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NAS BRUNSWICK
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Drum Investigation Summary Report Revision 1

for

Site 11 - Fire Training Area (FTA)
Naval Air Station
Brunswick, Maine

Northern Division
Naval Facilities Engineering Command
Contract Number N62472-90-D-1298
Contract Task Order 151

August 1995

Halliburton NUS
CORPORATION

W5295076F

DRUM INVESTIGATION
SUMMARY REPORT
REVISION 1

SITE 11 - FIRE TRAINING AREA (FTA)
NAVAL AIR STATION
BRUNSWICK, MAINE

INSTALLATION RESTORATION PROGRAM

Submitted to:
Northern Division
Environmental Branch, Code 18
10 Industrial Highway, Mail Stop #82
Lester, Pennsylvania 19113-2090

Submitted by:
Halliburton NUS Corporation
993 Old Eagle School Road, Suite 415
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CONTRACT NUMBER N62472-90-D-1298
"CLEAN" Contract Task Order No. 151

August 1995

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July 14, 1995

Halliburton-NUS Corporation/Brown and Root Environmental
55 Jonspin Road
Wilmington, Massachusetts 01887

Attention: Mr. Gordon Bullard, Project Manager

Subject: Review of: *Drum Investigation Summary Report for Site 11 - Fire Training Area (FTA), Naval Air Station, Brunswick, Maine,* prepared by Halliburton-NUS Corporation, dated June 1995 (Coastal Reference NH95D01).

Dear Mr. Bullard:

Pursuant to your request, a review of the above referenced report has been completed. The review included report Sections 1.0 through 6.0 and Appendix B, Test Pit Logs. Based upon this review and site observations on 2 December 1994, the following comments are presented.

- The described activities generally comply with accepted methods and procedures for geologic/environmental investigation.
- Descriptions of subsurface materials and stratigraphy are consistent with those observed by the reviewer during the removal of the described UST.
- The methods for collecting representative samples of soil and groundwater conducted by Halliburton-NUS Corp. field staff and observed by the reviewer are consistent with standard sample collection and handling protocols.
- The descriptions of the conditions encountered during the closure of the UST are consistent with the conditions observed by the reviewer.
- Based on the information presented in the report and the site conditions observed by the reviewer, the recommendations presented are consistent with the goal of protecting human health and the environment.

If you have any questions regarding these comments, please contact me at (603) 679-6775. Thank you for your interest in Coastal Environmental Corporation.

Sincerely,
Coastal Environmental Corporation

Daniel P. Fenno

Daniel P. Fenno, C.G.
Vice President, Hydrogeologist

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1.0 INTRODUCTION

Halliburton NUS Corporation (Halliburton NUS) has prepared this report summarizing the waste handling and drum removal activities associated with the Fire Training Area - Site 11 (FTA), at the Naval Air Station (NAS) in Brunswick, Maine. This report was prepared at the request of The United States Navy under Contract Task Order (CTO) No. 0151 of the Comprehensive Long-Term Environmental Action Navy (CLEAN) contract (No. N62472-90-D-1298).

The scope of work included excavating test pits in areas at the former FTA known to have contained or suspected of containing buried drums and miscellaneous containers of industrial waste at the former FTA. The work also included excavating and staging contaminated soils and drums; backfilling the excavations; re-containerizing, consolidating, and characterizing wastes as necessary to effect shipment; and removal of a 6,000 gallon fiberglass underground storage tank and associated piping and appurtenances.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

NAS Brunswick, located south of the Androscoggin River between Brunswick and Bath, Maine (Figure 2-1), is an active base, owned and operated by the Department of the Navy. NAS Brunswick occupies approximately 3,099 acres and is owned and operated by the United States of America, Department of the Navy. The NAS Brunswick is an active facility supporting the U.S. Department of the Navy's antisubmarine warfare operations. Its primary mission is to operate and maintain P-3 Orion aircraft. NAS Brunswick first became active in the 1940s during World War II, and underwent major expansion in the 1950s.

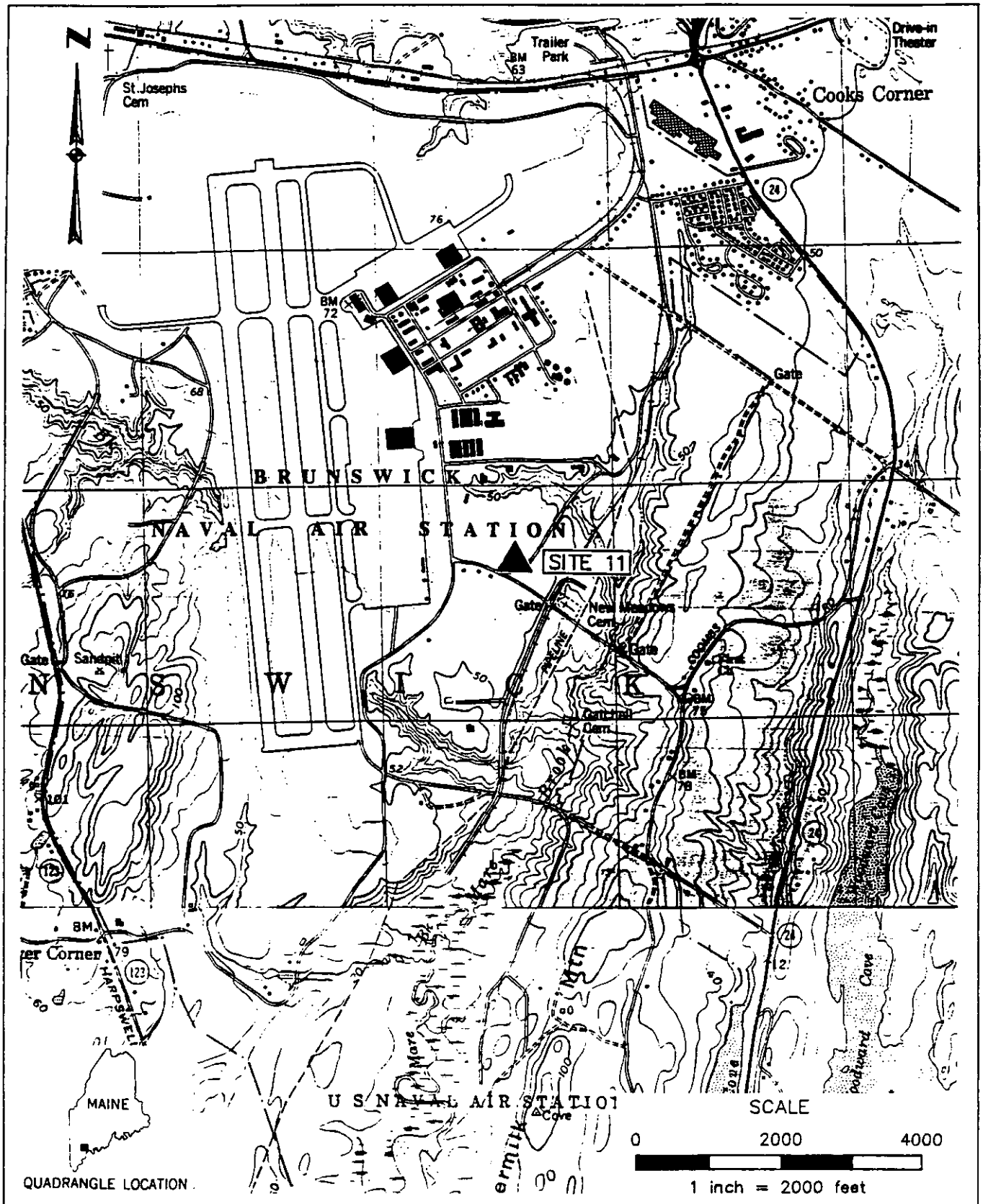
The former Fire Training Area (FTA) is located near the intersection of Old Gurnet and Sandy Roads in the central portion of NAS Brunswick. The FTA area reportedly had been used for training purposes since the 1950s, and probably since World War II. A 1959 aerial photograph shows a large blackened area at the location of the current FTA. Fire-fighting exercises at the FTA introduced various liquids into soils at the site, including waste oils, fuels, solvents, and other miscellaneous liquids. There were multiple annual "burns" during the 40-to-50 year time of use. Reportedly, the only measure taken before 1987 to control infiltration of the liquids into the soils was to saturate the ground surface with water to float the product prior to a burn. In 1987, the FTA was upgraded with the installation of a 40 foot x 40 foot concrete liner and berms. Additionally, a collection system, including piping and a 6,000-gallon fiberglass underground storage tank (UST), was installed north of the pit to contain unburned liquids and water used to extinguish the training fires. According to NAS personnel, the FTA may have only been used once or twice since the upgrades were completed and has not been used since before 1990.

The collection system included installation of two precast catch basins at the curb cuts with an 8-inch diameter drain pipe connecting these catch basins. A single 8-inch diameter underground drain pipe was installed to connect the eastern catch basin and the fiberglass holding tank situated approximately 100 feet to the north of the existing slab. An above-ground, steel indicator valve that allows for opening and closing the drain pipe leading to the tank is located approximately 20 feet south of the tank. The top of the fiberglass holding tank is specified as being 2.5 feet below grade and the bottom of the tank extending to approximately 10.5 feet below the existing grade. A 4-inch vent pipe and 2 foot diameter steel manhole extension with a removable flat-ribbed top (for tank clean out) extend from the tank to above the existing grade. There are no specifications for the material used for the drain pipe.

According to historical records and interviews, most of the fuel used for fire-fighting exercises was JP-5 jet fuel or aviation gasoline (AVGAS), but there was no quality control for what would eventually be used at the fire pit. According to NAS personnel, anything may have been brought to the site from any source on base if it was thought that the material might be flammable. Typically, barrels containing JP-5 obtained from the different squadrons on base would be brought to the site, temporarily stored, then rolled to the fire pit and emptied of their contents for the fire fighting exercises. The NAS Fire Chief recalled that there was always just one fire pit at the site and that the storage area for these drums was located west of the fire pit. Once emptied, the drums were typically brought to the Defense Reutilization and Marketing Office (DRMO) for disposal.

2.2 SITE HISTORY

Information obtained in 1993 by NAS Brunswick personnel suggested for the first time that drums containing unknown liquids may have been buried at the FTA. Based on this information, the Navy designed a program to locate and, if possible, sample drums for characterization. This program was designed to definitively establish the presence or absence of buried drums at this site and, if possible,



SITE LOCATION MAP			FIGURE 2-1
SITE 11-NAS-BRUNSWICK, MAINE			Halliburton NUS CORPORATION
DRAWN BY: RGD		REV.: 1	
CHECKED BY: GHB		DATE: JUNE 95	
SCALE: 1"=2000'		CONTRACT NO.: N62472-90-D-1298/CTO-151	55 Jonspin Road Wilmington, MA 01887 (508)658-7899

W5295076F

provide limited analytical information on the contents of up to three drums. The Navy recognized that, if drums were found, they would need to be removed from the site as part of source remediation efforts. Field activities conducted for this site included magnetometer and ground penetrating radar (GPR) surveys followed by test pitting of 14 anomalous target areas identified during the 1993 geophysical surveys (see Appendix A - Figure 4-1). These investigative activities located the presence of buried drums and miscellaneous containers at five of fourteen test pit locations. Drums containing solvents and petroleum compounds were found to be in various stages of deterioration.

The 6,000 gallon fiberglass underground storage tank was installed in 1986 as a spill control holding tank for the concrete fire training pit. The tank was registered with the State of Maine as a hazardous substance storage tank. Typically, unburned oil and water used to extinguish fires during the fire training exercises were drained to the tank and stored until removal and disposal of the wastes could be effected.

3.0 EXCAVATION AND REMOVAL OPERATIONS

3.1 TEST PIT ACTIVITIES

Previous investigations by the Navy identified magnetic anomalies at fourteen test pit locations. Initial test pit activities at these locations revealed the presence of buried drums. Some of these drums contained hazardous materials. Because the excavation contractor used by the Navy for this work in 1993 was not equipped to excavate and remove buried drums, all test pit operations were suspended. A second round of test pit operations at the same 14 test pit sites (see Figure 3-1) was conducted by Halliburton NUS on November 21, 1994 and continued through December 8, 1994.

Prior to excavating, the test pit site was scanned with a Ludlum Model 2 survey radiation meter, which is capable of detecting alpha, beta, gamma radiation. Radiation surveys were also conducted at the spoil piles generated during excavation of each test pit. No radiation readings above background were detected at any location.

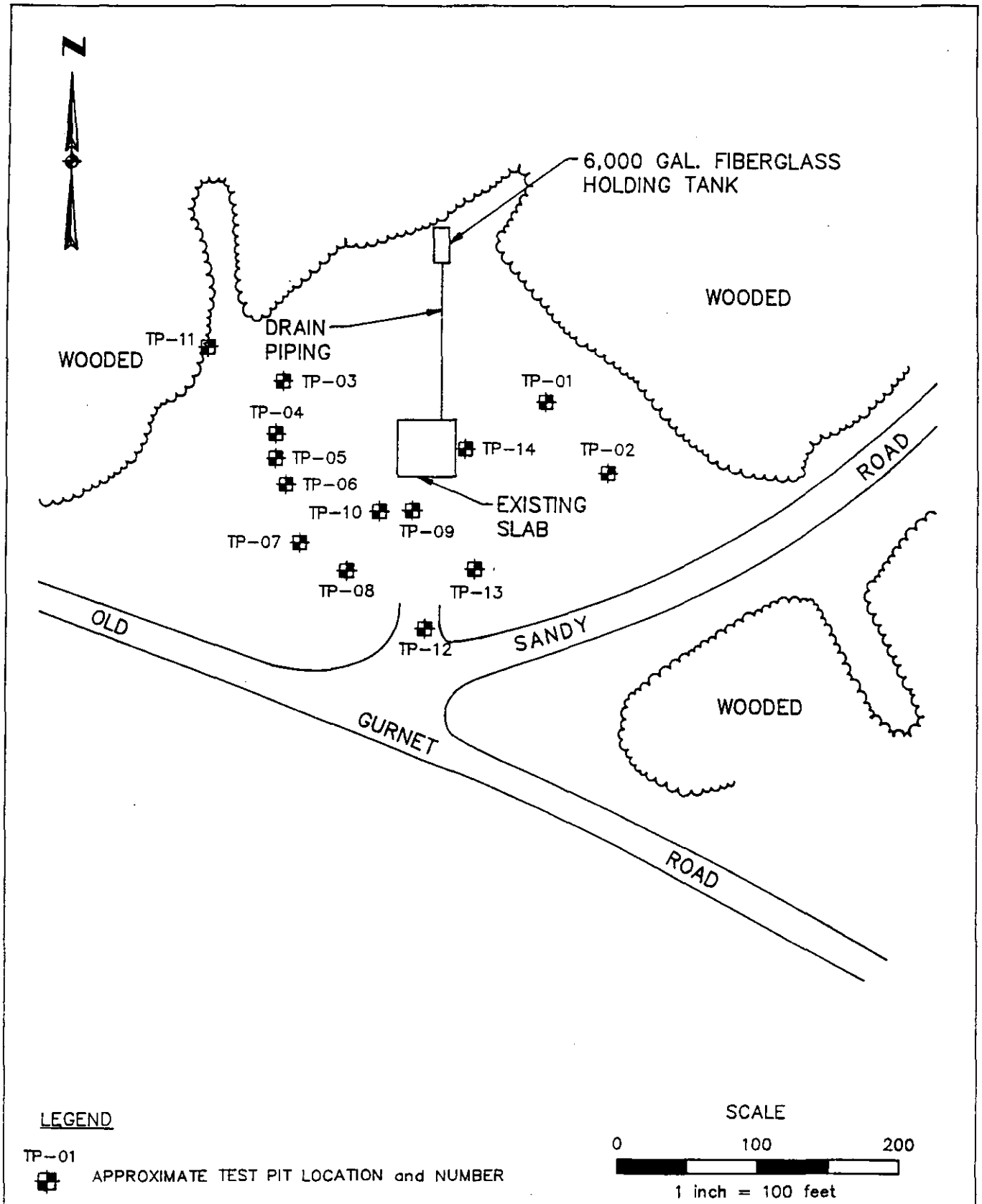
The test pit excavations commenced following completion of the radiation survey. Vertical excavation limits were established by advancing the excavation until virgin soils or groundwater was encountered. Once the bottom of the excavation was established, a deep trench was excavated in the middle of the test pit to confirm that virgin soils had been reached. The lateral extent of the test pit was defined by the limits of magnetic anomalies previously detected or undisturbed soils. Drums, containers, or metal debris were removed if they were encountered. Additionally, soils that were assumed to be contaminated by visual and headspace screening methods using an RAE Systems: Mini-Rae Model PGM-75 photoionization detector (PID) were removed and either drummed or stockpiled in a lined roll-off container.

Representative soil samples were collected from several areas of the test pit upon completion of the excavation, were field screened with a PID using headspace methods. A soil sample was then collected from the location exhibiting the highest PID reading and submitted for laboratory analysis. A second sample was collected from a random location within the test pit to serve as a representative sample of the general conditions.

Following sample collection, the excavation was backfilled with materials removed and, if necessary, clean sand from offsite sources. The test pit site was then surveyed with the magnetometer to verify the removal of all anomalies. If additional targets were identified, test pit activities resumed and, following backfill of the test pit, the area was re-surveyed. This process was repeated until all anomalies were investigated.

Due to the extensive volume of metallic debris encountered in Test Pits 94-07 through 94-10 and due to the interference imposed by the reinforced concrete fire pit, modifications to the excavation and survey methods were necessary. During excavation of these test pits, all metallic debris, except drums and containers, was left in-place. Test pit activities continued until the lateral limits of the excavation were defined. Test pitting then continued an additional ten feet outside the entire test pit perimeter to ensure this area was clear of all drums, containers, and metal debris in order to provide a sufficient buffer for the magnetometer survey outside of the test pit. This method ensured that the entire test pit site was excavated and investigated to 10 feet outside of any known magnetic anomalies. This method was approved by the Maine Department of Environmental Protection (Maine DEP) site representative and the Navy prior to implementation.

During test pit activities, Halliburton NUS conducted ambient air monitoring downwind and along the perimeter of the test pit sites using a Century Organic Vapor Analyzer (OVA). At no time during any test pit excavation did OVA readings at the site perimeter exceed background concentrations.



SITE MAP – SITE 11			FIGURE 3-1
FIRE TRAINING AREA–NAS–BRUNSWICK, ME			Halliburton NUS CORPORATION
DRAWN BY: RGD	REV.: 2		55 Jonspin Road Wilmington, MA 01887 (508)658-7899
CHECKED BY: GHB	DATE: JUNE 95		
SCALE: 1" = 100'	CONTRACT NO.: N62472-90-D-1298/CTO-151		

Detailed descriptions of the findings in each test pit are presented in the following sections. Field test pit logs are presented in Appendix B.

3.1.1 Test Pit 94-01

The soils at this location generally consisted of fine to medium sands. A thin layer of black, dense fine sand was encountered at depths of 13 inches to 16 inches. This layer may represent the former burn area of the fire training site. The maximum depth of excavation was approximately 7.5 feet. The total area investigated was approximately 600 square feet. Wood, and small metal containers (appearing to be 1-gallon paint cans), five empty crushed drums, and miscellaneous debris were encountered at various locations and were containerized and staged in the concrete fire pit. Eight drums of wastes were generated. Soil sample headspace readings ranged up to 50 parts per million (ppm).

Two soil samples were collected and submitted for the following analyses: target compound list (TCL) volatile organic analysis (VOA) (USEPA CLP SOW OLM01.8 method), TCL semivolatile organic analysis (SVOA)(USEPA CLP SOW OLM01.8 method), pesticides (USEPA CLP SOW OLM01.8 method), polychlorinated biphenyls (PCB)(USEPA CLP SOW OLM01.8 method), target analyte list (TAL) metals (USEPA CLP SOW OLM03.0 method), and petroleum hydrocarbons (Method 8100-Modified and ASTM D 3328-78).

Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies.

3.1.2 Test Pit 94-02

The soils at this location generally consisted of fine to medium sands. The maximum depth of excavation was approximately 7.5 feet. The total area investigated was approximately 400 square feet. A significant volume of metal debris including airplane parts, sheet metal panels, an auto/truck seat, and cables were encountered in the upper 5 feet of the excavation. Two drums of wastes were generated. Soil sample headspace readings did not exceed 0.0 ppm at any sample location. The PID was checked for proper operation and the samples were re-screened with the same results.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Following backfill, the confirmatory magnetometer survey conducted on December 2, 1994, revealed an additional anomaly located at the northern edge of the test pit excavation. The area was excavated on December 7, 1994, revealing the presence of two empty crushed drums and additional aircraft parts. These materials were containerized accordingly and the area was backfilled. Soil sample headspace readings did not exceed 0.0 ppm at any sample location. As this was an expansion of the original test pit and no PID readings were encountered in the headspace samples, no additional soil samples were collected. The area was re-surveyed following backfill. No additional anomalies were encountered.

3.1.3 Test Pit 94-03

The soils at this location generally consisted of fine and silty sands. A thin layer of black, fine sand was encountered at a depth of 6.0 inches to 9.0 inches. This layer may represent the former burn area of the fire training site. The maximum depth of excavation was approximately 6.0 feet. The total area investigated was approximately 340 square feet. Numerous crushed and deteriorated pint-sized metal containers and three 5-gallon cans (some appearing to be paint cans), and assorted metal debris were encountered at various depths and locations. Four drums of the metal containers and assorted debris were generated. Additionally, visually contaminated soils were excavated and transferred into a 55-gallon drum; approximately one half of the 55-gallon drum was filled. Soil sample headspace readings ranged from 0.0 to 0.7 ppm. However, a peak reading of 250 ppm was detected at the opening of

one of the drums. Readings of one to two ppm were detected (OVA) during ambient air monitoring within the test pit excavation area.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies.

3.1.4 Test Pit 94-04

The soils at this location generally consisted of fine and silty sands. A thin layer of black, fine sand was encountered at a depth of 2.0 inches to 3.5 inches. This layer may represent the elevation of the former burn area of the fire training site. The maximum depth of excavation was approximately 6 feet. The total area investigated was approximately 660 square feet. Numerous 55-gallon drums, cans and contaminated soil were encountered. The majority of the drums were crushed or partially crushed, rusted, and had holes in them. There were visually contaminated discolored soils around the drums. The soils had solidified and had bonded several drums. The drums were separated by using non-sparking hand tools and chipping away the hardened soil. The first drum was encountered at a depth of 2.0 feet. In general, the drums, containers, and contaminated soil were encountered at a depth of 3.5 feet to 5.0 feet. The following presents information recorded from the excavated drums:

- An olive colored drum was labeled in yellow stencilling: "DSA-400-68-D-0117 DOW CHEMICAL CO. MIDLAND IL." and a partial number was on top of the drum "- ...310-551-1487 - 592 LBS. NET."; Using the DSA number, the contents were later identified by NAS personnel as possibly being 1,1,1-trichloroethylene.

- A drum was labeled "Petroleum based product" and the drum was crushed, rusted, and had holes in it. It was not possible to determine if there were contents in the drum other than soil.

- Clear viscous liquid was observed in a drum. A peak reading of 600 ppm was detected at the drum opening. The contents of the drum were hand pumped and transferred into a new drum.

Fourteen drums were generated from overpacking of drums, containers, and contaminated soils. Soil sample headspace readings ranged from 1.5 ppm to 56 ppm.

There were no ambient air readings detected using the OVA or PID around the excavation area perimeter. However, a slight "turpentine" type odor was detected by all personnel onsite from the spoils pile and in the immediate and adjacent areas of the excavation.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies.

3.1.5 Test Pits 94-05 and 94-06

Due to the uncertain boundaries of the plotted anomalies, test pits 94-05 and 94-06 were excavated as one continuous test pit . The soils at this location generally consisted of fine and silty sands. A thin layer of black, fine sand was encountered at a depth of 2 inches to 4 inches. This layer may represent the elevation of the former burn area of the fire training site. The maximum depths of excavation in the areas of test pits 94-05 and 94-06 were approximately 10 feet and 6.5 feet,

respectively. The total area investigated was approximately 900 square feet. Numerous 55-gallon drums were encountered in the area of test pit 94-05. The majority of the drums were crushed or partially crushed, rusted, and had holes in them. There was visually contaminated discolored soils around the drums. In particular, there were numerous chunks of a bright yellow solid (appearing to be hardened paint) encountered adjacent to the drums and mixed in with the surrounding soils. As in test pit 94-04, the soils had also solidified and bonded several drums together. The drums were separated in the same manner by using non-sparking hand tools. The first drum was encountered at a depth of 3 inches and another drum at 8 inches. The following presents information recorded from the excavated drums:

- Drum was filled with a dark yellow viscous liquid. The peak reading at the drum opening was 1,500 ppm with sustained readings of 300 ppm. The drum contents appeared to be a polyurethane or resin material.

- A yellow semi-solid was observed inside the bottom of several drums.

Sixteen drums were generated from overpacking 55-gallon drums, containers, and contaminated soils. There were readings ranging from 10 ppm to 15 ppm detected by the OVA around the excavation area. Soil sample headspace readings ranged from 8 ppm to 56 ppm.

No drums were encountered in the general area of test pit 94-06. Several crushed soda and soup cans and a crushed 3-gallon container labeled "Hydraulic Fluid" were excavated at the southern boundary of the pit at a depth of approximately two feet. Readings of 2 ppm to 3 ppm were detected with the PID in the vicinity of these containers.

Four soil samples, two from each test pit, were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies.

3.1.6 Test Pits 94-07 and 94-08

Test pits 94-07 and 94-08 were excavated as one continuous test pit due to the uncertain boundaries of the plotted anomalies. The soils at this location generally consisted of fine to course sand. On the south-southeast excavation wall, a black, oily layer was exposed from zero to 12 inches. This layer may represent the former burn area of the fire training site. The maximum depth of excavation was approximately 6 feet. The total area investigated was approximately 580 square feet. Numerous 1-gallon and 5-gallon crushed metal containers, crushed ammunition containers, test/practice aircraft bomb casings, and other assorted metal debris were encountered. Heavy precipitation occurred during the test pit excavation and an oily sheen was noted on pooled water surfaces.

Fourteen drums were generated from overpacking drums, containers, and contaminated soils. Soil sample headspace readings ranged from 10.2 ppm to 489.0 ppm. OVA ambient air readings ranging from 25 ppm to 32 ppm detected around the excavated area.

Four soil samples, two from each test pit, were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

The miscellaneous metal debris was left in the test pit excavation. Therefore, a 10-foot wide trench was excavated around the perimeter of the test pits to confirm the limits of the buried debris encountered during excavation. Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies along the trench perimeter.

3.1.7 Test Pit 94-09

The soils at this location generally consisted of fine and silty sands. The total area investigated was approximately 900 square feet. A significant volume of metal debris was encountered including small, rusted, deteriorated, empty containers. Four drums were generated from overpacking containers. Soil sample headspace readings ranged from 11.3 ppm to 42.5 ppm.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Due to test pit proximity to the reinforced adjacent concrete fire pit and the miscellaneous metal debris that was left in the excavation, a 10-foot wide trench was excavated around the perimeter of the test pit to confirm the limits of the buried debris encountered during excavation. Following backfill, the confirmatory magnetometer survey along the test pit/trench perimeter did not reveal the presence of additional anomalies.

3.1.8 Test Pit 94-10

The soils at this location generally consisted of fine and silty sands. The total area investigated was approximately 1,400 square feet. The maximum depth of excavation was approximately 5.5 feet. A significant volume of metal debris was encountered including small ($\leq$ one gallon), rusted, deteriorated, empty containers. Three drums were generated from overpacking containers. Soil sample headspace readings ranged from 0.1 ppm to 10.1 ppm.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Due to test pit proximity to the adjacent reinforced concrete fire pit and the miscellaneous metal debris that was left in the excavation, a 10-foot wide trench was excavated around the perimeter of the test pit to confirm the limits of the buried debris encountered during excavation. Following backfill, the confirmatory magnetometer survey along the test pit/trench perimeter did not reveal the presence of additional anomalies.

3.1.9 Test Pits 94-11

Test pit activities were not conducted at this location. Unlike the results of other test pit sites, at test pit 94-11, the 1993 magnetometer survey and test pit activities did not reveal the presence of magnetic anomalies that would suggest the presence of drums and containers as seen at other test pit sites. With the concurrence of the Maine DEP representative and the Navy, an alternate test pit site was selected, TP-OHM.

3.1.10 Test Pit 94-12

The soils at this location generally consisted of fine to coarse sands. The total area investigated was approximately 600 square feet. The maximum depth of excavation was approximately 4 feet. No metal debris or containers were encountered. The previous anomaly detected may have been generated from the underlying metal drainage culvert. Sample headspace reading for the soil sample collected was 2.0 ppm.

One soil sample was collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons. A duplicate sample was collected for QA/QC purposes. A third sample was collected from a thin layer of a light blue, waxy or soap-like, granular material that was encountered in a two inch layer at a depth of approximately two feet. This blue material extended over an area of approximately 80 square feet. This sample was also submitted for TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons analysis.

Analytical results of this material (Sample No. 12SS03) only detected elevated concentrations of aluminum (151,000 ppm) and cadmium (359 ppm).

3.1.11 Test Pit 94-13

The soils at this location generally consisted of poorly graded fill in the upper two feet and fine and silty sands at depth. The total area investigated was approximately 250 square feet. The maximum depth of excavation was approximately 3.25 feet. No metal debris or containers were encountered at this test pit. Soil sample headspace readings detected ranged from 1.0 ppm to 4.0 ppm.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Following backfill, the confirmatory magnetometer survey did not reveal the presence of additional anomalies.

3.1.12 Test Pit 94-14

The soils at this location generally consisted of fine and silty sands. The total area investigated was approximately 1,400 square feet. The maximum depth of excavation was approximately 7 feet. A two-inch thick black burn layer was encountered at a depth of one foot. This layer may represent the former burn area of the fire training site. With the exception of some small metal fragments located on the surface, no metallic debris or containers were encountered. Soil sample headspace readings ranged from 0.5 ppm to 1.5 ppm.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

Due to test pit proximity to the adjacent reinforced concrete fire pit, a 10-foot wide trench was excavated around the perimeter of the test pit to confirm the limits of the buried debris encountered during excavation. Following backfill, the confirmatory magnetometer survey along the test pit/trench perimeter did not reveal the presence of additional anomalies.

3.1.13 Test Pit 94-OHM

This location was identified as a test pit location following the discovery of four drums on the ground surface by OHM Corporation during site clearing operations on the adjacent property to the west of the FTA and approximately 75 feet north of Old Gurnet Road. The drums contained what appeared to be hardened roofing tar or asphaltic material. Test pit activities commenced following removal of the surface drums to confirm that no other drums or containers existed below grade. Six drums were generated at this site: four overpacks containing the four drums discovered and two drums of hardened tar and soil.

The soils at this location generally consisted of poorly graded organic soils in the upper one foot and fine and silty sands at depth. The total area investigated was approximately 200 square feet. The maximum depth of excavation was approximately 2.5 feet. No metallic debris or containers were encountered. Soil sample headspace readings were not detected.

Two soil samples were collected and submitted for the following analyses: TCL VOA, TCL SVOA, pesticides, PCBs, TAL metals, and petroleum hydrocarbons.

3.2 GRADIENT MAGNETIC SURVEY

A gradient magnetic survey was conducted on December 1, 2, and 7, 1994 by Northeast Geophysical Services of Yarmouth, Maine to confirm that all magnetic targets had been removed. The instrument

used during this survey was an OMNI Plus proton precession magnetometer/gradiometer. This was the same model instrument that was used during the previous 1993 survey.

Sample locations were established on a ten foot grid that corresponded approximately to the previous survey. The original intent was to survey the test pit locations only. However, the scope of work was modified to ensure that this survey, like the 1993 survey, covered the entire site.

In general, all test pit sites exhibiting magnetic gradient readings of +/-10 gammas per foot were investigated. However, due to the extensive volume of metallic debris encountered in Test Pits 94-07 through 94-10 and due to the interference imposed by the concrete fire pit, modifications to the excavation and survey methods were necessary. During test pit excavation, all metallic debris, except for drums and containers, was left in-place. As this material would represent a significant magnetic target, the test pit was extended an additional ten feet beyond the established lateral limit. The expansion ensured that targets identified in the subsequent confirmatory magnetometer survey would not be masked by the metal debris left in-place.

A detailed report summarizing the findings of the survey is presented in Appendix C.

3.3 SOIL SAMPLING

Upon completion of the excavation, representative soil samples were collected from several areas of the test pit and field screened using headspace methods and a PID. A soil sample was then collected from the location exhibiting the highest PID reading and submitted for laboratory analysis for TCL VOA, TCL SVOA, TAL metals, PCBs, pesticides, an petroleum hydrocarbons. The results for each analytical parameter are discussed in the following sections. In accordance with direction from the Navy, the analytical results were not validated for this project. Summary tables of the analytical results for each parameter are presented in Appendix D.

3.3.1 TCL Volatile Organic Analysis

Low concentrations of trichloroethene were detected in soil samples collected from test pits 94-03 (85 ppb), 94-08 (18 ppb), 94-13 (40 ppb), and 94-14 (ppb).

Low concentrations of tetrachloroethene were detected in soil samples collected from test pits 94-04 (190 ppb), 94-01 (25 ppb), and 94-OHM (39 ppb to 250 ppm).

Elevated concentrations of total xylenes (49,000 ppb) and toluene (17,000 ppb) were detected in soil sample collected from test pit 94-08. This sample was collected from the excavated soil stockpile and not the bottom of excavation in order to represent the general fill material at this test pit.

3.3.2 TCL Semi-Volatile Organic Analysis

Trace concentrations of semi-volatile organic compounds were only detected in soil samples collected from test pits 94-13 and 94-OHM.

3.3.3 Pesticides Analysis

Low concentrations of 4,4'-DDE were detected in soil samples collected from test pits 94-13 (12 ppb) and 94-08 (14 ppb).

Low concentrations of 4,4'-DDD were detected in soil samples collected from test pit 94-08 (170 ppb).

Low concentrations of 4,4'-DDT were detected in soil samples collected from test pits 94-13 (22 ppm), 94-OHM (11 ppb), 94-08 (13 ppb).

Low concentrations of heptachlor epoxide were detected in soil samples collected from test pits 94-13 (1.7 ppb) and 94-OHM (3.8 ppb).

3.3.4 PCB Analysis

Low concentrations of Arochlor-1242 were detected in soil samples collected from test pit 94-09 (51 ppb), 94-10 (40 ppb), 94-12 (36 ppb).

3.3.5 TAL Metals Analysis

Low concentrations of lead were detected in soil samples collected from test pit 94-08 (245 ppm), and the concrete sump (59.9 ppm).

3.3.6 Petroleum Hydrocarbon Analysis

Elevated concentrations of petroleum hydrocarbons were detected in test pit 94-01 (9,200 ppm), 94-03 (910 ppm), 94-04 (1,540 ppm) 94-07 (2,100 ppm), and 94-08 (9,400 ppm). The predominant hydrocarbon identified appeared to be an "indeterminate" kerosene. The term "indeterminate" is used by the laboratory to indicate that the sample resembled the commercial product or standard it was compared to but there were still significant differences noted. Had there been a better match, the results would have been reported as "probable". It has been reported that the predominant material burned at the site was jet fuel. Jet fuel closely resembles kerosene and may actually be the fuel product identified.

3.4 WASTE DISPOSAL

In addition to the drums and soils generated during the test pit activities, several other drums and containers were discovered on the ground within the tree line surrounding the work area. Most of these drums were empty. However, several contained hardened roofing tar or asphaltic materials similar to those discovered at test pit 94-OHM. These drums and containers were packaged accordingly and staged with the other drums.

On June 1 and June 2, 1995, all wastes were consolidated and re-packaged for offsite shipment. On June 5 and June 7, 1995, all packaged wastes were shipped offsite for disposal. Wastes shipped also included those drums and containers generated during previous test pit activities conducted by ABB Environmental Services. A total of 18 drums and seven 1-cubic yard containers of various wastes, approximately 11 tons of lead contaminated soils, and 582 gallons of contaminated rainwater that had accumulated in the roll-off container were shipped offsite for disposal. Copies of the hazardous waste shipping manifests are included in Appendix E.

4.0 UST CLOSURE

The 6,000 gallon, single-wall, fiberglass, underground storage tank (UST) was installed in 1986 as a spill control holding tank for the concrete fire training pit. According to Maine DEP, the UST was registered as a hazardous substance storage tank (Registration No. 10045-469). Typically, unburned oil and water used during the fire training exercises were drained to the tank and stored until removal and disposal of the wastes could be effected. The UST was connected to the concrete fire pit collection sumps by a single 8-inch diameter PVC pipe. The UST was located approximately 100 feet to the north of the concrete fire pit.

Prior to closure, a sample of the tank contents was collected by Halliburton NUS. The sample results indicated the presence of low concentrations of typical fuel-related compounds and acetone (see Appendix F).

On December 1 and 2, 1994, the tank and piping were cleaned, excavated, removed, and disposed of offsite. The UST was covered with a reinforced concrete slab, approximately 8 foot by 15 foot long by 1 foot thick. The UST was anchored with concrete "deadmen" and steel cables. There was no visual evidence of leakage at the tank site or along the pipeline. However, soil headspace samples collected from the base of the tank excavation were screened with the PID and indicated VOC concentrations ranging from 8 ppm to 190 ppm. VOC concentrations increased with depth, with the maximum concentration being observed in soils just above groundwater. This finding was consistent with observations made at other test pit sites that suggests that the VOCs detected may have originated from the groundwater, which is known to be contaminated. Following sample collection, the excavation was backfilled with the soils previously removed and clean sand from an offsite source.

In accordance with Maine DEP Regulations for the Closure of Hazardous Materials Facilities, Chapter 695, the UST closure was conducted under the supervision of a Maine Certified Geologist. A copy of the certified closure report is presented as Appendix G.

4.1 SOIL SAMPLES

Samples collected from the bottom of the excavation revealed the presence of trace concentrations of total xylenes and toluene. Low concentrations of petroleum hydrocarbons ranging from 4 ppm to 250 ppm were also detected in the samples. Samples were compared to common commercial products to assess identity. Analysis showed that at sample USTSS1, the petroleum hydrocarbon detected resembled kerosene and lubricating oil.

A minor amount of soil contamination was observed at the fire pit sump, apparently caused by a leak in the sump/pipe joint. Samples collected from the soils underlying the pipe/sump connection revealed elevated concentrations of petroleum hydrocarbons (USTSS05 at 16,000 ppm of "indeterminant" kerosene).

Summary tables of the analytical results are presented in Appendix D.

4.2 GROUNDWATER SAMPLES

A sample of the groundwater was collected from the bottom of the tank excavation and analyzed for TCL VOAs and TCL SVOAs. Only trace concentrations of ethylbenzene (9 parts per billion-ppb) and styrene (5 ppb) and low concentrations of total xylenes (13 ppb) and 2-butanone (15 ppb) were detected.

5.0 SUMMARY

Test pit activities were conducted at fourteen locations at the former fire training area (Site 11) to confirm the presence of and remove suspected buried drums. A confirmatory magnetometer survey was performed to verify that all magnetic anomalies suspected of being drums were removed.

All sites were investigated during the period between November 21, 1994 and December 8, 1994. Metal debris, drums, and miscellaneous containers encountered during test pit activities were removed and consolidated into 18 drums and seven 1-cubic yard containers. On June 5 and June 7, 1995, these wastes and 11 tons of lead-contaminated soils were shipped offsite for disposal.

Samples collected from soils remaining at test pit sites indicate the presence of low concentrations of organic compounds and inorganic analytes. A significant volume of metal debris also remains at the site. The average depth of the contaminated soils and metal debris is approximately five feet from ground surface.

Additionally, a 6,000 gallon, single-wall, fiberglass UST and associated piping and appurtenances were cleaned, removed from the ground, and disposed of offsite. The UST, which was used to collect unburned oils and water from the fire training pit, contained approximately 4,500 gallons of oily water, which was also disposed of offsite.

6.0 RECOMMENDATIONS

According to Navy personnel, an impermeable cap, conforming to the requirements of RCRA Title C, is being constructed over the Brunswick NAS landfill. It is Halliburton NUS' opinion that based on the contaminant levels encountered and assuming that regulatory approval is received, all site fill materials (soils and debris), from elevation of grade to top of virgin soils (average depth to approximately five feet) should be excavated and transported to the landfill for consolidation with other contaminated materials and to be used as cap subgrade fill prior to capping. This source removal action would substantially reduce further or future suspected contamination to local groundwater caused by the remaining materials. In addition, disposal at the landfill would represent a significant cost-savings to the Navy over offsite disposal in the future.

APPENDIX A
GRADIENT MAGNETIC CONTOURS - SITE 11
AUGUST 1993

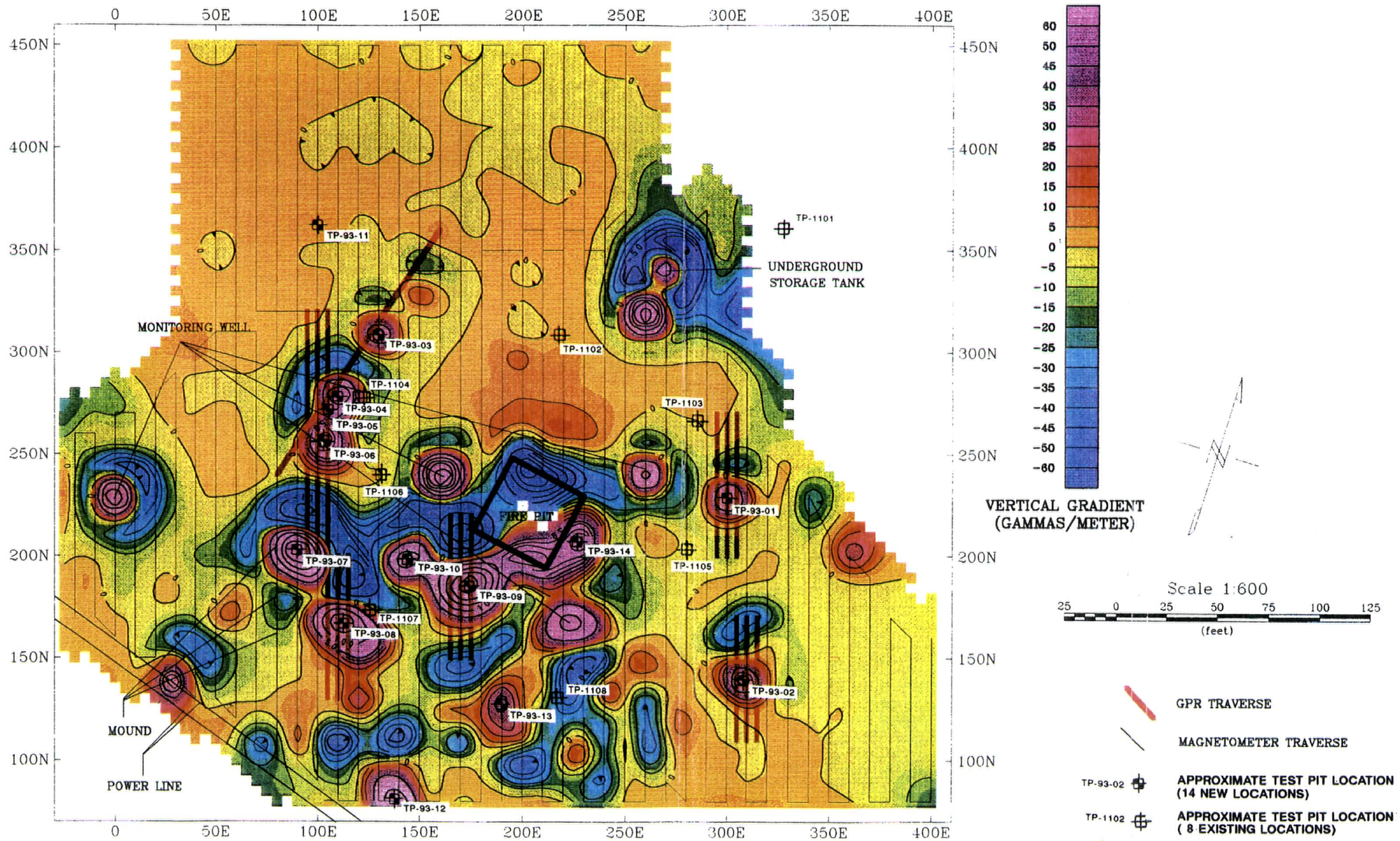


ABB ASEA BROWN BOVERI — ABB Environmental Services, Inc.	VERTICAL MAGNETIC GRADIENT CONTOURS - SITE 11 (FIRE TRAINING AREA)
INSTALLATION RESTORATION PROGRAM NAVAL AIR STATION BRUNSWICK, MAINE	RI/FS PROGRAM
	JOB NO. 7131-02 — FIGURE 4-1

APPENDIX B
TEST PIT LOG REPORTS

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 - SITE 11 INVEST. Test Pit No.: ~~TPA~~-TP94-01

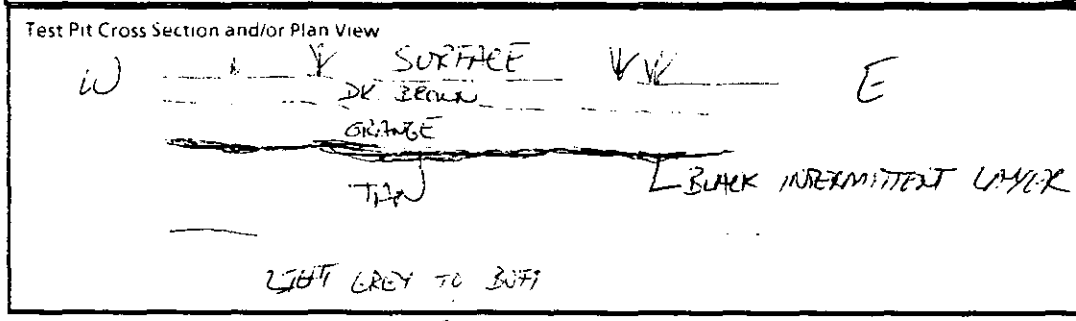
Project No.: 1503 Date: 11-22-94

Location: N.E. OF CONCRETE PAD

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	5"	DARK BROWN TOP SOIL - ORGANIC RICH FINE SAND, TRACE SILT FEW-SOME ORGANICS (ROOT MAT) POORLY GRADED	(SP)	~6-8" - BLACK SOLID (COMPACT) LAYERS, CAN BE BROKEN, 2.0 PID WOOD PILE (BROKEN) @ ~1' - OLD PALLET
5"	13"	ORANGE FINE SAND TRACE SILT POORLY GRADED NO COARSE FRAG. NO STRUCTURE SEEN.	(SP)	
13"	16"	BLACK LAYER INTERMITTENT IN PIT. VERY DENSE, F SAND TRACE SILT. TRACE COARSE SAND.	(SP)	STEEL + WOOD FRAGMENTS & PIECES FOUND IN THIS BLACK LAYER OR JUST ABOVE.
16"	5.1'	MOSTLY FINE-MED. SAND TRACE-FEW SILT THIN-BUFF. NO STRUCTURE. POORLY GRADED.	(SP)	
5.1'	7.5' BOTTOM OF HOLE	MOSTLY FINE SAND. FEW-~~SOME~~ LITTLE SILT. LIGHT GREY TO BUFF. DAMP TO DRY. POORLY GRADED. NO STRUCTURE NOTICED - NO COARSE FRACTION	(SM)	50+ PPM IN HEAD SPACE @ ~7.5' = SS-01 ∇ NOT REACHED @ 7.5'

Test Pit Cross Section and/or Plan View



SEE REVERSE FOR PLAN VIEW.

Remarks BEGIN PIT @ 1115. LUNCH @ 12:20 - 13:20 8 DRUMS PRODUCED - ORGANIZED DRUMS FROM SURFACE + DEBRIS.

SAMPLE - TP94-01-SS01 - @ 1415 - @ ~ 7.0 - 7.5'

P Log SAMPLE - TP94-01-SS02 - @ 1440 - @ ~ 6.0' Test Pit

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-02

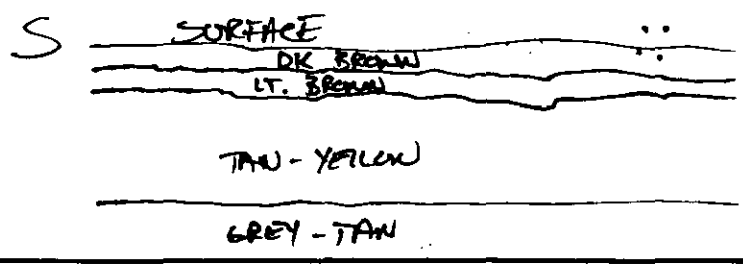
Project No.: 0503 Date: 11-23-94

Location: FTA - SITE 11

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	6"	SILTY SAND (SP) MOSTLY POORLY GRADED FINE SAND, TRACE - FEW MED. SAND. TRACE SILT. ORGANIC RICH, ROOT LAYER. ~~DARK~~ BROWN, DRY. - LARGE (~8" DIAM) LOG FOUND CUT ENDS	(SP)	~6" TO 12" - LARGE AMOUNTS OF DEBRIS FOUND (AIRCRAFT PIECES + PANELS, BOTH ALUM. + STEEL. & IRON + CABLES.
6"	12"	SILTY SAND (SP) MOSTLY FINE SAND TRACE SILT. POORLY GRADED, NO STRUCTURE, LIGHT BROWN.	(SP)	
12"	5'	SILTY SAND (SP) MOSTLY FINE SAND TRACE SILT. TAN - YELLOW. NO STRUCTURE. POORLY GRADED.	(SP)	OLD BENCH SEAT.
5'	7.5' BOTTOM OF HOLE	SILTY SAND (SP) MOSTLY FINE SAND. FEW - SOME SILT. LIGHT GREY POORLY GRADED.	(SP)	0.0 PPM IN ALL LOCATIONS. 4 HEAD-SPACE SAMPLES

Test Pit Cross Section and/or Plan View



SEE REVERSE SIDE FOR PLAN VIEW

Remarks START UP @ 0800. SAMPLE SS-01 @ 0955 - NW WALL @ 32" BGS
BACK-FILL @ 1030. SS-02 @ 1003 E WALL @ 38" BGS
2 DRUMS PRODUCED, AS WELL AS METAL DEBRIS PILE.

Field Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-03

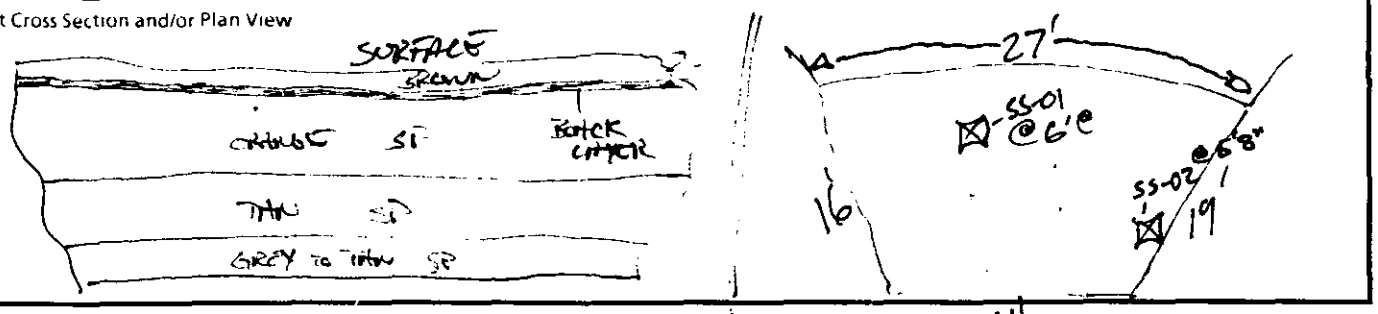
Project No.: 1503 Date: 11-29-94

Location: NAS BRUNSWICK - SITE 11 - ETA

Field Geologist: TRACY DORSHAW

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	6"	TOP SOIL MOSTLY FINE SAND, TRACE	SP	
		SILT. ROOT MAT + GRASS. POORLY		
		GRADED. ~~FR~~ FROZEN. BROWN		
6.0"	9.0"	SILTY SAND. MOSTLY FINE SAND	SP	4 HEAD SPACE PERFORMED
		TRACE SILT. TRACE MED. SAND. POORLY		1. @ GREY SP = BOTTOM N. SIDE 0.0
		GRADED. DRY + LOOSE. BLACK		2. @ TAN SP = E. SIDE - 0 PPM
9"	3'	SILTY SAND. MOSTLY FINE SAND	SP	3 @ ORANGE SP = .5 PPM
		TRACE SILT. POORLY GRADED. DRY		4. @ BLACK BURN LAYER = .7 PPM
		LOOSE, NO STRUCTURE ~~TAN~~ ORANGE		
3'	5'	SILTY SAND. MOSTLY FINE SAND	SP	
		SIMILAR TO ABOVE, BUT COLOR		
		IS TAN (BUFF)		
5'	6'	SILTY SAND. MOSTLY FINE SAND	SP	
		FEW TO LITTLE SILT. POORLY		
		GRADED. DRY + LOOSE GREY.		

Test Pit Cross Section and/or Plan View



Remarks BEGIN TP @ ~1110. - 6.0' = BOTTOM OF PIT.
BACK FILL @ 1540.
TOTAL = 4 DRUMS OF PINE + GRAVEL SIZE CRAB - SOME SOIL ALSO DRUMMED

Photo Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: TC-151 Test Pit No.: TP94-04

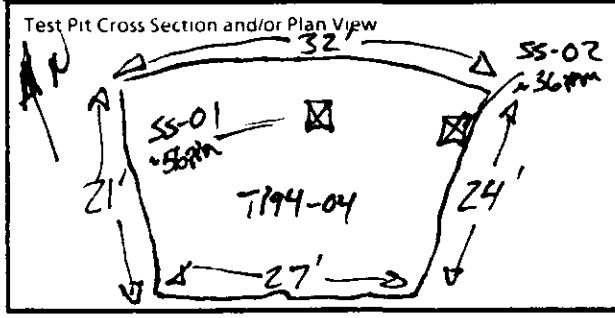
Project No.: 1503 Date: 11-30-94

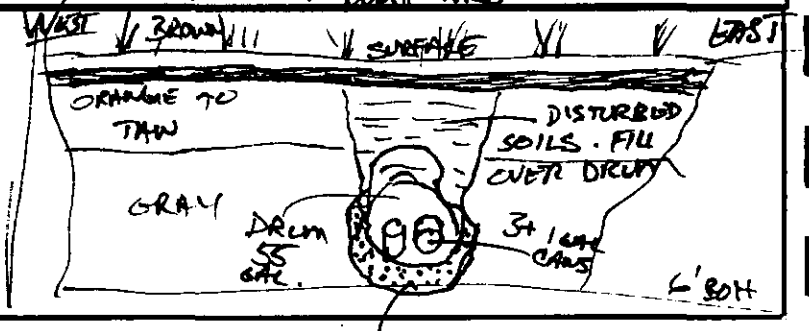
Location: NAS BRUNSWICK - SITE 11 FTA

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	2"	SILTY SAND (SP) MOSTLY FINE SAND	(SP)	DRUMS ON EAST SIDE
~~2"~~	~~3.5"~~	TRACE MED. TRACE SILT. ORGANICS		OF PIT @ 2' BGS
~~BASE~~	~~5'~~	(ROOT MAT + GRASS ON TOP) MED BROWN		
2'	3.5"	SILTY SAND. MOSTLY FINE SAND.	(SP)	ALSO @ N. WALL OF PIT
		TRACE SILT. NO ORGANICS. BLACK		1 55 GAL. OPEN W/ NOMETOOLS
		NO STRUCTURE. POORLY GRADED. LOOSE.		1 GALLON CANS LEAKING LIQUID.
3.5"	5'	SILTY SAND. MOSTLY FINE SAND	(SP)	DRUMS FOUND IN THIS
		TRACE SILT. ORANGE. BLENDING		INTERVAL. @ ~2-2.5'
		TO TAN. LOOSE + DRY. POORLY GRADED		
5'	6'	SILTY SAND. MOSTLY FINE SAND.	(SP)	HEAD SPACE:
		FEW SILT. LOOSE + DRY. POORLY		1.) FROM UNDER OPEN DRUM E. SIDE = 15 PPM
		GRADED. GREY.		2) BLACK LAYER 2-3.5" = 1.5 PPM
				3) @ 6' BELOW DRUMS N. SIDE = 5
				4.) @ 4' E WALL = 36 PPM
				NORTH FACE

Test Pit Cross Section and/or Plan View





Remarks [illegible]

ONE DRUM LABELED - DSA-400-68-D-0117 - DOW CHEMICAL CO. - MIDLAND IL.

PHONE # ON TOP OF SAME DRUM = ...310-551-1487 — 592 LBS. NET = 111-TRICHLOROETHANE

Photo Log

SS-01 = @ 6' BELOW REMOVED DRUM @ 1525.

SS-02 = @ 4' E CORNER @ 1520.

14 DRUMS TRACKED - OVERPACKED DRUMS, CANS + SOILS

Test Pit

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-05

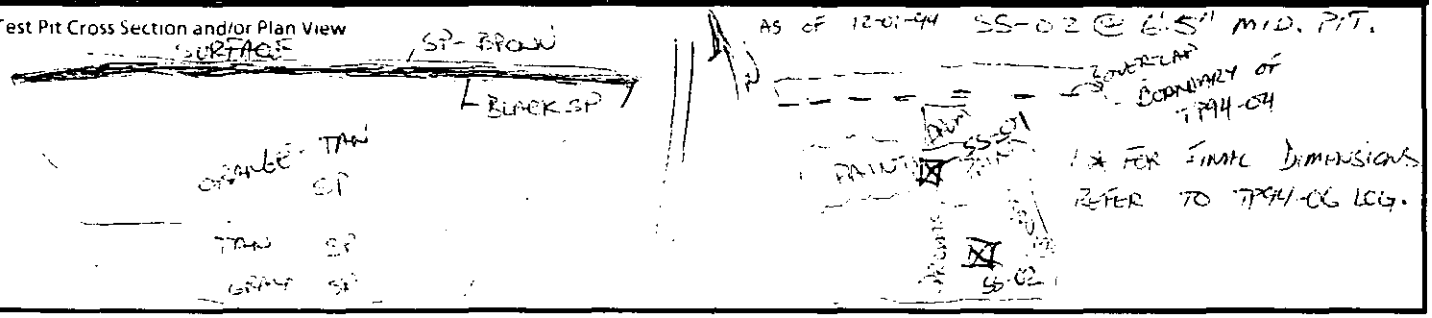
Project No.: 1503 Date: 12-01-94 + 12-05-94

Location: NAS BRUNSWICK - SITE 11 - FTA AREA

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft.)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	2"	SILTY SAND. MOSTLY FINE SAND	SP	INITIAL DRUMS FOUND @
		TRACE MED. SAND, TRACE SILT.		~3-6" BGS, NOT 1.5' BGS
		GRASS @ SURFACE FROZEN. BROWN		LIKE ABB TEST PIT LOG INDICA
		POORLY GRADED.		
2"	4"	SILTY SAND, MOSTLY FINE SAND	SP	
		TRACE SILT. NO ORGANICS. POORLY		- YELLOW PIGMENT (PAINT?)
		GRADED. LOOSE + DRY. BLACK.		RUNNING IN LENSES + LAYERS
4"	5'	SIMILAR TO ABOVE. LOOSE +	SP	THROUGH-OUT TEST PIT.
		DRY. ORANGE TO TAN.		THIS IS BEING EXCAVATED
5'	6'	SIMILAR TO ABOVE. LOOSE +	SP	+ CONTAINERIZED IN A POLY-
		DRY. TAN.		ETH. CONTAINER.
6'	10'	SIMILAR TO ABOVE. BUT FEW	SP	
		SILT NOT TRACE. GRAY		HEAD SPACE =
				① @ N. WALL UNDER DRUMS = 56.
				= SS-01. @ 6'
				② @ S. WALL = 8 PPM

Test Pit Cross Section and/or Plan View



Remarks TP94-05 WAS COMBINED INTO TP94-06 SO THAT BOTH TP WERE A SINGLE LARGE PIT. FOR DIMENSIONS, REFER TO TP94-06 TEST PIT LOG.
- 1 DRUMS OF CHEMICAL DRUMS GRAS + CONTAMINATED SOILS TRANSFERRED

Photo Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: NAS Brunswick

Test Pit No.: TP-06

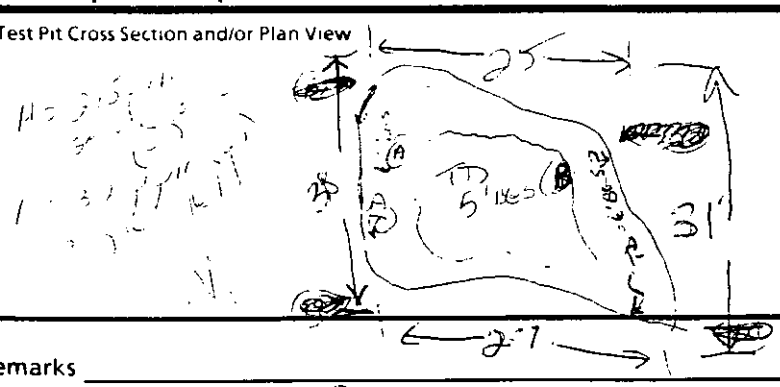
Project No.: CTO151-1503 Date: 12-5-94

Location: Brunswick, Maine

Field Geologist:

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
		- Same soil stratification		
		as TP-05		
		- test pit was performed		
		as a continuation		
		of No. 5. Soil		
		Stratification and descriptions		
		were the same		
		- no containers were found		
		or contaminated soil removed		
		- Total depth as described		
		below		
		- Landscape as described below		

Test Pit Cross Section and/or Plan View



Remarks

ZERO ORGANIC PRODUCED

Photo Log

Test Pit

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: Site 11 Test Pit No.: TP94-07

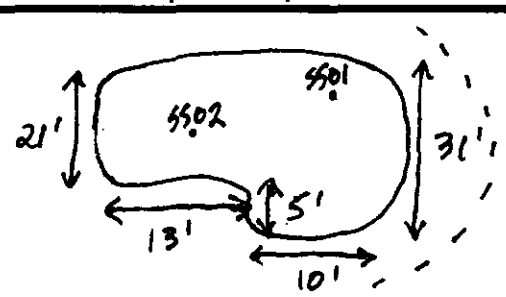
Project No.: CT0151-1503 Date: 12/5/94

Location: NAS Brunswick, ME

Field Geologist:

Depth (ft)	Lithology Change (depth ft.)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0-5		blk organic loam (0-6") fill,		~~no~~ PID 0.0 ppm
		crushed ammunition cans,		off of soil piles
		metal debris, bomb casings,		
		crushed empty 5 gallon cans,		
		concrete rubble, charred wood, logs		(SS02) (SS01)
6'		tan fine to medium sand		10.2 / 11.0 ppm (PID)
				head space samples
		Soil Description outside of		
		test pit fill areas:		
0-6"		topsoil, organic, loam		
6"-2'		tan/yellow fine to medium		
		sand		
	Note	South/Southeast (excavation) wall - 0 12" black, oily layer (former burn site)		

Test Pit Cross Section and/or Plan View



--- = A 10' perimeter dug to confirm limits of buried debris

Remarks (6 DRUMS PRODUCED)
Samples collected @ bottom of excavation

Photo Log Test Pit

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: NAS Brunswick

Test Pit No.: TP-08

Project No.:

Date: 12-16-94

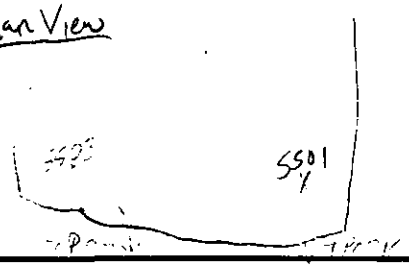
Location:

Field Geologist:

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0-4"		topsoil sandy loam		
4"-3'		fill, brown/black, 4" burn layer		
3'-4'		crushed cans, boxes, containers, misc. metal		PID 25 ppm @ 3' on top
		dark brown fine to medium sand		of cans. Rain water that
4'-5.5		tan fine to coarse sand		has collected in cans shows
				slight sheen.
				PID ~ 1520 ppm
		5gal cans, cans, boxes removed. all		@ 3'-4.5
		other metal debris backfilled in		
		1-4' - top 1' soil		

Test Pit Cross Section and/or Plan View

Plan View



SS01 - 50 ppm HS
SS03 234 ppm HS

N

SS01 - 0905 @ 3.5
SS07 - General fill material - no sheen
location [illegible]
@ 0905
SS03 - [illegible] - 4.5
480 ppm [illegible]

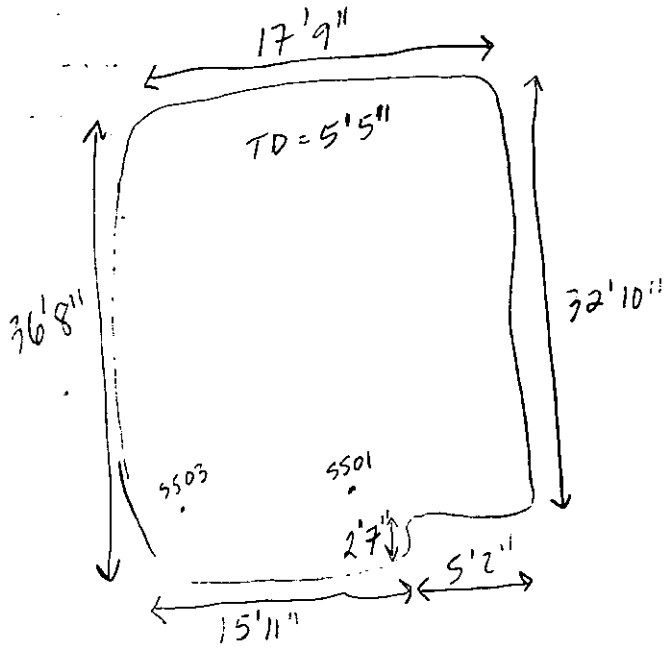
Remarks [illegible]
8 DRUMS PRODUCED

Photo Log

Test Pit

Page 1 of 1

HNUS FORM 0028


17'9"
TD = 5'5"
36'8"
32'10"
SS03
SS01
2'7"
5'2"
15'11"

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-15T

Test Pit No.: TP94-09

Project No.: 1503

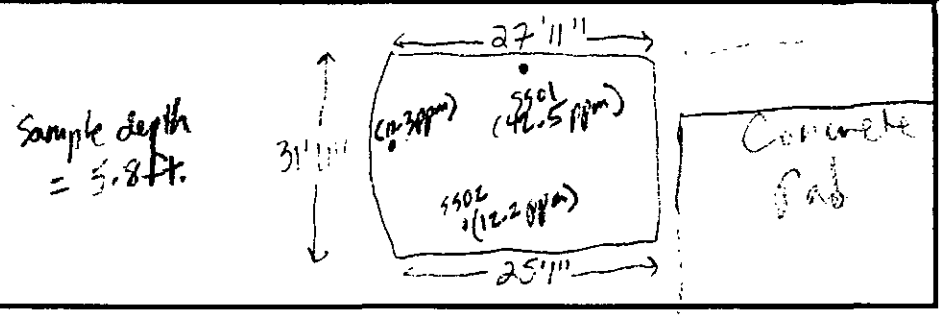
Date: 12-6-94

Location: NAS - BRUNSWICK - SITE 11 - FTA

Field Geologist:

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0-1		Brown fine sand,	SP	LARGE AMOUNTS OF
1-1.3		Black burn area	SP	METAL DEBRIS. MOSTLY
1.3-2.5		Brown to orange sand	SP	BANDS + STRAPPING, MANY
2.5		grey fine-silty sand	SP	UNIDENTIFIABLE ITEMS. ALL
				CONTAINERS + CANS ARE
				BEING QUARTERED.
				DEBRIS IN A LAYER @
				~ 2-2.5' + ~1.5' THICK

Test Pit Cross Section and/or Plan View



Remarks 4 DRUMS PRODUCED

Photo Log

Test Pit

Page of

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-10

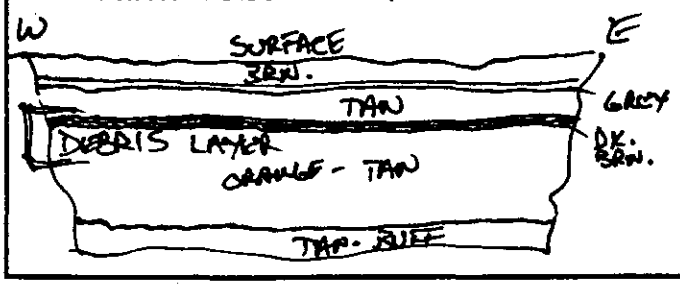
Project No.: 1503 Date: 12-07-94

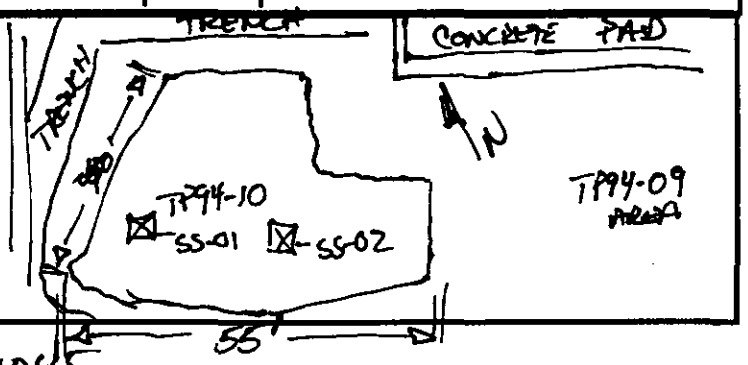
Location: NAS BRUNSWICK - SITE 11 - FTA AREA

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	14"	SILTY SAND. MOSTLY FINE SAND,	SP	
		TRACE SILT. 0-6" FROZEN, THE REST		
		IS LOOSE + DRY. POORLY GRADED. BROWN		HEADSPACE =
14"	17"	SIMILAR TO ABOVE, LOOSE +	SP	1.) @ 5' NORTH CORNER = 0.1 PPM
		DRY. GREY.		2.) @ 5.5' EAST WALL = 0.0 PPM
17"	26"	SIMILAR TO ABOVE, LOOSE +	SP	3.) @ 6.0' SOUTH WALL = 0.1 PPM
		DRY. TAN		4.) @ 5.5' WEST WALL UNDER
26"	30"	SIMILAR TO ABOVE, MORE COMPACT	SP	DEBRIS = 10.1 PPM = SS-01
		DRY. DARK BROWN.		@
30"	5'	SIMILAR TO ABOVE, LOOSE + DRY	SP	SS-02 = MID. PIT @ 5.5' a
		ORANGE TO TAN.		
5'	6'	SIMILAR TO ABOVE, LOOSE + DRY	SP	
		TAN - BUFF.		DEBRIS HEAVIEST TO THE
				WEST + NORTH.

Test Pit Cross Section and/or Plan View NORTH WALL





Remarks START @ 0730 - FINISH @ ~ 1045

WEST WALL @ ~ 2.5' = LAYER OF DEBRIS, MOSTLY METAL STRAPS, WITH SOME 1PT. UPTO 1 GAL CANS, CRUSHED + RUSTY. - 3 DRUMS PRODUCED

Photo Log _____ Test Pit _____

Page _____ of _____

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: NAS Brunswick Test Pit No.: TP-12

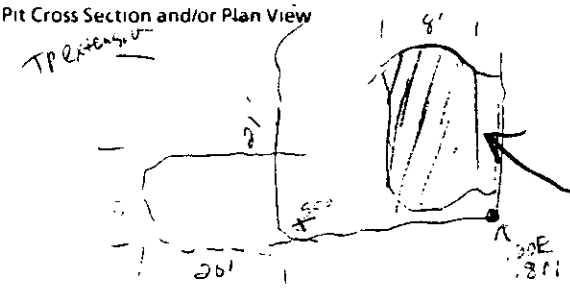
Project No.: 1503 Date: 12-6-94

Location: NAS Brunswick - Site 11 -

Field Geologist: G. Bullard

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0-1'		blk fine to coarse sand		
1-1.5'		tan fine to coarse sand		
1.5-3		blk burn area fine sand		
3-4'		orange/brown fine to med. grn sand		
		@ 2' with 2" layer of light blue chalky/waxy material - sample		(11)
		Headspace @ SS01 = 2 ppm		

Test Pit Cross Section and/or Plan View



SS01 @ 1205 @ 4' 2 ppm

- Test Pit located @ intersection of Gurnet + Sandy Rd
- shaded area indicates extent of the blue material
- Grid points ref Tech Memo for Site 11 (1/94) ABB

Remarks TP completed 1240 started 1205 / No metallic debris encountered. No stained soils

Photo Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-13

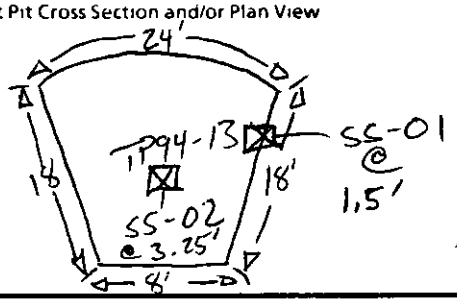
Project No.: 1503 Date: 11-28-94

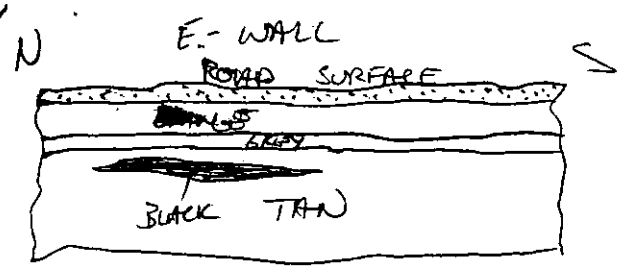
Location: NAS BRUNSWICK-SITE 11 FTA

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	2.5"	~~[illegible]~~ MEDIUM TO COARSE SAND.		ARTIFICIAL FILL FOR
~~[illegible]~~		TRACE FINE SAND. POORLY		ROAD SURFACE.
~~[illegible]~~"		GRADED. GREY. - TRACE		
~~[illegible]~~'		OF BRICK + ROCK FRAGMENTS		
		UP TO 1/2" DIAM. LOOSE + DRY		
2.5'	1'	SILTY SAND. MOSTLY FINE	(SP)	HEAD SPACE =
		SAND. TRACE MED. SAND. TRACE		1.) @ 1.5' WEST SIDE = 2.0 PPM
		SILT. ORANGE. NO STRUCTURE.		2.) @ CENTER TP @ 3.25' = 4 PPM
		POORLY ~~GRADED~~. ~~LOOSE~~, DRY		3) N WALL @ 3' = 1 PPM.
1'	15"	SILTY, GRAVELLY, SAND. MOSTLY		
		FINE SAND. TRACE MED. SAND. TRACE		
		GRAVEL (SUB-ANGULAR - SUB-ROUND) + BRICK		
		FRAGMENTS. TRACE SILT. GREY.		
		DENSE. DRY.		
15"	3.25'	SILTY SAND. MOSTLY FINE SAND. TRACE	(SP)	LENSES OF BLACK 1-2"
		SILT. POORLY GRADED. TAN. LOOSE		DENSE SILTY SANDS HERE (SP)

Test Pit Cross Section and/or Plan View





Remarks SS-01 - @ 10:45 - @ EAST EDGE @ 1'
SS-02 - @ 1050 - @ CENTER, BOTTOM OF PIT. @ 3.25'

Photo Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: TP94-14

Project No.: 1503 Date: 11-23-94

Location: NAS-BRUNSWICK - SITE 11

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	6"	SILTY, SAND. MOSTLY FINE SAND	(SP)	
		TRACE MEDIUM SAND. TRACE SILT.		
		ORGANICS (ROOT MAT) BROWN.		INTERMITTANT REDDISH-BROWN
		POORLY GRADED.		DEBRIS LAYER @ ~6"
6"	12"	SILTY SAND. MOSTLY FINE SAND	(SP)	0.5 PPM H.S. @
		TRACE MEDIUM SAND. TRACE SILT		
		NO ORGANICS. POORLY GRADED		
		GREY		
11"	13.5"	SILTY SAND. MOSTLY FINE TO	(SP)	BURN LAYER
		MEDIUM SAND. TRACE SILT.		1.5 PPM H.S.
		BLACK. TRACE CHARCOAL PIECES.		2 FINER LAYERS ON WEST EDGE
		POORLY ~~GRADED~~ GRADED. VERY COMPACT + DENSE.		NEXT TO CONCRETE WALL.
13.5"	32"	SILTY SAND. MOSTLY FINE SAND.	(SP)	1.5 PPM H.S.
		TRACE MEDIUM SAND. TRACE SILT.		SS-01 LAYER.
		ORANGE. POORLY GRADED.		
32"	5.0'	SILTY SAND. MOSTLY FINE SAND. TRACE	(SP)	0.0 PPM
		SILT. POORLY GRADED. TAN-YELLOW		

Test Pit Cross-Section and Plan View

Remarks SS-01 - MATRIX SPIKE - 1215 @ 27"

SS-02 - @ 1220 @ 35"

ALL READINGS ARE FROM MINI-RAE PID + ARE HEAD SPACE (H.S.) VALUES.

Photo Log _____ Test Pit _____

Page 1 of 2

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-157 Test Pit No.: TP94-14

Project No.: 1503 Date:

Location: NAS-BRUNSWICK-SITE 11 FTA

Field Geologist: TRACY DORLAN

Depth (ft)	Lithology Change (depth ft.)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
5.0'	7.0'	SILTY SAND. MOSTLY FINE SAND	SP	0.0 PPM H.S.
		FEW-SOME SILT. NO STRUCTURES		
		NOTICED. POORLY GRADED.		
		END OF PIT @ 7.0' BGS		

Test Pit Cross Section and/or Plan View

Remarks

Photo Log Test Pit

Page 2 of 2

HNUS FORM 0028

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-151 Test Pit No.: FIA-TP-OHM-

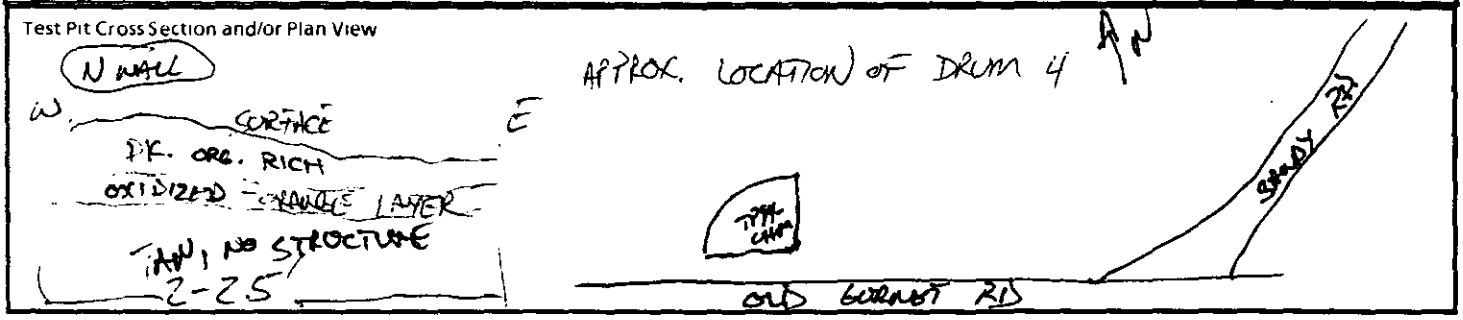
Project No.: 1503 Date: 11-22-94

Location: SITE 11-OHM CONST. SITE

Field Geologist: TRACY DORGAN

Depth (ft)	Lithology Change (depth ft.)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	7"	LOOSE, DRY-MOIST - ORGANIC RICH,	(SP)	0.0 PPM - MINI-RAE +
		DARK BROWN POORLY GRADED F.		H-NU PID'S, NO
		SAND, TRACE ONLY SILT. ROOT MAT		READINGS ABOVE BACKGROUND
7"	14"	MORE COMPACT, - MOIST TO DRY, ORGANIC	(SP)	WITH RAD-METER.
		RICH, LESS-ROOT MAT., OXIDIZED		
		ORANGE TO BROWN COLOR ILLOSTRY		
		FINE SAND, POSS. TRACE SILT.		
14"	2.5' (BOTTOM)	MOIST-DRY FINE SAND, TRACE ONLY	(SP)	OCTWASH MATERIAL
		SILT, NO ORGANICS, TAN TO BUFF		
		COLOR. NO SIGNS OF CONTAMINANTS		NO METAL PIECES
		NO SED STRUCTURES		EXCEPT DRUM LID
				(RUSTY), FOUND @ SURFACE
				NEAR DRUM 3+4.

Test Pit Cross Section and/or Plan View

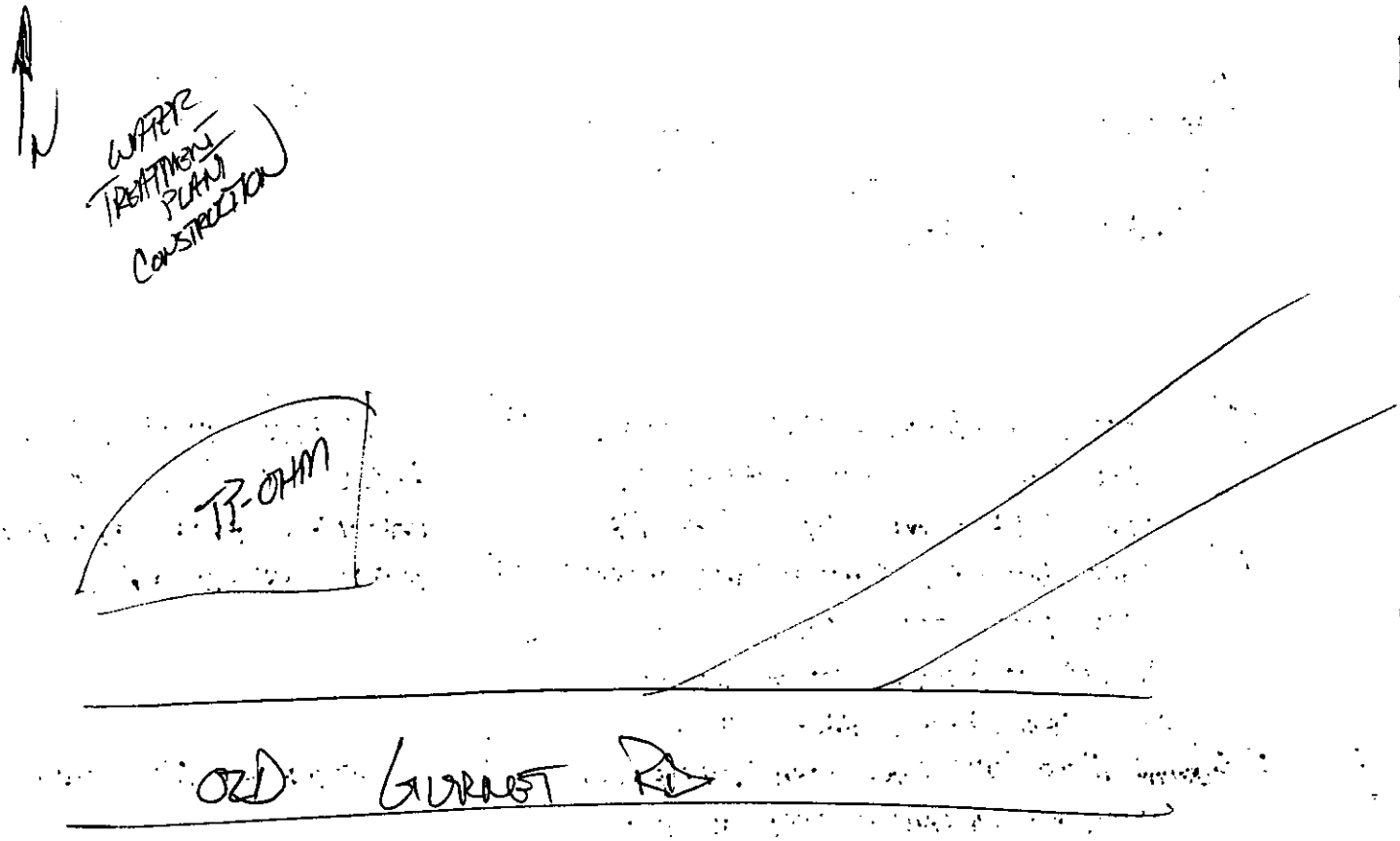


Remarks SAMPLE #1 TAKEN @ 0950 @ 0'-4" DEPTH. ALSO = DUP
" #2 " @ 1015 @ ~2'
6 DRUMS PRODUCED - 4 OVERPACKED DRUMS, 2 OF CONTAM. SOILS + TAR-LIKE SOLID.

Photo Log _____ Test Pit _____

Page _____ of _____

HNUS FORM 0028


N
WATER TREATMENT PLANT CONSTRUCTION
TT-OHM
OLD GURNET RD

Halliburton NUS CORPORATION

TEST PIT LOG

Project: CTO-157 Test Pit No.: TP94-UST

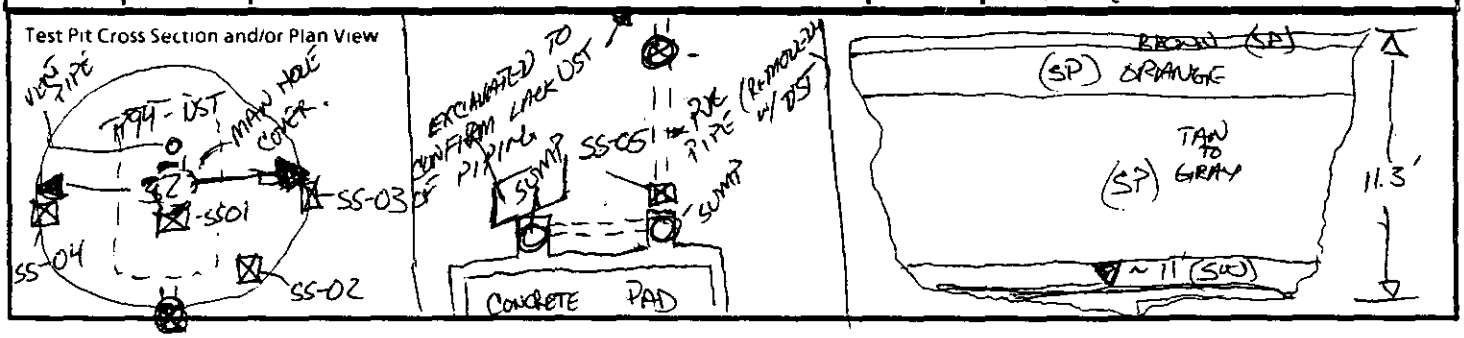
Project No.: 1503 Date: 12-02-94

Location: NAS BRUNSWICK - SITE 11 - UST PIT.

Field Geologist: TRACY MORGAN

Depth (ft)	Lithology Change (depth ft)	Material Description (Soil Density/Consistency, Color)	USCS	Remarks
0	6"	TOPSOIL W/ GRASS. SILTY SAND	(SP)	HEAD SPACE =
		MOSTLY F. SAND. TRACE SILT. ROOT		1.) 48 PPM @ SS-01 SITE
		MAT. POORLY GRADED. MED. BROWN		2.) 65 PPM @ SS-03 SITE
		FROZEN. - VERY HARD.		3.) 10 PPM @ SS-02 "
6"	2.5'	SILTY SAND. MOSTLY F. SAND. TRACE	(SP)	4.) 8 PPM @ SS-04 "
		SILT. POORLY GRADED. LOOSE & DRY		5.) 67 PPM @ SS-05 "
		ORANGE.		
2.5'	10.5'	SILTY SAND. MOSTLY FINE SAND.	(SP)	
		TRACE SILT ~~TO FEW~~ GRADING TO		
		FEW SILT AT DEPTH. POORLY		
		GRADED. TAN TO GRAY.		
10.5'	11.3'	SILTY SAND. MOSTLY MED. SAND. FEW	(SW)	WATER UNDER TANK. FILLED
		FINE SAND. FEW COARSE SAND. TRACE SILT		VOID TO ~11' DEPTH.
		WELL GRADED. WET. GRAY TO DARK GRAY		HAS PETROLEUM ODOR.
				NO NOTICIBLE SHEEN ON
				WATER.

Test Pit Cross Section and/or Plan View



Remarks CONCRETE SLAB OVER FIBERGLASS UST = ~2 FEET THICK WITH 1 LAYER OF 1/2" REBAR.

Photo Log _____ Test Pit _____

Page 1 of 1

HNUS FORM 0028

APPENDIX C
MAGNETOMETER SURVEY REPORT

MAGNETOMETER SURVEY
DISPOSAL SITE 11
FORMER FIRE TRAINING AREA
NAVAL AIR STATION
BRUNSWICK, MAINE
CTO NO. 151
DECEMBER 1994

NORTHEAST GEOPHYSICAL SERVICES

Division of F.M. Beck, Inc.

MAGNETOMETER SURVEY
DISPOSAL SITE 11
FORMER FIRE TRAINING AREA
NAVAL AIR STATION
BRUNSWICK, MAINE
CTO NO. 151
DECEMBER 1994

for

SUBCONTRACT NO. GCDB-94-240-1298
Halliburton NUS CORPORATION

Northeast Geophysical Services
Division of F. M. Beck, Inc.
198 Main Street
Yarmouth, Maine
December 22, 1994

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APPENDIX B: TEST PIT OHM-94, RAW DATA AND SUMMARY STATISTICS

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Figure 2: Vertical Magnetic Gradient Map, Site 11

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MAGNETOMETER SURVEY
DISPOSAL SITE 11
FORMER FIRE TRAINING AREA
NAVAL AIR STATION
BRUNSWICK, MAINE
CTO NO. 151
DECEMBER 1994

INTRODUCTION

At the request of Halliburton NUS Corporation (HNUS) a gradient magnetic survey was completed at Disposal Site 11, the Former Fire Training Area, at the Naval Air Station located in Brunswick, Maine. The objective of this survey was verify the complete removal of buried drums and assorted metallic debris following test pitting removal activities. This survey was intended to replicate the magnetometer survey work conducted at this site in July and August of 1993.

Northeast Geophysical Services (NGS) provided all equipment, personnel, mobilization, materials, data reduction, interpretation and reporting for the survey.

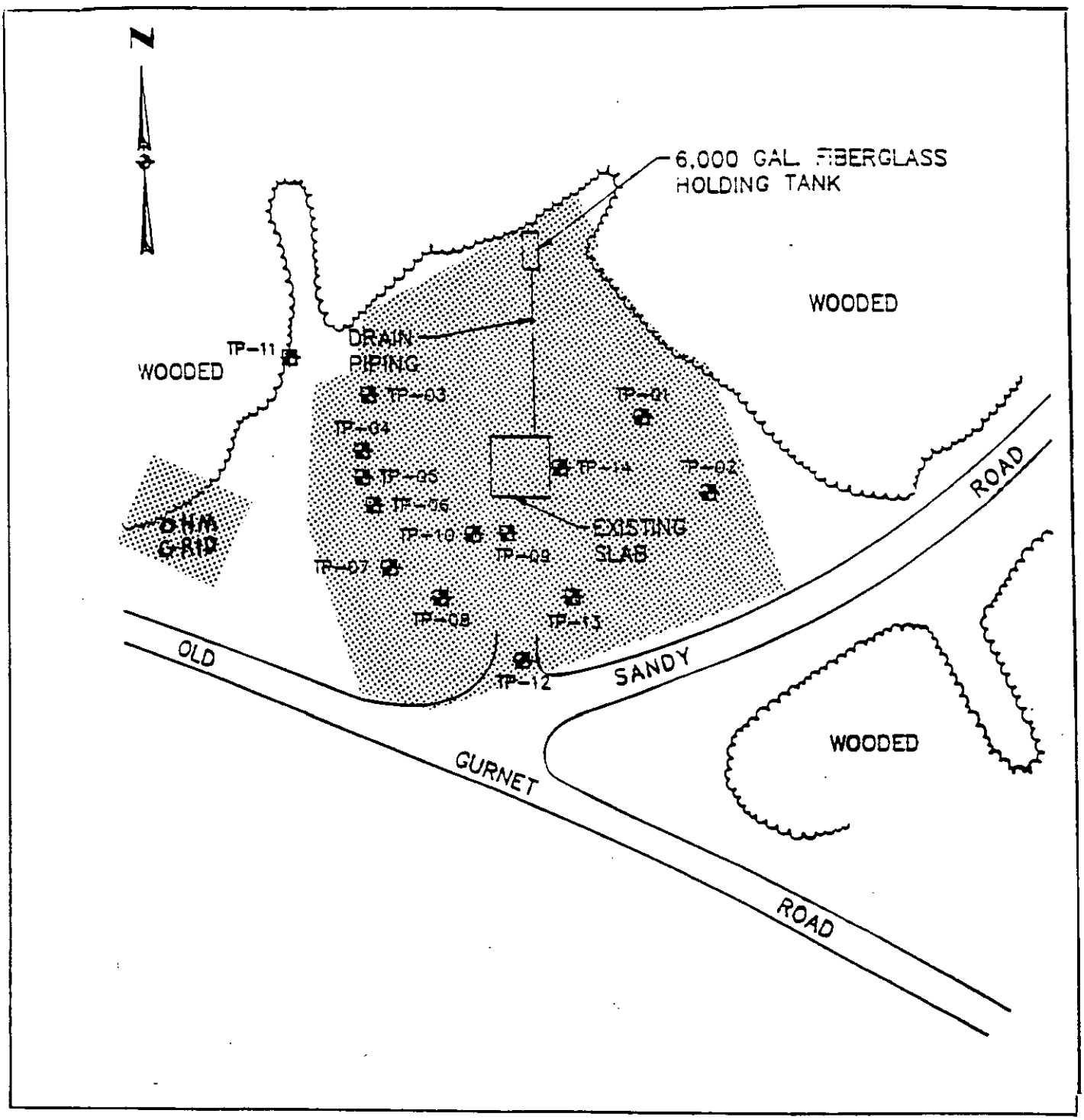
The field survey was conducted on December 1, 2, and 7, 1994. This report describes the equipment and methods used and the results of the survey. Results are presented on maps (Figures 2 and 3) of magnetic gradient anomalies. Raw data and summary statistics are presented in Appendices A (Site 11) and B (Test Pit OHM-94). Base station data are presented in Appendix C; field notes are contained in Appendix D.

LOCATION AND SITE CONDITIONS

Location and site description for the Disposal Site 11 area is as presented in Section 1 of the request for proposals (HNUS RFP #1298-94-240). Figure 1 shows the location of the magnetic survey grid.

MAGNETIC METHODS AND INSTRUMENTATION

Magnetic measurements were made with an Omni Plus proton precession magnetometer/gradiometer. The instrument used for this survey was the same instrument that was used on the previous 1993 survey. This instrument measures the total magnetic field intensity at two sensors, separated by a vertical distance of 0.5 meters. From this data the magnetic field gradient between the two sensors is calculated. The gradient is expressed in gammas per unit distance (gammas per meter in this survey). Gammas are equivalent to nanoteslas.



LEGEND

TP-01

Approximate Test Pit Location and Number

Approximate Magnetometer Survey Area

SCALE

0 100 200

1 inch = 100 feet

Figure 1 – Magnetometer Location Map		
Site 11 – Fire Training Area – NAS		
For: Halliburton NUS Corp.		
Town Brunswick	County Cumberland	State ME
Surveyed Dec. 1, 2, 7, 1994	Revisions	
Northeast Geophysical Services A division of F.M. Beck, Inc. Yarmouth, Maine		

By using vertical gradient measurements rather than a single total field measurement, the need to collect base station data for correction of survey data for diurnal variations and magnetic storms is eliminated. (Base station data was collected, however, to meet contract specifications, and as a check on instrument functioning during the survey. See Appendix C.)

In the absence of any ferrous objects or magnetic minerals (magnetite, pyrrhotite), the total field intensity will be that of the earth's magnetic field, and the gradient will be near .02 gammas per meter in middle latitudes. Gradient anomalies produced by the presence of ferrous objects will be proportional to the amount of magnetic material present, and inversely proportional to the third or fourth power of distance from the sensor.

A survey grid was established with compass and measuring tape. This grid attempted to duplicate the location and orientation of the original 1993 survey grid which was no longer evident. During the course of the survey a few of the original 1993 survey markers were discovered and it appears that the present survey is within 5 feet of the original station locations. Survey line and station locations were marked with pin flags or marker paint. Four-foot, wooden survey posts were placed at forty-foot intervals along every fifth survey line.

Readings were taken at 10-foot intervals along each survey line at the Fire Training Area Site. Initially, on December 1, the eastern side of the site was surveyed. This encompassed Test Pits 1, 2 and 14 which had been excavated and backfilled. The following day, December 2, Test Pit 2 was resurveyed after some nearby surface metal had been removed. A test pit on an adjacent site (OHM-94 Test Pit) was also surveyed. On December 7 the western portion of Site 11 was surveyed with the exception of the area around Test Pits 7-10, which was cordoned off. HNUS representative Janet Pillion instructed the NGS geophysicist not to survey this area. The area near Test Pit 2 was again resurveyed on this date.

SURVEY RESULTS

Results of the magnetic gradient survey are presented on the Vertical Magnetic Gradient Maps (Figures 2 and 3). Summary statistics and histograms of magnetic data are presented in Appendices A and B.

A base station was monitored at least once each half-hour throughout the survey period. The location of the base station was at 120N, 400E, for the December 1st survey. The base station for the December 2nd survey was moved to 160N, 350E, because metal containers had been moved to the previous base station location. For the same reason, a third base station was established at 270N, 300E, for the December 7th survey. The total field and gradient readings for the base stations for each survey day are presented in Appendix C. In general, the gradient data show good repeatability of gradient readings;

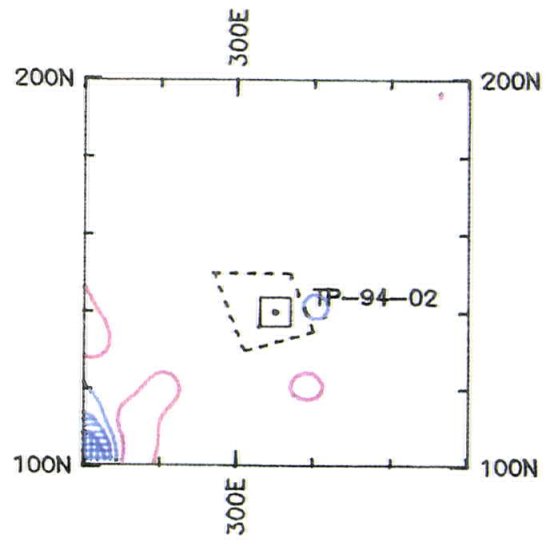


Figure 2B: Repeat Survey of TP-94-02, December 7, 1994

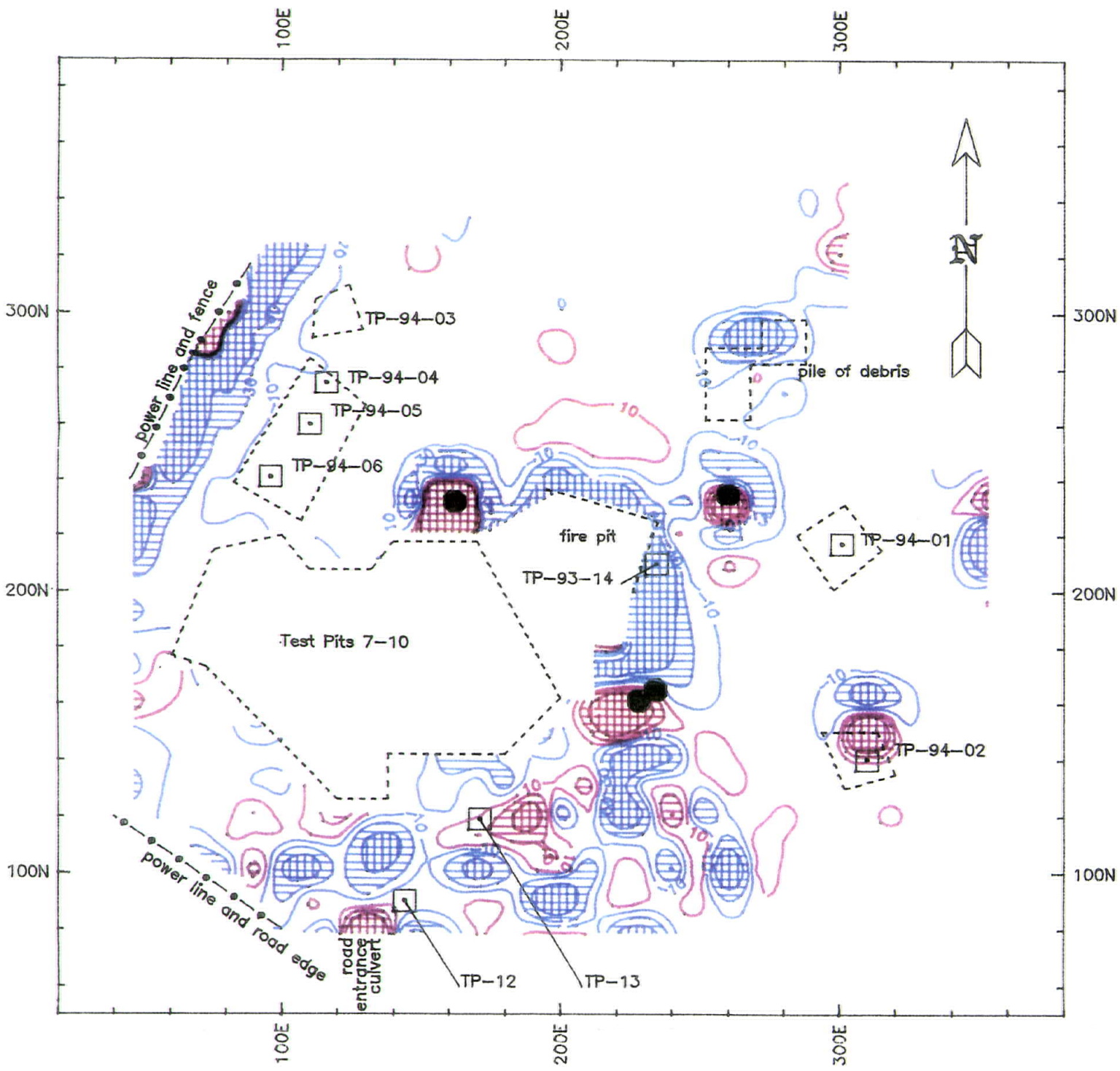


Figure 2A: Site 11, Surveyed December 1-2, 1994

LEGEND

Magnetic Gradient Anomalies

- > 60 gammas/meter
- 30 to 60 gammas/meter
- 10 to 30 gammas/meter
- -10 to -30 gammas/meter
- -30 to -60 gammas/meter
- < -60 gammas/meter
- test pit stake
- well location
- maximum boundary of test pit or debris pile

50 feet

Figure 2: Vertical Magnetic Gradient Map		
Brunswick Naval Air Station, Site 11		
For: Halliburton NUS Corp.		
Town: Brunswick	County: Cumberland	State: ME
Surveyed Dec. 1, 2, & 7, 1994	Revisions	

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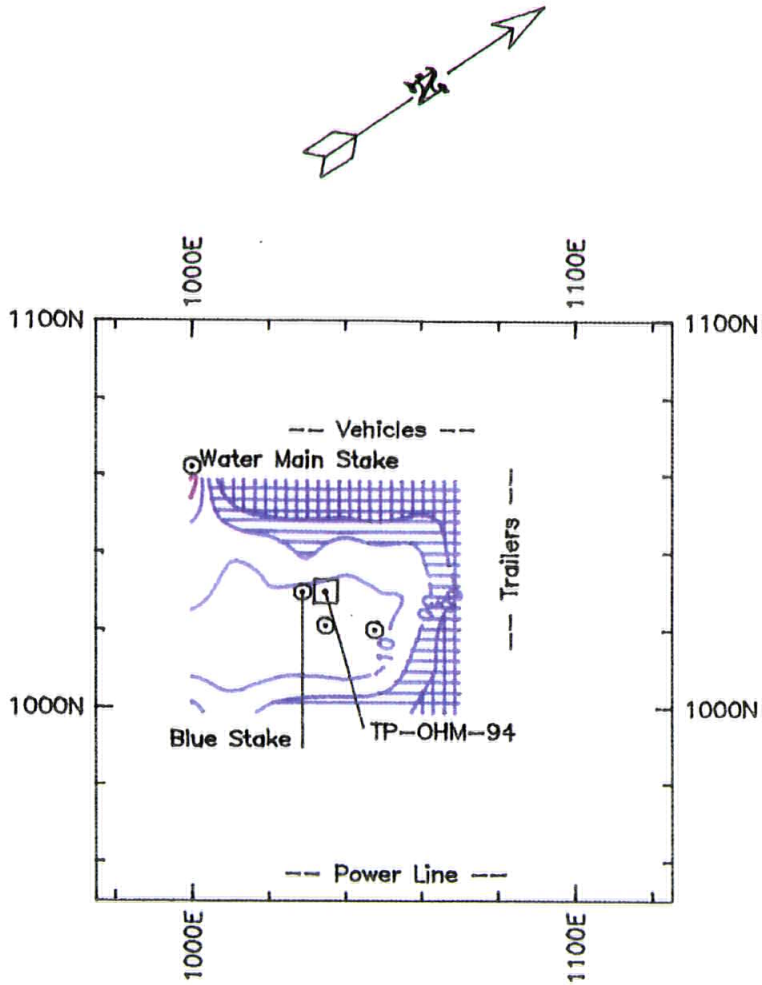
Yarmouth, Maine



LEGEND

Magnetic Gradient Anomalies

- > 60 gammas/meter
- 30 to 60 gammas/meter
- 10 to 30 gammas/meter
- -10 to -30 gammas/meter
- -30 to -60 gammas/meter
- < -60 gammas/meter
- test pit stake
- other stake

50 feet

Figure 3: Vertical Magnetic Gradient Map

Brunswick Naval Air Station, Test Pit OHM-94

For: Halliburton NUS Corp.

Town	County	State
Brunswick	Cumberland	ME

Surveyed Dec. 2, 1994 | Revisions

Northeast Geophysical Services
A division of F.M. Beck, Inc.
Yarmouth, Maine

the total field data shows diurnal variations of the earth's magnetic field of approximately 7 gammas for the December 1st survey, 23 gammas for the December 2nd survey, and 21 gammas for the December 7th survey.

Gradient values of +/- 10 gammas per foot or more were contoured as stipulated in the technical specifications. Anomalously high magnetic gradient areas, indicative of nearby ferrous metal, are shown by magenta contours on the Vertical Magnetic Gradient Map, Figure 2A.

After excavation, Test Pits 1, 3, 4, 5, 6, and the OHM-94 Test Pit show low magnetic gradient readings. This indicates that these areas are clear of any substantial amounts of near-surface ferrous material. The area encompassing Test Pits 7-10 was not surveyed as per instructions. This area was excavated but the metal that was removed was left at the test pit locations. Thus, a magnetic survey over this area would not be beneficial.

The area by Test Pit 14 is encompassed by a large negative gradient magnetic anomaly. These readings are likely caused by the nearby fire pit which contains steel reinforcing rods and contained a metal container at the time of the survey.

The area near Test Pit 12 has a high gradient anomaly at 80N, 130E. This anomaly appears to be caused by a metal culvert that underlies this location.

There were three areas of high magnetic gradient response that were recommended for further investigation. One area is located about ten feet north of the Test Pit 2 center stake at 150N, 310E. When this area was initially surveyed there was nearby surface metal that affected the readings. The area was resurveyed after the surface metal was removed and was still anomalous. This area was excavated, buried metal was removed, and then the area was resurveyed a third time. The final survey results for the Test Pit 2 area are shown on Figure 2B, which shows that the area is clear of any strongly anomalous magnetic response.

The other two high gradient anomalies are located at 120N, 190E, which is about ten feet east of the Test Pit 13 center stake, and at 150N, 220E, which is south of the fire pit. Both of these areas were excavated and buried metal debris was removed. Because no metal drums were discovered, HNUS did not request these two areas to be resurveyed.

SURVEY LIMITATIONS

The Omni Plus magnetometer is a useful tool for detecting buried ferrous objects such as metal drums and pipelines. As with any geophysical instrument, however, there are limitations to its effectiveness. For instance, the anomalous magnetic responses caused by a buried drum or drums cannot effectively be distinguished from a similar sized mass of

buried scrap metal. At the Site 11 area, many of the magnetic anomalies were found to be caused by buried scrap metal.

A second limitation to the surveys is in areas of anomalous response caused by surficial features such as powerlines, fences, surface metal and work trailers. Any buried ferrous metal located near (10 to 15 feet) a surface ferrous metal object would likely be masked by the surficial object.

APPENDIX A: SITE 11, RAW DATA AND SUMMARY STATISTICS

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter	East	North	Total Field Gammas	Gradient Gammas/meter
50	120	54491	-16	80	290	54562	-136
50	130	54485	-30	80	300	55081	241
50	140	54487	-16	90	90	54519	0
50	150	54524	-7	90	100	54543	43
50	160	54572	32	90	110	54560	1
50	170	54539	-6	90	120	54601	30
50	180	54509	0	90	130	54586	-11
50	190	54454	-31	90	140	54612	0
50	200	54456	-21	90	150	54611	-32
50	210	54489	-58	90	220	54503	-15
50	220	54596	-87	90	230	54547	-7
50	230	54710	-81	90	240	54562	-6
50	240	54848	80	90	250	54572	-8
60	120	54509	-5	90	260	54567	-17
60	130	54509	-6	90	270	54565	-23
60	140	54523	-10	90	280	54554	-29
60	150	54541	-3	90	290	54558	-56
60	160	54584	12	90	300	54649	-103
60	170	54593	27	90	310	54842	-99
60	180	54551	2	100	80	54538	-12
60	190	54501	-18	100	90	54484	-39
60	200	54493	-12	100	100	54456	-59
60	210	54513	-15	100	110	54549	3
60	220	54539	-21	100	120	54601	3
60	230	54544	-43	100	130	54598	-18
60	240	54544	-78	100	140	54630	-1
60	250	54543	-216	100	220	54529	-5
60	260	54794	-471	100	230	54565	-2
60	270	55946	-1888	100	240	54578	-3
70	100	54455	-47	100	250	54587	-2
70	110	54472	-23	100	260	54583	-6
70	120	54532	4	100	270	54575	-9
70	130	54547	-4	100	280	54580	-10
70	140	54557	1	100	290	54579	-20
70	150	54566	-2	100	300	54590	-36
70	160	54573	-4	100	310	54617	-65
70	170	54568	-20	100	320	54726	-92
70	210	54509	-22	110	80	54576	-6
70	220	54524	-12	110	90	54540	9
70	230	54537	-14	110	100	54443	-92
70	240	54544	-26	110	110	54564	-2
70	250	54541	-68	110	120	54672	16
70	260	54591	-144	110	130	54673	18
70	270	54695	-268	110	210	54503	-24
70	280	54813	-360	110	220	54544	-7
70	290	54908	824	110	230	54563	-4
80	100	54468	-42	110	240	54579	-2
80	110	54534	7	110	250	54588	-1
80	120	54562	4	110	260	54590	-2
80	130	54568	0	110	270	54585	-5
80	140	54579	0	110	280	54576	-12
80	150	54576	-3	110	290	54577	-7
80	160	54572	-7	110	300	54573	-13
80	220	54501	-12	110	310	54569	-24
80	230	54543	-5	110	320	54564	-53
80	240	54541	-12	120	80	54663	0
80	250	54553	-21	120	90	54574	-6
80	260	54557	-39	120	100	54518	-23
80	270	54566	-67	120	110	54571	1
80	280	54549	-85	120	120	54677	44

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter	East	North	Total Field Gammas	Gradient Gammas/meter
120	210	54515	-10	150	290	54588	-1
120	220	54545	-1	150	300	54593	-1
120	230	54567	1	150	310	54602	0
120	240	54577	-3	150	320	54632	30
120	250	54586	-1	150	330	54587	-8
120	260	54587	0	160	80	54569	-21
120	270	54582	-6	160	90	54569	3
120	280	54582	-8	160	100	54521	-40
120	290	54585	-5	160	110	54588	23
120	300	54582	-6	160	120	54576	-9
120	310	54576	-11	160	130	54558	-21
120	320	54568	-11	160	140	54556	-55
130	80	54873	158	160	230	54974	790
130	90	54580	-26	160	240	54583	-64
130	100	54471	-60	160	250	54556	-7
130	110	54490	-61	160	260	54584	3
130	120	54609	11	160	270	54592	3
130	210	54512	-8	160	280	54592	-1
130	220	54540	-3	160	290	54592	-1
130	230	54570	1	160	300	54593	-1
130	240	54584	4	160	310	54596	
130	250	54587	-1	160	320	54599	-4
130	260	54588	-2	160	330	54572	-23
130	270	54586	-4	170	80	54586	12
130	280	54591	4	170	90	54559	9
130	290	54582	-2	170	100	54493	-90
130	300	54582	-4	170	110	54616	24
130	310	54582	-3	170	120	54618	6
130	320	54580	-8	170	130	54593	4
140	80	54767	13	170	140	54564	-51
140	90	54614		170	220	54587	-1
140	100	54490	-53	170	230	54566	-6
140	110	54456	-74	170	240	54534	-37
140	120	54561	-2	170	250	54539	-6
140	130	54601	-1	170	260	54580	6
140	140	54616	-4	170	270	54596	4
140	220	54503	-11	170	280	54599	2
140	230	54546	-2	170	290	54598	1
140	240	54568	2	170	300	54597	-1
140	250	54581	2	170	310	54594	-1
140	260	54585	-1	170	320	54593	0
140	270	54584	-4	170	330	54596	0
140	280	54584	-5	180	80	54565	-1
140	290	54589	-2	180	90	54549	6
140	300	54592	-3	180	100	54544	-41
140	310	54598	-2	180	110	54652	24
140	320	54599	-4	180	120	54690	40
150	80	54607	-38	180	130	54619	-45
150	90	54592	1	180	140	54588	-21
150	100	54534	-8	180	210	54420	-79
150	110	54527	-12	180	220	54345	-65
150	120	54558	-10	180	230	54426	-19
150	130	54567	-12	180	240	54476	2
150	140	54598	-1	180	250	54532	3
150	230	54561	-34	180	260	54572	7
150	240	54551	-27	180	270	54594	6
150	250	54566	-2	180	280	54604	3
150	260	54580	2	180	290	54606	0
150	270	54585	0	180	300	54605	-1
150	280	54586	-2	180	310	54604	-2

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter
180	320	54606	2
180	330	54609	0
180	340	54610	-1
190	80	54531	-3
190	90	54465	-64
190	100	54559	8
190	110	54655	30
190	120	54732	97
190	130	54663	9
190	140	54619	-10
190	150	54614	
190	220	54204	-149
190	230	54228	-78
190	240	54360	-39
190	250	54499	12
190	260	54566	10
190	270	54594	5
190	280	54611	3
190	290	54622	8
190	300	54611	3
190	310	54602	-2
190	320	54609	2
190	330	54611	-1
190	340	54616	1
200	80	54533	-14
200	90	54445	-112
200	100	54590	18
200	110	54630	18
200	120	54613	-47
200	130	54683	14
200	140	54677	-13
200	150	54745	-15
200	160	54809	-28
200	240	54235	-82
200	250	54452	2
200	260	54568	15
200	270	54600	9
200	280	54616	9
200	290	54626	17
200	300	54596	-10
200	310	54594	-6
200	320	54608	1
200	330	54614	1
200	340	54619	2
200	350	54620	0
210	80	54565	-4
210	90	54519	-25
210	100	54520	-51
210	110	54569	-2
210	120	54593	10
210	130	54643	39
210	140	54671	-2
210	150	54821	31
210	160	54930	50
210	170	54937	-82
210	180	55734	30
210	240	54253	-29
210	250	54487	16
210	260	54572	15
210	270	54598	7
210	280	54612	
210	290	54608	0
210	300	54598	-4
210	310	54612	7
210	320	54612	2
210	330	54612	1
210	340	54616	1
210	350	54618	1
220	80	54540	-36
220	90	54589	23
220	100	54591	18
220	110	54542	-15
220	120	54472	-102
220	130	54520	-64
220	140	54628	-75
220	150	54934	116
220	160	55019	130
220	170	54961	-91
220	180	55660	40
220	230	54152	-147
220	240	54329	-31
220	250	54496	20
220	260	54572	15
220	270	54597	8
220	280	54608	5
220	290	54610	6
220	300	54605	0
220	310	54608	2
220	320	54610	3
220	330	54611	0
220	340	54612	1
220	350	54617	2
230	80	54525	-60
230	90	54570	14
230	100	54579	8
230	110	54535	-16
230	120	54516	-55
230	130	54564	2
230	140	54526	-103
230	150	54757	35
230	160	54880	78
230	170	54785	-61
230	180	54886	-125
230	190	54879	-214
230	200	54124	-450
230	210	53622	-224
230	220	53920	-145
230	230	54358	-45
230	240	54427	-9
230	250	54529	16
230	260	54578	
230	270	54595	5
230	280	54603	4
230	290	54608	3
230	300	54607	1
230	310	54608	0
230	320	54612	4
230	330	54610	0
230	340	54613	2
230	350	54619	3

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter	East	North	Total Field Gammas	Gradient Gammas/meter
240	80	54568	-11	260	110	54515	-41
240	90	54570	4	260	120	54542	-10
240	100	54521	-63	260	130	54598	20
240	110	54559	-11	260	140	54628	14
240	120	54630	62	260	150	54615	4
240	130	54603	13	260	160	54589	-4
240	140	54574	-60	260	170	54568	-6
240	150	54692	14	260	180	54549	-6
240	160	54685	-9	260	190	54539	1
240	170	54610	-48	260	200	54534	7
240	180	54556	-65	260	210	54529	32
240	190	54445	-73	260	220	54466	-56
240	200	54261	-86	260	230	54777	189
240	210	54226	-51	260	240	54687	-52
240	220	54340	7	260	250	54553	-18
240	230	54382	-31	260	260	54571	-8
240	240	54500	-3	260	290	54530	-70
240	250	54555	8	260	300	54566	-4
240	260	54576	3	260	310	54590	0
240	270	54588	3	260	320	54602	1
240	280	54591	1	260	330	54604	0
240	290	54597	2	260	340	54607	-1
240	300	54603	3	260	350	54612	0
240	310	54604	0	260	360	54616	2
240	320	54609	3	270	80	54584	-5
240	330	54609	-1	270	90	54575	4
240	340	54612	0	270	100	54575	12
240	350	54617	0	270	110	54601	20
250	80	54598	2	270	120	54595	0
250	90	54593	16	270	130	54602	2
250	100	54589	26	270	140	54607	
250	110	54592	30	270	150	54596	-2
250	120	54534	-56	270	160	54586	-3
250	130	54569	-6	270	170	54571	-5
250	140	54636	22	270	180	54562	-5
250	150	54653	9	270	190	54557	-4
250	160	54613	-21	270	200	54551	-6
250	170	54583	-23	270	210	54562	12
250	180	54545	-24	270	220	54530	-18
250	190	54497	-24	270	230	54574	-51
250	200	54451		270	240	54578	-53
250	210	54436	1	270	250	54564	-11
250	220	54442	-9	270	260	54583	-13
250	230	54512	-16	270	270	54591	1
250	240	54529	-19	270	280	54593	0
250	250	54553	-28	270	290	54530	-154
250	260	54557	0	270	300	54556	-13
250	270	54578	-8	270	310	54589	1
250	280	54572	-10	270	320	54602	1
250	290	54566	-17	270	330	54606	2
250	300	54587	0	270	340	54607	-1
250	310	54593	-6	270	350	54612	3
250	320	54604	1	270	360	54613	-1
250	330	54604	-4	280	80	54596	-5
250	340	54613	3	280	90	54595	2
250	350	54618	7	280	100	54599	3
250	360	54613	0	280	110	54616	8
260	80	54578	-6	280	120	54619	16
260	90	54524	-38	280	130	54602	1
260	100	54442	-129	280	140	54606	9

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter
280	150	54585	-7
280	160	54589	1
280	170	54578	-2
280	180	54567	-3
280	190	54566	-3
280	200	54566	-3
280	210	54560	-5
280	220	54555	-8
280	230	54552	-7
280	240	54577	-3
280	250	54583	-2
280	260	54590	-5
280	270	54628	-32
280	280	54597	-1
280	300	54557	-19
280	310	54586	0
280	320	54601	1
280	330	54605	4
280	340	54601	-2
280	350	54609	0
280	360	54612	
290	80	54599	-2
290	90	54598	1
290	100	54600	1
290	110	54608	0
290	120	54608	3
290	130	54600	-3
290	140	54597	-4
290	150	54586	-6
290	160	54574	-6
290	170	54578	1
290	180	54578	0
290	190	54577	-1
290	200	54573	-1
290	210	54580	4
290	220	54571	-6
290	230	54575	-2
290	240	54584	2
290	250	54589	2
290	260	54592	-1
290	270	54595	-4
290	280	54594	-9
290	290	54578	-11
290	300	54568	-7
290	310	54566	-25
290	320	54610	3
290	330	54606	-7
290	340	54600	-14
290	350	54609	1
290	360	54613	2
300	80	54592	-2
300	90	54594	1
300	100	54595	-1
300	110	54599	0
300	120	54605	-1
300	130	54606	-2
300	140	54625	0
300	150	54626	3
300	160	54551	-34
300	170	54563	-4
300	180	54581	2
300	190	54581	1
300	200	54582	2
300	210	54585	2
300	220	54569	-1
300	230	54557	-1
300	240	54556	6
300	250	54572	5
300	260	54584	5
300	270	54589	-1
300	280	54590	
300	290	54595	3
300	300	54577	-6
300	310	54581	-26
300	320	54650	60
300	330	54634	12
300	340	54637	14
300	350	54619	3
300	360	54613	-1
310	80	54588	2
310	90	54583	1
310	100	54590	0
310	110	54600	2
310	120	54611	7
310	130	54614	0
310	140	54682	24
310	150	54763	214
310	160	54501	-108
310	170	54546	-8
310	180	54578	1
310	190	54578	0
310	200	54585	6
310	210	54582	2
310	220	54570	-1
310	230	54575	2
310	240	54562	-4
310	250	54545	-6
310	260	54507	-1
310	270	54527	-4
310	280	54468	-8
320	80	54593	7
320	90	54587	2
320	100	54589	3
320	110	54596	3
320	120	54608	13
320	130	54598	0
320	140	54614	2
320	150	54640	13
320	160	54543	-37
320	170	54556	-1
320	180	54576	2
320	190	54581	3
320	200	54579	1
320	210	54583	5
320	220	54585	5
320	230	54584	3
320	240	54593	8
320	250	54597	1
330	80	54585	2
330	90	54584	2

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

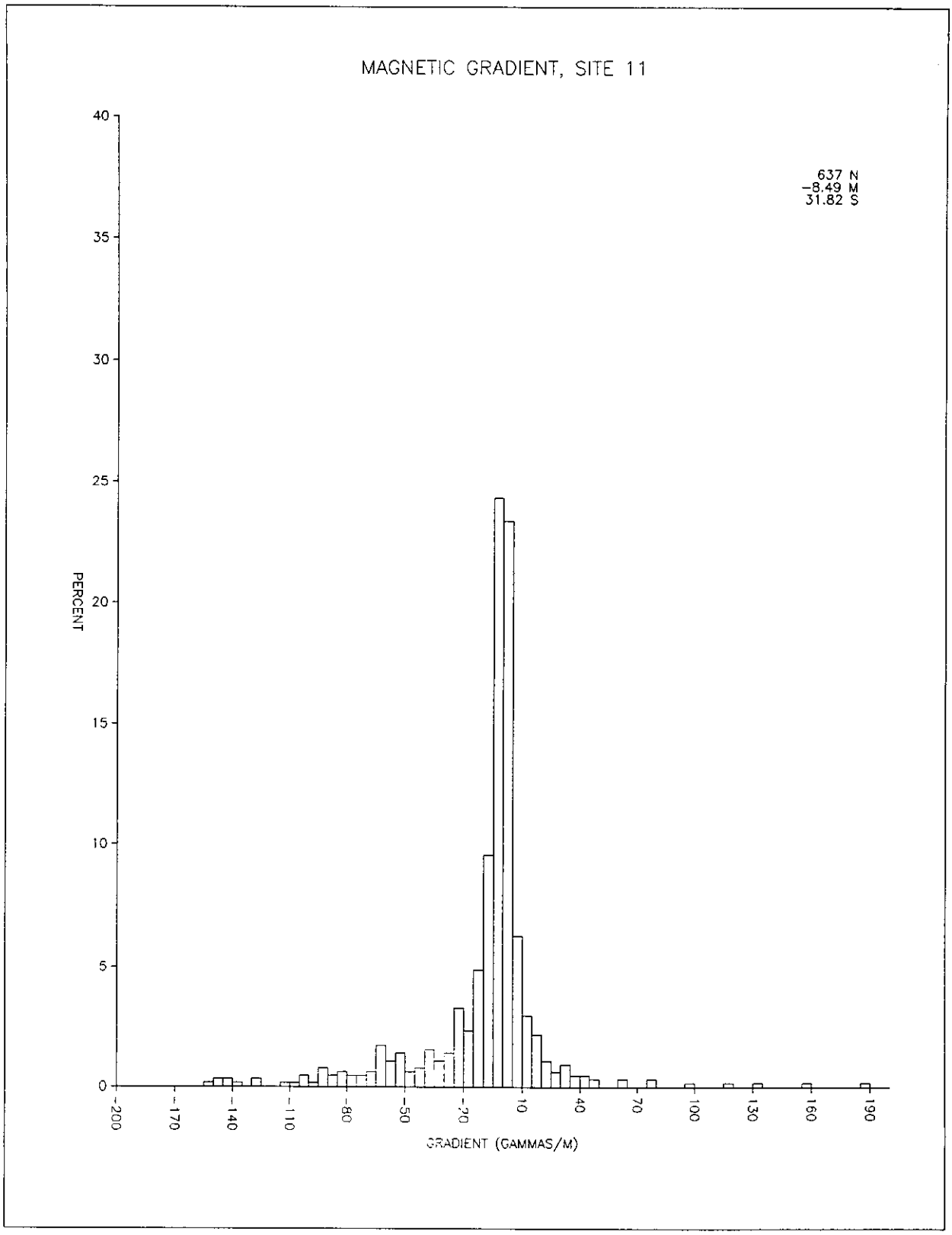
East	North	Total Field Gammas	Gradient Gammas/meter
330	100	54584	
330	110	54588	2
330	120	54577	-3
330	130	54568	-7
330	140	54575	-2
330	150	54571	-4
330	160	54564	-5
330	170	54576	0
330	180	54585	0
330	190	54585	-1
330	200	54574	-6
330	210	54566	4
330	220	54565	0
330	230	54582	2
330	240	54586	1
340	80	54593	-2
340	90	54597	0
340	100	54599	-1
340	110	54601	-1
340	120	54599	-2
340	130	54598	-3
340	140	54602	0
340	150	54601	-2
340	160	54602	-3
340	170	54606	-3
340	180	54615	-3
340	190	54613	-2
340	200	54583	-4
340	210	54515	-7
340	220	54539	5
340	230	54575	9
340	240	54581	-25
350	80	54586	-5
350	90	54586	-2
350	100	54590	-2
350	110	54595	-2
350	120	54596	-3
350	130	54597	-2
350	140	54600	-2
350	150	54602	-4
350	160	54607	-3
350	170	54620	-4
350	180	54650	-4
350	190	54698	-2
350	200	54655	-8
350	210	54350	-95
350	220	54282	-87
350	230	54564	49
350	240	54600	5

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME
RAW DATA, REPEAT SURVEY OVER TP-94-02

East	North	Total Field Gammas	Gradient Gammas/meter	East	North	Total Field Gammas	Gradient Gammas/meter
160	100	54521	-40	230	190	54879	-214
160	110	54588	23	230	200	54124	-450
160	120	54576	-9	240	100	54521	-63
160	130	54558	-21	240	110	54559	-11
160	140	54556	-55	240	120	54630	62
170	100	54493	-90	240	130	54603	13
170	110	54616	24	240	140	54574	-60
170	120	54618	6	240	150	54692	14
170	130	54593	4	240	160	54685	-9
170	140	54564	-51	240	170	54610	-48
180	100	54544	-41	240	180	54556	-65
180	110	54652	24	240	190	54445	-73
180	120	54690	40	240	200	54261	-86
180	130	54619	-45	250	100	54589	26
180	140	54588	-21	250	110	54592	30
190	100	54559	8	250	120	54534	-56
190	110	54655	30	250	130	54569	-6
190	120	54732	97	250	140	54636	22
190	130	54663	9	250	150	54653	9
190	140	54619	-10	250	160	54613	-21
190	150	54614	-61	250	170	54583	-23
200	100	54590	18	250	180	54545	-24
200	110	54630	18	250	190	54497	-24
200	120	54613	-47	250	200	54451	-9
200	130	54683	14	260	100	54442	-129
200	140	54677	-13	260	110	54515	-41
200	150	54745	-15	260	120	54542	-10
200	160	54809	-28	260	130	54598	20
210	100	54520	-51	260	140	54628	14
210	110	54569	-2	260	150	54615	4
210	120	54593	10	260	160	54589	-4
210	130	54643	39	260	170	54568	-6
210	140	54671	-2	260	180	54549	-6
210	150	54821	31	260	190	54539	1
210	160	54930	50	260	200	54534	7
210	170	54937	-82	270	100	54575	12
210	180	55734	30	270	110	54601	20
220	100	54591	18	270	120	54595	0
220	110	54542	-15	270	130	54602	2
220	120	54472	-102	270	140	54607	0
220	130	54520	-64	270	150	54596	-2
220	140	54628	-75	270	160	54586	-3
220	150	54934	116	270	170	54571	-5
220	160	55019	130	270	180	54562	-5
220	170	54961	-91	270	190	54557	-4
220	180	55660	40	270	200	54551	-6
230	100	54579	8	280	100	54599	3
230	110	54535	-16	280	110	54616	8
230	120	54516	-55	280	120	54619	16
230	130	54564	2	280	130	54602	1
230	140	54526	-103	280	140	54606	9
230	150	54757	35	280	150	54585	-7
230	160	54880	78	280	160	54589	1
230	170	54785	-61	280	170	54578	-2
230	180	54886	-125	280	180	54567	-3

MAGNETOMETER SURVEY, DISPOSAL SITE 11, NAVAL AIR STATION, BRUNSWICK, ME
RAW DATA, REPEAT SURVEY OVER TP-94-02

East	North	Total Field Gammas	Gradient Gammas/meter
280	190	54566	-3
280	200	54566	-3
290	100	54600	1
290	110	54608	0
290	120	54608	3
230	190	54879	-214
230	200	54124	-450
240	100	54521	-63
240	110	54559	-11
290	170	54578	1
290	180	54578	0
290	190	54577	-1
290	200	54573	-1
300	100	54595	-1
300	110	54599	0
300	120	54605	-1
300	130	54606	-2
300	140	54509	0
300	150	54531	2
300	160	54542	0
300	170	54556	1
300	180	54581	2
300	190	54581	1
300	200	54582	2
310	100	54590	0
310	110	54600	2
310	120	54611	7
310	130	54614	0
310	140	54479	-1
310	150	54516	5
310	160	54530	2
310	170	54552	3
310	180	54578	1
310	190	54578	0
310	200	54585	6
320	100	54589	3
320	110	54596	3
320	120	54608	13
320	130	54598	0
320	140	54406	-13
320	150	54474	-1
320	160	54513	3
320	170	54540	2
320	180	54576	2
320	190	54581	3
320	200	54579	1
330	100	54584	1
330	110	54588	2
330	120	54577	-3
330	130	54568	-7
330	140	54575	-2
330	150	54571	-4
330	160	54564	-5
330	170	54576	0
330	180	54585	0
330	190	54585	-1
330	200	54574	-6
340	100	54599	-1
340	110	54601	-1
340	120	54599	-2
340	130	54598	-3
340	140	54602	0
340	150	54601	-2
340	160	54602	-3
340	170	54606	-3
340	180	54615	-3
340	190	54613	-2
340	200	54583	-4
350	100	54590	-2
350	110	54595	-2
350	120	54596	-3
350	130	54597	-2
350	140	54600	-2
350	150	54602	-4
350	160	54607	-3
350	170	54620	-4
350	180	54650	-4
350	190	54698	-2
350	200	54655	-8


MAGNETIC GRADIENT, SITE 11
637 N
-8.49 M
31.82 S
PERCENT
0
5
10
15
20
25
30
35
40
-200
-170
-140
-110
-80
-50
-20
10
40
70
100
130
160
190
GRADIENT (GAMMAS/M)

MAGNETIC GRADIENT, SITE 11
Linear classes for GRADIENT (GAMMAS/M)

Class #	class >	class <=	value	count	percent	cum % <=
10	-155.0	-150.0	-154.10	1	0.15	1.39
11	-150.0	-145.0	-147.95	2	0.31	1.69
12	-145.0	-140.0	-144.55	2	0.31	2.00
13	-140.0	-135.0	-136.10	1	0.15	2.16
15	-130.0	-125.0	-127.35	2	0.31	2.47
18	-115.0	-110.0	-111.90	1	0.15	2.62
19	-110.0	-105.0	-108.20	1	0.15	2.77
20	-105.0	-100.0	-102.80	3	0.46	3.24
21	-100.0	-95.0	-99.40	1	0.15	3.39
22	-95.0	-90.0	-91.98	5	0.77	4.16
23	-90.0	-85.0	-86.80	3	0.46	4.62
24	-85.0	-80.0	-82.25	4	0.62	5.24
25	-80.0	-75.0	-78.37	3	0.46	5.70
26	-75.0	-70.0	-73.70	3	0.46	6.16
27	-70.0	-65.0	-67.58	4	0.62	6.78
28	-65.0	-60.0	-62.65	11	1.69	8.47
29	-60.0	-55.0	-57.40	7	1.08	9.55
30	-55.0	-50.0	-52.16	9	1.39	10.94
31	-50.0	-45.0	-46.92	4	0.62	11.56
32	-45.0	-40.0	-42.34	5	0.77	12.33
33	-40.0	-35.0	-37.84	10	1.54	13.87
34	-35.0	-30.0	-32.31	7	1.08	14.95
35	-30.0	-25.0	-27.62	9	1.39	16.33
36	-25.0	-20.0	-22.60	21	3.24	19.57
37	-20.0	-15.0	-17.51	15	2.31	21.88
38	-15.0	-10.0	-12.01	31	4.78	26.66
39	-10.0	-5.0	-7.05	61	9.40	36.06
40	-5.0	0.0	-2.16	155	23.88	59.94
41	0.0	5.0	1.83	149	22.96	82.90
42	5.0	10.0	7.18	40	6.16	89.06
43	10.0	15.0	12.73	19	2.93	91.99
44	15.0	20.0	17.06	14	2.16	94.14
45	20.0	25.0	22.93	7	1.08	95.22
46	25.0	30.0	28.30	4	0.62	95.84
47	30.0	35.0	30.90	6	0.92	96.76
48	35.0	40.0	38.07	3	0.46	97.23
49	40.0	45.0	42.27	3	0.46	97.69
50	45.0	50.0	49.50	2	0.31	98.00
53	60.0	65.0	61.30	2	0.31	98.31
56	75.0	80.0	78.85	2	0.31	98.61
60	95.0	100.0	97.20	1	0.15	98.77
64	115.0	120.0	115.70	1	0.15	98.92
67	130.0	135.0	130.40	1	0.15	99.08
72	155.0	160.0	157.90	1	0.15	99.23
78	185.0	190.0	188.90	1	0.15	99.38
				=======	========	
				637	98.15	

637 points included in classes. 12 points outside the axis range.

SUMMARY STATISTICS, SITE 11

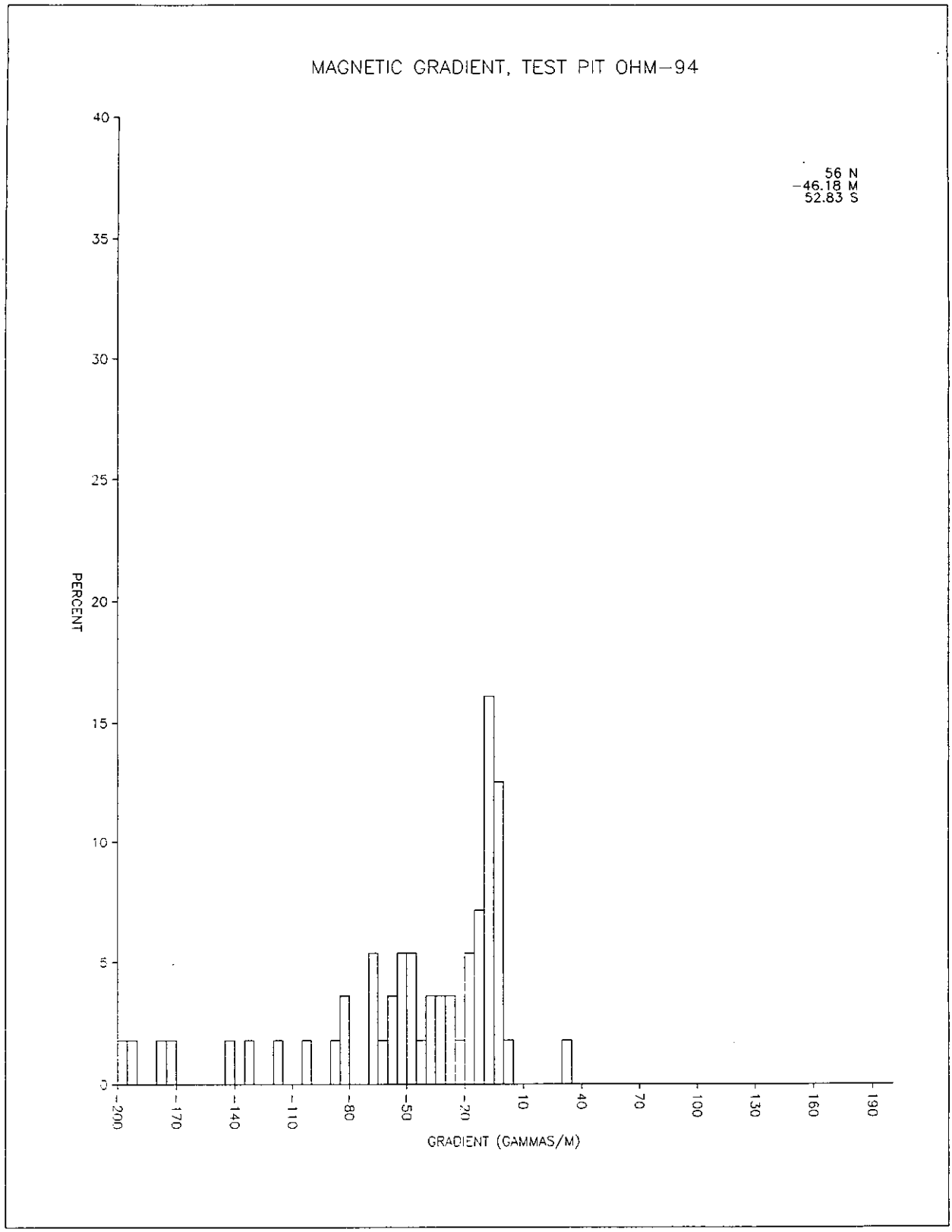
	Gammas	Gradient (Gammas/M)
Number	649	649
Mean	54583.33	-11.45
Std Dev	127.97	98.94
Variance	16376	9790
Maximum	55946	824
Minimum	53622	-1888
Range	2324	2712
Coef Var	0.2344	-863.9685
Std Err	5.0231	3.8838
Median	54584.4	-1.7
Mode	54612	0

APPENDIX B: TEST PIT OHM-94, RAW DATA AND SUMMARY STATISTICS

MAGNETOMETER SURVEY, TEST PIT OHM-94, NAVAL AIR STATION, BRUNSWICK, ME

RAW DATA

East	North	Total Field Gammas	Gradient Gammas/meter
1000	1000	54438	-41
1000	1010	54462	-8
1000	1020	54471	-5
1000	1030	54460	-15
1000	1040	54450	-27
1000	1050	54468	-7
1000	1060	54482	32
1010	1000	54454	-13
1010	1010	54475	-2
1010	1020	54482	-3
1010	1030	54478	-5
1010	1040	54474	-11
1010	1050	54447	-38
1010	1060	54322	-104
1020	1000	54448	-39
1020	1010	54492	-5
1020	1020	54504	-5
1020	1030	54509	-9
1020	1040	54500	-16
1020	1050	54467	-52
1020	1060	54420	-195
1030	1000	54463	-49
1030	1010	54500	-8
1030	1020	54512	-8
1030	1030	54514	-2
1030	1040	54481	-31
1030	1050	54459	-57
1030	1060	54542	-174
1040	1000	54467	-56
1040	1010	54489	-4
1040	1020	54509	3
1040	1030	54508	-4
1040	1040	54470	-16
1040	1050	54414	-53
1040	1060	54332	-177
1050	1000	54454	-52
1050	1010	54472	-13
1050	1020	54486	-8
1050	1030	54486	-9
1050	1040	54464	-23
1050	1050	54409	-62
1050	1060	54352	-196
1060	1000	54441	-69
1060	1010	54442	-48
1060	1020	54450	-32
1060	1030	54468	-15
1060	1040	54451	-27
1060	1050	54407	-48
1060	1060	54335	-144
1070	1000	54476	-132
1070	1010	54711	-70
1070	1020	54402	-119
1070	1030	54430	-66
1070	1040	54403	-80
1070	1050	54326	-81
1070	1060	54252	-88


MAGNETIC GRADIENT, TEST PIT OHM-94
56 N
-46.18 M
52.83 S
PERCENT
0
5
10
15
20
25
30
35
40
-200
-170
-140
-110
-80
-50
-20
10
40
70
100
130
160
190
GRADIENT (GAMMAS/M)

MAGNETIC GRADIENT, TEST PIT OHM-94
Linear classes for GRADIENT (GAMMAS/M)

Class #	class >	class <=	value	count	percent	cum % <=
1	-200.0	-195.0	-196.30	1	1.79	1.79
2	-195.0	-190.0	-194.90	1	1.79	3.57
5	-180.0	-175.0	-176.60	1	1.79	5.36
6	-175.0	-170.0	-174.50	1	1.79	7.14
12	-145.0	-140.0	-143.90	1	1.79	8.93
14	-135.0	-130.0	-131.60	1	1.79	10.71
17	-120.0	-115.0	-119.00	1	1.79	12.50
20	-105.0	-100.0	-104.40	1	1.79	14.29
23	-90.0	-85.0	-87.60	1	1.79	16.07
24	-85.0	-80.0	-80.50	2	3.57	19.64
27	-70.0	-65.0	-67.97	3	5.36	25.00
28	-65.0	-60.0	-62.20	1	1.79	26.79
29	-60.0	-55.0	-56.85	2	3.57	30.36
30	-55.0	-50.0	-52.30	3	5.36	35.71
31	-50.0	-45.0	-48.33	3	5.36	41.07
32	-45.0	-40.0	-41.10	1	1.79	42.86
33	-40.0	-35.0	-38.15	2	3.57	46.43
34	-35.0	-30.0	-31.90	2	3.57	50.00
35	-30.0	-25.0	-27.10	2	3.57	53.57
36	-25.0	-20.0	-23.00	1	1.79	55.36
37	-20.0	-15.0	-15.60	3	5.36	60.71
38	-15.0	-10.0	-12.80	4	7.14	67.86
39	-10.0	-5.0	-7.53	9	16.07	83.93
40	-5.0	0.0	-3.56	7	12.50	96.43
41	0.0	5.0	2.60	1	1.79	98.21
47	30.0	35.0	31.80	1	1.79	100.00
				=======	========	
				56	100.00	

56 points included in classes. 0 points outside the axis range.

SUMMARY STATISTICS, TEST PIT OHM-94

	Gammas	Gradient (Gammas/M)
Number	56	56
Mean	54455.01	-46.18
Std Dev	65.32	52.83
Variance	4267	2791
Maximum	54711	32
Minimum	54252	-196
Range	458	228
Coef Var	0.1199	-114.4036
Std Err	8.7286	7.0602
Median	54465.6	-29.4
Mode	54500	-16

APPENDIX C: BASE STATION DATA

Brunswick NAS Fire Training Area 12-01-94

Magnetometer Base Station (at 120N,400E)

Time	Julian Time	Reading (Gammas)	Gradient (Gammas/m)
14:44:20	335.614	54582.7	-4.7
14:44:30	335.6142	54582.4	-4.2
14:44:38	335.6143	54582.1	-3.8
14:45:55	335.6152	54582.2	-3.5
14:57:16	335.6231	54583.6	-4.1
15:06:30	335.6295	54586.4	-2.7
15:21:45	335.6401	54581.4	-2.8
15:32:42	335.6477	54580.6	-4.6
15:41:10	335.6536	54582.9	-2.4
16:00:10	335.6668	54586.6	-2.3

Brunswick NAS Fire Training Site 12-02-94
Magnetic Survey
Base Station (at 350E 160N)

Time	Julian Time	Total (Gammas)	Gradient (Gammas/m)
12:12:40	336.5088	54554.8	-4.3
12:29:30	336.5205	54572.4	-1.4
12:57:20	336.5398	54544	-7.2
13:05:15	336.5453	54538.8	-7.8
13:15:00	336.5521	54542.9	-8.3
13:15:15	336.5523	54543	-8.2
13:30:22	336.5628	54543.2	-7.5
13:30:30	336.5628	54543.6	-6.8

Brunswick NAS Fire Training Site 12-07-94
Magnetic Survey
Base Station (at 300E 270N)

Time	Total (Gammas)	Gradient (Gammas/m)
341.5016	54593.6	-0.2
341.5018	54593.1	0.3
341.5193	54597.1	-2.4
341.5312	54600.8	-0.2
341.5626	54603.4	1.3
341.5628	54603.6	0
341.5904	54612.2	3.1
341.5967	54614	2.2
341.5968	54614.6	3.3

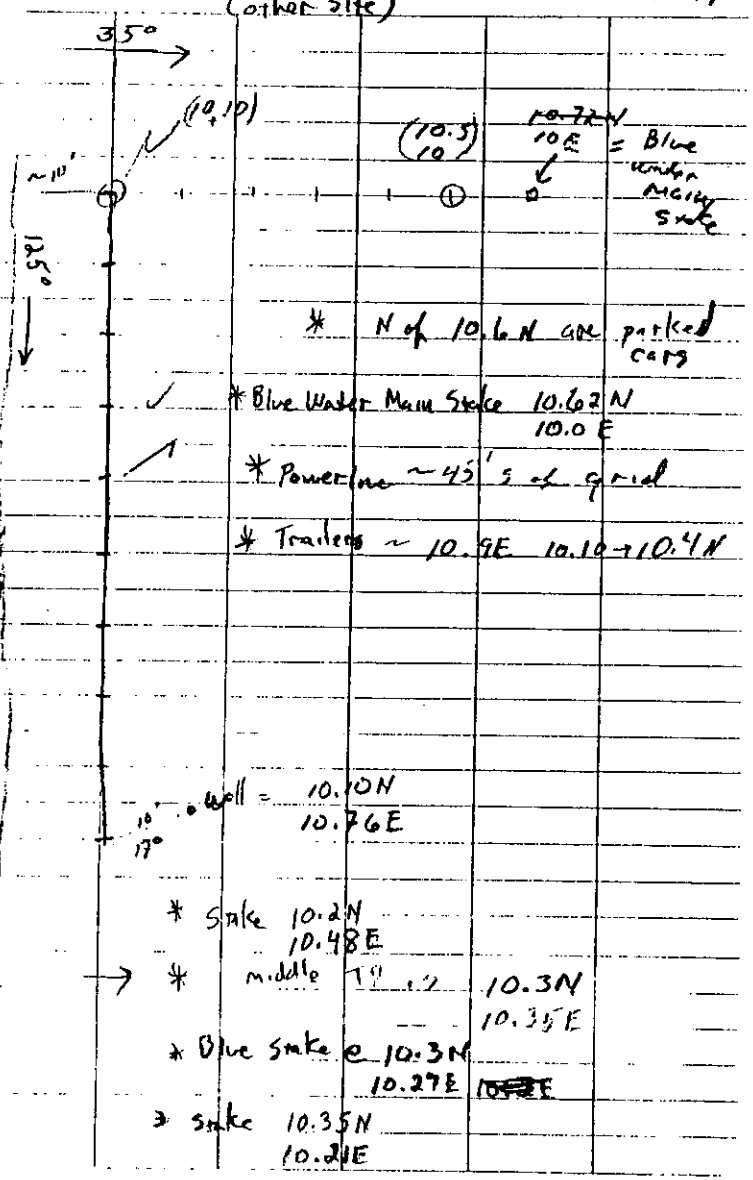
APPENDIX D: FIELD NOTES

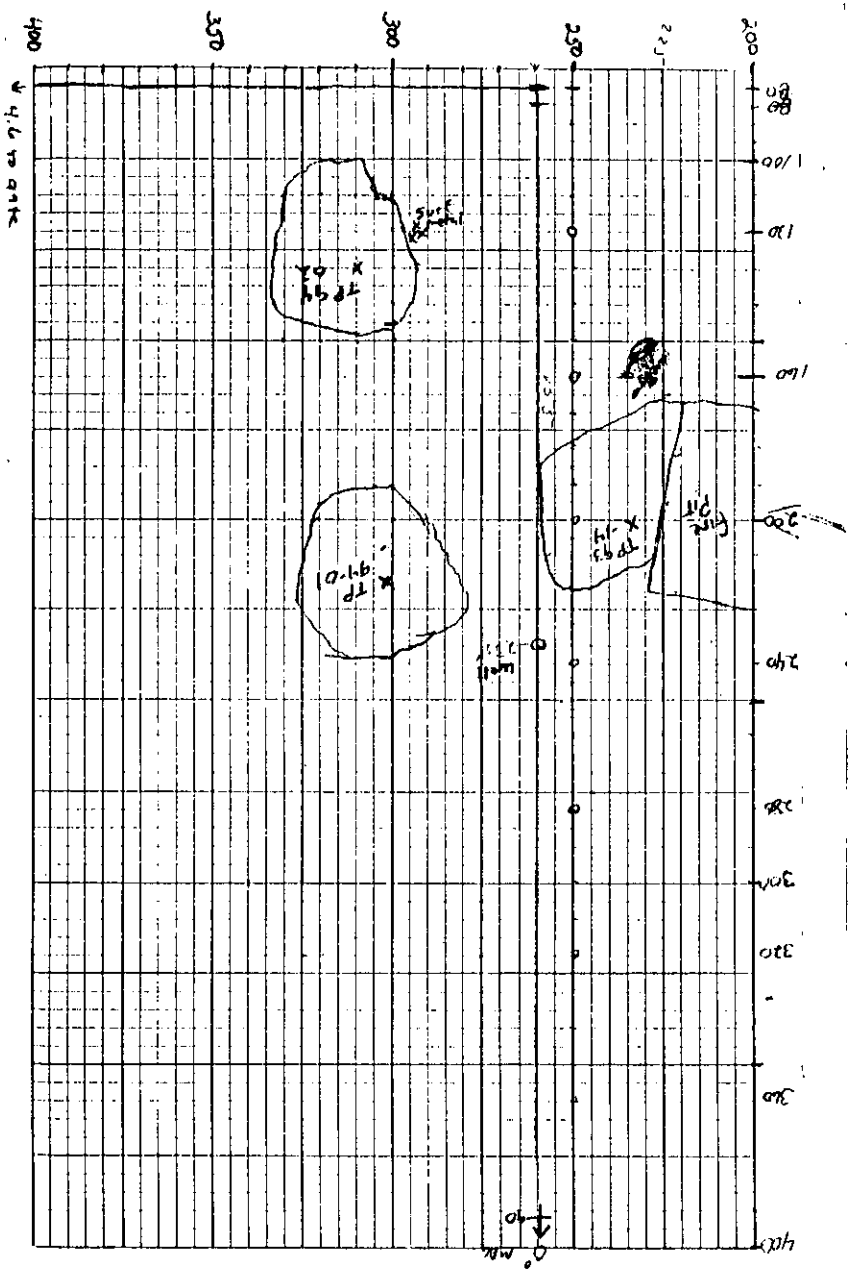
RUBY BNAS MAG

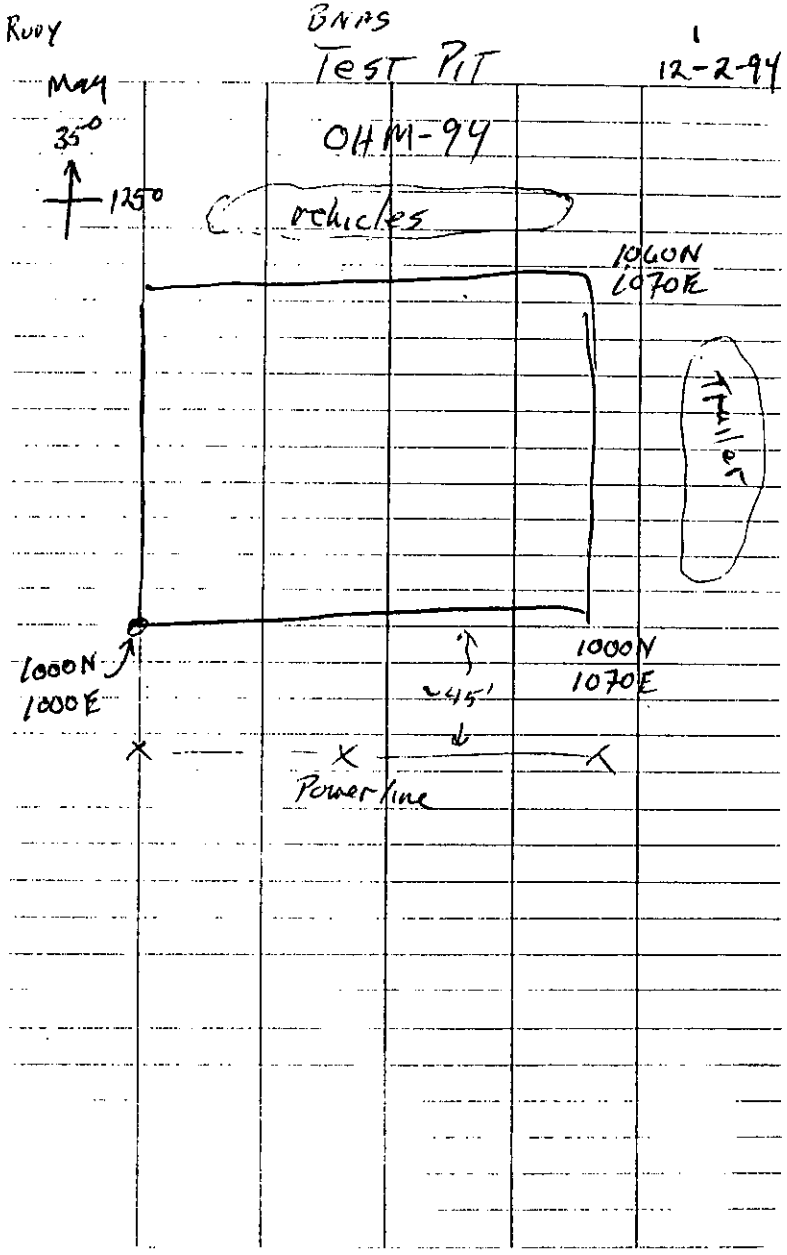
SITE 11 12-1-94

250E	100N	is	~2.5' w. of old 2.5E 4.0N
200E	300N	is	7' N of old 3.0E 3.0N
301E	217N	=	TP 94-01 stake
~310E	140N	=	TP 94-02 stake
228E	161N	=	well
234E	165N	=	well
234.5E	201N	=	TP 94-14 stake
226E	200N	=	concrete edge fire pit (big metal cover)

RUBY BNAS TP-PIT 94-OHM (other site) 12-2-94






Ruby
BNAS
Test Pit
12-2-94
Map
35°
125°
OHM-94
vehicles
1060N
1070E
Trailer
1000N
1000E
1000N
1070E
~45'
Power line

RUDY BNAS 12-7-94

MAG SITE 11

TP-94-06 241N 90E = Center Stake
239N 83E = Perimeter Stake
TP94-05 260N 110E center Stake
TP 94-04 275N 116E center stake
284N 110E perimeter
267 N 130E " "
225N 107E " "

TP 94-03 291N 111E Perimeter
305N 112E " "
310N 124E
294N 129E

320N 90E = Fence (colorbond powerline)
280N 65E " "
240N 46E " " (colorbond @ 60E

177N 61E Perimeter Stake
215N 76E " "
220N 100E " "
126N 120E " "

237N 195E = NW corner Fire Pit

232 N 162E = MW
225N 235E NE corner Fire Pit

RUDY BNAS 12-7-94

MAG SITE 11

270E 240N → 280N and above

200E 80 - 100-170N

Base @ 300E 270N

RUDY BNAS 12-7-94

MAG SITE - 11

FIBER GLASS TANK PIT

Perimeter stakes

288N 250E

261N 255E

278N 288E

300N 280E

TP 94-01 Perimeters

231N 302E

220N 285E

201N 298E

215N 315E

TP 94-02 Perimeters

150N 294E

130N 302E

150N 314E

135N 320E

TP-13 119N 171E center stake

TP-12 90N 144E

* 80N 130E = Road entrance & culvert

80N 100E ~ edge Rd under power line

120N 40E ~ edge Rd " "

APPENDIX D
TEST PIT AND GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLES

TCL VOLATILE ORGANIC ANALYSES

W5295076F

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE AQUEOUS ANALYSES (ug/L)

CLIENT ID:			FTA-TB		TATB05		TATB06		USTGW1		USTGW2	
LABORATORY ID:			42507-1		42437-3		42475-3		42437-1		42437-2	
ANALYTE	CRQL	MDL										
CHLOROMETHANE	10	2.32	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	3.95	10	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	10	2.48	10	U	10	U	10	U	10	U	10	U
CHLOROETHANE	10	2.41	10	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	10	3.08	6	BJ	6	BJ	8	BJ	5	BJ	4	BJ
ACETONE	10	2.82	6	BJ	10	U	10	U	10	U	10	U
CARBON DISULFIDE	10	3.86	10	U	8	J	10	U	10	U	10	U
1,1-DICHLOROETHENE	10	4.34	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHANE	10	1.57	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROETHENE	10	4.69	10	U	10	U	10	U	10	U	10	U
CHLOROFORM	10	1.84	32		34		31		10	U	10	U
1,2-DICHLOROETHANE	10	1.89	10	U	10	U	10	U	10	U	10	U
2-BUTANONE	10	0.44	10	U	10	U	10	U	10	U	15	
1,1,1-TRICHLOROETHANE	10	2.29	10	U	10	U	10	U	10	U	10	U
CARBON TETRACHLORIDE	10	1.58	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	1.05	10	U	10	U	3	J	10	U	10	U
1,2-DICHLOROPROPANE	10	0.66	10	U	10	U	10	U	10	U	10	U
Cis-1,3-DICHLOROPROPENE	10	0.85	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	10	0.91	10	U	10	U	10	U	10	U	10	U
DIBROMOCHLOROMETHANE	10	1.12	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	0.93	10	U	10	U	10	U	10	U	10	U
BENZENE	10	1	10	U	10	U	10	U	10	U	10	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	1.06	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	1.97	10	U	10	U	10	U	10	U	10	U
2-HEXANONE	10	0.9	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	1	10	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	10	0.61	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	1.61	10	U	10	U	10	U	4	J	10	U
CHLOROBENZENE	10	0.44	10	U	10	U	10	U	10	U	10	U
ETHYLBENZENE	10	0.73	10	U	10	U	10	U	8	J	9	J
STYRENE	10	0.61	10	U	10	U	10	U	5	J	5	J
XYLENES(TOTAL)	10	0.92	10	U	10	U	10	U	13		12	
DILUTION FACTOR:			1		1		1		1		1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE AQUEOUS ANALYSES (ug/L)

CLIENT ID:			TAFB01		TAFB02		TARB01		TATB01		TATB02		TATB03		TATB04		TATB05	
LABORATORY ID:			42352-14		42352-15		42346-17		42346-18		42352-13		42396-7		42409-3		42438-3	
ANALYTE	CRQL	MDL																
CHLOROMETHANE	10	2.32	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
BROMOMETHANE	10	3.95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
VINYL CHLORIDE	10	2.48	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
CHLOROETHANE	10	2.41	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
METHYLENE CHLORIDE	10	3.08	7	BJ	11	B	11	B	11	B	11	B	8	BJ	10	B	8	BJ
ACETONE	10	2.82	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
CARBON DISULFIDE	10	3.86	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHENE	10	4.34	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-DICHLOROETHANE	10	1.57	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-DICHLOROETHENE	10	4.89	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
CHLOROFORM	10	1.84	4	J	10	U	36		39		39		32		38		33	
1,2-DICHLOROETHANE	10	1.89	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-BUTANONE	10	0.44	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-TRICHLOROETHANE	10	2.29	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
CARBON TETRACHLORIDE	10	1.58	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
BROMODICHLOROMETHANE	10	1.05	10	U	10	U	4	J	4	J	4	J	3	J	4	J	10	U
1,2-DICHLOROPROPANE	10	0.66	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cis-1,3-DICHLOROPROPENE	10	0.85	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
TRICHLOROETHENE	10	0.91	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
DIBROMOCHLOROMETHANE	10	1.12	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	10	0.93	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
BENZENE	10	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
BROMOFORM	10	1.06	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-METHYL-2-PENTANONE	10	1.97	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-HEXANONE	10	0.9	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
TETRACHLOROETHENE	10	1	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2,2-TETRACHLOROETHANE	10	0.61	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
TOLUENE	10	1.61	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
CHLOROBENZENE	10	0.44	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
ETHYLBENZENE	10	0.73	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
STYRENE	10	0.61	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
XYLENES(TOTAL)	10	0.92	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
DILUTION FACTOR:			1		1		1		1		1		1		1		1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS01		01SS02		02SS01		02SS02		03SS01		03SS02		04SS01		04SS02		05SS01	
LABORATORY ID:			42346-3		42346-4		42352-1		42352-2		42396-1		42396-2		42409-1		42409-2		42438-1	
ANALYTE	CRQL	MDL																		
CHLOROMETHANE	10	2.32	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
BROMOMETHANE	10	3.95	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
VINYL CHLORIDE	10	2.48	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
CHLOROETHANE	10	2.41	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
METHYLENE CHLORIDE	10	3.08	16	B	14	B	8	BJ	19	B	12	B	16	B	59	B	55	B	12	B
ACETONE	10	2.82	25	B	11	U	10	U	11	U	14	B	11	U	63	B	200	B	13	B
CARBON DISULFIDE	10	3.86	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,1-DICHLOROETHENE	10	4.34	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,1-DICHLOROETHANE	10	1.57	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,2-DICHLOROETHENE	10	4.89	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
CHLOROFORM	10	1.84	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,2-DICHLOROETHANE	10	1.89	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
2-BUTANONE	10	0.44	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,1,1-TRICHLOROETHANE	10	2.29	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
CARBON TETRACHLORIDE	10	1.58	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
BROMODICHLOROMETHANE	10	1.05	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,2-DICHLOROPROPANE	10	0.66	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
Cis-1,3-DICHLOROPROPENE	10	0.85	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
TRICHLOROETHENE	10	0.91	11	U	11	U	10	U	11	U	85		11	U	49	U	34	U	10	U
DIBROMOCHLOROMETHANE	10	1.12	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
1,1,2-TRICHLOROETHANE	10	0.93	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
BENZENE	10	1	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
BROMOFORM	10	1.06	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
4-METHYL-2-PENTANONE	10	1.97	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
2-HEXANONE	10	0.9	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
TETRACHLOROETHENE	10	1	10	J	11	U	10	U	11	U	3	J	11	U	190		100		10	U
1,1,2,2-TETRACHLOROETHANE	10	0.61	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
TOLUENE	10	1.61	11	U	11	U	10	U	11	U	11	U	3	J	49	U	11	J	10	U
CHLOROBENZENE	10	0.44	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
ETHYLBENZENE	10	0.73	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
STYRENE	10	0.61	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
XYLENES(TOTAL)	10	0.92	11	U	11	U	10	U	11	U	11	U	11	U	49	U	34	U	10	U
%SOLID			88		86		97		95		90		93		93		91		92	

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CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			05SS02		06SS01		06SS02		07SS01		08SS01		08SS01RE		09SS01		09SS02		10SS01	
LABORATORY ID:			42438-2		42475-4		42475-5		42475-1		42475-6		42475-6RE		42475-12		42475-13		42507-2	
ANALYTE	CRQL	MDL																		
CHLOROMETHANE	10	2.32	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
BROMOMETHANE	10	3.95	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
VINYL CHLORIDE	10	2.48	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
CHLOROETHANE	10	2.41	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
METHYLENE CHLORIDE	10	3.08	13	B	8	BJ	9	BJ	13	BJ	16	B	10	BJ	10	BJ	5	BJ	9	BJ
ACETONE	10	2.62	22	B	26	B	28	B	55	B	44	B	24	B	42	B	43	B	21	B
CARBON DISULFIDE	10	3.86	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,1-DICHLOROETHENE	10	4.34	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,1-DICHLOROETHANE	10	1.57	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,2-DICHLOROETHENE	10	4.89	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
CHLOROFORM	10	1.84	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,2-DICHLOROETHANE	10	1.89	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
2-BUTANONE	10	0.44	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,1,1-TRICHLOROETHANE	10	2.29	12	U	11	U	11	U	14	U	7	J	13	U	11	U	10	U	11	U
CARBON TETRACHLORIDE	10	1.58	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
BROMODICHLOROMETHANE	10	1.05	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,2-DICHLOROPROPANE	10	0.66	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
Cis-1,3-DICHLOROPROPENE	10	0.85	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
TRICHLOROETHENE	10	0.91	12	U	11	U	11	U	14	U	11	J	18		11	U	10	U	11	U
DIBROMOCHLOROMETHANE	10	1.12	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
1,1,2-TRICHLOROETHANE	10	0.93	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
BENZENE	10	1	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
BROMOFORM	10	1.06	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
4-METHYL-2-PENTANONE	10	1.97	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
2-HEXANONE	10	0.9	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
TETRACHLOROETHENE	10	1	12	U	11	U	11	U	14	U	5	J	5	J	11	U	10	U	11	U
1,1,2,2-TETRACHLOROETHANE	10	0.61	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
TOLUENE	10	1.61	12	U	11	U	11	U	14	U	13		9	J	11	U	10	U	11	U
CHLOROBENZENE	10	0.44	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
ETHYLBENZENE	10	0.73	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
STYRENE	10	0.61	12	U	11	U	11	U	14	U	12	U	13	U	11	U	10	U	11	U
XYLENES(TOTAL)	10	0.92	12	U	11	U	11	U	14	U	23		4	J	11	U	10	U	11	U
%SOLID			88		94		93		67		78		78		90		96		95	

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CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			10SS02		12SS01		12SS02		12SS03		13SS01		13SS02		14SS01		14SS02		HMSS01	
LABORATORY ID.			42507-3		42475-9		42475-10		42475-11		42382-1		42382-2		42352-3		42352-4		42346-1	
ANALYTE	CRQL	MDL																		
CHLOROMETHANE	10	2.32	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
BROMOMETHANE	10	3.95	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	8	J
VINYL CHLORIDE	10	2.48	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
CHLOROETHANE	10	2.41	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
METHYLENE CHLORIDE	10	3.08	11	BJ	9	BJ	9	BJ	12	BJ	28	B	23	B	14	B	20	B	20	B
ACETONE	10	2.82	34	B	20	B	25	B	42	B	14	U	14	B	12	U	12	U	64	B
CARBON DISULFIDE	10	3.88	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,1-DICHLOROETHENE	10	4.34	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,1-DICHLOROETHANE	10	1.57	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,2-DICHLOROETHENE	10	4.89	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
CHLOROFORM	10	1.84	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,2-DICHLOROETHANE	10	1.89	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
2-BUTANONE	10	0.44	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,1,1-TRICHLOROETHANE	10	2.29	11	U	11	U	11	U	13	U	22		11	U	10	J	12	U	8	J
CARBON TETRACHLORIDE	10	1.58	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
BROMODICHLOROMETHANE	10	1.05	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,2-DICHLOROPROPANE	10	0.68	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
Cis-1,3-DICHLOROPROPENE	10	0.85	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
TRICHLOROETHENE	10	0.91	11	U	11	U	11	U	13	U	40		11	U	26		12	U	13	U
DIBROMOCHLOROMETHANE	10	1.12	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
1,1,2-TRICHLOROETHANE	10	0.93	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
BENZENE	10	1	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
BROMOFORM	10	1.06	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
4-METHYL-2-PENTANONE	10	1.97	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
2-HEXANONE	10	0.9	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
TETRACHLOROETHENE	10	1	11	U	11	U	11	U	13	U	6	J	11	U	25		12	U	39	
1,1,2,2-TETRACHLOROETHANE	10	0.61	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
TOLUENE	10	1.61	11	U	11	U	11	U	13	U	14	U	11	U	4	J	3	J	4	J
CHLOROBENZENE	10	0.44	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
ETHYLBENZENE	10	0.73	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
STYRENE	10	0.61	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
XYLENES(TOTAL)	10	0.92	11	U	11	U	11	U	13	U	14	U	11	U	12	U	12	U	13	U
%SOLID			89		91		92		78		77		92		88		88		76	

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CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			HMSS01RE		HMSS02		HMSS02RE		HMSS03		HMSS03RE		USTSS1		USTSS2		USTSS3		USTSS4	
LABORATORY ID:			42348-1RE		42348-2		42348-2RE		42348-5		42348-5RE		42437-10		42437-11		42437-12		42437-13	
ANALYTE	CRQL	MDL																		
CHLOROMETHANE	10	2.32	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
BROMOMETHANE	10	3.95	5	J	10	J	12	U	13	U	13	U	37	U	12	U	11	U	11	U
VINYL CHLORIDE	10	2.48	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
CHLOROETHANE	10	2.41	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
METHYLENE CHLORIDE	10	3.08	25	B	19	B	22	B	35	B	41	B	57	B	13	B	14	B	10	BJ
ACETONE	10	2.82	24	B	34	B	12	U	52	B	19	B	86	B	30	B	35	B	50	B
CARBON DISULFIDE	10	3.66	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,1-DICHLOROETHENE	10	4.34	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,1-DICHLOROETHANE	10	1.57	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,2-DICHLOROETHENE	10	4.89	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
CHLOROFORM	10	1.84	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,2-DICHLOROETHANE	10	1.89	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
2-BUTANONE	10	0.44	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,1,1-TRICHLOROETHANE	10	2.29	6	J	12	U	12	U	28		14		37	U	12	U	11	U	11	U
CARBON TETRACHLORIDE	10	1.58	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
BROMODICHLOROMETHANE	10	1.05	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,2-DICHLOROPROPANE	10	0.66	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
Cis-1,3-DICHLOROPROPENE	10	0.85	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
TRICHLOROETHENE	10	0.91	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
DIBROMOCHLOROMETHANE	10	1.12	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
1,1,2-TRICHLOROETHANE	10	0.93	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
BENZENE	10	1	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
TRANS-1,3-DICHLOROPROPENE	10	0.2	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
BROMOFORM	10	1.06	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
4-METHYL-2-PENTANONE	10	1.97	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
2-HEXANONE	10	0.9	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
TETRACHLOROETHENE	10	1	42		4	J	6	J	250		150		37	U	12	U	11	U	11	U
1,1,2,2-TETRACHLOROETHANE	10	0.61	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
TOLUENE	10	1.61	5	J	12	U	12	U	10	J	11	J	15	J	12	U	3	J	11	U
CHLOROBENZENE	10	0.44	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
ETHYLBENZENE	10	0.73	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
STYRENE	10	0.61	13	U	12	U	12	U	13	U	13	U	37	U	12	U	11	U	11	U
XYLENES(TOTAL)	10	0.92	13	U	12	U	12	U	13	U	13	U	34	J	12	U	11	U	11	U
%SOLID			76		86		86		75		75		85		82		88		89	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL VOLATILE MED SOIL ANALYSES (ug/Kg)

CLIENT ID:			07SS02		07SS02RE		08SS02		08SS02RE		08SS03		08SS03RE		USTSS5	
LABORATORY ID:			42475-2		42475-2RE		42475-7		42475-7RE		42475-8		42475-8RE		42437-14	
ANALYTE	CRQL	MDL														
CHLOROMETHANE	1200	290	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
BROMOMETHANE	1200	494	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
VINYL CHLORIDE	1200	310	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
CHLOROETHANE	1200	301	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
METHYLENE CHLORIDE	1200	385	1600	BJ	2600	BJ	4100	BJ	12000	BJ	2200	BJ	3600	B	2000	BJ
ACETONE	1200	353	2600	U	2600	U	6800	U	14000	U	3200	U	8600		3000	U
CARBON DISULFIDE	1200	483	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,1-DICHLOROETHENE	1200	543	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,1-DICHLOROETHANE	1200	196	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,2-DICHLOROETHENE	1200	611	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
CHLOROFORM	1200	230	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,2-DICHLOROETHANE	1200	236	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
2-BUTANONE	1200	55	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,1,1-TRICHLOROETHANE	1200	286	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	1500	J
CARBON TETRACHLORIDE	1200	198	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
BROMODICHLOROMETHANE	1200	131	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,2-DICHLOROPROPANE	1200	83	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
Cis-1,3-DICHLOROPROPENE	1200	106	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
TRICHLOROETHENE	1200	114	2600	U	1100	BJ	6800	U	14000	U	3200	U	2600	U	3000	U
DIBROMOCHLOROMETHANE	1200	140	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,1,2-TRICHLOROETHANE	1200	116	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
BENZENE	1200	125	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
TRANS-1,3-DICHLOROPROPENE	1200	25	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
BROMOFORM	1200	133	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
4-METHYL-2-PENTANONE	1200	246	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
2-HEXANONE	1200	113	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
TETRACHLOROETHENE	1200	125	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
1,1,2,2-TETRACHLOROETHANE	1200	76	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
TOLUENE	1200	201	2600	U	860	BJ	17000		20000	B	3200	U	2000	BJ	3000	U
CHLOROBENZENE	1200	55	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
ETHYLBENZENE	1200	91	2600	U	2600	U	6400	J	8300	J	3200	U	1400	J	3000	U
STYRENE	1200	76	2600	U	2600	U	6800	U	14000	U	3200	U	2600	U	3000	U
XYLENES(TOTAL)	1200	115	2600	U	2600	U	48000		49000		7700		6600		3000	U
%SOLID			92		92		79		79		87		87		78	

TCL SEMI-VOLATILE ORGANIC ANALYSES

W5295076F

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE AQUEOUS ANALYSES (ug/L)

CLIENT ID:			TAFB01		TAFB02		TARB01		USTGW1		USTGW2	
LABORATORY ID:			42352-16		42352-17		42346-18		42437-4		42437-5	
ANALYTE	CRQL	MDL										
PHENOL	10	2.1	11	U	13	U	10	U	11	U	11	U
Bis(2-CHLOROETHYL)ETHER	10	2.09	11	U	13	U	10	U	11	U	11	U
2-CHLOROPHENOL	10	2.12	11	U	13	U	10	U	11	U	11	U
1,3-DICHLOROBENZENE	10	1.92	11	U	13	U	10	U	11	U	11	U
1,4-DICHLOROBENZENE	10	2.07	11	U	13	U	10	U	11	U	11	U
1,2-DICHLOROBENZENE	10	1.8	11	U	13	U	10	U	11	U	11	U
2-METHYLPHENOL	10	1.78	11	U	13	U	10	U	11	U	11	U
2,2'-OXYBIS(1-CHLOROPROPANE)	10	2.34	11	U	13	U	10	U	11	U	11	U
4-METHYLPHENOL	10	1.79	11	U	13	U	10	U	11	U	11	U
N-NITROSO-DI-N-PROPYLAMINE	10	1.71	11	U	13	U	10	U	11	U	11	U
HEXACHLOROETHANE	10	1.86	11	U	13	U	10	U	11	U	11	U
NITROBENZENE	10	1.67	11	U	13	U	10	U	11	U	11	U
ISOPHORONE	10	1.23	11	U	13	U	10	U	11	U	11	U
2-NITROPHENOL	10	2.51	11	U	13	U	10	U	11	U	11	U
2,4-DIMETHYLPHENOL	10	2.12	11	U	13	U	10	U	11	U	11	U
Bis(2-CHLOROETHOXY)METHANE	10	1.56	11	U	13	U	10	U	11	U	11	U
2,4-DICHLOROPHENOL	10	1.75	11	U	13	U	10	U	11	U	11	U
1,2,4-TRICHLOROBENZENE	10	1.81	11	U	13	U	10	U	11	U	11	U
NAPHTHALENE	10	1.94	11	U	13	U	10	U	11	U	11	U
4-CHLOROANILINE	10	1.96	11	U	13	U	10	U	11	U	11	U
HEXACHLOROBUTADIENE	10	1.94	11	U	13	U	10	U	11	U	11	U
4-CHLORO-3-METHYLPHENOL	10	1.43	11	U	13	U	10	U	11	U	11	U
2-METHYLNAPHTHALENE	10	1.58	11	U	13	U	10	U	11	U	11	U
HEXACHLOROCYCLOPENTADIENE	10	2.53	11	U	13	U	10	U	11	U	11	U
2,4,6-TRICHLOROPHENOL	10	1.09	11	U	13	U	10	U	11	U	11	U
2,4,5-TRICHLOROPHENOL	25	1.55	27	U	32	U	26	U	26	U	28	U
2-CHLORONAPHTHALENE	10	1.29	11	U	13	U	10	U	11	U	11	U
2-NITROANILINE	25	1.5	27	U	32	U	26	U	26	U	28	U
DIMETHYLPHTHALATE	10	0.67	11	U	13	U	10	U	9	J	11	
ACENAPHTHYLENE	10	0.75	11	U	13	U	10	U	11	U	11	U
2,6-DINITROTOLUENE	10	1.61	11	U	13	U	10	U	11	U	11	U
3-NITROANILINE	25	2.09	27	U	32	U	26	U	26	U	28	U
ACENAPHTHENE	10	0.66	11	U	13	U	10	U	11	U	11	U
DILUTION FACTOR:			1		1		1		1		1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE AQUEOUS ANALYSES (ug/L)

CLIENT ID:			TAFB01		TAFB02		TARBD1		USTGW1		USTGW2	
LABORATORY ID:			42352-16		42352-17		42346-18		42437-4		42437-5	
ANALYTE	CRQL	MDL										
2,4-DINITROPHENOL	25	3.69	27	U	32	U	26	U	26	U	28	U
4-NITROPHENOL	25	3.81	27	U	32	U	26	U	26	U	28	U
DIBENZOFURAN	10	0.82	11	U	13	U	10	U	11	U	11	U
2,4-DINITROTOLUENE	10	1.35	11	U	13	U	10	U	11	U	11	U
DIETHYLPHTHALATE	10	0.61	11	U	13	U	10	U	11	U	11	U
4-CHLOROPHENYL-PHENYLETHER	10	0.67	11	U	13	U	10	U	11	U	11	U
FLUORENE	10	0.96	11	U	13	U	10	U	11	U	11	U
4-NITROANILINE	25	3.06	27	U	32	U	26	U	26	U	28	U
4,6-DINITRO-2-METHYLPHENOL	25	1.98	27	U	32	U	26	U	26	U	28	U
N-NITROSODIPHENYLAMINE	10	0.74	11	U	13	U	10	U	11	U	11	U
4-BROMOPHENYL-PHENYLETHER	10	0.7	11	U	13	U	10	U	11	U	11	U
HEXACHLOROBENZENE	10	1.1	11	U	13	U	10	U	11	U	11	U
PENTACLOROPHENOL	25	3.84	27	U	32	U	26	U	26	U	28	U
PHENANTHRENE	10	0.97	11	U	13	U	10	U	11	U	11	U
ANTHRACENE	10	0.86	11	U	13	U	10	U	11	U	11	U
CARBAZOLE	10	N/A	11	U	13	U	10	U	11	U	11	U
DI-N-BUTYLPHTHALATE	10	0.85	11	U	13	U	10	U	11	U	11	U
FLUORANTHENE	10	1.1	11	U	13	U	10	U	11	U	11	U
PYRENE	10	0.76	11	U	13	U	10	U	11	U	11	U
BUTYLBENZYLPHTHALATE	10	0.97	11	U	13	U	10	U	11	U	11	U
3,3'-DICHLOROBENZIDINE	10	3.43	11	U	13	U	10	U	11	U	11	U
BENZO(A)ANTHRACENE	10	0.83	11	U	13	U	10	U	11	U	11	U
CHRYSENE	10	0.44	11	U	13	U	10	U	11	U	11	U
Bis(2-ETHYLHEXYL)PHTHALATE	10	0.82	11	U	13	U	10	U	11	U	11	U
DI-N-OCTYLPHTHALATE	10	1.45	11	U	13	U	10	U	11	U	11	U
BENZO(B)FLUORANTHENE	10	3.49	11	U	13	U	10	U	11	U	11	U
BENZO(K)FLUORANTHENE	10	5.96	11	U	13	U	10	U	11	U	11	U
BENZO(A)PYRENE	10	0.6	11	U	13	U	10	U	11	U	11	U
INDENO(1,2,3-CD)PYRENE	10	1.07	11	U	13	U	10	U	11	U	11	U
DIBENZ(A,H)ANTHRACENE	10	1.41	11	U	13	U	10	U	11	U	11	U
BENZO(G,H,I)PERYLENE	10	1.3	11	U	13	U	10	U	11	U	11	U
DILUTION FACTOR:			1		1		1		1		1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS02		02SS01		02SS02		03SS02		05SS01		05SS02		06SS01		06SS02	
LABORATORY ID:			42346-9		42352-5		42352-6		42396-4		42438-4		42438-5		42475-16		42475-17	
ANALYTE	CRQL	MDL																
PHENOL	330	70	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
Bis(2-CHLOROETHYL)ETHER	330	69.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2-CHLOROPHENOL	330	70.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
1,3-DICHLOROBENZENE	330	63.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
1,4-DICHLOROBENZENE	330	68.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
1,2-DICHLOROBENZENE	330	59.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2-METHYLPHENOL	330	59.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,2'-OXYBIS(1-CHLOROPROPANE)	330	77.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-METHYLPHENOL	330	59.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
N-NITROSO-DI-N-PROPYLAMINE	330	56.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
HEXACHLOROETHANE	330	61.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
NITROBENZENE	330	55.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
ISOPHORONE	330	41	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2-NITROPHENOL	330	83.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,4-DIMETHYLPHENOL	330	70.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
Bis(2-CHLOROETHOXY)METHANE	330	51.99	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,4-DICHLOROPHENOL	330	58.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
1,2,4-TRICHLOROBENZENE	330	60.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
NAPHTHALENE	330	64.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-CHLOROANILINE	330	65.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
HEXACHLOROBUTADIENE	330	64.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-CHLORO-3-METHYLPHENOL	330	47.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2-METHYLNAPHTHALENE	330	52.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
HEXACHLOROCYCLOPENTADIENE	330	84.32	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,4,6-TRICHLOROPHENOL	330	36.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,4,5-TRICHLOROPHENOL	800	51.66	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
2-CHLORONAPHTHALENE	330	43	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2-NITROANILINE	800	50	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
DIMETHYLPHTHALATE	330	22.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
ACENAPHTHYLENE	330	25	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,6-DINITROTOLUENE	330	53.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
3-NITROANILINE	800	69.66	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
ACENAPHTHENE	330	22	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
%SOLID			86		97		95		93		92		88		94		93	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS02		02SS01		02SS02		03SS02		05SS01		05SS02		06SS01		06SS02	
LABORATORY ID:			42346-9		42352-5		42352-6		42396-4		42438-4		42438-5		42475-16		42475-17	
ANALYTE	CRQL	MDL																
2,4-DINITROPHENOL	800	129.65	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
4-NITROPHENOL	800	126.99	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
DIBENZOFURAN	330	27.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
2,4-DINITROTOLUENE	330	45	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
DIETHYLPHTHALATE	330	20.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-CHLOROPHENYL-PHENYLETHER	330	22.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
FLUORENE	330	32	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-NITROANILINE	800	102	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
4,6-DINITRO-2-METHYLPHENOL	800	65.99	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
N-NITROSODIPHENYLAMINE	330	24.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
4-BROMOPHENYL-PHENYLETHER	330	23.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
HEXACHLOROBENZENE	330	36.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
PENTACLOROPHENOL	800	127.99	930	U	820	U	840	U	860	U	870	U	900	U	850	U	860	U
PHENANTHRENE	330	32.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
ANTHRACENE	330	28.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
CARBAZOLE	330	N/A	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
DI-N-BUTYLPHTHALATE	330	28.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
FLUORANTHENE	330	36.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
PYRENE	330	25.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BUTYLBENZYLPHTHALATE	330	32.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
3,3'-DICHLOROBENZIDINE	330	114.32	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BENZO(A)ANTHRACENE	330	27.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
CHRYSENE	330	14.67	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
Bis(2-ETHYLHEXYL)PHTHALATE	330	27.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
DI-N-OCTYLPHTHALATE	330	48.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BENZO(B)FLUORANTHENE	330	116.32	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BENZO(K)FLUORANTHENE	330	198.65	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BENZO(A)PYRENE	330	20	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
INDENO(1,2,3-CD)PYRENE	330	35.66	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
DIBENZ(A,H)ANTHRACENE	330	47	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
BENZO(G,H,I)PERYLENE	330	43.33	380	U	340	U	350	U	350	U	360	U	370	U	350	U	350	U
%SOLID			86		97		95		93		92		88		94		93	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS. SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			07SS01		08SS01		09SS01		09SS02		10SS01		10SS02		12SS01		12SS02	
LABORATORY ID:			42475-14		42475-18		42475-24		42475-25		42507-4		42507-5		42475-21		42475-22	
ANALYTE	CRQL	MDL																
PHENOL	330	70	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
Bis(2-CHLOROETHYL)ETHER	330	69.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2-CHLOROPHENOL	330	70.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
1,3-DICHLOROBENZENE	330	63.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
1,4-DICHLOROBENZENE	330	68.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
1,2-DICHLOROBENZENE	330	59.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2-METHYLPHENOL	330	59.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,2'-OXYBIS(1-CHLOROPROPANE)	330	77.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-METHYLPHENOL	330	59.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
N-NITROSO-DI-N-PROPYLAMINE	330	56.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
HEXACHLOROETHANE	330	61.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
NITROBENZENE	330	55.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
ISOPHORONE	330	41	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2-NITROPHENOL	330	83.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,4-DIMETHYLPHENOL	330	70.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
Bis(2-CHLOROETHOXY)METHANE	330	51.99	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,4-DICHLOROPHENOL	330	58.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
1,2,4-TRICHLOROBENZENE	330	60.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
NAPHTHALENE	330	64.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-CHLOROANILINE	330	65.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
HEXACHLOROBUTADIENE	330	64.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-CHLORO-3-METHYLPHENOL	330	47.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2-METHYLNAPHTHALENE	330	52.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
HEXACHLOROCYCLOPENTADIENE	330	84.32	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,4,6-TRICHLOROPHENOL	330	36.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,4,5-TRICHLOROPHENOL	800	51.66	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
2-CHLORONAPHTHALENE	330	43	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2-NITROANILINE	800	50	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
DIMETHYLPHTHALATE	330	22.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
ACENAPHTHYLENE	330	25	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,6-DINITROTOLUENE	330	53.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
3-NITROANILINE	800	69.66	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
ACENAPHTHENE	330	22	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
%SOLID			67		78		90		96		95		89		91		92	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			07SS01		08SS01		09SS01		09SS02		10SS01		10SS02		12SS01		12SS02	
LABORATORY ID:			42475-14		42475-18		42475-24		42475-25		42507-4		42507-5		42475-21		42475-22	
ANALYTE	CRQL	MDL																
2,4-DINITROPHENOL	800	129.65	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
4-NITROPHENOL	800	126.99	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
DIBENZOFURAN	330	27.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
2,4-DINITROTOLUENE	330	45	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
DIETHYLPHTHALATE	330	20.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-CHLOROPHENYL-PHENYLETHER	330	22.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
FLUORENE	330	32	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-NITROANILINE	800	102	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
4,6-DINITRO-2-METHYLPHENOL	800	65.99	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
N-NITROSODIPHENYLAMINE	330	24.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
4-BROMOPHENYL-PHENYLETHER	330	23.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
HEXACHLOROBENZENE	330	36.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
PENTACLOROPHENOL	800	127.99	1200	U	1000	U	890	U	830	U	840	U	900	U	870	U	870	U
PHENANTHRENE	330	32.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
ANTHRACENE	330	28.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
CARBAZOLE	330	N/A	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
DI-N-BUTYLPHTHALATE	330	28.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
FLUORANTHENE	330	36.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
PYRENE	330	25.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BUTYLBENZYLPHTHALATE	330	32.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
3,3'-DICHLOROBENZIDINE	330	114.32	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BENZO(A)ANTHRACENE	330	27.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
CHRYSENE	330	14.67	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
Bis(2-ETHYLHEXYL)PHTHALATE	330	27.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
DI-N-OCTYLPHTHALATE	330	48.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BENZO(B)FLUORANTHENE	330	116.32	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BENZO(K)FLUORANTHENE	330	198.65	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BENZO(A)PYRENE	330	20	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
INDENO(1,2,3-CD)PYRENE	330	35.66	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
DIBENZ(A,H)ANTHRACENE	330	47	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
BENZO(G,H,I)PERYLENE	330	43.33	490	U	420	U	370	U	340	U	350	U	370	U	360	U	360	U
%SOLID			67		78		90		96		95		89		91		92	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			12SS03		13SS01		13SS02		14SS01		14SS02		HMSS01		HMSS01RE		HMSS02	
LABORATORY ID:			42475-23		42382-3		42382-4		42352-7		42352-8		42346-6		42346-6RE		42346-7	
ANALYTE	CRQL	MDL																
PHENOL	330	70	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
Bis(2-CHLOROETHYL)ETHER	330	69.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2-CHLOROPHENOL	330	70.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
1,3-DICHLOROBENZENE	330	63.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
1,4-DICHLOROBENZENE	330	68.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
1,2-DICHLOROBENZENE	330	59.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2-METHYLPHENOL	330	59.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,2'-OXYBIS(1-CHLOROPROPANE)	330	77.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-METHYLPHENOL	330	59.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
N-NITROSO-DI-N-PROPYLAMINE	330	56.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
HEXACHLOROETHANE	330	61.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
NITROBENZENE	330	55.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
ISOPHORONE	330	41	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2-NITROPHENOL	330	83.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,4-DIMETHYLPHENOL	330	70.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
Bis(2-CHLOROETHOXY)METHANE	330	51.99	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,4-DICHLOROPHENOL	330	58.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
1,2,4-TRICHLOROBENZENE	330	60.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
NAPHTHALENE	330	64.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-CHLOROANILINE	330	65.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
HEXACHLOROBUTADIENE	330	64.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-CHLORO-3-METHYLPHENOL	330	47.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2-METHYLNAPHTHALENE	330	52.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
HEXACHLOROCYCLOPENTADIENE	330	84.32	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,4,6-TRICHLOROPHENOL	330	36.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,4,5-TRICHLOROPHENOL	800	51.66	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
2-CHLORONAPHTHALENE	330	43	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2-NITROANILINE	800	50	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
DIMETHYLPHTHALATE	330	22.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
ACENAPHTHYLENE	330	25	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,6-DINITROTOLUENE	330	53.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
3-NITROANILINE	800	69.66	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
ACENAPHTHENE	330	22	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
%SOLID			78		77		92		88		88		76		76		86	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			12SS03		13SS01		13SS02		14SS01		14SS02		HMSS01		HMSS01RE		HMSS02	
LABORATORY ID:			42475-23		42382-3		42382-4		42352-7		42352-8		42346-6		42346-6RE		42346-7	
ANALYTE	CRQL	MDL																
2,4-DINITROPHENOL	800	129.65	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
4-NITROPHENOL	800	126.99	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
DIBENZOFURAN	330	27.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
2,4-DINITROTOLUENE	330	45	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
DIETHYLPHTHALATE	330	20.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-CHLOROPHENYL-PHENYLETHER	330	22.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
FLUORENE	330	32	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-NITROANILINE	800	102	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
4,6-DINITRO-2-METHYLPHENOL	800	65.99	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
N-NITROSODIPHENYLAMINE	330	24.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
4-BROMOPHENYL-PHENYLETHER	330	23.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
HEXACHLOROBENZENE	330	36.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
PENTACLOROPHENOL	800	127.99	1000	U	1000	U	870	U	910	U	910	U	1000	U	1000	U	930	U
PHENANTHRENE	330	32.33	420	U	71	J	360	U	370	U	370	U	200	J	220	J	380	U
ANTHRACENE	330	28.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
CARBAZOLE	330	N/A	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
DI-N-BUTYLPHTHALATE	330	28.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
FLUORANTHENE	330	36.66	420	U	160	J	360	U	370	U	370	U	350	J	390	J	380	U
PYRENE	330	25.33	420	U	140	J	360	U	370	U	370	U	420	J	430	J	380	U
BUTYLBENZYLPHTHALATE	330	32.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
3,3'-DICHLOROBENZIDINE	330	114.32	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
BENZO(A)ANTHRACENE	330	27.66	420	U	55	J	360	U	370	U	370	U	130	J	140	J	380	U
CHRYSENE	330	14.67	420	U	100	J	360	U	370	U	370	U	210	J	230	J	380	U
Bis(2-ETHYLHEXYL)PHTHALATE	330	27.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
DI-N-OCTYLPHTHALATE	330	48.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
BENZO(B)FLUORANTHENE	330	116.32	420	U	84	J	360	U	370	U	370	U	200	J	190	J	380	U
BENZO(K)FLUORANTHENE	330	198.65	420	U	70	J	360	U	370	U	370	U	230	J	210	J	380	U
BENZO(A)PYRENE	330	20	420	U	60	J	360	U	370	U	370	U	160	J	150	J	380	U
INDENO(1,2,3-CD)PYRENE	330	35.66	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
DIBENZ(A,H)ANTHRACENE	330	47	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
BENZO(G,H,I)PERYLENE	330	43.33	420	U	430	U	360	U	370	U	370	U	430	U	430	U	380	U
%SOLID			78		77		92		88		88		76		76		86	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			HMSS03		USTSS1		USTSS2		USTSS3		USTSS4	
LABORATORY ID:			42346-10		42437-15		42437-16		42437-17		42437-18	
ANALYTE	CRQL	MDL										
PHENOL	330	70	440	U	1500	U	400	U	370	U	370	U
Bis(2-CHLOROETHYL)ETHER	330	69.66	440	U	1500	U	400	U	370	U	370	U
2-CHLOROPHENOL	330	70.66	440	U	1500	U	400	U	370	U	370	U
1,3-DICHLOROBENZENE	330	63.99	440	U	1500	U	400	U	370	U	370	U
1,4-DICHLOROBENZENE	330	68.99	440	U	1500	U	400	U	370	U	370	U
1,2-DICHLOROBENZENE	330	59.99	440	U	1500	U	400	U	370	U	370	U
2-METHYLPHENOL	330	59.33	440	U	1500	U	400	U	370	U	370	U
2,2'-OXYBIS(1-CHLOROPROPANE)	330	77.99	440	U	1500	U	400	U	370	U	370	U
4-METHYLPHENOL	330	59.66	440	U	1500	U	400	U	370	U	370	U
N-NITROSO-DI-N-PROPYLAMINE	330	56.99	440	U	1500	U	400	U	370	U	370	U
HEXACHLOROETHANE	330	61.99	440	U	1500	U	400	U	370	U	370	U
NITROBENZENE	330	55.66	440	U	1500	U	400	U	370	U	370	U
ISOPHORONE	330	41	440	U	1500	U	400	U	370	U	370	U
2-NITROPHENOL	330	83.66	440	U	1500	U	400	U	370	U	370	U
2,4-DIMETHYLPHENOL	330	70.66	440	U	1500	U	400	U	370	U	370	U
Bis(2-CHLOROETHOXY)METHANE	330	51.99	440	U	1500	U	400	U	370	U	370	U
2,4-DICHLOROPHENOL	330	58.33	440	U	1500	U	400	U	370	U	370	U
1,2,4-TRICHLOROBENZENE	330	60.33	440	U	1500	U	400	U	370	U	370	U
NAPHTHALENE	330	64.66	440	U	1500	U	400	U	370	U	370	U
4-CHLOROANILINE	330	65.33	440	U	1500	U	400	U	370	U	370	U
HEXACHLOROBUTADIENE	330	64.66	440	U	1500	U	400	U	370	U	370	U
4-CHLORO-3-METHYLPHENOL	330	47.66	440	U	1500	U	400	U	370	U	370	U
2-METHYLNAPHTHALENE	330	52.66	440	U	1500	U	400	U	370	U	370	U
HEXACHLOROCYCLOPENTADIENE	330	84.32	440	U	1500	U	400	U	370	U	370	U
2,4,6-TRICHLOROPHENOL	330	36.33	440	U	1500	U	400	U	370	U	370	U
2,4,5-TRICHLOROPHENOL	800	51.66	1100	U	3700	U	970	U	900	U	890	U
2-CHLORONAPHTHALENE	330	43	440	U	1500	U	400	U	370	U	370	U
2-NITROANILINE	800	50	1100	U	3700	U	970	U	900	U	890	U
DIMETHYLPHTHALATE	330	22.33	440	U	1500	U	400	U	370	U	370	U
ACENAPHTHYLENE	330	25	440	U	1500	U	400	U	370	U	370	U
2,6-DINITROTOLUENE	330	53.66	440	U	1500	U	400	U	370	U	370	U
3-NITROANILINE	800	69.66	1100	U	3700	U	970	U	900	U	890	U
ACENAPHTHENE	330	22	440	U	1500	U	400	U	370	U	370	U
%SOLID			75		85		82		88		89	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			HMSS03		USTSS1		USTSS2		USTSS3		USTSS4	
LABORATORY ID:			42346-10		42437-15		42437-16		42437-17		42437-18	
ANALYTE	CROL	MDL										
2,4-DINITROPHENOL	800	129.65	1100	U	3700	U	970	U	900	U	890	U
4-NITROPHENOL	800	126.99	1100	U	3700	U	970	U	900	U	890	U
DIBENZOFURAN	330	27.33	440	U	1500	U	400	U	370	U	370	U
2,4-DINITROTOLUENE	330	45	440	U	1500	U	400	U	370	U	370	U
DIETHYLPHTHALATE	330	20.33	440	U	1500	U	400	U	370	U	370	U
4-CHLOROPHENYL-PHENYLETHER	330	22.33	440	U	1500	U	400	U	370	U	370	U
FLUORENE	330	32	440	U	1500	U	400	U	370	U	370	U
4-NITROANILINE	800	102	1100	U	3700	U	970	U	900	U	890	U
4,6-DINITRO-2-METHYLPHENOL	800	65.99	1100	U	3700	U	970	U	900	U	890	U
N-NITROSODIPHENYLAMINE	330	24.66	440	U	1500	U	400	U	370	U	370	U
4-BROMOPHENYL-PHENYLETHER	330	23.33	440	U	1500	U	400	U	370	U	370	U
HEXACHLOROBENZENE	330	36.66	440	U	1500	U	400	U	370	U	370	U
PENTACLOROPHENOL	800	127.99	1100	U	3700	U	970	U	900	U	890	U
PHENANTHRENE	330	32.33	160	J	1500	U	400	U	370	U	370	U
ANTHRACENE	330	28.66	440	U	1500	U	400	U	370	U	370	U
CARBAZOLE	330	N/A	440	U	1500	U	400	U	370	U	370	U
DI-N-BUTYLPHTHALATE	330	28.33	440	U	1500	U	400	U	370	U	370	U
FLUORANTHENE	330	36.66	280	J	1500	U	400	U	370	U	370	U
PYRENE	330	25.33	270	J	1500	U	400	U	370	U	370	U
BUTYLBENZYLPHTHALATE	330	32.33	440	U	1500	U	400	U	370	U	370	U
3,3'-DICHLOROBENZIDINE	330	114.32	440	U	1500	U	400	U	370	U	370	U
BENZO(A)ANTHRACENE	330	27.66	92	J	1500	U	400	U	370	U	370	U
CHRYSENE	330	14.67	160	J	1500	U	400	U	370	U	370	U
Bis(2-ETHYLHEXYL)PHTHALATE	330	27.33	440	U	1500	U	400	U	370	U	370	U
DI-N-OCTYLPHTHALATE	330	48.33	440	U	1500	U	400	U	370	U	370	U
BENZO(B)FLUORANTHENE	330	116.32	140	J	1500	U	400	U	370	U	370	U
BENZO(K)FLUORANTHENE	330	198.65	170	J	1500	U	400	U	370	U	370	U
BENZO(A)PYRENE	330	20	110	J	1500	U	400	U	370	U	370	U
INDENO(1,2,3-CD)PYRENE	330	35.66	440	U	1500	U	400	U	370	U	370	U
DIBENZ(A,H)ANTHRACENE	330	47	440	U	1500	U	400	U	370	U	370	U
BENZO(G,H,I)PERYLENE	330	43.33	440	U	1500	U	400	U	370	U	370	U
%SOLID			75		85		82		88		89	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE MED SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS01		03SS01		04SS01		04SS02		07SS02		08SS02		08SS03		USTSS5	
LABORATORY ID:			42346-8		42396-3		42409-4		42409-5		42475-15		42475-19		42475-20		42437-19	
ANALYTE	CRQL	MDL																
PHENOL	10000	2100	23000	U	2800	J	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
Bis(2-CHLOROETHYL)ETHER	10000	2090	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2-CHLOROPHENOL	10000	2120	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
1,3-DICHLOROBENZENE	10000	1920	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
1,4-DICHLOROBENZENE	10000	2070	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
1,2-DICHLOROBENZENE	10000	1800	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2-METHYLPHENOL	10000	1780	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,2'-OXYBIS(1-CHLOROPROPANE)	10000	2340	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-METHYLPHENOL	10000	1790	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
N-NITROSO-DI-N-PROPYLAMINE	10000	1710	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
HEXACHLOROETHANE	10000	1860	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
NITROBENZENE	10000	1670	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
ISOPHORONE	10000	1230	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2-NITROPHENOL	10000	2510	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,4-DIMETHYLPHENOL	10000	2120	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
Bis(2-CHLOROETHOXY)METHANE	10000	1560	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,4-DICHLOROPHENOL	10000	1750	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
1,2,4-TRICHLOROBENZENE	10000	1810	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
NAPHTHALENE	10000	1940	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-CHLOROANILINE	10000	1960	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
HEXACHLOROBUTADIENE	10000	1940	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-CHLORO-3-METHYLPHENOL	10000	1430	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2-METHYLNAPHTHALENE	10000	1580	23000	U	11000	U	11000	U	11000	U	11000	U	32000		11000	J	47000	U
HEXACHLOROCYCLOPENTADIENE	10000	2530	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,4,6-TRICHLOROPHENOL	10000	1090	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,4,5-TRICHLOROPHENOL	25000	1550	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
2-CHLORONAPHTHALENE	10000	1290	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2-NITROANILINE	25000	1500	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
DIMETHYLPHTHALATE	10000	670	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
ACENAPHTHYLENE	10000	750	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,6-DINITROTOLUENE	10000	1610	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
3-NITROANILINE	25000	2090	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
ACENAPHTHENE	10000	660	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
%SOLID			88		90		93		91		92		79		87		78	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS. SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL SEMIVOLATILE MED SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS01		03SS01		04SS01		04SS02		07SS02		08SS02		08SS03		USTSS5	
LABORATORY ID:			42346-8		42396-3		42409-4		42409-5		42475-15		42475-19		42475-20		42437-19	
ANALYTE	CRQL	MDL																
2,4-DINITROPHENOL	25000	3890	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
4-NITROPHENOL	25000	3810	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
DIBENZOFURAN	10000	820	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
2,4-DINITROTOLUENE	10000	1350	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
DIETHYLPHTHALATE	10000	610	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-CHLOROPHENYL-PHENYLETHER	10000	670	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
FLUORENE	10000	960	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-NITROANILINE	25000	3060	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
4,6-DINITRO-2-METHYLPHENOL	25000	1980	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
N-NITROSODIPHENYLAMINE	10000	740	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
4-BROMOPHENYL-PHENYLETHER	10000	700	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
HEXACHLOROBENZENE	10000	1100	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
PENTACLOROPHENOL	25000	3840	57000	U	28000	U	27000	U	27000	U	27000	U	63000	U	57000	U	120000	U
PHENANTHRENE	10000	970	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
ANTHRACENE	10000	860	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
CARBAZOLE	10000	N/A	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
DI-N-BUTYLPHTHALATE	10000	850	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
FLUORANTHENE	10000	1100	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
PYRENE	10000	760	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BUTYLBENZYLPHTHALATE	10000	970	23000	U	3500	J	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
3,3'-DICHLOROBENZIDINE	10000	3430	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BENZO(A)ANTHRACENE	10000	830	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
CHRYSENE	10000	440	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
Bis(2-ETHYLHEXYL)PHTHALATE	10000	820	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
DI-N-OCTYLPHTHALATE	10000	1450	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BENZO(B)FLUORANTHENE	10000	3490	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BENZO(K)FLUORANTHENE	10000	5960	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BENZO(A)PYRENE	10000	600	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
INDENO(1,2,3-CD)PYRENE	10000	1070	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
DIBENZ(A,H)ANTHRACENE	10000	1410	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
BENZO(G,H,I)PERYLENE	10000	1300	23000	U	11000	U	11000	U	11000	U	11000	U	25000	U	23000	U	47000	U
%SOLID			88		90		93		91		92		79		87		78	

TAL METALS ANALYSES

W5295076F

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS AQUEOUS ANALYSES (ug/L)

CLIENT ID:			TAFB01		TAFB02		TARB01	
LABORATORY ID:			42352-018		42352-019		42346-019	
ANALYTE	CRDL	IDL						
ALUMINUM	200	10	14	U	14.2	B	14	U
ANTIMONY	60	11	16	U	16	U	16	U
ARSENIC	10	1	0.8	U	1.1	B	0.8	U
BARIUM	200	1	6.1	B	0.8	U	0.8	U
BERYLLIUM	5	1	0.3	U	0.3	U	0.3	U
CADMIUM	5	1	2.1	U	2.1	U	2.1	U
CALCIUM	5000	8	35500		21.1	U	42.6	B
CHROMIUM	10	2	4.3	U	4.3	U	4.3	U
COBALT	50	2	2.4	U	3.1	B	2.4	U
COPPER	25	2	38.5		3.3	U	3.3	U
IRON	100	3	13.9	U	13.9	U	13.9	U
LEAD	3	1	1.5	B	1.1	U	1.1	U
MAGNESIUM	5000	13	5380		20.1	U	26.3	B
MANGANESE	15	1	2.1	B	0.5	U	0.5	U
MERCURY	0.2	0.2	0.1	U	0.76		0.1	U
NICKEL	40	8	10.3	U	10.3	U	10.3	U
POTASSIUM	5000	245	3690	B	629	U	629	U
SELENIUM	5	1	0.9	U	0.9	U	0.9	U
SILVER	10	2	3.4	U	3.4	U	3.4	U
SODIUM	5000	9	60800		39.5	B	43.8	B
THALLIUM	10	1	1.4	B	1	U	1.4	B
VANADIUM	50	2	3.1	U	3.1	U	3.1	U
ZINC	20	1	41.3		11.4	B	13.4	B
CYANIDE	20	10						

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS LOW SOIL ANALYSES (mg/Kg)

CLIENT ID:			O1SS01		O1SS02		O2SS01		O2SS02		O3SS01		O3SS02		O4SS01		O4SS02	
LABORATORY ID:			42346-013		42346-014		42352-009		42352-010		42396-005		42396-006		42409-006		42409-007	
ANALYTE	CRDL	IDL																
ALUMINUM	40	2	5860		7960		4340		4220		5740		3530		4790		2800	
ANTIMONY	12	2.2	2.2	U	3.2	U	1.7	U	2.5	U	3.4	U	3.3	U	3.4	U	3.2	U
ARSENIC	2	0.2	1.4	B	1.8	B	1.3	B	1.5	B	1.6	B	1.1	B	0.85	B	1	B
BARIUM	40	0.2	20.6	B	22.8	B	10.2	B	11.7	B	60.9		10	B	16.2	B	6.8	B
BERYLLIUM	1	0.2	0.27	B	0.3	B	0.23	B	0.21	B	0.18	B	0.17	B	0.23	B	0.17	B
CADMIUM	1	0.2	0.28	U	0.41	U	0.28	B	0.33	U	0.45	U	0.44	U	0.45	U	0.43	U
CALCIUM	1000	1.6	562	B	678	B	524	B	700	B	666	B	622	B	748	B	1450	
CHROMIUM	2	0.4	8.2		11.2		5.1		5.5		77.7		4.8		7.4		3.5	
COBALT	10	0.4	4.3	B	6.2	B	3.2	B	3.6	B	4.6	B	2.6	B	3.9	B	2.7	B
COPPER	5	0.4	5.9		7.5		5.3		5.4		17.7		3.9	B	5.7		5	B
IRON	20	0.6	8190		9570		5540		5780		13700		5060		6820		5100	
LEAD	0.6	0.2	22.2		3.6		3.1		3.2		29.5		3.1		1.7		1.6	
MAGNESIUM	1000	2.6	2450		3040		1530		1600		2600		1420		2120		1150	
MANGANESE	3	0.2	97.4		217		88.4		99.8		165		73.6		85.2		77.2	
MERCURY	0.1	0.1	0.02	U	0.04	U	0.05	B	0.03	U	0.03	B	0.02	U	0.03	U	0.03	U
NICKEL	8	1.6	8		9.4		5.8		5.5	B	5.7	B	4.7	B	6.3	B	5.3	B
POTASSIUM	1000	49	1480		1730		712		944		1960		756	B	1330		586	B
SELENIUM	1	0.2	0.19	U	0.19	U	0.18	U	0.15	U	0.19	U	0.16	U	0.16	U	0.11	U
SILVER	2	0.4	0.46	U	0.67	U	0.37	U	0.54	U	0.72	U	0.71	U	0.72	U	0.69	U
SODIUM	1000	1.8	38.2	B	42.8	B	27	B	28.9	B	46.1	B	32.9	B	37.9	B	39.4	B
THALLIUM	2	0.2	0.25	B	0.21	U	0.48	B	0.22	B	0.21	U	0.19	B	0.19	B	0.16	B
VANADIUM	10	0.4	15.6		18.4		9.6		10.7		26.1		9	B	12.5		8.1	B
ZINC	4	0.2	25.7		28.8		15		15.3		37.2		13.1		17.4		12.1	
CYANIDE	1	0.05																
%SOLID			88.4		86		96.8		95.2		90.5		93.2		93.2		91.2	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS LOW SOIL ANALYSES (mg/Kg)

CLIENT ID:			O5SS01		O5SS02		06SS01		06SS02		07SS01		07SS02		08SS01		08SS02	
LABORATORY ID:			42438-006		42438-007		42475-028		42475-029		42475-026		42475-027		42475-030		42475-031	
ANALYTE	CRDL	IDL																
ALUMINUM	40	2	3240		5590		4130		4070		9110		6060		8430		5030	
ANTIMONY	12	2.2	3.1	U	3.4	U	2.6	U	2.9	U	3.7	U	3.1	U	3.2	U	2.7	U
ARSENIC	2	0.2	0.86	B	1.3	B	0.97	B	0.7	B	2.3		1.3	B	1.1	B	2.1	B
BARIUM	40	0.2	9.9	B	19.4	B	12.7	B	13.4	B	169		33.3	B	10.8	B	35.5	
BERYLLIUM	1	0.2	0.18	B	0.29	B	0.92		0.23	B	0.51	B	0.28	B	0.34	B	0.26	B
CADMIUM	1	0.2	0.41	U	0.45	U	0.34	U	0.38	U	0.49	U	0.41	U	0.48	B	1.2	
CALCIUM	1000	1.6	664	B	773	B	715	B	723	B	1090	B	715	B	286	B	968	
CHROMIUM	2	0.4	4.6		8.4		6.4		6.1		12.4		8.2		6.4		6.3	
COBALT	10	0.4	2.8	B	5.4	B	3	B	3.3	B	6.5	B	5.4	B	2.7	B	2.9	B
COPPER	5	0.4	3.9	B	7.9		4.3		4.9		9.2		6.1		3.6	B	20.9	
IRON	20	0.6	4320		7000		5740		6370		11800		7840		7650		5340	
LEAD	0.6	0.2	3.7		8		1.9		1.8		5.6		14.1		18.1		245	
MAGNESIUM	1000	2.6	1270		2390		1800		1780		3640		2540		913	B	644	B
MANGANESE	3	0.2	64.1		89		82.9		88.1		167		94.9		49.1		56.5	
MERCURY	0.1	0.1	0.03	U	0.02	U	0.03	U	0.02	U	0.04	U	0.03	U	0.07		0.14	
NICKEL	8	1.6	4.6	B	8.4	B	4.8	B	5.7	B	10.2		8.6		4.6	B	6.2	B
POTASSIUM	1000	49	769	B	1170		1030		1090		2030		1550		337	B	322	B
SELENIUM	1	0.2	0.15	U	0.15	U	0.18	U	0.16	U	0.2	U	0.17	U	0.24	B	0.31	B
SILVER	2	0.4	0.66	U	0.73	U	0.55	U	0.62	U	0.79	U	0.66	U	0.69	U	0.58	U
SODIUM	1000	1.8	27.2	B	33.6	B	31.6	B	38.8	B	68.4	B	44.4	B	32.6	B	26.1	B
THALLIUM	2	0.2	0.18	B	0.17	U	0.2	U	0.18	U	0.22	U	0.18	U	0.2	U	0.25	U
VANADIUM	10	0.4	7.8	B	14.2		10.3		11.3		22.2		15.2		13.8		10.4	
ZINC	4	0.2	10.8		18.6		14.8		15.5		28.1		21.6		27.8		216	
CYANIDE	1	0.05																
%SOLID			91.5		87.7		93.8		92.7		67.1		92.3		78.3		79.3	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS LOW SOIL ANALYSES (mg/Kg)

CLIENT ID:			08SS03		09SS01		09SS02		10SS01		10SS02		12SS01		12SS02		12SS03	
LABORATORY ID:			42475-032		42475-035		42475-036		42507-006		42507-007		42475-033		42475-034		42475-037	
ANALYTE	CRDL	IDL																
ALUMINUM	40	2	7880		8330		3850		3140		6240		5370		7510		151000	
ANTIMONY	12	2.2	2.4	U	2.1	U	2.1	U	2.2	U	3	U	2.8	U	3.1	U	9.6	B
ARSENIC	2	0.2	1.3	B	1.6	B	1.2	B	1.2	B	1.8	B	1.2	B	1.8		1	U
BARIUM	40	0.2	6.4	B	31.7		10.5	B	7	B	19.6	B	10.2	B	15.7	B	4.8	B
BERYLLIUM	1	0.2	0.33	B	0.45	B	0.37	B	0.17	B	0.38	B	0.26	B	0.37	B	0.1	B
CADMIUM	1	0.2	0.32	U	0.28	U	0.27	U	0.29	U	0.39	U	0.37	U	0.4	U	359	
CALCIUM	1000	1.6	507	B	1050		705		612	B	374	B	126	B	183	B	4.5	U
CHROMIUM	2	0.4	5.7		12.3		4.8		3.5		9.9		6.2		9.3		59.9	
COBALT	10	0.4	2.1	B	7.4		2.8	B	2.2	B	4.9	B	2.6	B	4.4	B	0.51	U
COPPER	5	0.4	2.2	B	8.9		4.3		6.7		5.3		3.8	B	6.1		6760	
IRON	20	0.6	5440		11300		5120		4090		9900		8550		11000		1600	
LEAD	0.6	0.2	22.4		6.7		2.2		1.9		3.2		2		2.7		78.4	
MAGNESIUM	1000	2.6	788		3700		1410		987		3110		1570		2360		478	B
MANGANESE	3	0.2	48		145		65		43.4		108		60.1		84.5		431	
MERCURY	0.1	0.1	0.02	U	0.03	U	0.03	U	0.03	U	0.03	U	0.02	U	0.03	U	0.04	U
NICKEL	8	1.6	3.8	B	12.2		5.3		3.9	B	8.4		5.6	B	7.1	B	12.3	
POTASSIUM	1000	49	322	B	1860		785		556	B	1920		740	B	1190		133	U
SELENIUM	1	0.2	0.16	U	0.18	U	0.12	U	0.18	U	0.2	U	0.14	U	0.18	B	1.2	U
SILVER	2	0.4	0.51	U	0.45	U	0.44	U	0.48	U	0.64	U	0.6	U	0.65	U	0.72	U
SODIUM	1000	1.8	23.1	B	47.1	B	23.2	B	18.6	B	32.6	B	23.1	B	34	B	12.3	B
THALLIUM	2	0.2	0.18	U	0.34	B	0.13	U	0.2	U	0.22	B	0.16	U	0.17	U	0.26	U
VANADIUM	10	0.4	10.8		21.7		9.1		7.1		17.7		14		19.1		2.9	B
ZINC	4	0.2	12.5		27.9		11.9		12.2		39.3		15.6		22.5		86.9	
CYANIDE	1	0.05																
%SOLID			86.9		90		96.2		95.3		89.5		91.4		92.1		78.1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS LOW SOIL ANALYSES (mg/Kg)

CLIENT ID:			13SS01		13SS02		14SS01		14SS02		HMSS01		HMSS02		HMSS03	
LABORATORY ID:			42382-005		42382-006		42352-011		42352-012		42346-011		42346-012		42346-015	
ANALYTE	CRDL	IDL														
ALUMINUM	40	2	4680		5500		8610		5370		2290		7280		2570	
ANTIMONY	12	2.2	3.9	U	3.3	U	3.5	U	3.3	U	2.9	U	2.3	U	4.1	U
ARSENIC	2	0.2	2.5		1.3	B	1	B	1.1	B	1.1	B	1.3	B	1.2	B
BARIUM	40	0.2	12.9	B	15.3	B	10.2	B	13.1	B	29.2	B	15.6	B	28.1	B
BERYLLIUM	1	0.2	0.25	B	0.28	B	0.34	B	0.25	B	0.11	B	0.36	B	0.11	B
CADMIUM	1	0.2	0.51	U	0.44	U	0.46	U	0.44	U	0.39	U	0.3	U	0.54	U
CALCIUM	1000	1.6	5090		631	B	582	B	767	B	615	B	320	B	653	B
CHROMIUM	2	0.4	4.5		7		5.4		5.8		2.9		9.1		3.8	
COBALT	10	0.4	1.8	B	4.6	B	2.2	B	3.8	B	1	B	4.2	B	1.1	B
COPPER	5	0.4	3.1	B	5.4		8		14.1		6.2		6.6		5.6	B
IRON	20	0.6	5860		7370		6540		6350		3390		10000		2110	
LEAD	0.6	0.2	9.3		2.4		2.8		2.8		13.4		4.2		19.1	
MAGNESIUM	1000	2.6	532	B	2110		580	B	1460		133	B	2280		175	B
MANGANESE	3	0.2	53.8		124		41.6		95.5		22.3		80.3		25.6	
MERCURY	0.1	0.1	0.03	U	0.03	U	0.03	B	0.03	U	0.04	B	0.03	U	0.05	B
NICKEL	8	1.6	2.5	U	6.6	B	3.6	B	6.5	B	3.4	B	7.8		3.2	B
POTASSIUM	1000	49	220	B	1220		237	B	734	B	130	B	1340		240	B
SELENIUM	1	0.2	0.28	B	0.19	U	0.67	U	0.15	U	0.21	U	0.21	U	0.23	U
SILVER	2	0.4	0.82	U	0.71	U	0.74	U	0.7	U	0.63	U	0.49	U	0.87	U
SODIUM	1000	1.8	35.6	B	35.5	B	23.4	B	36.6	B	45	B	34	B	48.7	B
THALLIUM	2	0.2	0.23	U	0.36	B	0.25	B	0.16	U	0.23	U	0.34	B	0.42	B
VANADIUM	10	0.4	10.7	B	13.1		11.4		11.2		6.1	B	16.8		6.9	B
ZINC	4	0.2	9.2		18		16.8		16.8		13.1		18.7		13.6	
CYANIDE	1	0.05														
%SOLID			76.6		92.3		88.5		88.5		75.9		85.5		74.6	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TAL METALS LOW SOIL ANALYSES (mg/Kg)

CLIENT ID:			USTSS1		USTSS2		USTSS3		USTSS4		USTSS5	
LABORATORY ID:			42437-020		42437-021		42437-022		42437-023		42437-024	
ANALYTE	CRDL	IDL										
ALUMINUM	40	2	5360		5140		5150		4860		8400	
ANTIMONY	12	2.2	3.3	U	3.9	U	3.1	U	2.9	U	4.1	U
ARSENIC	2	0.2	1.5	B	2.3		0.65	B	0.78	B	2.8	
BARIUM	40	0.2	25.7	B	16.3	B	19	B	19.4	B	89.6	
BERYLLIUM	1	0.2	0.26	B	0.24	B	0.2	B	0.22	B	0.33	B
CADMIUM	1	0.2	0.43	U	0.51	U	0.41	U	0.38	U	0.97	B
CALCIUM	1000	1.6	655	B	456	B	911	B	721	B	1000	B
CHROMIUM	2	0.4	8.1		8.2		8.2		7.6		14.6	
COBALT	10	0.4	4.1	B	4.7	B	4	B	5	B	4.9	B
COPPER	5	0.4	6.2		4.9	B	6.3		5.7		43	
IRON	20	0.6	7080		8390		7110		6940		10500	
LEAD	0.6	0.2	6.4		2		2.1		1.5		59.9	
MAGNESIUM	1000	2.6	2210		2620		2430		2330		2950	
MANGANESE	3	0.2	83.5		99.6		84.6		94.4		120	
MERCURY	0.1	0.1	0.03	U	0.03	U	0.03	U	0.03	U	0.05	
NICKEL	8	1.6	8.1	B	8.4	B	7.3	B	7	B	8.2	B
POTASSIUM	1000	49	1280		1740		1540		1460		2280	
SELENIUM	1	0.2	0.28	B	0.17	B	0.19	B	0.19	U	0.2	B
SILVER	2	0.4	0.7	U	0.82	U	0.66	U	0.62	U	0.86	U
SODIUM	1000	1.8	41.5	B	44.2	B	35.2	B	38.4	B	69.8	B
THALLIUM	2	0.2	0.22	U	0.19	U	0.2	U	0.22	U	1	B
VANADIUM	10	0.4	13.8		14.9		14.4		14		26.3	
ZINC	4	0.2	21.6		21.2		19.6		19.3		51.6	
CYANIDE	1	0.05										
%SOLID			84.5		82.1		88.2		89.1		78.1	

PCB AND PESTICIDES ANALYSES

W5295076F

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE AQUEOUS ANALYSES (ug/L)

CLIENT ID:			TAFB01		TAFB02		TARB01		USTGW1		USTGW2	
LABORATORY ID:			42352-16		42352-17		42346-18		42437-4		42437-5	
ANALYTE	CRQL	MDL										
ALPHA-BHC	0.05	0.026	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
BETA-BHC	0.05	0.021	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
DELTA-BHC	0.05	0.015	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
GAMMA-BHC (LINDANE)	0.05	0.014	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
HEPTACHLOR	0.05	0.017	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
ALDRIN	0.05	0.011	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
HEPTACHLOR EPOXIDE	0.05	0.019	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
ENDOSULFAN I	0.05	0.022	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
DIELDRIN	0.1	0.041	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
4,4'-DDE	0.1	0.041	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
ENDRIN	0.1	0.048	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
ENDOSULFAN II	0.1	0.048	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	0.04	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
ENDOSULFAN SULFATE	0.1	0.096	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	0.045	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
METHOXYCHLOR	0.05	0.188	0.58	U	0.61	U	0.52	U	0.51	U	0.52	U
ENDRIN KETONE	0.1	0.032	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
ENDRIN ALDEHYDE	0.1	0.056	0.12	U	0.12	U	0.1	U	0.1	U	0.1	U
ALPHA-CHLORDANE	0.05	0.021	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
GAMMA-CHLORDANE	0.05	0.02	0.058	U	0.061	U	0.052	U	0.051	U	0.052	U
TOXAPHENE	5	0.52	5.8	U	6.1	U	5.2	U	5.1	U	5.2	U
AROCLOR-1016	1	0.19	1.2	U	1.2	U	1	U	1	U	1	U
AROCLOR-1221	2	0.24	2.3	U	2.4	U	2.1	U	2	U	2.1	U
AROCLOR-1232	1	0.11	1.2	U	1.2	U	1	U	1	U	1	U
AROCLOR-1242	1	0.12	1.2	U	1.2	U	1	U	1	U	1	U
AROCLOR-1248	1	0.25	1.2	U	1.2	U	1	U	1	U	1	U
AROCLOR-1254	1	0.21	1.2	U	1.2	U	1	U	1	U	1	U
AROCLOR-1260	1	0.15	1.2	U	1.2	U	1	U	1	U	1	U
DILUTION FACTOR:			1		1		1		1		1	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			01SS01		01SS02		02SS01		02SS02		03SS01		03SS02		04SS01		04SS02	
LABORATORY ID:			42346-8		42346-9		42352-5		42352-6		42396-3		42396-4		42409-4		42409-5	
ANALYTE	CRQL	MDL																
ALPHA-BHC	1.7	0.867	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
BETA-BHC	1.7	0.67	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
DELTA-BHC	1.7	0.5	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
GAMMA-BHC (LINDANE)	1.7	0.467	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
HEPTACHLOR	1.7	0.566	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	2.5	P	1.9	U
ALDRIN	1.7	0.367	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
HEPTACHLOR EPOXIDE	1.7	0.633	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
ENDOSULFAN I	1.7	0.733	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
DIELDRIN	3.3	1.367	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
4,4'-DDE	3.3	1.367	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
ENDRIN	3.3	1.6	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
ENDOSULFAN II	3.3	1.6	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
4,4'-DDD	3.3	1.333	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
ENDOSULFAN SULFATE	3.3	3.2	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
4,4'-DDT	3.3	1.5	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.1	J
METHOXYCHLOR	1.7	6.266	19	U	20	U	18	U	18	U	19	U	18	U	18	U	19	U
ENDRIN KETONE	3.3	1.067	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
ENDRIN ALDEHYDE	3.3	1.866	3.7	U	3.8	U	3.4	U	3.5	U	3.7	U	3.5	U	3.5	U	3.6	U
ALPHA-CHLORDANE	1.7	0.7	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
GAMMA-CHLORDANE	1.7	0.666	1.9	U	2	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.9	U
TOXAPHENE	170	17.33	190	U	200	U	180	U	180	U	190	U	180	U	180	U	190	U
AROCLOR-1016	33	6.333	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
AROCLOR-1221	67	8	76	U	78	U	69	U	71	U	74	U	72	U	72	U	74	U
AROCLOR-1232	33	3.666	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
AROCLOR-1242	33	4	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
AROCLOR-1248	33	8.333	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
AROCLOR-1254	33	6.999	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
AROCLOR-1260	33	5	37	U	38	U	34	U	35	U	37	U	35	U	35	U	36	U
%SOLID			88		86		97		95		90		93		93		91	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			05SS01		05SS02		06SS01		06SS02		07SS01		07SS02		08SS01		08SS02	
LABORATORY ID:			42438-4		42438-5		42475-16		42475-17		42475-14		42475-15		42475-18		42475-19	
ANALYTE	CRQL	MDL																
ALPHA-BHC	1.7	0.867	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
BETA-BHC	1.7	0.67	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
DELTA-BHC	1.7	0.5	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
GAMMA-BHC (LINDANE)	1.7	0.467	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
HEPTACHLOR	1.7	0.566	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
ALDRIN	1.7	0.367	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
HEPTACHLOR EPOXIDE	1.7	0.633	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
ENDOSULFAN I	1.7	0.733	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	2.2	U	2.1	U
DIELDRIN	3.3	1.367	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
4,4'-DDE	3.3	1.367	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	8.6	P
ENDRIN	3.3	1.6	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
ENDOSULFAN II	3.3	1.6	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
4,4'-DDD	3.3	1.333	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	3.6	J	97	PE
ENDOSULFAN SULFATE	3.3	3.2	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
4,4'-DDT	3.3	1.5	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	6.3	P
METHOXYCHLOR	1.7	6.266	18	U	19	U	18	U	18	U	25	U	18	U	22	U	21	U
ENDRIN KETONE	3.3	1.067	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
ENDRIN ALDEHYDE	3.3	1.866	3.6	U	3.7	U	3.5	U	3.5	U	4.9	U	3.6	U	4.2	U	4.1	U
ALPHA-CHLORDANE	1.7	0.7	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	1.5	J	1.9	J
GAMMA-CHLORDANE	1.7	0.666	1.8	U	1.9	U	1.8	U	1.8	U	2.5	U	1.8	U	1.4	J	2.1	U
TOXAPHENE	170	17.33	180	U	190	U	180	U	180	U	250	U	180	U	220	U	210	U
AROCLOR-1016	33	6.333	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
AROCLOR-1221	67	8	72	U	76	U	71	U	72	U	100	U	73	U	85	U	84	U
AROCLOR-1232	33	3.666	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
AROCLOR-1242	33	4	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
AROCLOR-1248	33	8.333	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
AROCLOR-1254	33	6.999	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
AROCLOR-1260	33	5	36	U	37	U	35	U	35	U	49	U	36	U	42	U	41	U
%SOLID			92		88		94		93		67		92		78		79	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			08SS02DL		08SS03		09SS01		09SS02		10SS01		10SS02		12SS01		12SS02	
LABORATORY ID:			42475-19D		42475-20		42475-24		42475-25		42507-4		42507-5		42475-21		42475-22	
ANALYTE	CRQL	MDL																
ALPHA-BHC	1.7	0.867	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
BETA-BHC	1.7	0.67	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
DELTA-BHC	1.7	0.5	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
GAMMA-BHC (LINDANE)	1.7	0.467	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
HEPTACHLOR	1.7	0.566	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
ALDRIN	1.7	0.367	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
HEPTACHLOR EPOXIDE	1.7	0.633	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
ENDOSULFAN I	1.7	0.733	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
DIELDRIN	3.3	1.367	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
4,4'-DDE	3.3	1.367	14	JP	2.9	JP	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
ENDRIN	3.3	1.6	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
ENDOSULFAN II	3.3	1.6	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
4,4'-DDD	3.3	1.333	170		21	P	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
ENDOSULFAN SULFATE	3.3	3.2	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
4,4'-DDT	3.3	1.5	13	JP	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
METHOXYCHLOR	1.7	6.266	110	U	19	U	19	U	18	U	18	U	19	U	18	U	18	U
ENDRIN KETONE	3.3	1.067	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
ENDRIN ALDEHYDE	3.3	1.866	21	U	3.8	U	3.6	U	3.4	U	3.5	U	3.7	U	3.6	U	3.6	U
ALPHA-CHLORDANE	1.7	0.7	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
GAMMA-CHLORDANE	1.7	0.666	11	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U
TOXAPHENE	170	17.33	1100	U	190	U	190	U	180	U	180	U	190	U	180	U	180	U
AROCLOR-1016	33	6.333	210	U	38	U	36	U	34	U	35	U	37	U	36	U	36	U
AROCLOR-1221	67	8	420	U	77	U	74	U	69	U	71	U	75	U	73	U	73	U
AROCLOR-1232	33	3.666	210	U	38	U	36	U	34	U	35	U	37	U	36	U	36	U
AROCLOR-1242	33	4	210	U	38	U	36	U	51		40	P	32	J	36	U	36	U
AROCLOR-1248	33	6.333	210	U	38	U	36	U	34	U	35	U	37	U	36	U	36	U
AROCLOR-1254	33	6.999	210	U	38	U	36	U	34	U	35	U	37	U	36	U	36	U
AROCLOR-1260	33	5	210	U	38	U	36	U	34	U	35	U	37	U	36	U	36	U
%SOLID			79		87		90		96		95		89		91		92	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			12SS03		13SS01		13SS02		14SS01		14SS02		HMSS01		HMSS02		HMSS03	
LABORATORY ID:			42475-23		42382-3		42382-4		42352-7		42352-8		42346-6		42346-7		42346-10	
ANALYTE	CRQL	MDL																
ALPHA-BHC	1.7	0.867																
BETA-BHC	1.7	0.67	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
DELTA-BHC	1.7	0.5	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
GAMMA-BHC (LINDANE)	1.7	0.467	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
HEPTACHLOR	1.7	0.566	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
ALDRIN	1.7	0.367	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
HEPTACHLOR EPOXIDE	1.7	0.633	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
ENDOSULFAN I	1.7	0.733	2.2	U	1.7	JP	1.8	U	1.9	U	1.9	U	3.8	P	2	U	2.3	U
DIELDRIN	3.3	1.367	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
4,4'-DDE	3.3	1.367	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
ENDRIN	3.3	1.6	4.2	U	12		7.2		3.7	U	3.7	U	2.4	J	3.8	U	4.4	U
ENDOSULFAN II	3.3	1.6	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
4,4'-DDD	3.3	1.333	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
ENDOSULFAN SULFATE	3.3	3.2	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
4,4'-DDT	3.3	1.5	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
METHOXYCHLOR	1.7	6.266	4.2	U	22		39	P	3.7	U	3.7	U	11		3.8	U	7	
ENDRIN KETONE	3.3	1.067	22	U	22	U	18	U	19	U	19	U	22	U	20	U	23	U
ENDRIN ALDEHYDE	3.3	1.866	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
ALPHA-CHLORDANE	1.7	0.7	4.2	U	4.3	U	3.5	U	3.7	U	3.7	U	4.3	U	3.8	U	4.4	U
GAMMA-CHLORDANE	1.7	0.666	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
TOXAPHENE	170	17.33	2.2	U	2.2	U	1.8	U	1.9	U	1.9	U	2.2	U	2	U	2.3	U
AROCLOR-1016	33	6.333	220	U	220	U	180	U	190	U	190	U	220	U	200	U	230	U
AROCLOR-1221	67	8	42	U	43	U	35	U	37	U	37	U	43	U	38	U	44	U
AROCLOR-1232	33	3.666	85	U	87	U	71	U	76	U	76	U	88	U	78	U	89	U
AROCLOR-1242	33	4	42	U	43	U	35	U	37	U	37	U	43	U	38	U	44	U
AROCLOR-1248	33	8.333	36	J	43	U	35	U	37	U	37	U	43	U	38	U	44	U
AROCLOR-1254	33	6.999	42	U	43	U	35	U	37	U	37	U	43	U	38	U	44	U
AROCLOR-1260	33	5	42	U	43	U	35	U	37	U	37	U	43	U	38	U	44	U
			42	U	43	U	35	U	37	U	37	U	43	U	38	U	44	U
%SOLID			78		77		92		88		88		76		86		75	

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02/BRU03
LABORATORY: PACE INC. - HAMPTON, NH

TCL PESTICIDE LOW SOIL ANALYSES (ug/Kg)

CLIENT ID:			USTSS1		USTSS2		USTSS3		USTSS4		USTSS5	
LABORATORY ID:			42437-15		42437-16		42437-17		42437-18		42437-19	
ANALYTE	CRQL	MDL										
ALPHA-BHC	1.7	0.867	2	U	2.1	U	1.9	U	1.9	U	1.5	JP
BETA-BHC	1.7	0.67	2	U	2.1	U	1.9	U	1.9	U	2.2	U
DELTA-BHC	1.7	0.5	2	U	2.1	U	1.9	U	1.9	U	2.2	U
GAMMA-BHC (LINDANE)	1.7	0.467	2	U	2.1	U	1.9	U	1.9	U	2.2	U
HEPTACHLOR	1.7	0.566	2	U	2.1	U	1.9	U	1.9	U	2.2	U
ALDRIN	1.7	0.367	2	U	2.1	U	1.9	U	1.9	U	2.2	U
HEPTACHLOR EPOXIDE	1.7	0.633	2	U	2.1	U	1.9	U	1.9	U	2.2	U
ENDOSULFAN I	1.7	0.733	2	U	2.1	U	1.9	U	1.9	U	2.2	U
DIELDRIN	3.3	1.367	3.9	U	4	U	3.7	U	3.7	U	4.2	U
4,4'-DDE	3.3	1.367	3.9	U	4	U	3.7	U	3.7	U	4.2	U
ENDRIN	3.3	1.6	3.9	U	4	U	3.7	U	3.7	U	4.2	U
ENDOSULFAN II	3.3	1.6	3.9	U	4	U	3.7	U	3.7	U	4.2	U
4,4'-DDD	3.3	1.333	3.9	U	4	U	3.7	U	3.7	U	4.2	U
ENDOSULFAN SULFATE	3.3	3.2	3.9	U	4	U	3.7	U	3.7	U	4.2	U
4,4'-DDT	3.3	1.5	3.9	U	4	U	3.7	U	3.7	U	4.2	U
METHOXYCHLOR	1.7	6.266	20	U	21	U	19	U	19	U	22	U
ENDRIN KETONE	3.3	1.067	3.9	U	4	U	3.7	U	3.7	U	4.2	U
ENDRIN ALDEHYDE	3.3	1.866	3.9	U	4	U	3.7	U	3.7	U	4.2	U
ALPHA-CHLORDANE	1.7	0.7	2	U	2.1	U	1.9	U	1.9	U	2.2	U
GAMMA-CHLORDANE	1.7	0.666	2	U	2.1	U	1.9	U	1.9	U	2.2	U
TOXAPHENE	170	17.33	200	U	210	U	190	U	190	U	220	U
AROCLOR-1016	33	6.333	39	U	40	U	37	U	37	U	42	U
AROCLOR-1221	67	8	80	U	81	U	76	U	75	U	86	U
AROCLOR-1232	33	3.666	39	U	40	U	37	U	37	U	42	U
AROCLOR-1242	33	4	39	U	40	U	37	U	37	U	42	U
AROCLOR-1248	33	8.333	39	U	40	U	37	U	37	U	42	U
AROCLOR-1254	33	6.999	39	U	40	U	37	U	37	U	42	U
AROCLOR-1260	33	5	39	U	40	U	37	U	37	U	42	U
%SOLID			84		82		88		89		78	

PETROLEUM HYDROCARBONS ANALYSES

W5295076F

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU03
LABORATORY: PACE INC. - HAMPTON, NH

Conventional Aqueous Analyses - Petroleum Hydrocarbons (ug/L)

CLIENT ID:	USTGW1	USTGW2	TARB01	TAFB01	TAFB02
LABORATORY ID:	42437-008	42437-009	42346-020	42352-020	42352-021
Indeterminate Diesel Fuel	2200	2500			
Heavy Products	220 U	220 U			
Light Products			100 U	100 U	100 U
Indeterminate Lubricating Oil			TRACE J	280	TRACE J
Indeterminate Kerosene					

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU03
LABORATORY: PACE INC. - HAMPTON, NH

Conventional Aqueous Analyses - Petroleum Hydrocarbons (mg/Kg)

CLIENT ID:	USTSS1	USTSS2	USTSS3	USTSS4	USTSS5	07SS01	07SS02	06SS01	06SS02
LABORATORY ID:	42437-020	42437-021	42437-022	42437-023	42437-024	42475-026	42475-027	42475-028	42475-029
Indeterminate Diesel Fuel			37						
Heavy Products					800 U		700 U		
Indeterminate Kerosene	230				16000		1400		
Indeterminate Lubricating Oil	250	7.2 J	80	8.5		9.5 J		6.5 J	5.7 J
Light Products		4 U		4 U		5 U		4 U	4 U

CLIENT ID:	08SS01	08SS02	08SS03	12SS01	12SS02	09SS01	09SS02	10SS01	10SS02
LABORATORY ID:	42475-030	42475-031	42475-032	42475-033	42475-034	42475-035	42475-036	42507-006	42507-007
Indeterminate Diesel Fuel									
Heavy Products									
Indeterminate Kerosene	68	8000	2100						
Indeterminate Lubricating Oil	70	1400	960	7.5	6.1 J	12	5.2 J	6.6 J	5 J
Light Products				4 U	4 U	4 U	3 U	4 U	4 U

SITE: NAS Brunswick, ME CTO151
CASE: BRUNS, SDG: BRU02
LABORATORY: PACE INC. - HAMPTON, NH

Conventional Soil Analyses - Petroleum Hydrocarbons (mg/Kg)

CLIENT ID:	HMSS01	HMSS02	01SS01	01SS02	HMSS03	02SS01	02SS02	14SS01
LABORATORY ID:	42346-011	42346-012	42346-013	42346-014	42346-015	42352-009	42352-010	42352-011
Indeterminate Diesel Fuel	460		4500					
Heavy Products	9 U					7 U		
Light Products		4 U		4 U	40 U	3 U	4 U	4 U
Indeterminate Lubricating Oil		14	4700	16	180		12	12
Indeterminate Kerosene								

CLIENT ID:	14SS02	13SS01	13SS02	03SS01	03SS02	04SS01	04SS02	05SS01	05SS02
LABORATORY ID:	42352-012	42382-005	42382-006	42396-005	42396-006	42409-006	42409-007	42438-006	42438-007
Indeterminate Diesel Fuel									
Heavy Products							70 U		7 U
Light Products	4 U	4 U	4 U	40 U	4 U			4 U	4 U
Indeterminate Lubricating Oil	9.1	48	TRACE J	870	16	340		13	
Indeterminate Kerosene						1200	820		

APPENDIX E
HAZARDOUS WASTE SHIPPING MANIFESTS

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) (Form designed for use on elite (12-pitch) typewriter)

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. M.E.8.1.7.0.0.2.2.0.1 Manifest Document No. 375372	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law

3. Generator's Name and Mailing Address: ATTN: DALE MOSHER, BRUNSWICK NAVAL AIR STATION, 400 ORION STREET NORTH, BRUNSWICK, ME 04011

4. Generator's Phone: 207-921-2445

A. State Manifest Document Number: CT F 0434542

B. G.S.I. (Gen. Site Address): 400 ORION STREET NORTH, BRUNSWICK, ME 04011

5. Transporter 1 Company Name: CLEAN HARBORS ENV.SERVICES,INC.

6. US EPA ID Number: M A D 0 3 9 3 2 2 2 5 0

7. Transporter 2 Company Name

8. US EPA ID Number

C. S.T.I. (Trans. Lic. Plate #): MCCHEII

D. Transporter 1 Phone: 617-8491800

9. Designated Facility Name and Site Address: CLEAN HARBORS OF CONN., INC., 51 BRODERICK ROAD, BRISTOL, CT 06010

10. US EPA ID Number: C T D 0 0 0 6 0 4 4 8

E. S.T.I. (Trans. Lic. Plate #)

F. Tran. Phone

G. State Facility's ID (Not Required)

H. Facility Phone: 203-582-0917

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE SOLID, N.O.S., (LEAD), 9, NA3077 PGIII	001	CM	12	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

RECEIVED By ____ RECEIVED By ____ COMPLETED

J. Additional Descriptions for Materials Listed Above: a. ESS; b.; c.; d.

K. Handling Codes for Wastes Listed Above: a. Interim / Final; b. Interim / Final

15. Special Handling Instructions and Additional Information: Emergency Contact: 1-800-OIL-TANK; Ha U33762; Hb; Hc; Hd

Point of Departure:

WO#: ME5151

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

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

Printed/Typed Name: John A. Bond — Signature: [signature] — Month Day Year: 06 05 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Brackett — Signature: [signature] — Month Day Year: 06 05 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name — Signature — Month Day Year

Form 8700-22 (Rev. 9/91) Form Approved OMB No. 2050-0039. Expires 9/30/95. Previous edition is obsolete.

GENERATOR — COPY 1: FACILITY MAILS TO DESTINATION STATE

CT F 0434542

COPY 1: FACILITY MAILS TO DESTINATION STATE

the generator is shippi

ID: JUN 19'95 12:15 NO.016 P.02

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) (Form designed for use on elite (12-pitch) typewriter)

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: M E 8 1 7 0 0 2 2 0 1 8 — Manifest Document No.: 375392
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but may be required by State law

3. Generator's Name and Mailing Address: ATTN: DALE MOSHER, BRUNSWICK NAVAL AIR STATION, 400 ORION STREET NORTH, BRUNSWICK, ME 04011

4. Generator's Phone: 207-921-2445

A. State Manifest Document Number: CT F0434542

B. G.S.I. (Gen. Site Address): 400 ORION STREET NORTH, BRUNSWICK, ME 04011

5. Transporter 1 Company Name: CLEAN HARBORS ENV.SERVICES,INC.
6. US EPA ID Number: M A D 0 3 9 3 2 2 2 5 0

C. S.T.I. (Trans. Lic. Plate #): McCHAIN

D. Transporter Phone: 617-8491800

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

E. S.T.I. (Trans. Lic. Plate #):

F. Trans. Phone:

9. Designated Facility Name and Site Address: CLEAN HARBORS OF CONN., INC., 51 BRODERICK ROAD, BRISTOL, CT 06010
10. US EPA ID Number: C T D 0 0 0 6 0 4 4 8

G. State Facility's ID (Not Required):

H. Facility Phone: 203-582-8917

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE SOLID, N.O.S., (LEAD), 9, NA3077 PGIII	001	CM	12	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

RECEIVED By ____ RECEIVED By ____ COMPLETED

J. Additional Descriptions for Materials Listed Above: a. b. c. d.

K. Handling Codes for Wastes Listed Above: a. Interim Final; b. Interim Final; c. d.

15. Special Handling Instructions and Additional Information: ~~Emergency Contact: 1-800-OIL TANK~~

Sp. Hg U33762
Sp. Hb
Sp. Hc
Sp. Hd

Point of Departure:

WO#: ME5151

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

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

Printed/Typed Name: John H. Bond — Signature: [signature] — Month Day Year: 06 05 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Brackett — Signature: [signature] — Month Day Year: 06 05 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name — Signature — Month Day Year

Form 8700-22 (Rev. 9/91) Form Approved OMB No. 2050-0039, Expires 9/30/98. Previous edition is obsolete.

GENERATOR

COPY 1: FACILITY MAILS TO DESTINATION STATE

CT F 0434542

the generator is shippi

COPY 1: FACILITY MAILS TO DESTINATION STATE

DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Type: Do not Staple. | Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA No.: CTD 0 0 5 0 4 4 8 8 | Manifest Document No. | Page 1 | Information in the shaded areas is not required by Federal Law.

1

Generator's Name and Mailing Address
CLEAN HARBORS OF CONNECTICUT
861 Middle St. Bristol, Ct. 06010
Generator's Phone (203) 583-8927

A. State Manifest Document No. NY B796439 7

B. Generator's ID 51 Frederick St. Bristol, Ct.

5. Transporter 1 (Company Name): CLEAN HARBORS ENV. SERVICES, INC.
6. US EPA ID Number: N A D 0 3 9 3 2 2 2 5 0
C. State Transporter's ID
D. Transporter's Phone (617 848-1000)

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

9. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, INC.
1550 Balmer Rd.
Model City, N.Y. 14107
10. US EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9
G. State Facility's ID: [illegible]
H. Facility's Phone: (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE SOLID, N.O.S. (LEAD) 9, NA3077 PGIII	0 0 1	C R	2	Y	EPA [illegible] / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. AM 11 34 (Time In / Time Out) c. (Inquiry / Comments)
b. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a. A01134
W.O. 24371
R.O.
Emergency contact: 1-800-645-8265

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

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

Printed/Typed Name: [illegible] | Signature: [illegible] | Mo. Day Year: 06 07 95

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name | Signature | Mo. Day Year

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

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Mo. Day Year

NY B796439 7

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 7—Transporter Copy—retained by transporter

White: Records | Green & Canary: [illegible]

CWM Chemical Services, Inc.
Model City, NY

36,800 lb GROSS
36800 LB G 2

14840 lb (TRK)
14840 LB G 1

21,960 lb NET

145057	314211 (ME)
Receipt #	License #
224571-1	AM11 Y / MA006
Service Req. # / Profile #	Permit #
C H E	125/701/0001
Transporter Name	Tractor/Trailer/Roll-off #
BRACKETT	CH CONN
Driver's Name	Generator

Scheduled Arrival: 6/9 (Date) 130 (Time)

Actual Arrival: 6/9 (Date) 923 (Time In) _____ (Time Out)

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: _____ (Initials) _____ (Comments)

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☒ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Truck Wash

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or deterpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ME8170022018
Manifest Document No. 1835
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MA J 011835
B. State Generator's ID: 400 ORION STREET NORTH BRUNSWICK, ME 04011
C. State Trans. ID: ME 614160
D. Transporter's Phone: [illegible]
E. State Trans. ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

3. Generator's Name and Mailing Address
ATTN: DALE MOSHER
BRUNSWICK NAVAL AIRSTATION
400 ORION STREET NORTH
BRUNSWICK, ME 04011
4. Generator's Phone (207-921-2445)
5. Transporter 1 Company Name: CLEAN HARBORS ENV.SERVICES,INC.
6. US EPA ID Number: MAD039322250
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address
CLEAN HARBORS OF BRAINTREE,INC
385 QUINCY AVE
BRAINTREE, MA 02184
10. US EPA ID Number: MAD053452637

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. EMPTY DRUMS NON D.O.T. REGULATED, NONE, N/A	007	CF	2100	P	MA99
b. NON-D.O.T. REGULATED ROOFING TAR, NONE, N/A	004	DF	1500	P	MA99
c. Waste Pyrophoric Solid NOS UN 2881 PG III	001	DF	500	P	UD226
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. (S)
b. (S)
c.
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

11a. EMPTY
11b. U33761
11c. U33764
11d.

15. Special Handling Instructions and Additional Information
Emergency Contact: 1-800-OIL-TANK
WO#: ME5151

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

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

Printed/Typed Name: John H Bond
Signature
Date: Month 06 Day 05 Year 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MICHAEL McCAY
Signature
Date: Month 06 Day 05 Year 95

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

FACILITY

19. Discrepancy Indication Space

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

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping

Form Approved. OMB No. 2050-0039 Expires 9-88
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

MA J 011835 COPY>1: FACILITY MAILS TO DESTINATION STATE

COPY>1: FACILITY MAILS TO DESTINATION STATE

ID: JUN 19'95 8:45 No.007 P.05

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ME8170022018
Manifest Document No.: 01834
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MA J 011834
B. State Gen. ID: 400 ORION STREET NORTH, BRUNSWICK, ME 04011
C. State Trans. ID: ME 041805
D. Transporter's Phone: 617-881-1800
E. State Trans. ID:
F. Transporter's Phone ( )
G. State Facility's ID: NOT REQUIRED
H. Facility's Phone: 617-848-1

3. Generator's Name and Mailing Address
ATTN: DALE MOSHER
BRUNSWICK NAVAL AIRSTATION
400 ORION STREET NORTH
BRUNSWICK, ME 04011
4. Generator's Phone (207-921-2445)
5. Transporter 1 Company Name: CLEAN HARBORS ENV.SERVICES,INC.
6. US EPA ID Number: MAD039322250
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
CLEAN HARBORS OF BRAINTREE,INC
385 QUINCY AVE
BRAINTREE, MA 02184
10. US EPA ID Number: MAD053452637

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. HAZARDOUS WASTE SOLID, N.O.S., (LEAD), 9, NA3077 PGIII	010	DM	5000	P	D008
b. ~~HAZARDOUS WASTE SOLID, N.O.S., (LEAD), 9, NA3077 PGIII~~	000				
c. WASTE PAINT RELATED MATERIAL, COMBUSTIBLE LIQUID UN1263, PGII	002	DM	3500	P	D001
d. WASTE PAINT RELATED MATERIAL, COMBUSTIBLE LIQUID UN1263, PGII	001	DM	400	P	D001

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. (E)(S)
b. ~~(E)(SL)~~ RB
c. (E)(SL)
d. (E)(SL) ~~RB~~ Water

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

11a U033763
11b ~~U033763~~ RB
11c U033763
11d U033763

15. Special Handling Instructions and Additional Information
Emergency Contact: 1-800-OIL-TANK
WO#: ME5151

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

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

Printed/Typed Name: John H Bond
Signature:
Date: Month 06 Day 05 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MICHAEL MCKAY
Signature:
Date: Month 06 Day 05 Year 95

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

19. Discrepancy Indication Space

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

GENERATOR / TRANSPORTER / FACILITY

MA J 011834 COPY>1: FACILITY MAILS TO DESTINATION STATE

Form Approved OMB No. 2050-0039, Expires 9-30-94
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

Clean Harbors has appropriate permits for and will accept the waste the generator is shipping.

COPY>1: FACILITY MAILS TO DESTINATION STATE

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

tv 302 R

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED017022018
Manifest Document No. 11813
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
BRUNSWICK NAVAL AIR STATION
400 ORION STREET NORTH
BRUNSWICK, ME 04011
4. Generator's Phone (207-921-2445)

A. State Manifest Document Number MA J04 18313
B. Generator's Site Address (if different than mailing address) 400 ORION STREET NORTH BRUNSWICK, ME 04011
C. State Gen. ID
D. Transporter 1 Company Name
E. State Trans. ID
F. Transporter's Phone (617) 649-1800
G. State Facility's ID NOT REQUIRED
H. Facility's Phone (617) 849-1007

5. CLEAN HARBORS ENV. SERVICES, INC.
6. US EPA ID Number MAD039922250
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address
CLEAN HARBORS OF BRAINTREE, INC
305 QUINCY AVE
BRAINTREE, MA 02184
10. US EPA ID Number MAD053452637

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Haz waste Liquid, N.O.S., 9, (Lead) NA 3082 PG III	001	TT	582	G	D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. L
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S01 2
b.
c.
d.

15. Special Handling Instructions and Additional Information

Emergency Contact: 1-800-OIL-TANK WO#: ME5151

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

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

Printed/Typed Name: [illegible] Signature: [signature] Date: Month 06 Day 02 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Brackett Signature: Mark Brackett Date: Month 06 Day 02 Year 95

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

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: John Murray Signature: [signature] Date: Month 06 Day 02 Year 95

GENERATOR — TRANSPORTER — FACILITY

Form Approved OMB No. 2050-0039, Expires 3-30-94

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

PRESS HARD - YOU ARE MAKING FOUR COPIES

Clean Harbors has appropriate permits for and will accept the waste the generator is shipping

70'd 800'9N 60:6 S6 ST NOC ... WITH TO DESTINATION STATE

APPENDIX F
UST CONTENTS ANALYTICAL RESULTS

DATA QUALIFIER DEFINITIONS

Report Data Qualifiers:

A (semivolatiles) = The tentatively-identified compound is a suspected aldol-condensation product.
B (organics) = Compound was detected in the associated blank.
B (inorganics) = Compound concentration is between the instrument detection limit and the CRDL.
C = GC result was confirmed by GC/MS.
D = On a Form 2: surrogate was diluted out.
On a Form 1: data from a secondary dilution (DL). Compare to data on the Form 1 of the primary dilution.
E = Compound was detected above the upper limit of the instrument calibration.
I = Interference prevents quantitation.
J = Compound concentration is an estimate. Either the compound was positively-identified at a trace value, or it is a nontarget for which no calibration was performed.
N = The identification given for the GC/MS nontarget compound is based on presumptive evidence (mass-spectral matching) only.
P = There is greater than a 25% concentration difference between quantitation on the primary and confirmatory GC columns. The lower value was reported.
U = Compound was analyzed for but not detected at the listed concentration.
X-Z = Qualifiers with definitions explained in the narrative.

Q Qualifiers:

E = Reported value is an estimate due to presence of an interference.
M = Duplicate injection precision not met.
N = Spiked sample recovery not within control limits.
S = Value determined by the Method of Standard Additions (MSA).
W = Post-digestion spike for Furnace AA analysis is outside of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
***** = Duplicate analysis is not within control limits.
+ = Correlation coefficient for the MSA is less than 0.995.

M (Method) Qualifiers:

CV = manual Cold Vapor AA
F = Furnace AA
P = ICP
NR = analysis was not required for this analyte.

Qualifiers used on Raw Data:

BDL = Below the detection limit.
NTC = Non-target compound.
NSM = No spectral match.
NPM = No pattern match.
CONF = Primary data confirmed on second column (GC/ECD).
NCRT = Not confirmed; no peak in retention time window on second column.
MI = Matrix interference.
NP = No peak; background noise incorrectly called a peak.
DOOR = Compound diluted out of the range of detection.
CI = Compound interference; peak coelutes with another target compound.

PACE--C:\EPA\DATAQUAL.DEF

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C4258

Level: (low/med) LOW Date Received: 08/11/94

% Moisture: not dec. Date Analyzed: 08/19/94

GC Column: SP1000 ID: 2.00 (mm) Dilution Factor: 25.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	280	B
67-64-1	Acetone	2000	
75-15-0	Carbon Disulfide	250	U
75-35-4	1,1-Dichloroethene	250	U
75-34-3	1,1-Dichloroethane	250	U
540-59-0	1,2-Dichloroethene (total)	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-Pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-88-3	Toluene	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
100-42-5	Styrene	250	U
1330-20-7	Xylene (total)	250	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: C4258

Level: (low/med) LOW Date Received: 08/11/94

% Moisture: not dec. Date Analyzed: 08/19/94

GC Column: SP1000 ID: 2.00 (mm) Dilution Factor: 25.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-2

Sample wt/vol: 930.0 (g/mL) ML Lab File ID: H5943

Level: (low/med) LOW Date Received: 08/11/94

% Moisture: decanted: (Y/N) Date Extracted: 08/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-di-n-propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
111-91-1	bis(2-Chloroethoxy)methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	27000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	27000	U
131-11-3	Dimethylphthalate	11000	U
208-96-8	Acenaphthylene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
99-09-2	3-Nitroaniline	27000	U
83-32-9	Acenaphthene	11000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-2

Sample wt/vol: 930.0 (g/mL) ML Lab File ID: H5943

Level: (low/med) LOW Date Received: 08/11/94

% Moisture: decanted: (Y/N) Date Extracted: 08/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	27000	U
100-02-7	4-Nitrophenol	27000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	27000	U
534-52-1	4,6-Dinitro-2-methylphenol	27000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	27000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
86-74-8	Carbazole	11000	U
84-74-2	Di-n-butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)anthracene	11000	U
218-01-9	Chrysene	11000	U
117-81-7	bis(2-Ethylhexyl)phthalate	4900	J
117-84-0	Di-n-octylphthalate	11000	U
205-99-2	Benzo(b)fluoranthene	11000	U
207-08-9	Benzo(k)fluoranthene	11000	U
50-32-8	Benzo(a)pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)pyrene	11000	U
53-70-3	Dibenz(a,h)anthracene	11000	U
191-24-2	Benzo(g,h,i)perylene	11000	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-2

Sample wt/vol: 930.0 (g/mL) ML Lab File ID: H5943

Level: (low/med) LOW Date Received: 08/11/94

% Moisture: decanted: (Y/N) Date Extracted: 08/12/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/29/94

Injection Volume: 2.0(uL) Dilution Factor: 200.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107415	2,4-PENTANEDIOL, 2-METHYL-	5.55	20000	JN
2. 111842	NONANE	6.49	12000	JN
3.	UNKNOWN	6.97	13000	J
4.	UNKNOWN	7.24	68000	J
5.	UNKNOWN	7.59	48000	J
6. 62016379	OCTANE, 2,4,6-TRIMETHYL-	7.68	130000	JN
7.	UNKNOWN	7.85	14000	J
8.	UNKNOWN	8.13	38000	J
9.	UNKNOWN	8.80	49000	J
10. 15869860	OCTANE, 4-ETHYL-	8.94	130000	JN
11. 17312822	UNDECANE, 4,6-DIMETHYL-	11.36	17000	JN
12.	UNKNOWN	11.86	26000	J
13.	UNKNOWN	12.05	13000	J
14. 2131422	NAPHTHALENE, 1,4,6-TRIMETHYL	12.09	16000	JN
15. 55045119	TRIDECANE, 5-PROPYL-	12.27	56000	JN
16. 15869940	OCTANE, 3,6-DIMETHYL-	12.63	19000	JN
17. 630013	HEXACOSANE	13.00	25000	JN
18. 31295564	DODECANE, 2,6,11-TRIMETHYL-	13.06	19000	JN
19. 26730121	TRIDECANE, 4-METHYL-	13.72	16000	JN
20. 54833237	EICOSANE, 10-METHYL-	14.41	13000	JN

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FTAUST

Lab Name: PACE NEW ENGLA Contract: NEESAC

Lab Code: Case No.: BRUNS SAS No.: SDG No.: BRU01

Matrix: (soil/water) WATER Lab Sample ID: 41161-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 08/11/94

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 08/15/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/24/94

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.50	U
319-85-7	beta-BHC	0.50	U
319-86-8	delta-BHC	0.50	U
58-89-9	gamma-BHC (Lindane)	0.50	U
76-44-8	Heptachlor	0.50	U
309-00-2	Aldrin	0.50	U
1024-57-3	Heptachlor epoxide	0.50	U
959-98-8	Endosulfan I	0.50	U
60-57-1	Dieldrin	1.0	U
72-55-9	4,4'-DDE	1.0	U
72-20-8	Endrin	1.0	U
33213-65-9	Endosulfan II	1.0	U
72-54-8	4,4'-DDD	1.0	U
1031-07-8	Endosulfan sulfate	1.0	U
50-29-3	4,4'-DDT	1.0	U
72-43-5	Methoxychlor	5.0	U
53494-70-5	Endrin ketone	1.0	U
7421-93-4	Endrin aldehyde	1.0	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	50	U
12674-11-2	Aroclor-1016	10	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	10	U
53469-21-9	Aroclor-1242	10	U
12672-29-6	Aroclor-1248	10	U
11097-69-1	Aroclor-1254	10	U
11096-82-5	Aroclor-1260	10	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FTAUST

Lab Name: PACE New England, Inc. Contract:

Lab Code: Case No.: BRUNS SAS No.: SDG No.: MBRU01

Matrix (soil/water): WATER Lab Sample ID: 41161-004

Level (low/med): LOW Date Received: 08/11/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.3	B		P
7440-36-0	Antimony	13.1	U		P
7440-38-2	Arsenic	2.1	U		P
7440-39-3	Barium	21.8	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.6	U		P
7440-70-2	Calcium	69800			P
7440-47-3	Chromium	2.4	U		P
7440-48-4	Cobalt	2.8	U		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	7330			P
7439-92-1	Lead	14.9			P
7439-95-4	Magnesium	3000	B		P
7439-96-5	Manganese	419			P
7439-97-6	Mercury	0.16	B		CV
7440-02-0	Nickel	6.9	U		P
7440-09-7	Potassium	26300			P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.7	U		P
7440-23-5	Sodium	25000			P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	3.9	B		P
7440-66-6	Zinc	19.4	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

APPENDIX G
UST REMOVAL ASSESSMENT REPORT

COASTAL ENVIRONMENTAL
Designers, Engineers, Consultants

TANK REMOVAL ASSESSMENT REPORT
FIRE TRAINING AREA
BRUNSWICK NAVAL AIR STATION
BRUNSWICK, MAINE

Reference: CE94405

Prepared For:

Clean Harbors Environmental Services Companies
17 South Main Street
South Portland, Maine 04106

Prepared By:

COASTAL ENVIRONMENTAL CORPORATION
PO Box 1269
Bangor, Maine, 04402

December 23, 1994

P.O. Box 1269 • Bangor, ME 04402 • (207) 848-4304 • FAX (207) 848-4392

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CERTIFICATION OF PROJECT COMPLETION 9

FIGURES

PHOTOGRAPHS

1.0 PURPOSE

In November 1994, Coastal Environmental Corporation (Coastal) was contracted by Clean Harbors Environmental Services, Inc. (Clean Harbors) to provide technical services for a Underground Storage Tank (UST) assessment project at Brunswick Naval Air Station in Brunswick, Maine. Clean Harbors was contracted by Halliburton NUS under contract # N62472-90-D1298 (CLEAN), Contract Subtask Order # 151 to conduct the removal of an 6,000-gallon UST located at the Fire Training Area. The tank removal was conducted on December 2, 1994.

The scope of work was limited to visual identification of soil and groundwater contamination, the collection and field screening of soil samples from the excavation zone, and observation of the collection of soil and groundwater samples for laboratory analysis by Halliburton NUS. Screening analysis was performed utilizing a photoionization detector (HNu) 10.2 eV supplied by Clean Harbors. The samples were analyzed using the jar headspace method for field screening. Since Halliburton NUS was under contract to collect samples of soil and groundwater for laboratory analysis, as well as additional investigation in the Fire Training Area, Coastal did not collect samples for laboratory analysis. For results of the laboratory analysis of samples from the excavation of the UST, refer to the Halliburton NUS report completed under the above referenced contract number.

Clean Harbors provided the excavation equipment and operator to perform the excavation of the tank and associated piping.

2.0 SITE DESCRIPTION

The Fire Training Area is located at the intersection of Sandy Road and Old Gurnet Road on a remote section of Brunswick Naval Air Station in Brunswick, Maine (Figure 1). An 6000-gallon UST was located north of a concrete structure used during fire training. During fire training activities, flammable liquids were placed in the shallow concrete basin and set on fire. Personnel then responded to the fire and practiced putting out the set fire. At the conclusion of the fire training activities, the materials in the basin (fire-fighting materials and any remaining flammable liquids) were drained to the 6000-gallon tank for storage prior to disposal. The basin drains via two sumps located at the northern side of the basin to the 6000-gallon tank through 8-inch PVC piping.

The concrete fire training pit and associated UST were designed in 1985 and installed in 1986. Prior to the installation of this structure, fire training operations typically included spreading flammable liquids directly on the ground without containment.

Concurrent with the tank removal, Halliburton NUS and Clean Harbors were conducting an investigation and removal of buried drums in the Fire Training Area, including the area surrounding the 6000-gallon UST. During this investigation, elevated levels of volatile organic compounds (VOCs) were reportedly detected in subsurface soils. Overpacked drums were staged on-site on the date of the tank excavation.

A groundwater pump and treatment system was currently under construction immediately west of the Fire Training Area. Numerous monitoring wells were observed at and in the vicinity of the Fire Training Area.

The topography of the area in which the UST was located is generally flat with an elevation change of less than two feet per fifty foot interval (Figure 1). The surface of the area around the UST is vegetated.

2.1 Underground Storage Tank Historical Information

The concrete fire training pit and associated UST were installed in approximately 1987. The tank was an 6000-gallon single wall fiberglass tank, registration # 10045-469. The tank was connected to sumps adjacent to the Fire Training Pit by 8-inch PVC pipe.

2.2 Environmentally sensitive areas

Groundwater was encountered at a depth of approximately 11 feet below grade in the tank excavation. No surface water bodies were observed in the immediate vicinity of the fire training area. No buildings, other than the building under construction for the reported groundwater treatment system, were observed in the vicinity.

2.3 Site geology

According to the Bedrock Geologic Map of Maine (Maine Geological Survey, 1985), the site is near the contact between the Ordovician-aged Cape Elizabeth Formation, described as interbedded

pelite and sandstone, and the Cushing Formation consisting of mafic to felsic volcanics. Bedrock was not observed in the vicinity of the site.

According to the Surficial Geologic Map of Maine (Maine Geological Survey, 1985) unconsolidated deposits at the site consist of glacio-marine deposits of the Presumpscot Formation (fine grained facies). Observations of materials encountered during excavations conducted during this investigation showed subsurface materials of fine - medium grained sand.

3.0 SUMMARY OF SAMPLING METHODS

At the request of DEP representative Richard Heath, the tank closure was completed under the guidance of MEDEP Regulations for the Closure of Hazardous Materials Facilities, Chapter 695. In order to comply with the site assessment requirements under Chapter 695, soil sampling and screening guidance and methods contained in MEDEP Regulations for Registration, Installation, Operation and Closure of Underground Oil Storage Facilities, Chapter 691, Appendix Q were utilized. The headspace method was selected for the testing for contamination around the UST.

All soil samples for field screening were collected from the excavation area and placed into standard laboratory glassware. The jars were filled approximately halfway. The samples were then sealed with a tinfoil membrane, which was located between the lid and the glassware. The samples were warmed for approximately 5 minutes in a heated vehicle prior to screening. Once the sample was warmed, the tip of the Hnu probe was inserted through the aluminum foil to measure the concentration of VOCs, which had collected in the headspace.

Halliburton NUS collected soil and groundwater samples from the excavation for laboratory analyses. The samples were collected in accordance with applicable MEDEP and U.S. EPA protocols. Samples were placed on ice and delivered under chain-of-custody documentation to the analytical laboratory. See the Halliburton NUS report on this investigaion for results of these analyses.

4.0 ON-SITE OBSERVATIONS

On December 2, 1994, Coastal Environmental Corporation Hydrogeologist Daniel P. Fenno and Engineer Dennis Giustra were on-site to observe the excavation and removal. According to Halliburton NUS representative Janet Pillion, the contents of the tank had been removed for disposal and the tank cleaned by Clean Harbors on December 1, 1994.

Prior to excavation, Clean Harbors pumped all liquid material from the sumps adjacent to the fire training pit for disposal.

Clean Harbors began excavation by removing the backfill over the tank. Directly above the tank, an approximately 8 feet by 15 feet reinforced concrete pad was found. During the removal of this concrete pad, the underlying fiberglass tank was damaged (Photo 1). Fill material was excavated from the sides of the tank to an approximate depth of 8 feet, and the tank was removed (Photo 2). The tank was held in-pace by steel cables attached to concrete "deadmen". During removal, the tank broke into several pieces.

Groundwater was observed seeping into the excavation at a depth of approximately 10 feet. No visible product or sheen was observed.

Although the tank was damaged during removal, inspection of the tank did not suggest that the tank had leaked. No stained areas were noted along the fractured tank, no cracks were observed, and no staining of the exterior of the tank was noted.

Soil sample SS-1E was collected from a depth of approximately 8 feet on the east side of the excavation, approximately 6 feet from the former location of the tank. Sample SS-1W was collected from a depth of approximately 8 feet on the west side of the excavation, approximately 8 feet from the former location of the tank. Soil sample SS-1B was collected from a depth of approximately 11 feet under the former location of the tank. After allowing the sample to warm in a running vehicle, the sample was screened with an HNu meter (10.2 eV lamp) using the headspace method. The results of the headspace screening of these samples are presented in Table 1.

TABLE 1
SOIL SCREENING RESULTS

Sample No.	Depth	HNu Reading (ppm)
SS-1E	8 feet	0.5
SS-1W	8 feet	150
SS-1B	11.0 feet	190

The materials in the excavation consisted of brown fine to medium grained sand to a depth of approximately 10 feet below grade. At 10 feet below grade, the material encountered was gray fine sand.

Halliburton NUS personnel reported that, during test pitting at other areas of the site, VOCs were commonly detected in soil samples collected from the test pits, often at increasing concentrations

with increasing depth. These observations were interpreted as being the result of former activities at the site, including reported spreading of flammable liquids on the ground and subsurface disposal of drummed material.

After excavation and removal of the tank, the excavation was backfilled with materials removed from around the tank and with additional fill from off-site.

The piping between the tank and the sumps adjacent to the fire training pit was also removed.. Stained soil was noted at the outfall of the sump, apparently from leakage at the seal between the pipe and the sump (Photo 5). The 8-inch PVC pipe was found at a depth of approximately 2-3 feet (Photo 6). No visual or olfactory evidence of leakage from this piping was noted. The outlet of the sump was sealed with concrete by Clean Harbors.

Halliburton NUS personnel collected soil and groundwater samples for laboratory analysis (Photos 3 & 4). A groundwater sample was collected from the tank excavation for analysis for the presence of volatile organic compounds (VOCs), Acid, Base/Neutral extractables (ABNs), pesticides & PCBs, and total Petroleum Hydrocarbons (TPH). A duplicate of this sample was also collected for analysis. A soil sample from the east and west sidewalls of the tank excavation were collected and two samples from the bottom of the excavation were collected for laboratory analysis. In addition. a soil sample was collected from the area surrounding the sump outlet. The soil samples were submitted for analysis for the presence of VOCs, Acid, Base/Neutral extractables (ABNs), Target Analyte List Metals, pesticides & PCBs, and total Petroleum Hydrocarbons (TPH). The samples were placed on ice and delivered under chain-of-custody documentation to Pace Incorporated in Portsmouth, New Hampshire for analysis. Refer to the Halliburton NUS report on this investigation for results of these analyses.

5.0 PRELIMINARY FINDINGS

The following preliminary findings are based on site observations and soil screening analysis:

1. Site observations indicate that a suspected small amount of waste liquid from the fire training pit was released into the surrounding environment in the past, as evidenced by stained soil around the outfall of the sump.

2. Soil samples collected from the bottom and west side of the tank excavation and screened for the presence of VOCs showed levels above 100 ppm (Table 1).

3. Evidence of soil and groundwater contamination was observed at the site, although no evidence of a release from the tank was observed. Some contaminated soil was observed at the outfall of the sump adjacent to the fire training pit. Soil and groundwater contamination at the site may be the result of past usage of the area for fire training activities.

4 No soil was removed from the site. The excavation was filled with material removed during excavation and with additional clean fill material brought to the site by truck.

5. Groundwater was observed on-site at a depth of approximately 10 feet below grade in the tank excavation. Groundwater flow direction was not determined in this investigation. A groundwater treatment system is reportedly being constructed adjacent to the site for treatment of contamination by VOCs. Monitoring wells are present on-site and will likely be monitored during groundwater remediation.

6. The tank and associated piping were removed and closed according to the requirements in MEDEP Chapter 695. The investigation being completed at the site by Halliburton NUS substantially complies with the site assessment requirements of Chapter 695.

6.0 RECOMMENDATIONS

The following recommendations are based on site observations and soil screening analysis:

Results of soil and groundwater analyses conducted by Halliburton NUS should be reviewed to determine soil and ground water quality in the vicinity of the tank and fire training pit. These data and additional data collected from investigation of the surrounding area should then be incorporated into any decisions regarding the on-going or future remedial efforts at the site.

Certification of Project Completion

PROJECT:	Brunswick Naval Air Station Fire Training Area Tank Removal Brunswick, Maine
PROJECT NO.:	CE94405
START DATE:	December 2, 1994
DATE OF COMPLETION:	December 2, 1994
CERTIFICATION:	The tank closure investigation and soil and groundwater sampling was completed in accordance with the applicable regulations and standard environmental industry practices.
Owner (or Agent):	Clean Harbors Environmental Services, Inc.
Excavation Contractor:	Clean Harbors Environmental Services, Inc.

The above referenced project has been completed and all records and documents contained herein are released.

Signed _____
Daniel P. Fenno, M.C.G
Hydrogeologist

_____
Dennis Giustra, P.E.

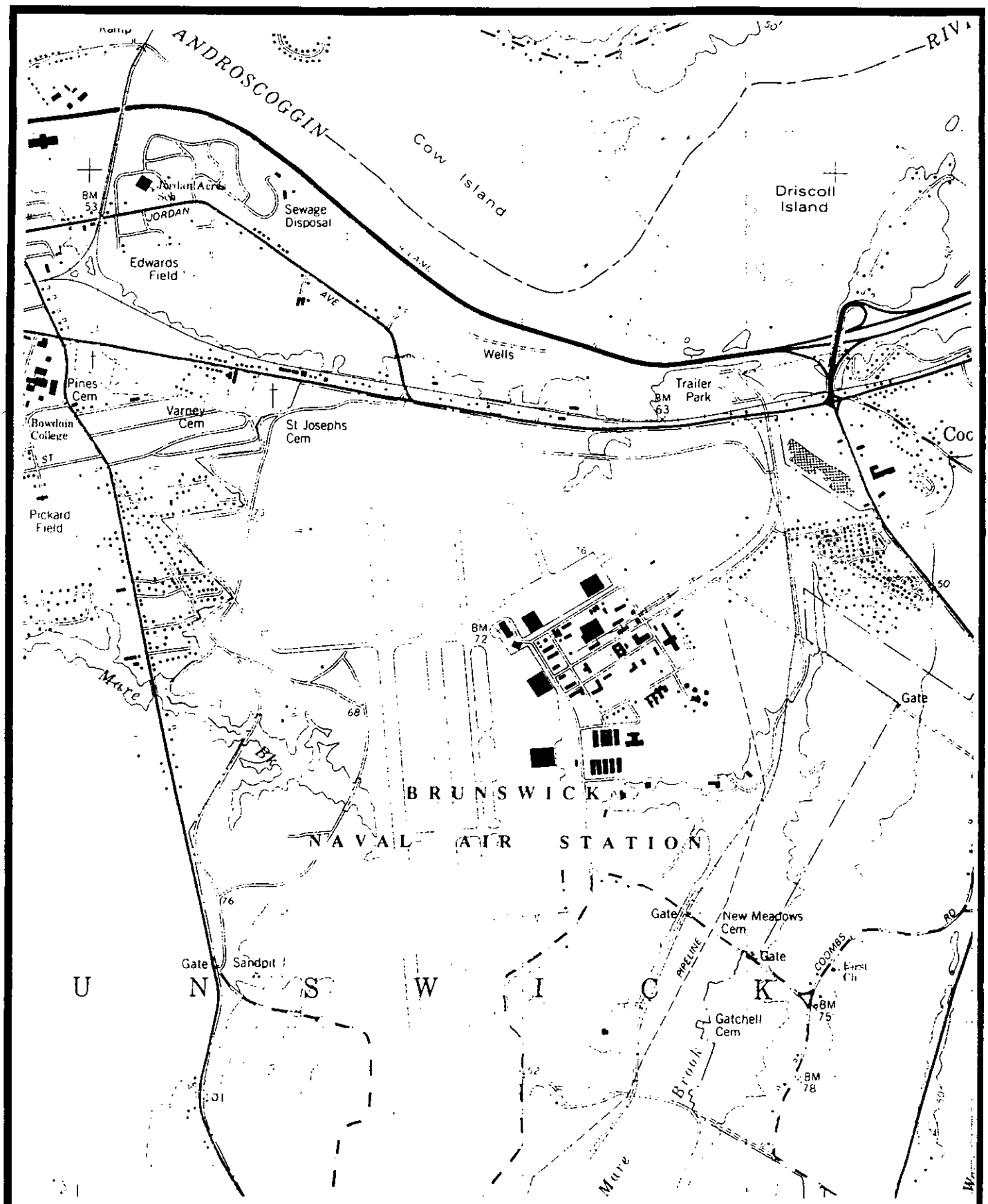


FIGURE 1
SITE LOCATION
FIRE TRAINING AREA
TANK REMOVAL
BRUNSWICK N.A.S., MAINE

PORTION OF BRUNSWICK, MAINE U.S.G.S
QUADRANGLE MAP SCALE 1:24,000

PROJECT NO. CE94405

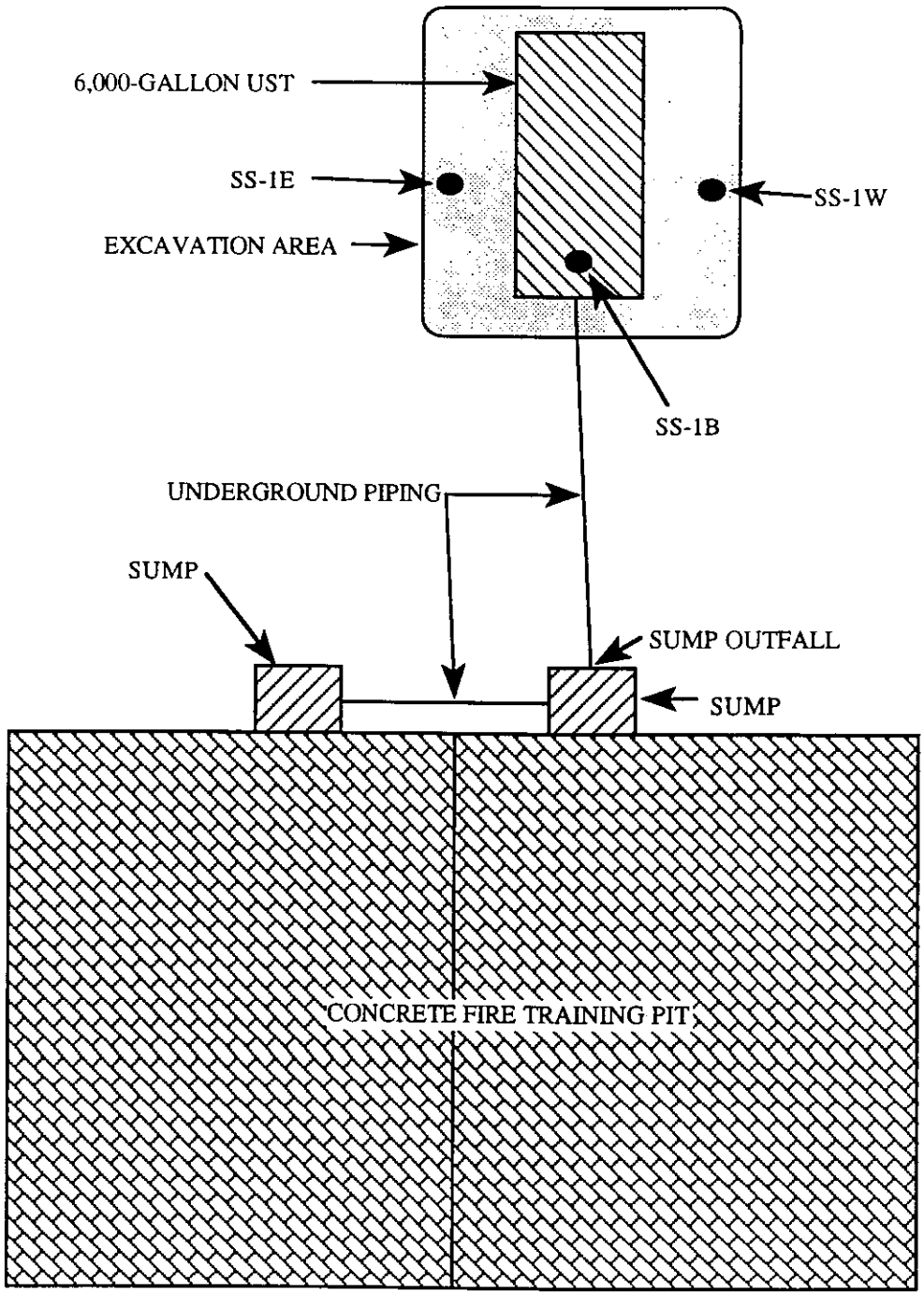


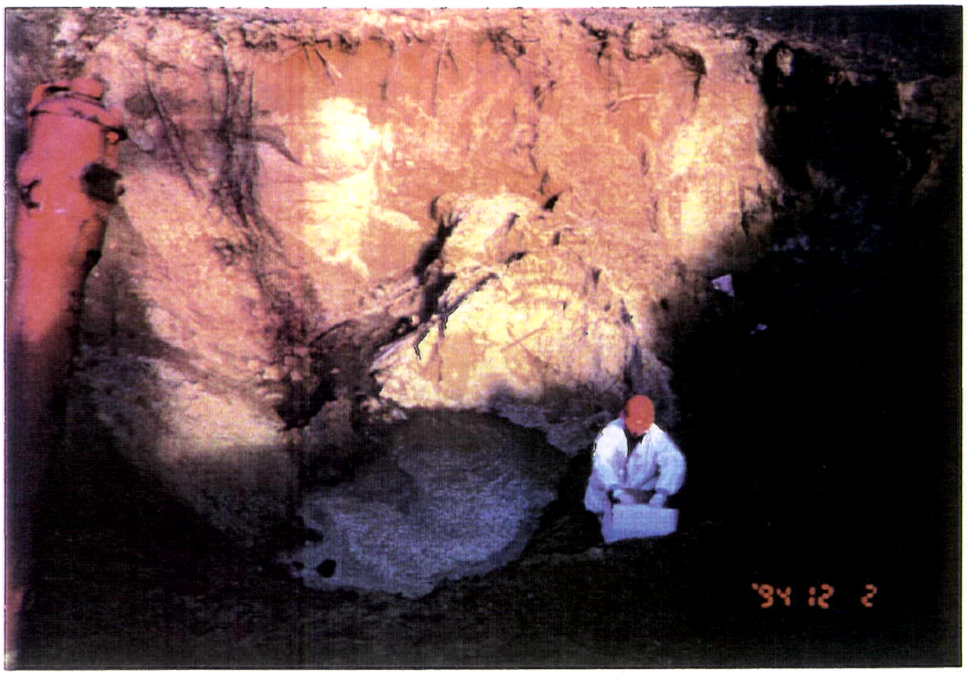
FIGURE 2
SITE SKETCH
FIRE TRAINING AREA
TANK REMOVAL
BRUNSWICK N.A.S., MAINE

NOT TO SCALE

PROJECT NO. CE94405

SCENE: Top of UST showing concrete pad, vent pipe & manway
SITE NAME: Brunswick N.A.S. Fire Training Area LOCATION: Brunswick, ME
FRAME NUMBER: 1 DATE: 12/2/94 SKY CONDITION: Cloudy

SCENE: Portion of 6,000 gallon fiberglass UST in excavation
SITE NAME: Brunswick N.A.S. Fire Training Area LOCATION: Brunswick, ME
FRAME NUMBER: 2 DATE: 12/2/94 SKY CONDITION: Cloudy



SCENE: Halliburton NUS personnel collection soil sample from tank excavation
SITE NAME: Brunswick N.A.S. Fire Training Area LOCATION: Brunswick, ME
FRAME NUMBER: 3 DATE: 12/2/94 SKY CONDITION: Cloudy

SCENE: Halliburton NUS personnel collecting groundwater sample from tank excavation
SITE NAME: Brunswick N.A.S. Fire Training Area LOCATION: Brunswick, ME
FRAME NUMBER: 4 DATE: 12/2/94 SKY CONDITION: Cloudy

SCENE: Outfall of sump adjacent to fire training pit. Note stained soil at outfall.
SITE NAME: Brunswick N.A.S. Fire Training Area **LOCATION:** Brunswick, ME
FRAME NUMBER: 5 **DATE:** 12/2/94 **SKY CONDITION:** Cloudy

SCENE: Piping from sump to tank being removed
SITE NAME: Brunswick N.A.S. Fire Training Area **LOCATION:** Brunswick, ME
FRAME NUMBER: 6 **DATE:** 12/2/94 **SKY CONDITION:** Cloudy