACR is being reviewed and is expected to be delivered to you by the end of Nov 05.

Bldg 229: Per TolTest's letter dated Sept 6, 2005, additional site history info is required. It is our understanding that a former dry cleaning facility was located in the vicinity of the former LUST Site. During the RRR Study, TolTest collected subsurface soil samples that indicated a concentration of TCE in the subsurface soils. We believe, based on our understanding of the previous use of the property, that the TCE is unrelated to the LUST. Therefore, we need to confirm ha the dry cleaning operation existed in the vicinity of the LUST Site. Once we receive this information, we can request closure for the LUST. The issue related to the TCE contamination will require some type of investigation to confirm or disprove this contamination.

Bldg 239: Closed 19 Oct 04

Bldg 324: Requested a copy of IEPA's letter dated 24 Jul 04 so the issues can be addressed by TolTest.

Bldg 2912: Closed 7 Oct 04

Bldg 3400: Closed 15 Oct 04

DO 111

Bldg 90: Draft CACR to be submitted to Navy by 11 Nov 05.

Bldg 144: Draft CACR to be submitted to Navy by 11 Nov 05.

Bldg 238: TolTest is awaiting Navy decision regarding Bldg 3216B and Bldg 68H before performing fieldwork. This will allow TolTest to complete all drilling activities at

one time and save the Navy from having to pay for additional mobilization/demobilization costs.

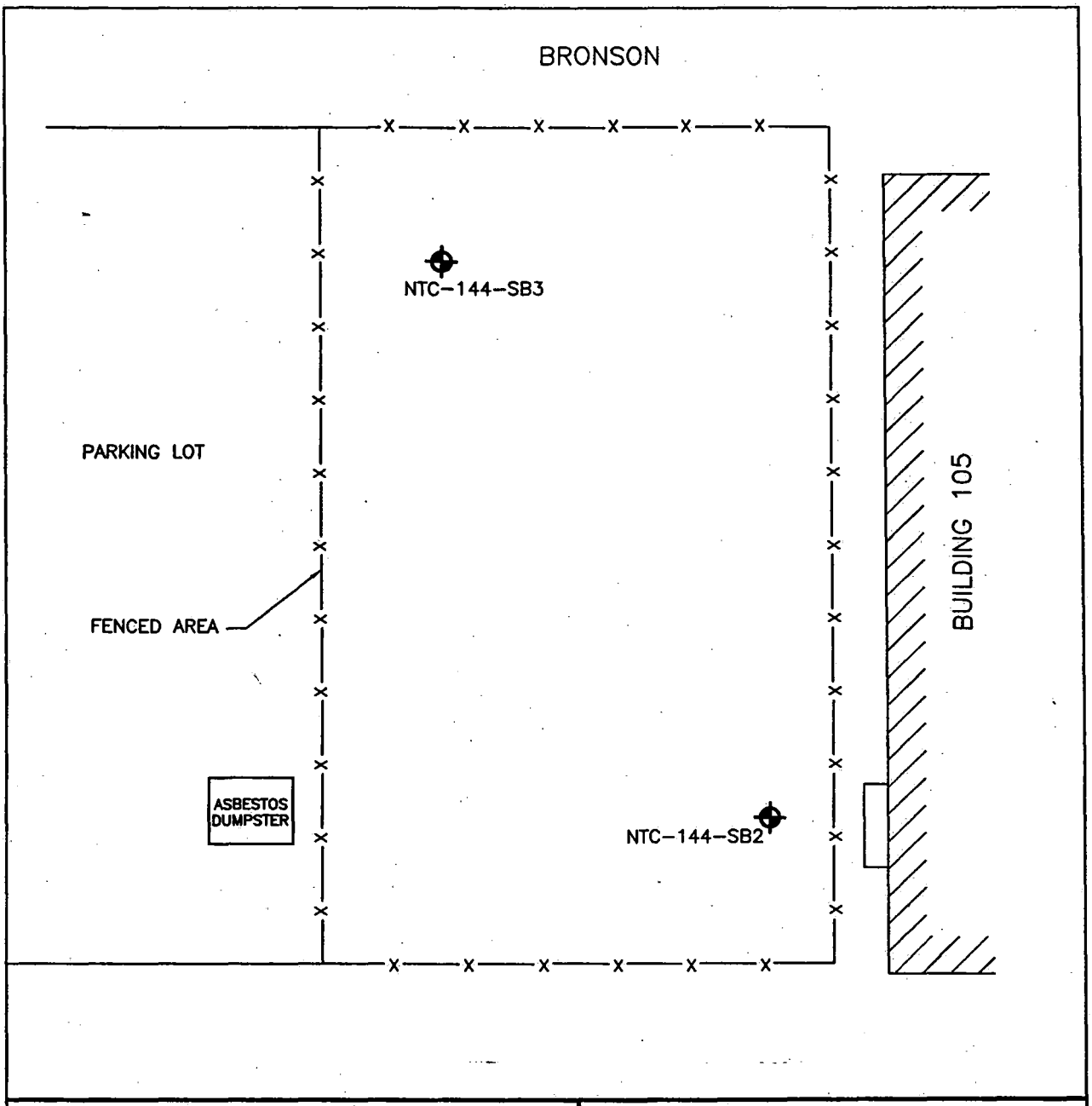
Bldg 329: TolTest is awaiting Navy decision regarding Bldg 3216B and Bldg 68H before performing fieldwork. This will allow TolTest to complete all drilling activities at one time and save the Navy from having to pay for additional mobilization/demobilization costs.

Bldg 3216: Draft CACR being reviewed. Expect submittal to Navy by end of Nov 05.

Bldg 3216B: Awaiting Navy decision for mod. SOW requires TolTest to sample three (3) groundwater monitoring wells and one (1) recovery well. TolTest can only locate one (1) groundwater monitoring well and one (1) recovery well. If the Navy cannot locate the two (2) missing wells, then a mod to DO 111 will be required for installing two (2) temporary piezometers.

Bldg 3402: Draft CACR being reviewed. Expect submittal to Navy by end of Nov 05.

Bldg 3511: Draft CACR to be submitted to Navy by 11 Nov 05.



⊕ – GEOPROBE BORING LOCATION

NTC-144-SB1 – NO SAMPLE RECOVERED

N

FIGURE 2.0G
SAMPLE LOCATION PLAN
BUILDING 144

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

PREPARED FOR

UNITED STATES NAVY
GREAT LAKES NAVAL TRAINING CENTER

DRAWN WBR/11-8-02	CHECKED MKA
REVISED	APPROVED SY
JOB NO. 41792.01	TOLTEST, INC.
DRAWING NUMBER 41792-06F	