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ADDENDUM TO THE CONTAMINATION ASSESSMENT REPORT TANK SITE 425 NS MAYPORT FL
10/10/1999
BHATE ENVIRONMENTAL ASSOCIATES, INC.

NAVAL STATION MAYPORT
MAYPORT, FLORIDA
BHATE PROJECT NO: 9970058
BHATE COMPQAP NO:970052G

ADDENDUM TO THE CONTAMINATION ASSESSMENT REPORT TANK SITE 245 NAVAL STATION MAYPORT MAYPORT, FLORIDA

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 EAGLE DRIVE, POST OFFICE BOX 190010
NORTH CHARLESTON, SOUTH CAROLINA 29419-1910

Prepared by:

BHATE ENVIRONMENTAL ASSOCIATES, INC.
1608 13th AVENUE SOUTH
BIRMINGHAM, ALABAMA 35205
TELEPHONE: (205) 918-4000

September 10, 1999

Uday R. Bhate, P.G./P.E. Principal
Florida Registration Number 31619

UDAY R. BHATE
CERTIFICATE
No. 31619
STATE OF
FLORIDA
REGISTERED ENGINEER

Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists
1608 13th Avenue, South, Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

September 10, 1999

Commanding Officer
Attn: Code 1848
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
Post Office Box 190010
North Charleston, South Carolina 29419-1910

Attention: Ms. Beverly S. Washington

Subject: Addendum to the Contamination Assessment Report
Site UST-245
Naval Station Mayport
Mayport, Florida
Contract No. N62467-96-D-0976
BHATE Project No.: 9970058

Dear Ms. Washington:

Bhate Environmental Associates (BHATE) is pleased to submit a final copy the following addendum report summarizing a Contamination Assessment at the above referenced site. The addendum report addresses the comments received from the Florida Department of Environmental Protection (FDEP) within a letter dated June 22, 1998. A copy of the report has been submitted to the FDEP.

If you have any questions or need additional information, please contact us at your earliest convenience at 1 (800) 806-4001.

Respectfully Submitted,
BHATE ENVIRONMENTAL ASSOCIATES, INC.

Emmett A. Beers
Senior Project Manager

Uday R. Bhate, P.G./P.E.
Principal

UDAY R. BHATE
CERTIFICATE
No. 31619
STATE OF
FLORIDA
REGISTERED ENGINEER

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Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists
1608 13th Avenue, South, Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

September 10, 1999

Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blairstone Road
Tallahassee, FL 32399-2400

Attention: Mr. James H. Cason

Subject: Addendum to the Contamination Assessment Report
Site UST-245
Naval Station Mayport
Mayport, Florida
Contract No. N62467-96-D-0976
BHATE Project No.: 9970082

Dear Mr. Cason:

Bhate Environmental Associates (BHATE), on behalf of the Southern Division of the Naval Facilities Engineering Command, is pleased to submit the following addendum to the Contamination Assessment Report submitted in February 1998. The addendum report addresses the comments received from the Florida Department of Environmental Protection (FDEP) within a letter dated June 22, 1998.

Additional soil headspace screening was conducted to define the extent of soil contamination. Three additional monitoring wells were installed at the site. Soil and groundwater samples were collected and submitted for laboratory analyses. The results of the additional assessment activities have been evaluated and a proposed course of action for the site is provided within the addendum report.

If you have any questions or need additional information, please contact us at your earliest convenience at 1 (800) 806-4001.

Respectfully Submitted,
BHATE ENVIRONMENTAL ASSOCIATES, INC.

Emmett A. Beers
Senior Project Manager

Uday R. Bhate, P.G./P.E.
Principal

UDAY R. BHATE
CERTIFICATE No. 31619
STATE OF FLORIDA
REGISTERED ENGINEER

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CONTAMINATION ASSESSMENT REPORT
NAVAL STATION MAYPORT
UST-245
BEA PROJECT NO.: 9970058

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FDEP COMMENTS AND BHATE RESPONSE SUMMARY

Bhate Environmental, Inc. (Bhate) completed additional assessment activities at the subject site in February of 1999. The assessment activities consisted of soil and groundwater sampling near an underground storage tank (UST) location at Building 245 to supplement a site assessment report (SAR) prepared by Bhate in February of 1998. The Florida Department of Environmental Protection (FDEP) reviewed the SAR and requested additional assessment activities in a letter dated June 22, 1998. The following activities were requested by the FDEP to be included in a SAR Addendum.

FDEP Comment #1:

Tank 245 was a 2000 gallon underground fuel oil tank which was removed. At the time of closure, it is stated the Navy believed that both contaminated soil and groundwater were present. Contaminated soil was not removed but fuel oil supply and return piping lines were removed at the time of closure. Please submit a copy of the closure documentation.

Bhate Response:

The UST closure was conducted by G.B. Robbins, Inc. prior to Bhate's work on the project. A copy of a UST Closure Report prepared by G.B. Robbins, Inc. is included in Appendix E of the SAR addendum report.

FDEP Comment #2:

Soil borings obtained during the investigation are inadequate for determining the extent of soil contamination. Utilizing the general instructions (from "Storage Tank System Closure Assessment Requirements." February 1998- copy enclosed) for sampling requirements for storage tanks abandoned in place, obtain four soil borings around the tank, placed as close to the tank as possible with one of the borings in the center of the former tank location. If contamination is noted, conduct additional borings as required to sufficiently characterize the extent of contamination. Additionally, please obtain a soil sample for this location for laboratory analysis as required in Chapter 62-770, F.A.C. Please note that soil analytical samples of soil <u>must</u> be obtained during an assessment. Not less than one is required; more are required if contaminated soil is found. Please follow the guidance in Chapter 62-770 F.A.C. in "Guidelines for Assessment and Source Removal of Petroleum Contaminated Soil, May 1998," a copy of which I am enclosing. Please also note the different analytical requirements in Table 1 or Table II, depending on the type of contamination at the site, in this particular case, the requirements in Table I apply.

Bhate response:

Bhate prepared a work plan dated August 27, 1998 and a letter addendum dated September 14, 1998 that proposed soil sampling at four locations around the former UST and at one location along the product line. The work plan was approved by the FDEP in a letter dated October 9, 1998 (Appendix F).

Additional soil sampling did not show excessive soil contamination (OVA results >10 ppm) in soil samples collected from borings around the former UST during February of 1999. One sample (S-9B) was selected for laboratory analysis of Table 1 parameters in accordance with Chapter 62.770-600 (3)(e), F.A.C. The sample did not contain detectable concentrations of FL-PRO, BTEX, MTBE, or PAH (Reference Table 3 and Figure 3).

FDEP Comment #3:

Please obtain one soil boring near the end of Building 245 and along or in close proximity to the former piping location. If contamination is noted, obtain additional borings, sufficient to characterize any contamination should be obtained.

Bhate response:

Boring S-11 was advanced near the product line along the edge of a concrete pad during February of 1999. Excessive soil contamination was not detected in the soil samples at this location. Further review of site conditions indicated electrical transformers on the concrete pad that impeded access to Bhate's proposed sample location immediately adjacent to the building. Since soil contamination was not found at the edge of the concrete pad, further sampling through the concrete and near the transformers was not conducted (Reference Table 2 and Figure 3).

FDEP Comment #4:

Please observe the soil sampling requirements in Chapter 62-770, F.A.C. when conducting the soil borings.

Bhate response:

Soil samples were taken following the requirements in Chapter 62-770, F.A.C.

FDEP Comment #5:

Please install a shallow monitoring well near the center of the location of the former tank or, is significant soil contamination is noted in the new soil borings, install a shallow monitoring well in the center of the area of greatest contamination. Please install a shallow monitoring well approximately 25 feet northwest of monitoring well MW-4 and one approximately 25 feet south-southeast of the former tank location. These will enable better delineation of the groundwater contaminant plume. Please be aware that if the areal extent of soil contamination is significant, additional monitoring wells may be required, sufficient to delineate the extent of groundwater contamination. Please sample these wells and MW-4 for the appropriate parameters in Table I in Chapter 62-770, F.A.C., ensuring that the detection limits for compounds with regulatory guidelines or standards are low enough to allow the results to be utilized for determining the presence or absence of contamination. Please furnish a figure which depicts the area around Building 245, in order to help understand and evaluate the possible extent of groundwater contamination.

Bhate Response:

During February of 1999, monitoring wells MW-6 and MW-7 were installed at the locations requested by the FDEP to better define the extent of the groundwater contaminant plume. MW-8 was installed adjacent to the former UST to evaluate the source area. The analytical results for groundwater samples collected from the new and existing wells indicate the groundwater plume is adequately defined (Reference Table 4 and Figure 4).

Open beach areas are located to the north and east of Building 245. A parking lot is located to the west of the building. The building extends about 150 feet south of the former UST location.

FDEP Comment #6:

Detection limits for five semivolatile constituents in groundwater were above regulated limits. Additionally, TRPH was not determined in groundwater samples and lead was present above the Florida standard in monitoring wells MW-2 and MW-5. Please resample monitoring wells MW-2 and MW-5 for lead ensuring the use of a quiescent sampling technique. Please sample monitoring wells MW-1, MW-2, MW-3 and MW-5 for TRPH.

Bhate response:

Monitoring wells MW-2, MW-4, and MW-5 were resampled for lead along with three new wells on February 16, 1999. All wells were sampled for TRPH analysis. Well MW-4 and the new wells were also sampled for VOCs and PAH analysis

Well MW-7 was resampled for PAH and selected wells were resampled for ethylene dibromide (EDB) analysis on July 1, 1999.

As stated in the comment #5 response, the analytical results appear to indicate the contaminant plume is adequately defined.

FDEP Comment #7:

Please obtain a round of water level determination at all site monitoring wells and present a revised figure with the groundwater flow direction plotted on it. Please revise Figure 11 to show the new monitoring well locations and the contaminants from the ground water sampling and Figure 8 which illustrates the soil contamination regime.

Bhate response:

Figures 2 and 3 reflecting the new data are included in the attached SAR addendum.

FDEP Comment #8:

Please revise Figure 9 to illustrate the groundwater level at the time noted.

Bhate response:

A copy of the revised Figure 9 which includes water level data obtained in February 1999 is attached.

FDEP Comment #9:

Please submit a properly certified copy of the Assessment Report for Tank Site 1343. Please assure that all future and additional documents in this regard are also properly signed and sealed according to Chapter 62-770 (6), F.A.C. In lieu of submitting a complete report, you may submit a properly executed certification page, which references the site report, and I will insert the page into my copy.

Bhate response:

A copy of an executed certification page for the original report is attached.

Closing Comments

The extent of soil and groundwater contamination appears to be adequately defined. Based on the findings of the initial assessment and SAR addendum, a remedial action plan for soil and groundwater is recommended.

1.0 INTRODUCTION

1.1 Location and Area of Investigation

The subject site is located at the Mayport Naval Station in Mayport, Florida. A 2,000-gallon underground storage tank (UST) that had contained fuel oil was removed from a location adjacent to Building 245.

The UST was located adjacent to an electrical switch room and a wing of Building 245 (Figure 1). Piping from the UST traveled approximately 20 feet underground, before entering the building. The ground in the immediate area of the former UST pit is not covered. The surface between Building 245 and the switch room is covered with an eight (8) inch thick concrete pad. The ground surface at the assessment site is relatively flat, but slopes slightly northward. Access to the former UST location is restricted by a wooden board walkway and wooden fencing. Surface water drainage is through surface drainage ditches. Some water does remain ponded at several low areas near the site, following heavy rains.

1.2 Site History

In April 1995, UST-245 was removed by excavation. The fuel oil supply and return piping were also removed. A water sample collected from a temporary well was found to contain low concentrations of BTEX and PAH. A headspace analysis of soils from the pit detected elevated petroleum concentrations. Contamination was encountered along the north excavation wall, at depths of three and six feet. Contaminated soils were measured on the south, east, and west side walls, at depths of about six feet. No over excavation of contaminated soils was conducted. A copy of the UST closure report is found in Appendix E.

A replacement UST was installed at a location approximately twenty feet from the excavated UST. Double wall piping was also installed. The piping does not cross the old tank pit area. The new UST was installed with overfill protection and leak detection.

Bhate conducted a contamination assessment at the site during the period May through July of 1997. The following is a summary of site conditions based on the results of field and laboratory investigations made during the contamination assessment:

- Soil borings indicated soils beneath the site consist of well-sorted fine sands with shell fragments. These materials were found down to boring terminations at an approximate depth of 13.5 feet, bls.

- Groundwater was encountered at depths of approximately 3.5 to 6.0 feet bls, across the site. The direction of groundwater movement on the two dates of measurement appears to define a north-directed radial pattern, away from Building 245.

- An OVA-FID headspace concentration of 68 ppm was encountered in one soil sample collected from the one to three foot depth range. The sample was taken at a location near the former UST location. Excessively contaminated soils are apparently restricted to an area on the northern end of the UST.

- Laboratory analyses of soil samples collected from depths of 4.0 to 6.0 feet bls indicated FL-PRO concentrations above the regulatory limit of 2500 ppm These occurred at the Geoprobe sampling points nearest the former UST location (S-1, S-2 and S-3). Concentrations were below laboratory detection limits elsewhere.

- Laboratory analyses of groundwater samples from five permanent monitoring wells installed at the site indicated that only well MW-4 contained Benzene petroleum constituents above the Primary Guidance MCL limit of 1 ug/L (ppb). Naphthalene concentrations exceeded the newly established Chapter 62-770 F.A.C. standard of 20 ppb, in well MW-4.

- Lead concentrations in the groundwater exceeded the MCL, in wells MW-2 and MW-5.

A CAR was submitted to the Florida Department of Environmental Protection (FDEP). The FDEP subsequently requested additional sampling activities in a letter dated June 22, 1998 (Appendix F). The following report was prepared to address the FDEP comments.

2.0 SITE ASSESSMENT METHODS

Additional assessment activities conducted at the site included the installation of groundwater monitoring wells, soil headspace screening to define the extent of soil contamination, and the collection of soil and groundwater samples for laboratory analyses. The following is a summary of the site activities.

2.1 Soil Headspace Screening

To further define the extent of contamination, additional soil samples were collected at four locations around the former tank location indicated on Figure 1. Soil samples (S-9 through S-12) were collected at the specified intervals of one and three feet below the ground surface. The samples were collected above the groundwater capillary fringe.

The soil samples were collected utilizing a stainless steel hand auger. Following retrieval, each sample was examined for visual and olfactory evidence of petroleum hydrocarbons. They were transferred into 16-ounce decontaminated glass jars, which were half filled. Each sample was split into two jars, covered with tin foil, and brought to a temperature of between 20°C and 32°C. The readings were obtained within approximately five minutes of containment using a flame ionization detector (FID) to screen the soil gas headspace of each sample. Carbon filters were used with the FID, to aid in distinguishing naturally occurring methane from hydrocarbon vapors.

2.2 Laboratory Soil Sample Collection

One soil grab sample (S-9B) was collected for laboratory analyses from the area of the former tank location. Previous laboratory soil results, field observation, as well as OVA headspace concentrations were utilized in selecting the sample for laboratory analyses. Soil samples submitted for analyses were contained in laboratory supplied clean glass jars, sealed with Teflon-lined lids, and cooled to approximately 4°C. All soil samples were delivered under chain-of-custody to Specialized Assays Laboratory in Nashville, Tennessee for analyses. The soil sample was analyzed for the following parameters:

- Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B.
- Methyl tertiary-butyl ether (MTBE) by EPA Method 8021B
- Naphthalene and the 15 method-listed PAHs by EPA Method 8270C.
- Florida Petroleum Residual Organics (FL-PRO) by Method TRPH (FDEP).

2.3 Monitoring Well Installation

On February 12, 1999, three additional groundwater monitoring wells (MW-6, MW-7 and MW-8) were installed to define the extent of contamination at the site (Figure 2). Construction details of the monitoring wells are provided in Table 1 and on the monitoring well logs included as Appendix A.

The wells were installed using Direct Push Technology (DPT) to place a pre-packed well screen at depths of approximately 13 feet below the ground surface (bgs). The monitoring wells were installed using the Power Punch System. The Power Punch consists of a direct push tool with an expendable drive point. It is driven to the designated depth and a 10-foot section of 3/4-inch I.D. Schedule 40 PVC pre-packed well screen with .010 inch slots is inserted. The pre-packed screen consists of an outer fine mesh stainless steel screen, an inner slotted PVC pipe, with a 16 x 22-silica sand pack in between. The well screen is attached to ¾-inch I.D. Schedule 40 PVC riser pipe. After reaching the designated depth the Power Punch is retracted from the boring, exposing the well screen.

The remaining annular space around the screen was filled with 20/30-grade filter sand. Due to the shallow depth of groundwater, the sand pack extended less than 1.0 foot above the top of the well screen. The monitoring wells were completed with installation of a bentonite seal, approximately 0.5 to 0.75 feet in thickness above the screen interval. The bentonite pellets were hydrated with potable water for 30 minutes, prior to introducing grout into the annulus. A cement/bentonite grout was used to fill the annular space from the bentonite seal to the ground surface. The well was secured with a watertight locking cap. A flush-mount manhole cover labeled to indicate the presence of a monitoring well was installed in a two (2) foot by two (2) foot by four (4)-inch concrete pad, over the wells.

The monitoring wells were developed by purging with a peristaltic pump and Teflon tubing. The pump and tubing were decontaminated prior to well development. The well was developed until it was relatively clear of fine-grained sediment. The groundwater evacuated from each well will be disposed as non-hazardous petroleum contaminated water.

2.4 Monitoring Well Groundwater Sampling

Groundwater samples were collected on February 16, 1999, from the eight monitoring wells. Prior to sample collection, fluid from each monitoring well was examined for the presence of separate phase petroleum hydrocarbons (free product). To ensure representative groundwater samples, the wells were purged prior to sampling. A peristaltic pump and decontaminated Teflon tubing were used to purge each well. A slow purge (quiescent) technique was employed. Purging continued until three well volumes were removed, or until subsequent stabilization of field parameters had occurred. Copies of the Water Sampling Logs are provided in Appendix B. Water in each well was allowed to return to equilibrium depth, prior to sample collection.

The lead samples were collected utilizing the peristaltic pump. All other groundwater samples were collected using decontaminated Teflon bailers. Groundwater samples were placed in appropriate containers, cooled on wet ice, and transported under chain of custody to Specialized Assays Laboratory. Samples collected from the three newly installed wells (MW-6, MW-7 and MW-8) in addition to well MW-4 were analyzed for the following 62-770 F.A.C. Table I parameters:

- Benzene, toluene, ethylbenzene and xylenes (BTEX) and MTBE by EPA Method 8021B.
- Naphthalene and the 15 method-listed PAHs by EPA Method 8310.
- 1,2-dichloroethane and listed P.P. Volatile Organic Halocarbons by EPA Method 8021B.
- 1,2-dibromoethane (EDB) by EPA Method 8021B.
- Florida Petroleum Residual Organics (FL-PRO) - Method TRPH (FDEP).
- Total Lead by EPA Method 239.2

The wells were resampled for EDB on July 1, 1999 using EPA Method 8011. Well MW-7 was also resampled for PAH analysis.

All wells at the site were analyzed for FL-PRO during the February 1999 sampling event. Wells MW-2, MW-4 and MW-5, which had elevated lead results during the initial sampling event, were re-sampled for total lead. A duplicate sample (MW-9) was collected from MW-4.

Groundwater evacuated during development and sampling of the monitoring wells was contained in 55-gallon drums. The water will be disposed as non-hazardous petroleum contaminated waste.

2.5 Groundwater Flow Direction and Gradient

Groundwater levels were measured in all wells on February 16, 1999. Water-level measurements were obtained with an electronic water-level indicator. Groundwater measurements were taken to the nearest 0.01 foot and are referenced to a point on top of the well casing. Relative groundwater elevations were calculated and are summarized in Table 1, along with previous water-level measurements.

The water-level elevations on February 16, 1999 were used to prepare a water-table contour map (Figure 2). As indicated on the figure, the direction of groundwater migration is generally toward the southeast. The direction of groundwater migration is similar to previous dates of measurement. A radial flow from an area of the former UST location is indicated. The direction of contamination migration is generally to the southeast.

The groundwater flow direction is estimated from flow lines drawn perpendicular to the elevation contours. The hydraulic gradient of the groundwater was determined by calculating the difference in elevation between two data points on the map and dividing the elevation difference by the distance between the two points. The hydraulic gradient is less than 0.01 ft/ft.

3.0 RESULTS OF THE CONTAMINATION ASSESSMENT

3.1 Soil Analytical Results

The results of the OVA headspace analysis of soil samples taken during the contamination assessment are shown in Table 2. A review of screening results of the soil samples (S-9 through S-12) collected from one to three feet, bls, and above the groundwater table did not detect excessive soil contamination (OVA results > 10 ppm) at the four locations sampled (Figure 1).

Sample S-9B was selected for laboratory analysis. A summary of the laboratory analytical results for S-9B is presented in Table 3. Copies of the laboratory analytical reports and chain-of-custody records are provided in Appendix C. All of the parameters analyzed were less than the laboratory detection limits.

3.2 Monitoring Well Groundwater Analytical Results

A summary of laboratory analytical results for groundwater samples collected from all of the monitoring wells sampled at the site is presented in Table 4. Copies of the laboratory analytical reports and chain-of-custody records are provided in Appendix D.

Results of the groundwater analyses from the February 1999 sampling event did not indicate any contaminants of concern within the newly installed monitoring well (MW-6) located northwest of the UST. Naphthalene exceeded the regulatory MCL in wells MW-4, MW-7 and MW-8. Benzene exceeds the regulatory MCL of 1 ug/l in wells MW-4 and

MW-8. Ethylbenzene was detected at a concentration above the MCL of 30 ppb in MW-8. FL-PRO concentrations did not exceed the regulatory MCL of 5 mg/l within any of the groundwater samples collected at the site. The lead analytical results were below the laboratory report limit and do not exceed the regulatory MCL of 0.015 mg/l. Additional constituents were detected within groundwater samples from MW-4, MW-7 and MW-8 at concentrations below the regulatory MCLs. The direction of contaminant migration appears to be generally to the southeast.

The July 1999 PAH results for groundwater sampled from MW-7 did not indicate PAH above the method detection limits. EDB was not detected in any of the groundwater samples.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

BHATE maintained a stringent QA/QC program for all activities during data acquisition through report preparation. All appropriate Geoprobe sampling equipment was decontaminated by appropriate FDEP procedures. All soil and groundwater-sampling equipment was decontaminated with laboratory-grade detergent, appropriate solvent and alcohol wash and then rinsed with deionized and analyte-free water before each sample collection.

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary

The following is a summary of site conditions based on the results of field and laboratory investigations made during the contamination assessment:

- Groundwater was encountered at depths of approximately 3.9 to 6.0 feet bls. The direction of groundwater flow is in a radial flow direction to the southeast and northwest outward from the former UST and is consistent with previous measurements at the site.

- Elevated OVA-FID headspace concentrations (>10 ppm) were not detected in soil samples collected from locations adjacent to the former UST. Previous sampling had encountered a concentration of 68 ppm in one sample north of the former UST.

- Laboratory analysis of a soil sample collected adjacent to the former UST from a depth of three feet did not detect any chemicals of concern above the laboratory report limit.

- The groundwater analytical results for the February 1999 sampling event detected elevated concentrations of Naphthalene and Benzene within wells MW-4, MW-7 and MW-8. Resampling of well MW-7 on July 1, 1999, indicated a reduction in Naphthalene to below method detection limits. A petroleum sheen was observed in

groundwater purged from MW-8 on July 1, 1999. Elevated Ethylbenzene concentrations, above the regulatory MCL, were detected within the groundwater sample collected from MW-8. The lead analytical results from each of the samples were below the laboratory report limit. The contaminant plume has migrated generally to the southeast.

5.2 Conclusions

- Soil and groundwater contamination exists within an area at and extending outward from the former UST location. The former UST is the most probable point source.
- Soil, capillary fringe and groundwater have all been effected.
- FID headspace analysis indicates that excessively contaminated soils (> 10 ppm) within and above the capillary fringe are limited to the area immediately north of the former UST.
- Free product was not detected within any monitoring wells on site. A petroleum sheen was observed in groundwater sampled from MW-8 on July 1, 1999.
- Laboratory analyses of groundwater samples collected from the monitoring wells indicated that groundwater contamination exists at the site.
- The direction of groundwater movement has resulted in the migration of contaminants from the UST location primarily toward the southeast.
- The UST and associated piping have been replaced.

6.0 RECOMMENDATIONS

Based on field results and analysis of all the data obtained during the contamination assessment BHATE recommends the preparation of a Remedial Action Plan (RAP) for soil and groundwater cleanup at the subject site. BHATE has determined that:

- Excessively contaminated soil is present.
- Groundwater contamination is present and may be migrating from the UST location.

groundwater purged from MW-8 on July 1, 1999. Elevated Ethylbenzene concentrations, above the regulatory MCL, were detected within the groundwater sample collected from MW-8. The lead analytical results from each of the samples were below the laboratory report limit. The contaminant plume has migrated generally to the southeast.

5.2 Conclusions

- Soil and groundwater contamination exists within an area at and extending outward from the former UST location. The former UST is the most probable point source.
- Soil, capillary fringe and groundwater have all been effected.
- FID headspace analysis indicates that excessively contaminated soils (> 10 ppm) within and above the capillary fringe are limited to the area immediately north of the former UST.
- Free product was not detected within any monitoring wells on site. A petroleum sheen was observed in groundwater sampled from MW-8 on July 1, 1999.
- Laboratory analyses of groundwater samples collected from the monitoring wells indicated that groundwater contamination exists at the site.
- The direction of groundwater movement has resulted in the migration of contaminants from the UST location primarily toward the southeast.
- The UST and associated piping have been replaced.

6.0 RECOMMENDATIONS

Based on field results and analysis of all the data obtained during the contamination assessment BHATE recommends the preparation of a Remedial Action Plan (RAP) for soil and groundwater cleanup at the subject site. BHATE has determined that:

- Excessively contaminated soil is present.
- Groundwater contamination is present and may be migrating from the UST location.

7.0 CLOSING REMARKS

This Contamination Assessment Report has been prepared on behalf of the Department of Navy, Southern Division, for specific application to the subject site. Future environmental conditions at the subject site can change subject to alterations in operations and land usage. The opinions and findings of this report represent those conditions apparent at the time and dates the work was performed. New regulations, changes in surrounding land use, altered geologic conditions and other factors may also result in changed conditions.

The work described in this report has been conducted in accordance with current FDEP UST regulations and with standard industry practice. No other warranty is implied or expressed.

TABLE 1
MONITORING WELL CONSTRUCTION AND WATER LEVEL DATA
CONTAMINATION ASSESSMENT REPORT
NAVAL STATION MAYPORT
UST-245

WELL NO.	DATE	TOTAL DEPTHS OF WELL (ft. bls)	TOP OF CASING (ft. bls)	SURVEYED TOP OF CASING ELEVATION (msl)*	SCREENED INTERVAL DEPTH BLS (ft.)	DEPTH TO WATER FROM TOP OF CASING (ft.)	ELEVATION OF WATER TABLE (msl)*
245-MW-1	7/01/99	13.21	0.21	11.57	2.99-12.49	6.65	4.92
	2/16/99					5.82	5.75
	7/24/97					6.00	5.57
	6/10/97					5.15	6.42
245-MW-2	7/01/99	13.02	0.25	10.27	2.81-12.31	5.26	5.01
	2/16/99					4.52	5.75
	7/24/97					4.12	6.15
	6/10/97					3.82	6.45
245-MW-3	7/01/99	13.26	0.33	10.15	3.05-12.55	5.08	5.07
	2/16/99					4.33	5.82
	7/24/97					4.45	5.70
	6/10/97					3.68	6.47
245-MW-4	7/01/99	13.32	0.21	10.31	3.11-12.61	5.25	5.06
	2/16/99					4.51	5.80
	7/24/97					4.61	5.70
	6/10/97					3.32	6.99
245-MW-5	7/01/99	13.03	0.25	9.76	2.82-12.32	4.67	5.09
	2/16/99					3.94	5.82
	7/24/97					4.13	5.63
	6/10/97					3.84	5.92
245-MW-6	7/01/99	12.8	0.39	9.15	3.3–12.8	4.07	5.08
	2/16/99					3.46	5.69
245-MW-7	7/01/99	13.6	0.22	12.48	4.1– 3.1	7.57	4.91
	2/16/99					6.75	5.73
245-MW-8	7/01/99	13.6	0.37	10.07	4.1-13.1	5.40	4.67
	2/16/99					4.27	5.80

Notes:
bls = below land surface
*** = Elevations referenced to msl (mean sea level)**

TABLE 2
SUMMARY OF SOIL HEADSPACE ANALYSES
NAVAL STATION MAYPORT
UST 245

SAMPLE DESIGNATION	DEPTH (feet)	OVA HEADSPACE READING (ppm)	OVA HEADSPACE READING WITH CARBON FILTER (ppm)	CORRECTED OVA HEADSPACE READING (ppm)
S-1	1 - 3	68	< 1	68
S-2	1 - 3	0	NR	0
S-3	1 - 3	0	NR	0
S-4	1 - 3	0	NR	0
S-5	1 - 3	0	NR	0
S-6	1 – 3	0	NR	0
S-7	1 – 3	0	NR	0
S-8	1 - 3	0	NR	0
S-9A	1	0	NR	0
S-9B	3	0	NR	0
S-10A	1	0	NR	0
S-10B	3	0	NR	0
S-11A	1	0	NR	0
S-11B	3	0	NR	0
S-12A	1	0	NR	0
S-12B	3	0	NR	0

Notes:
ppm = parts per million
NR = not recorded
OVA = Organic Vapor Analyzer
Bold corrected values fall in the "excessively contaminated " range

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
UST 245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

PARAMETER	245-S-9B	RS
POLYNUCLEAR AROMATIC HYDROCARBONS (Method 8270C)		
DATE	2/11/99	
Naphthalene mg/kg	< 0.165	1000
Acenaphthene mg/kg	< 0.165	2300
Anthracene mg/kg	< 0.165	19000
Fluoranthene mg/kg	< 0.165	2800
Fluorene mg/kg	< 0.165	2100
Pyrene mg/kg	< 0.165	2200
Benzo(a)anthracene mg/kg	< 0.165	1.4
Benzo(a)pyrene mg/kg	< 0.165	0.1
Benzo(b)Fluoranthene mg/kg	< 0.165	1.4
Benzo(k)Fluoranthene mg/kg	< 0.165	15
Chrysene mg/kg	< 0.165	140
Dibenzo(a,h)Anthracene mg/kg	< 0.165	0.1
Indeno(1,2,3-c,d)pyrene mg/kg	< 0.165	1.5
Acenaphthylene mg/kg	< 0.165	1100
Benzo (g,h,I) perylene mg/kg	< 0.165	2300
Phenanthrene mg/kg	< 0.165	1900
PURGEABLE AROMATICS (8310B)		
Benzene mg/kg	< .05*	1.1
Ethylbenzene mg/kg	< .05*	240
Toluene mg/kg	< .05*	300
Total Xylenes mg/kg	< 0.1000*	290
MTBE mg/kg	< 0.2500*	350
PETROLEUM HYDROCARBONS (FL-PRO)		
FL-PRO mg/kg	< 5.0	350

Notes: * = Dilution factor was used to establish Report Limit
Shaded values indicate value exceeding regulatory standard
RS = Regulatory Standard
NR = Not Regulated

TABLE 4
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
UST-245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

POLYNUCLEAR AROMATIC HYDROCARBONS

ANALYTICAL METHOD	8270	8270	8270	8270	8310	8270	8310	8310		8310	RS
DATE	6/13/97	6/13/97	6/13/97	6/13/97	2/16/99	6/13/97	2/16/99	2/16/99	7/01/99	2/16/99	
PARAMETER	MW-1	MW-2	MW-3	MW-4		MW-5	MW-6	MW-7		MW-8	
Naphthalene ug/l	< 1.0	< 1.0	< 1.0	**33**	**37.0***	< 1.0	< 1.0	**32.8***	<1.1	**164***	20
2-Methylnaphthalene ug/l	< 1.0	< 1.0	< 1.0	42	< 10.1*	< 1.0	< 2.1	< 10.2*	NA	76.0*	NR
1-Methylnaphthalene ug/l	< 1.0	< 1.0	< 1.0	41	< 10.1*	< 1.0	< 21.	12.3*	NA	75.2*	NR
Acenaphthylene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	10.1*	< 1.0	< 2.1	< 10.2*	<2.1	< 42.1*	210
Acenaphthene ug/l	< 1.0	< 1.0	< 1.0	3.4	< 5.1*	< 1.0	< 1.0	< 5.1*	<1.1	<21.1*	20
Fluorene ug/l	< 1.0	< 1.0	< 1.0	3.9	0.5	< 1.0	< 0.2	1.3*	<0.2	4.8*	280
Phenanthrene ug/l	< 1.0	< 1.0	< 1.0	3.7	< 0.6	< 1.0	< 0.7	< 0.7	<0.7	< 13.5*	210
Anthracene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.2	< 1.0	< 0.7	< 0.7	<0.7	< 0.7	2100
Fluoranthene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2	0.3*	<0.2	0.4	280
Pyrene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.3	< 1.0	< 0.3	< 0.3	<0.3	0.4	210
Benzo(a)anthracene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 1.0	< 0.1	< 0.1	<0.1	< 0.1	0.2
Chrysene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	<0.1	< 0.2	5
Benzo(b)Fluoranthene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	<0.2	< 0.2	0.2
Benzo(k)Fluoranthene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	<0.2	< 0.2	0.5
Benzo(a)pyrene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	< 1.0	< 0.1	< 0.1	<0.1	< 0.1	0.2

TABLE 4
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
(CONTINUED)
UST-245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

POLYNUCLEAR AROMATIC HYDROCARBONS (Continued)

	MW-1	MW-2	MW-3	MW-4		MW-5	MW-6	MW-7		MW-8	RS
DATE	6/13/97	6/13/97	6/13/97	6/13/97	2/16/99	6/13/97	2/16/99	2/16/99	7/01/99	2/16/99	
Dibenzo(a,h)Anthracene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.3	< 1.0	< 0.3	< 0.3	<0.2	< 0.3	0.2
Indeno(1,2,3-c,d)pyrene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.4	< 1.0	< 0.4	< 0.4	<0.2	< 0.5	0.2
Benzo(g,h,i)perylene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 0.8	< 1.0	< 0.8	< 0.8	<0.8	< 0.8	210

TABLE 4
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
(CONTINUED)
UST-245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

PURGEABLE AROMATICS

ANALYTICAL METHOD	8020	8020	8020	8020	8021B		8020	8021B		8021B		8021B		8021B		RS
DATE	6/10/97	6/10/97	6/10/97	6/10/97	2/16/99	7/01/99	6/10/97	2/16/99	7/01/99	2/16/99	7/01/99	2/16/99	7/01/99	2/16/99	7/01/99	
	MW-1	MW-2	MW-3	MW-4			MW-5	MW-6		MW-7		MW-8		MW-9 MW-4 Duplicate		
Benzene ug/l	< 1.0	< 1.0	< 1.0	**6.5**	**1.8**	NA	< 1.0	< 1.0	NA	< 1.0	NA	**17.5**	NA	**1.4**	NA	1
Toluene ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 5.0	NA	<1.0	NA	40
Ethylbenzene ug/l	< 1.0	< 1.0	< 1.0	22	1.8	NA	< 1.0	< 1.0	NA	< 1.0	NA	**59.0**	NA	1.2	NA	30
Total Xylenes ug/l	< 1.0	< 1.0	< 1.0	18	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	7.5	NA	<1.0	NA	20
n-Butylbenzene ug/l	NA	NA	NA	NA	1.1	NA	NA	< 1.0	NA	2.1	NA	19.0	NA	<1.0	NA	NR
sec-Butylbenzene ug/l	NA	NA	NA	NA	2.3	NA	NA	< 1.0	NA	< 1.0	NA	15.0	NA	1.8	NA	NR
n-Propylbenzene ug/l	NA	NA	NA	NA	1.7	NA	NA	< 1.0	NA	< 1.0	NA	23.0	NA	<1.0	NA	NR
Naphthalene ug/l	NA	NA	NA	NA	**30.6**	NA	NA	< 1.0	NA	**36.4**	NA	**416.0**	NA	**24.1**	NA	20
4-Isopropyltoluene ug/l	NA	NA	NA	NA	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	5.5	NA	<1.0	NA	NR
1,2,4-Trimethylbenzene ug/l	NA	NA	NA	NA	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	45.5	NA	<1.0	NA	NR
Isopropylbenzene ug/l	NA	NA	NA	NA	1.6	NA	NA	< 1.0	NA	3.7	NA	25.0	NA	1.1	NA	NR
MTBE ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	<1.0	NA	35
EDB ug/l	NA	NA	NA	NA	< 1.0	<0.02	NA	< 1.0	<0.02	< 1.0	<0.02	< 5.0	<0.02	<1.0	<0.02	0.02
1,2-dichloroethane ug/l	NA	NA	NA	NA	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	<1.0	NA	3.0

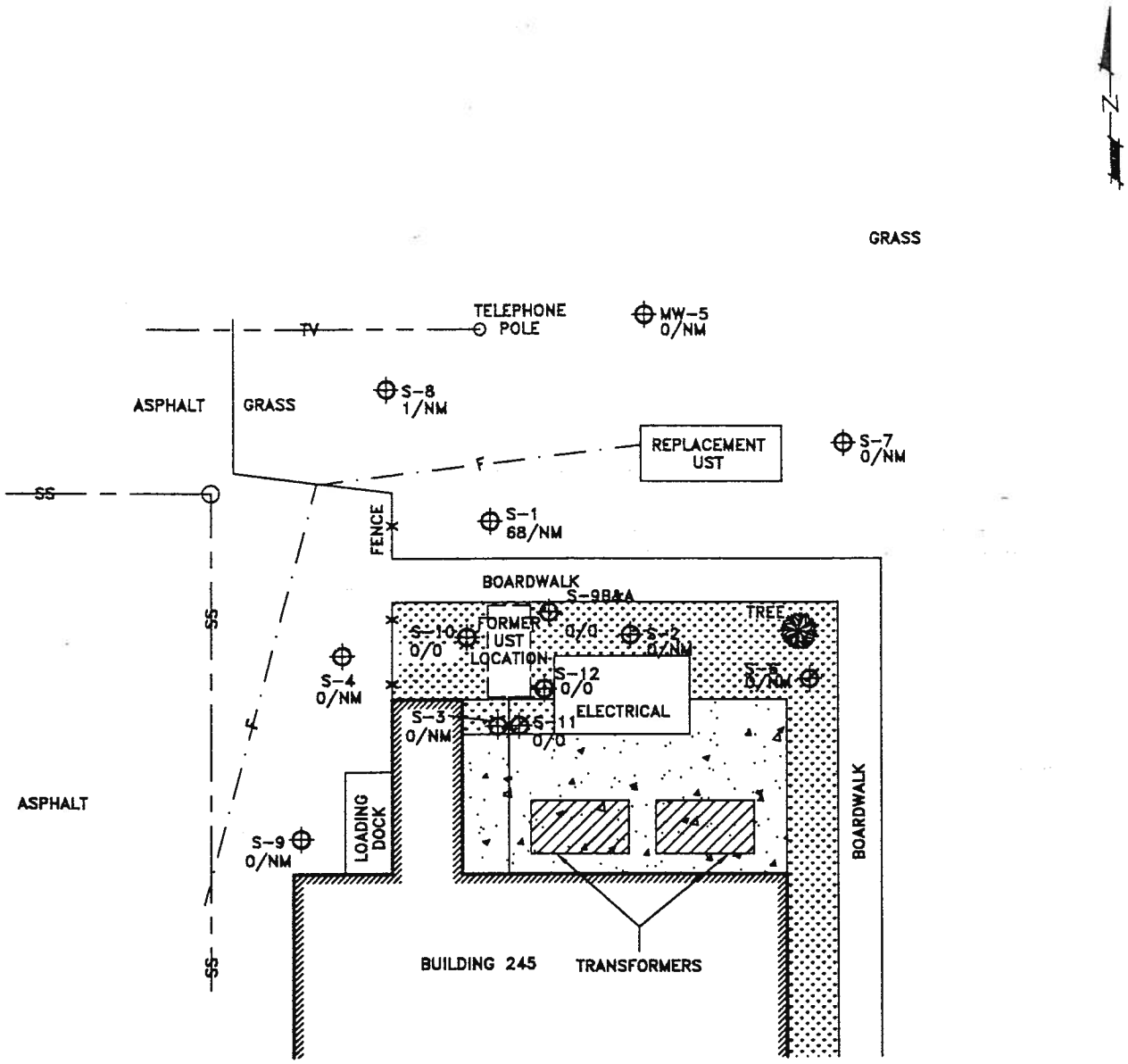
TABLE 4
SUMMARY OF MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
UST-245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6	MW-7	MW-8	RS
PETROLEUM HYDROCARBONS														
Date	6/10/97	2/16/99	6/10/97	2/16/99	6/10/99	2/16/99	6/10/97	2/16/99	6/13/97	2/16/99	2/16/99	2/16/99	2/16/99	
FL-PRO mg/l	NA	< 0.202	NA	< 0.202	NA	< 0.206	NA	0.790	NA	< 0.206	< 0.202	0.440	2.830	5.0
METALS														
Lead mg/l	0.014	NA	**0.032**	<.003	0.012	NA	0.011	< 0.0030 Duplicate (MW-9)	**0.026**	< .004	< .003	< .003	< .003	.015

Notes: Bold values indicate value exceeding regulatory standard
NA = Not Analyzed
RS = Regulatory Standard

NR = Not Regulated

* = Dilution factor used in determining analytical reporting limits



NOTE:
The information shown on this map was obtained from existing maps from previous investigations prepared by others. This information is depicted to provide visual aid within the context of this plan and should not be used as a sole reference in precise dimensioning of features indicated.

LEGEND

⊕	SOIL HEADSPACE BORING
0/4	OVA READING 1 FT. SAMPLE DEPTH 3 FT. SAMPLE DEPTH
NM	NOT MEASURED

-20' 0' 20'

GRAPHIC SCALE
1"=20'

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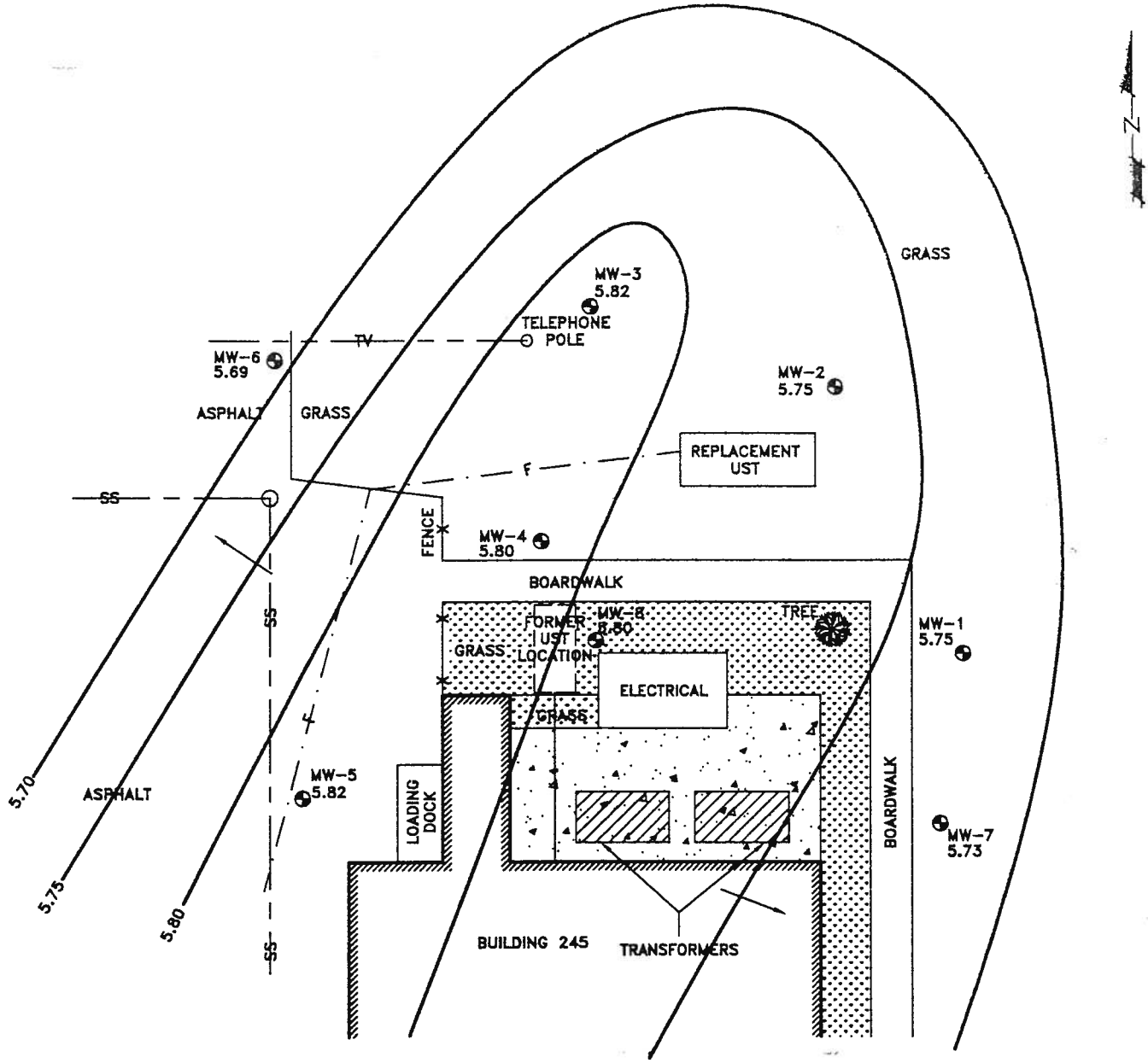
SOIL SCREENING MAP

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=20'	11/8/97	–
			DRAWING NO: 58F1

Contamination Assessment Report
UST 245

Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 1



LEGEND

——→	ESTIMATED GROUNDWATER FLOW DIRECTION
⊕	MONITORING WELL LOCATION
——	WATER TABLE ELEVATION CONTOUR (CONTOUR INTERVALS = 0.05 ft.)
5.73	WATER TABLE ELEVATION IN FEET ABOVE MEAN SEA LEVEL

NOTE:
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-20' 0' 20'

GRAPHIC SCALE
1"=20'

Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists

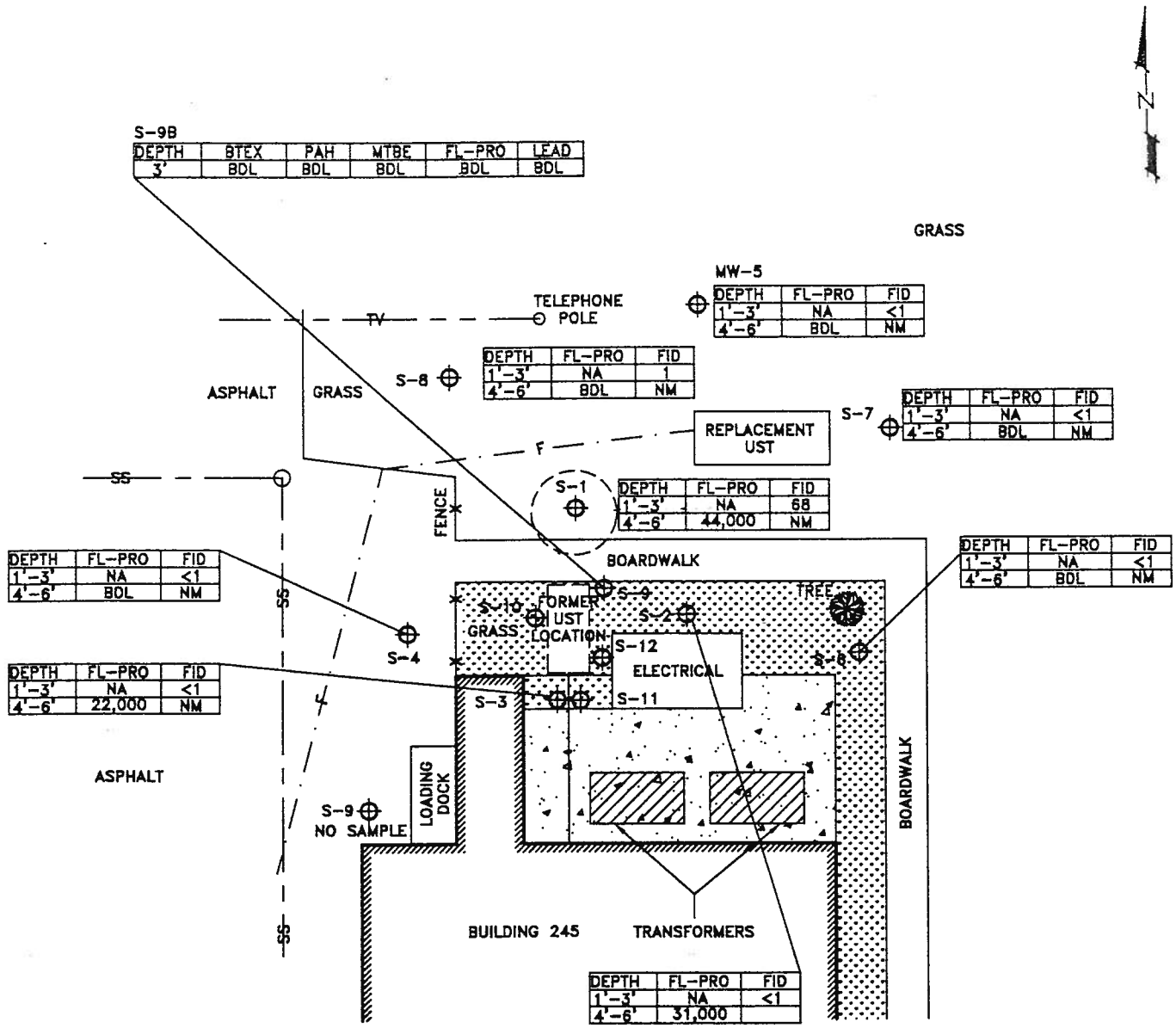
WATER TABLE CONTOUR MAP
2/16/99

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=20'	11/8/97	–
			DRAWING NO: F1

Contamination Assessment Report
UST 245

Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 2



NOTE:
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LEGEND

⊕	GEOPROBE SOIL AND GROOUNDWATER SAMPLING LOCATIONS
FL-PRO	FLORIDA PETROLEUM RESIDUAL ORGANICS IN PARTS PER MILLION (ppm)
FID	FLAME IONIZATION DETECTOR IN PARTS PER MILLION (ppm)
BDL	BELOW DETECTION LIMITS
NM	NOT MEASURED
— — — —	APPROXIMATE LIMIT OF SOIL CONTAMINATION

-20' 0' 20'

GRAPHIC SCALE
1"=20'

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SOIL ANALYTICAL RESULTS

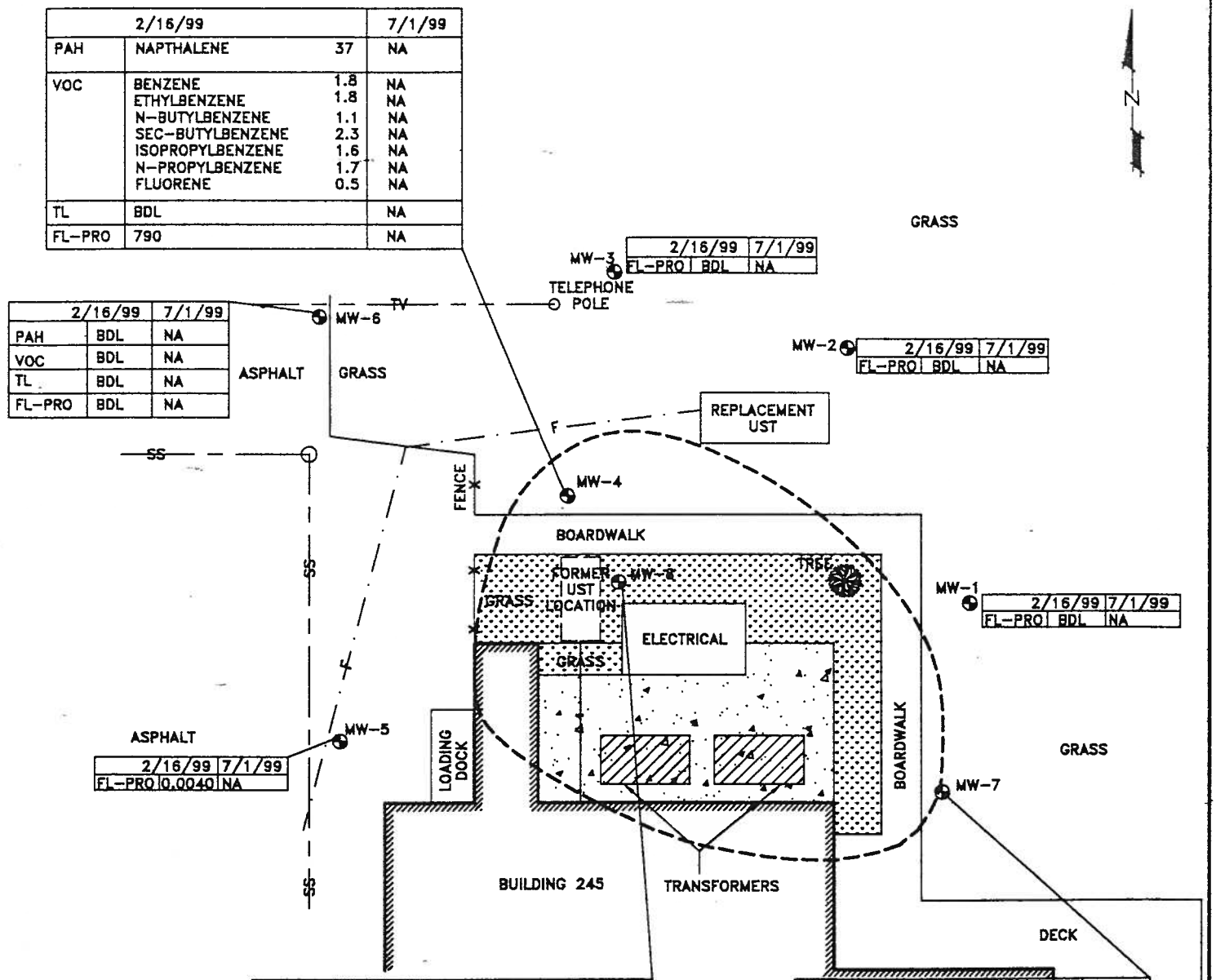
PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=20'	3/22/99	–
			DRAWING NO: F2B

Contamination Assessment Report
UST 245

Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 3

	2/16/99		7/1/99
PAH	NAPTHALENE	37	NA
VOC	BENZENE	1.8	NA
	ETHYLBENZENE	1.8	NA
	N-BUTYLBENZENE	1.1	NA
	SEC-BUTYLBENZENE	2.3	NA
	ISOPROPYLBENZENE	1.6	NA
	N-PROPYLBENZENE	1.7	NA
	FLUORENE	0.5	NA
TL	BDL		NA
FL-PRO	790		NA



	2/16/99		7/1/99
MW-3 FL-PRO	BDL		NA

	2/16/99	7/1/99
PAH	BDL	NA
VOC	BDL	NA
TL	BDL	NA
FL-PRO	BDL	NA

	2/16/99	7/1/99
MW-2 FL-PRO	BDL	NA

	2/16/99	7/1/99
MW-1 FL-PRO	BDL	NA

	2/16/99		7/1/99
PAH	NAPTHALENE	164	NA
	FLUORANTHENE	0.4	NA
	FLUORENE	4.8	NA
	PYRENE	0.4	NA
	1-METHYLNAPTHALENE	76.0	NA
	2-METHYLNAPTHALENE	75.2	NA
VOC	BENZENE	17.5	NA
	ETHYLBENZENE	59.0	NA
	XYLENES	7.5	NA
TL	BDL		NA
FL-PRO	2830		NA

	2/16/99		7/1/99
PAH	NAPTHALENE	32.8	BDL
	FLUORANTHENE	0.3	BDL
	FLUORENE	1.3	BDL
	1-METHYLNAPTHALENE	12.3	NA
VOC	N-BUTYLBENZENE	2.1	NA
	ISOPROPYLBENZENE	3.7	NA
TL	BDL		NA
FL-PRO	440		NA

	2/16/99	7/1/99
MW-5 FL-PRO	0.0040	NA

NOTE:
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-20' 0' 20'
GRAPHIC SCALE
1"=20'

LEGEND

●	MONITORING WELL LOCATION
— — —	APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION
VOC	VOLATILE ORGANIC COMPOUNDS IN PARTS PER BILLION (ppb)
PAH	POLYNUCLEAR AROMATIC HYDROCARBONS IN PARTS BILLION
TL	TOTAL LEAD IN PARTS PER MILLION (ppm)
BDL	BELOW DETECTION LIMITS
FL-PRO	IN PARTS PER MILLION (ppm)

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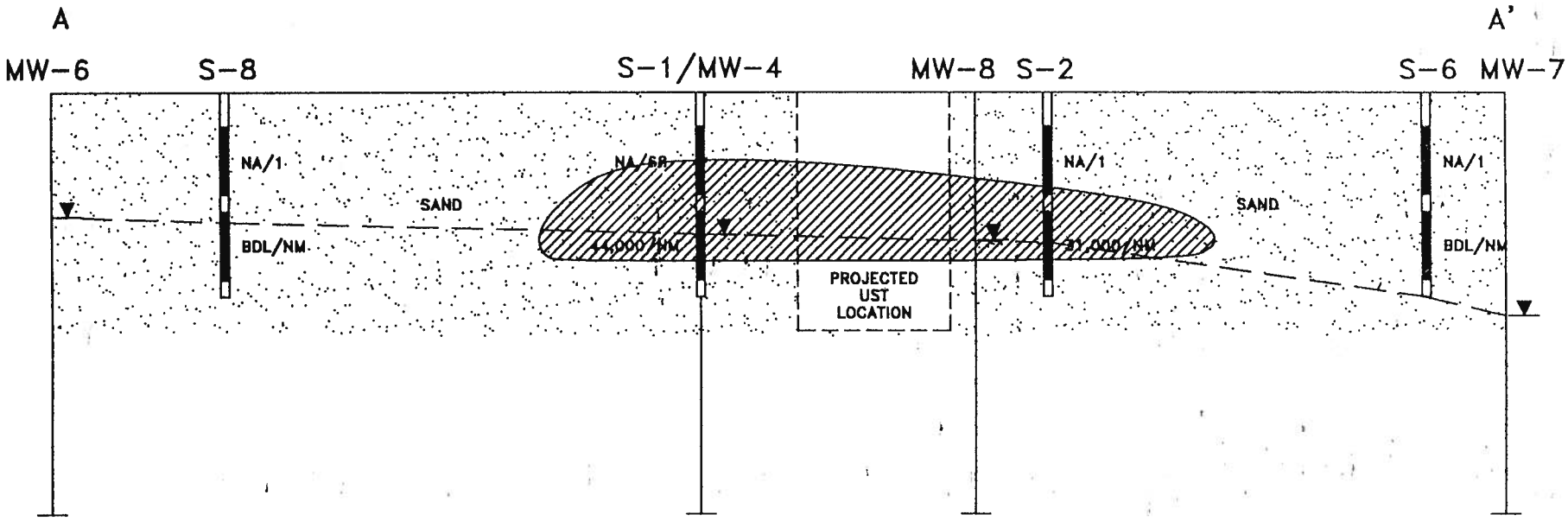
MONITORING WELL GROUNDWATER ANALYTICAL RESULTS

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	1"=20'	11/8/97	–
			DRAWING NO: F4

Contamination Assessment Report
UST 245

Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 4



LEGEND

FLPRO RESULTS/FID READING PARTS PER MILLION (ppm)

NM	NOT MEASURED
NA	NOT ANALYZED
BDL	BELOW DETECTION LIMIT
▼	WATER TABLE MEASUREMENT ON 2/16/99

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CROSS-SECTION A – A'

PROJECT NO.	SCALE	DATE	DRAWN BY:
9970058	V:1"=5' H:1"=10'	11/8/97	–
			DRAWING NO: F9

Contamination Assessment Report
UST 245
Department of the Navy
Naval Station Mayport
Mayport, Florida

Figure 9

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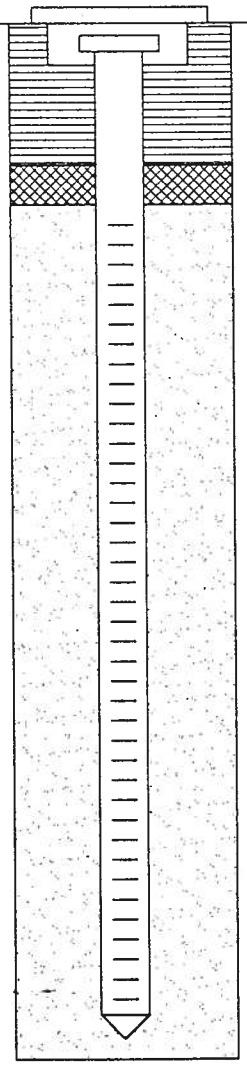
MONITORING WELL LOG

BORING NO: 245-MW-6
PROJECT NO: 9970058

PROJECT NAME: NAVSTA Mayport
CLIENT: U.S. Navy
PROJECT LOCATION: UST 245
DRILLING MTHD: Geoprobe
SAMPLE MTHD: Geoprobe Sample
DATE STARTED: 2/12/99
DATE FINISHED: 2/15/99
ENGINEER/GEOLOGIST: D. Trapp

ELEV.	LITHOLOGIC DESCRIPTION	DEPTH. (FT.)	SAMPLE	FID (ppm)	WATER LEVEL	WELL SECTION	ANNULAR AND WELL CONSTRUCTION MATERIALS
							FLUSH MOUNTED COVER WITH LOCKING CAP
	Asphalt surface Brown, silty fine sand	0.0					Approximately 2.25 feet of cement grout
	Tan, loose, dry, fine sand with shell fragments						Approximately .5 feet thick Bentonite Seal
		5.0					Pre packed sand material
		10.0					Well Screen Consists of a 10-foot section Schedule 40 0.010 inch factory slotted PVC screen (3/4-inch diameter)
	BORING TERMINATED @ 13.0 FEET BELOW GROUND SURFACE						
		15.0					



BOTTOM OF TEST BORING: 13.0' BGS

BGS = BELOW GROUND SURFACE

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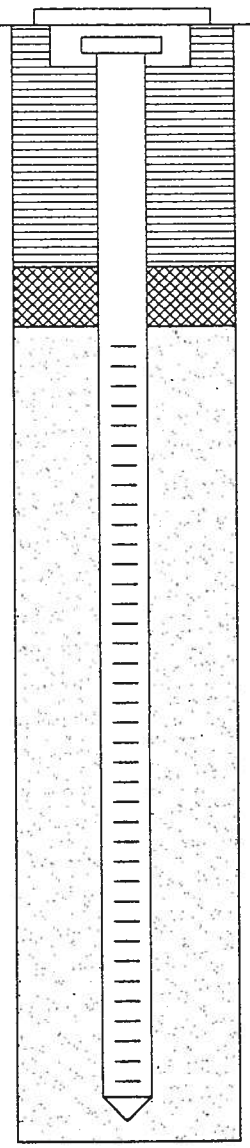
MONITORING WELL LOG

BORING NO: 245-MW-7
PROJECT NO: 9970058

PROJECT NAME: NAVSTA Mayport
CLIENT: U.S. Navy
PROJECT LOCATION: UST 245
DRILLING MTHD: Geoprobe
SAMPLE MTHD: Geoprobe Sample
DATE STARTED: 2/12/99
DATE FINISHED: 2/12/99
ENGINEER/GEOLOGIST: D. Trapp

ELEV.	LITHOLOGIC DESCRIPTION	DEPTH. (FT.)	SAMPLE	FID (ppm)	WATER LEVEL	WELL SECTION	ANNULAR AND WELL CONSTRUCTION MATERIALS
							FLUSH MOUNTED COVER WITH LOCKING CAP
	Grassed surface	0.0					
	Tan, loose, fine to coarse sand with shell fragments						Approximately 3.0 feet of cement grout
							Approximately .75 feet thick Bentonite Seal
		5.0					Pre packed sand material
		10.0					Well Screen Consists of a 10-foot section Schedule 40 0.010 inch factory slotted PVC screen (3/4-inch diameter)
	BORING TERMINATED @ 14.0 FEET BELOW GROUND SURFACE	15.0					



BOTTOM OF TEST BORING: 14.0' BGS

BGS = BELOW GROUND SURFACE

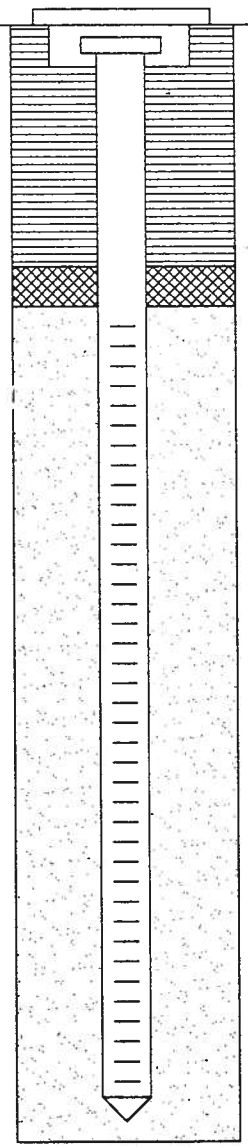
Bhate Environmental, Inc.
Environmental Engineers & Scientists

MONITORING WELL LOG

BORING NO: 245-MW-8
PROJECT NO: 9970058

PROJECT NAME: NAVSTA Mayport
CLIENT: U.S. Navy
PROJECT LOCATION: UST 245
DRILLING MTHD: Geoprobe
SAMPLE MTHD: Geoprobe Sample
DATE STARTED: 2/12/99
DATE FINISHED: 2/15/99
ENGINEER/GEOLOGIST: D. Trapp

ELEV.	LITHOLOGIC DESCRIPTION	DEPTH. (FT.)	SAMPLE	FID (ppm)	WATER LEVEL	WELL SECTION	ANNULAR AND WELL CONSTRUCTION MATERIALS
	Grassed surface, brown fine sand with organics	0.0					FLUSH MOUNTED COVER WITH LOCKING CAP
	Tan, loose, fine to coarse sand with shell fragments						Approximately 3.0 feet of cement grout
							Approximately 0.6 feet thick Bentonite Seal
		5.0					Pre packed sand material
		10.0					Well Screen Consists of a 10-foot section Schedule 40 0.010 inch factory slotted PVC screen (3/4-inch diameter)
	BORING TERMINATED @ 14.0 FEET BELOW GROUND SURFACE	15.0					



BOTTOM OF TEST BORING: 14.0' BGS

BGS = BELOW GROUND SURFACE

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.: UST 245	WELL NO.: MW-1	SAMPLE ID:	DATE: 2/16/99
SITE NAME: NAVSTA MAYPORT	SITE LOCATION:		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.90	DEPTH TO WATER (ft): 5.83	WELL CAPACITY (gal/ft): 0.17

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

1.20 = (-) x =

PURGE METHOD: Peristaltic (Quiesent)	PURGING INITIATED AT: 5:35	PURGING ENDED AT: 5:55
	PURGE RATE (gpm): ≈ 1 liter/min	TOTAL VOLUME PURGED (gal): 4 gallons

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
	0	6.39	67.0	1004 10.04 x100	TAN	None	cloudy/silty	
1.20	1.20	6.71	67.0	975				
2	2.40	6.58	66.6	992				
3	3.6	6.66	66.8	1007				

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.: UST 245	WELL NO.: MW-2	SAMPLE ID:	DATE: 2/16/99
SITE NAME: NAVSTA MAYPORT	SITE LOCATION: UST 245		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.77	DEPTH TO WATER (ft): 4.51	WELL CAPACITY (gal/ft): 0.17

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

1.40 = (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 2:34	PURGING ENDED AT: 2:50
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		7.40	71.2	542 5.42x100	Clear	None	Clear	
1.40		7.43	70.5	536				
2.80		7.41	70.3	539				
4.20		7.40	70.5	536	Clear	None	Clear	

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT: 2:56	SAMPLING ENDED AT: 2:57
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-3	SAMPLE ID:	DATE: 2/16/99
SITE NAME: NAVSTA Mayport		SITE LOCATION: UST 245	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.93	DEPTH TO WATER (ft): 4.33	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT:	PURGING ENDED AT:
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		6.95	7.16	486	Clear			
1.46		7.04	7.34	548				
2.92		7.13	7.38	5.38				
4.39		7.09	7.46	5.44				

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-4	SAMPLE ID:	DATE: 2/16/99
SITE NAME: NAVSTA Mayport		SITE LOCATION: UST 245	

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.99	DEPTH TO WATER (ft): 4.48	WELL CAPACITY (gal/ft): 0.17

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

1.45 = (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 4:15	PURGING ENDED AT: 4:45
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
0	0	5.92	70.0	835	Black	Petrolum.	Cloudy	
1.45	1.45	6.02	70.0	817				
2.90	2.90	6.19	70.1	804				
1.45	4.35	6.12	69.9	799				

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT: 1700	SAMPLING ENDED AT: 1707
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATIONS			WS-RS-1 SAMPLE PRESERVATION			MW-9 INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-5	SAMPLE ID:	DATE: 2/6/99
SITE NAME: NAVSTA MAYPORT	SITE LOCATION: UST 245		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.78	DEPTH TO WATER (ft): 3.94	WELL CAPACITY (gal/ft): 0.17

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1:03
	PURGE RATE (gpm): ~1 liter/min	TOTAL VOLUME PURGED (gal): 5 gal

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		6.98	76.0	636	TAN	None	Cloudy	
1.50		7.12	75.3	877	Clear	None	Clear	
3.00		7.08	75.2	820				
4.5		~~8.76~~ 7.06	72.2	816				

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S) Dewey Tyson	
SAMPLING METHOD(S):	SAMPLING INITIATED AT: 1318	SAMPLING ENDED AT: 1318
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-6	SAMPLE ID:	DATE: 2-16-99
SITE NAME: NAVSTA MAYPORT	SITE LOCATION: UST 245		

PURGE DATA

WELL DIAMETER (in): 1" OD/3/4"	TOTAL WELL DEPTH (ft): 14 ft	DEPTH TO WATER (ft): 3.39	WELL CAPACITY (gal/ft): 0.03

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 1327	PURGING ENDED AT:
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		7.27	70.3	621	Lt Cloudy	None	Silty	
.32		7.20	70.3	642				
~~0.64~~ 1.0		7.21	70.2	610				
~~0.96~~ 2.0		7.33	70.9	655				
3.0		7.28	70.9	659	Clear	None	Clear	

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT: 14:08	SAMPLING ENDED AT: 1412
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-7	SAMPLE ID:	DATE: 2/16/99
SITE NAME: NAVSTA Mayport	SITE LOCATION: US 245		

PURGE DATA

WELL DIAMETER (in):	TOTAL WELL DEPTH (ft):	DEPTH TO WATER (ft): 6.73	WELL CAPACITY (gal/ft): 0.03

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

0.22 = (-) x =

PURGE METHOD: Peristaltic	PURGING INITIATED AT:	PURGING ENDED AT: 6:25
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		6.71	66.0	775	Brown	Sl. odor ~~Waste~~	Silty/Cloudy	
1	1.0	6.97	67.3	838				
2	2.0	6.82	68.0	858				
3	2.5	7.09	68.1	856				
4	3.0	6.67	68.4	869				
5	3.5	6.95	68.3	873				

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: 6:45

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

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FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-8	SAMPLE ID:	DATE: 2/10/99
SITE NAME: NAVSTA MAYPORT		SITE LOCATION: UST 245	

PURGE DATA

WELL DIAMETER (in):	TOTAL WELL DEPTH (ft): 13.5	DEPTH TO WATER (ft): 4.32	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (-) x = .

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 0852	PURGING ENDED AT:
	PURGE RATE (gpm):	TOTAL VOLUME PURGED (gal):

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
		6.87	68.4	953	Gray	Pet odor	Silty	
	1.0	6.98	69.9	948				
	2.0	7.02	70.0	888				
	3.0	7.17	69.7	828				
	4.0	7.07	70.3	868	Clear	Pet odor		

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT: 0917	SAMPLING ENDED AT: 0940

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

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Product sheen observed on samples collected from well

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-4	SAMPLE ID: MW-4	DATE: 7/1/99
SITE NAME: Magnet NAS	SITE LOCATION: UST - 245		

PURGE DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 13.32	DEPTH TO WATER (ft): 5.25	WELL CAPACITY (gal/ft): .16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (13.32 - 5.25) x .16 = 1.29

PURGE METHOD: Peristaltic Pump	PURGING INITIATED AT: 17:15	PURGING ENDED AT: 17:45
	PURGE RATE (gpm): .2 gpm	TOTAL VOLUME PURGED (gal): 4 gallons

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
1	1.3	6.71	26.5	.614	Clear	Sulfur	Clear	DO: 10.31
2	2.6	6.76	26.3	.602				10.10
3	4.0	6.79	26.0	.624				9.78

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

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DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-6	SAMPLE ID: MW-6	DATE: 7/1/99
SITE NAME: Magnet UAI	SITE LOCATION: UST-245		

PURGE DATA

WELL DIAMETER (in): .75	TOTAL WELL DEPTH (ft): 12.8	DEPTH TO WATER (ft): 4.07	WELL CAPACITY (gal/ft): .026

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (12.8 - 4.07) x .026 = .23 gal

PURGE METHOD: Peristaltic Pump	PURGING INITIATED AT: 16:50	PURGING ENDED AT: 17:10
	PURGE RATE (gpm): .2 gpm	TOTAL VOLUME PURGED (gal): 2

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
4	1	7.45	27.6	.533	Clear	Sewer	Clear	DO = 9.96
6	1.5	7.25	26.7	.464				10.35
8	2	7.15	26.5	.461				10.29

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

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DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-7	SAMPLE ID: MW-7	DATE: 7/1/99
SITE NAME: Moffett NAS		SITE LOCATION: UST-245	

PURGE DATA

WELL DIAMETER (in): .75	TOTAL WELL DEPTH (ft): 13.6	DEPTH TO WATER (ft): 7.57	WELL CAPACITY (gal/ft): .026

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) x WELL CAPACITY =

= (13.6 – 7.57) x .026 = .16

PURGE METHOD: Peristaltic Pump	PURGING INITIATED AT: 18:10	PURGING ENDED AT: 18:20
	PURGE RATE (gpm): .2 gpm	TOTAL VOLUME PURGED (gal): 1

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
2	.3	6.92	24.4	.783	Clear	Sl. Pet.	Clear	DO = 9.38
4	.6	6.89	24.0	.784				9.34
6	1	6.90	23.9	.859				9.17

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

FLORIDA

DEP Form # 62-770.900(3)
Form Title: Petroleum or Petroleum Products Water Sampling Log
Effective Date: September 23, 1997

Petroleum or Petroleum Products Water Sampling Log

FDEP FACILITY NO.:	WELL NO.: MW-8	SAMPLE ID: MW-8	DATE: 7/1/99
SITE NAME: Meridian NAS		SITE LOCATION: US - 245	

PURGE DATA

WELL DIAMETER (in): .75	TOTAL WELL DEPTH (ft): 13.6	DEPTH TO WATER (ft): 5.40	WELL CAPACITY (gal/ft): .026

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) x WELL CAPACITY =

= (13.6 - 5.40) x .026 = 0.21

PURGE METHOD: Peristaltic	PURGING INITIATED AT: 17:50	PURGING ENDED AT: 18:40
	PURGE RATE (gpm): .2 gpm	TOTAL VOLUME PURGED (gal): 1 gal

WELL VOLS. PURGED	CUMUL. VOLUME PURGED (gal)	pH	TEMP. (°C)	COND. (µmhos)	COLOR	ODOR	APPEARANCE	OTHER
2	.4	6.62	26.3	.679	light green	Sl. Diesel	Clear	DO 9.45
3	.6	6.61	26.2	.661				9.38
5	1	6.72	25.9	.650				9.40

SAMPLING DATA

SAMPLED BY / AFFILIATION	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:

FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATIONS			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (ml)	FINAL pH	

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)

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NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896
08 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

roject: 9970058
roject Name: NAVSTA MAYPORT/UST 245
mpler: DEWEY TRAPP

Lab Number: 99-A21547
Sample ID: S-9B
Sample Type: Soil
Site ID:

Date Collected: 2/11/99
Time Collected: 14:20
Date Received: 2/16/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Benzene	ND	mg/kg	0.0500	0.0010	50	2/18/99	6:31	M.Himelick	8021B	9560
Toluene	ND	mg/kg	0.0500	0.0010	50	2/18/99	6:31	M.Himelick	8021B	9560
Ethylbenzene	ND	mg/kg	0.0500	0.0010	50	2/18/99	6:31	M.Himelick	8021B	9560
Xylenes, total	ND	mg/kg	0.1000	0.0010	50	2/18/99	6:31	M.Himelick	8021B	9560
MTBE	ND	mg/kg	0.2500	0.0050	50	2/18/99	6:31	M.Himelick	8021B	9560
TPH-High (Florida Pro)	ND	mg/kg		5.0		2/20/99	12:16	J.Jacobs	FDEP	
Naphthalene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Acenapthene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Anthracene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Fluoranthene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Fluorene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Pyrene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Benzo(a)anthracene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Benzo(a)pyrene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Benzo(b)fluoranthene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Benzo(k)fluoranthene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Chrysene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Dibenzo(a,h)anthracene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Acenapthylene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Benzo(g,h,i)perylene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
Phenanthrene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
1-Methylnapthalene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
2-Methylnapthalene	ND	mg/kg	0.165	0.165	1	2/22/99	15:34	M.Goodrich	8270C	8446
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	2/19/99	9:35	M. Cauthen	CLP	6960

ND = Not detected at the report limit.

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ANALYTICAL REPORT

Laboratory Number: 99-A21547
Sample ID: S-9B

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	30.0 gm	1.0 ml	2/20/99	J.Jacobs	3550
BTX Prep	4.9 g	5.0 ml	2/11/99	M.Hinelick	5035

Surrogate	% Recovery	Target Range
surr-a,a,a-Trifluorotoluene	106.	50. - 150.
surr-o-Terphenyl	99.	62. - 109.
Fla Pro Surr., C-35 hydrocarbon	95.	60. - 118.
surr-Nitrobenzene-d5	59.	20. - 110.
surr-2-Fluorobiphenyl	62.	18. - 110.
surr-Terphenyl d14	101.	27. - 128.

Report Approved By: T.J. Duello Report Date: 2/23/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

Laboratory Certification Number: HRS-E87358

BHATE
Environmental Engineers and Scientists

1608 13th Avenue South
Birmingham, Alabama 35205
(205) 918-4000 (FAX) (205) 918-4050

5896 131340

CHAIN-OF-CUSTODY

NO.: 00001
Page: 1 of 4

PROJECT NO.: 9970058
PROJECT NAME: NAVSTA MAYPORT / UST 245
P.O. NO.:
LAB DESTINATION: SPECIALIZED ASSAYS
SAMPLER(s) NAME: DEWEY TRAPP / JIM TORCIVIA
TITLE:

Preserved (Code): F A A
Iced (yes/no): Y Y Y

Code: A – None; B – HNO3; C – H_2SO_4; D – NaOH; E – HCl; F – Sodium Bisulfate

Lab Code – for Lab use only	Yr. / Date	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID	OTHER NON-AQUEOUS LIQUID	CONTAINERS No.	Volume	Type	TEST: BTEX+MTBE METHOD: (8020)	TEST: PAH METHOD: (8270)	TEST: TRPH METHOD: FL PRO.	TEST: METHOD:	TEST: METHOD:	REMARKS
21547	2/11/99	1420		✓	S-9B	☒	☐	☐	☐	2 1 1 1	40ml 500ml 1l 1l	GA P G G	✓	✓	✓			
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Dewey Trapp	2/15/99	1730	Released to FedEx		
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:
			[signature]	2/16/99	900

LAB COMMENTS
4°C

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab copy PINK COPY - Working File

F:\DWG\BLOCK\BCHAIN

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ANALYTICAL REPORT

PHATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23652
Sample ID: MW-1
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 17:00
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	202.	100.	1	2/22/99	19:30	K.Phelps	FDEP	405

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Fla Pro	990. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	106.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	101.	55. - 118.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

MATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23645
Sample ID: MW-2
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 14:57
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

ATE ENVIRONMENTAL, INC. 5896
608 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 9970058
oject Name: NAVSTA MAYPORT/UST 245
mpler: DEWEY TRAPP

Lab Number: 99-A23653
Sample ID: MW-2
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 14:57
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	202.	100.	1	2/22/99	20:00	K.Phelps	FDEP	405

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Fla Pro	990. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	111.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	103.	55. - 118.

Report Approved By: J Mitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896
608 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23654
Sample ID: MW-3
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 11:45
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	206.	100.	1	2/22/99	20:29	K.Phelps	FDEP	405

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Fla Pro	970. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	112.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	105.	55. - 118.

Report Approved By: JMitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23650
Sample ID: MW-4
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 17:07
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
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ANALYTICAL REPORT

PHATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23657
Sample ID: MW-4
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 17:07
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	790.	ug/l	208.	100.	1	2/22/99	21:27	K.Phelps	FDEP	405
Naphthalene	37.0	ug/l	5.1	1.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
Acenapthene	ND	ug/l	5.1	1.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluorene	0.5	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Pyrene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(b)Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(k)Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	10.1	2.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Moorbakhsh	8310	1038
Phenanthrene	ND	ug/l	0.6	0.6	1	2/23/99	21:43	Moorbakhsh	8310	1038
1-Methylnapthalene	ND	ug/l	10.1	2.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
2-Methylnapthalene	ND	ug/l	10.1	2.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	1.8	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
n-Butylbenzene	1.1	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
sec-Butylbenzene	2.3	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Ethylbenzene	1.8	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Isopropylbenzene	1.6	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Naphthalene	30.6	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
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ANALYTICAL REPORT

Laboratory Number: 99-A23657
Sample ID: MW-4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	1.7	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	5.0	5.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/23/99	19:21	T McCollum	8021B	9070

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ANALYTICAL REPORT

Laboratory Number: 99-A23657
Sample ID: MW-4

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	990. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	960. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	103.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	101.	85. - 118.
PID Surr., a,a,a-trifluorotoluene	100.	80. - 150.
Hall Surr., chloroprene	88.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	74.	59. - 117.
PAH Surr., p-terphenyl d14	70.	20. - 140.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896
LOB 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23655
Sample ID: MW-5
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 13:18
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	206.	100.	1	2/22/99	20:58	K.Phelps	FDEP	405

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
Fla Pro	970. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., M-Terphenyl	111.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	106.	55. - 118.

Report Approved By: J.D. Mitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896
08 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

roject: 9970058
oject Name: NAVSTA MAYPORT/UST 245
npler: DEWEY TRAPP

Lab Number: 99-A23646
Sample ID: MW-5
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 13:18
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	0.0040	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

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Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23647
Sample ID: MW-6
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 14:16
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

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Johnny A. Mitchell, Dir. Technical Services
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ANALYTICAL REPORT

SHATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23648
Sample ID: MW-7
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 18:45
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

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ANALYTICAL REPORT

ATE ENVIRONMENTAL, INC. 5896
608 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23649
Sample ID: MW-8
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 9:40
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: Johnny Mitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
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ANALYTICAL REPORT

ATE ENVIRONMENTAL, INC. 5896
608 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23651
Sample ID: MW-9
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 10:00
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Report Approved By: _____ Report Date: 2/27/99

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Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

PHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23658
Sample ID: MW-6
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 14:12
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	202.	100.	1	2/22/99	21:56	K.Phelps	FDEP	405
Naphthalene	ND	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenapthene	ND	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluorene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Pyrene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	2.1	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Moorbakhsh	8310	1038
Phenanthrene	ND	ug/l	0.7	0.6	1	2/23/99	21:43	Moorbakhsh	8310	1038
1-Methylnapthalene	ND	ug/l	2.1	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
2-Methylnapthalene	ND	ug/l	2.1	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
n-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
sec-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Ethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Isopropylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Naphthalene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070

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ANALYTICAL REPORT

Laboratory Number: 99-A23658
Sample ID: MW-6

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	5.0	5.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/21/99	3:10	T McCollum	8021B	9070

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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23658
Sample ID: MW-6

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND = Not Detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	990. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., B-Terphenyl	96.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	100.	55. - 118.
FID Surr., a,a,a-trifluorotoluene	99.	50. - 150.
Hall Surr., chloroprene	89.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	81.	59. - 117.
PAH Surr., p-terphenyl d14	54.	20. - 140.

Report Approved By: JMitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

GATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23659
Sample ID: MW-7
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 18:45
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	440.	ug/l	204.	100.	1	2/22/99	22:55	K.Phelps	FDEP	405
Naphthalene	32.8	ug/l	5.1	1.0	5	2/23/99	21:43	Noorbakhsh	8310	1038
Acenapthene	ND	ug/l	5.1	1.0	5	2/23/99	21:43	Noorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Noorbakhsh	8310	1038
Fluoranthene	0.3	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Fluorene	1.3	ug/l	1.1	0.2	5	2/23/99	21:43	Noorbakhsh	8310	1038
Pyrene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Noorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	2/23/99	21:43	Noorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	10.2	2.0	5	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Noorbakhsh	8310	1038
Phenanthrene	ND	ug/l	0.7	0.6	1	2/23/99	21:43	Noorbakhsh	8310	1038
1-Methylnapthalene	12.3	ug/l	10.2	2.0	5	2/23/99	21:43	Noorbakhsh	8310	1038
2-Methylnapthalene	ND	ug/l	10.2	2.0	5	2/23/99	21:43	Noorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
n-Butylbenzene	2.1	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
sec-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Ethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Isopropylbenzene	3.7	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Naphthalene	36.4	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070

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ANALYTICAL REPORT

Laboratory Number: 99-A23659
Sample ID: MW-7

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	5.0	5.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/21/99	3:54	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23659
Sample ID: MW-7

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	980. ml	2.0 ml	2/20/99	N. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	94.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	100.	55. - 118.
PID Surr., a,a,a-trifluorotoluene	101.	50. - 150.
Hall Surr., chloroprene	93.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	82.	59. - 117.
PAH Surr., p-terphenyl d14	96.	20. - 140.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

3'ATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
3IRMINGHAM, AL 35205

Lab Number: 99-A23660
Sample ID: MW-8
Sample Type: Water
Site ID:

Date Collected: 2/17/99
Time Collected: 9:40
Date Received: 2/19/99
Time Received: 9:00

'roject: 9970058
'oject Name: NAVSTA MAYPORT/UST 245
3mpler: DEWEY TRAPP

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	2830	ug/l	206.	100.	1	2/23/99	17:31	K.Phelps	FDEP	405
Naphthalene	164.	ug/l	21.1	1.0	20	2/23/99	21:43	Noorbakhsh	8310	1038
Acenapthene	ND	ug/l	21.1	1.0	20	2/23/99	21:43	Noorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Noorbakhsh	8310	1038
Fluoranthene	0.4	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Fluorene	4.8	ug/l	4.4	0.2	20	2/23/99	21:43	Noorbakhsh	8310	1038
Pyrene	0.4	ug/l	0.3	0.3	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(b)Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(k)Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Noorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Noorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.5	0.4	1	2/23/99	21:43	Noorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	42.1	2.0	20	2/23/99	21:43	Noorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Noorbakhsh	8310	1038
Phenanthrene	ND	ug/l	13.5	0.6	20	2/23/99	21:43	Noorbakhsh	8310	1038
1-Methylnapthalene	75.2	ug/l	42.1	2.0	20	2/23/99	21:43	Noorbakhsh	8310	1038
2-Methylnapthalene	76.0	ug/l	42.1	2.0	20	2/23/99	21:43	Noorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	17.5	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
n-Butylbenzene	19.0	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
sec-Butylbenzene	15.0	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Ethylbenzene	59.0	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Isopropylbenzene	25.0	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
4-Isopropyltoluene	5.5	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Naphthalene	416.	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070

COPY 1

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2960 Foster Creighton Dr.
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ANALYTICAL REPORT

Laboratory Number: 99-A23660
Sample ID: MW-8

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	23.0	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Styrene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Toluene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	45.5	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
m,p-Xylenes	7.5	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
o-Xylene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Bromoform	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Bromomethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Chloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Chloroform	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Chloromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	25.0	5.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070
MTBE	ND	ug/l	5.0	1.0	5	2/24/99	3:14	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23660
Sample ID: MW-8

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	950. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	970. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	107.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	102.	55. - 118.
FID Surr., a,a,a-trifluorotoluene	100.	50. - 150.
Hall Surr., chloroprene	85.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	94.	59. - 117.
PAH Surr., p-terphenyl d14	94.	20. - 140.

Report Approved By: J Mitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23661
Sample ID: MW-9
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 10:00
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	590.	ug/l	202.	100.	1	2/22/99	23:53	K.Phelps	FDEP	405
Naphthalene	1.4	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenapthene	ND	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluorene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Pyrene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	2.0	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Moorbakhsh	8310	1038
Phenanthrene	ND	ug/l	0.7	0.6	1	2/23/99	21:43	Moorbakhsh	8310	1038
1-Methylnapthalene	ND	ug/l	10.2	2.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
2-Methylnapthalene	ND	ug/l	10.2	2.0	5	2/23/99	21:43	Moorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	1.4	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
n-Butylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
sec-Butylbenzene	1.8	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Ethylbenzene	1.2	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Isopropylbenzene	1.1	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Naphthalene	24.1	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070

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2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23661
Sample ID: MW-9

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	5.0	5.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/23/99	20:04	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23661
Sample ID: MW-9

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	990. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	94.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	102.	55. - 118.
PID Surr., a,a,a-trifluorotoluene	100.	50. - 150.
Hall Surr., chloroprene	87.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	79.	59. - 117.
PAH Surr., p-terphenyl d14	88.	20. - 140.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

'HATE ENVIRONMENTAL, INC. 5896
.608 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

'roject: 9970058
'oject Name: NAVSTA MAYPORT/UST 245
mpler: DEWEY TRAPP

Lab Number: 99-A23662
Sample ID: WS-RS-1
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 16:50
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	ND	ug/l	202.	100.	1	2/23/99	0:22	K.Phelps	FDEP	405
Naphthalene	ND	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenapthene	ND	ug/l	1.0	1.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Anthracene	ND	ug/l	0.7	0.7	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Fluorene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Pyrene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Chrysene	ND	ug/l	0.2	0.2	1	2/23/99	21:43	Moorbakhsh	8310	1038
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	2/23/99	21:43	Moorbakhsh	8310	1038
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	2/23/99	21:43	Moorbakhsh	8310	1038
Acenaphthylene	ND	ug/l	2.0	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	2/23/99	21:43	Moorbakhsh	8310	1038
Phenanthrene	ND	ug/l	0.6	0.6	1	2/23/99	21:43	Moorbakhsh	8310	1038
1-Methylnapthalene	ND	ug/l	2.0	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
2-Methylnapthalene	ND	ug/l	2.0	2.0	1	2/23/99	21:43	Moorbakhsh	8310	1038
VOLATILE ORGANICS by GC										
Benzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
n-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
sec-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Ethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Isopropylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Naphthalene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
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P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23662
Sample ID: WS-RS-1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
n-Propylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Vinyl chloride	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	5.0	5.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/21/99	8:15	T McCollum	8021B	9070

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A23662
Sample ID: WS-RS-1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	ND	mg/l	0.0030	0.0030	1	2/23/99	13:23	R. Kelley	239.2	50

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	990. ml	1.00 ml	2/22/99	Fitzwater	3510
Fla Pro	990. ml	2.0 ml	2/20/99	M. Cauthen	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	120.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	110.	55. - 118.
PID Surr., a,a,a-trifluorotoluene	99.	50. - 150.
Hall Surr., chloroprene	92.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	82.	59. - 117.
PAH Surr., p-terphenyl d14	82.	20. - 140.

Report Approved By: J. Mitchell Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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ANALYTICAL REPORT

IMATE ENVIRONMENTAL, INC. 5896
1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: NAVSTA MAYPORT/UST 245
Sampler: DEWEY TRAPP

Lab Number: 99-A23656
Sample ID: TRIP BLANK
Sample Type: Water
Site ID:

Date Collected: 2/16/99
Time Collected: 9:30
Date Received: 2/19/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS by GC										
Benzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Bromobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
n-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
sec-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
tert-Butylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Chlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
2-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
4-Chlorotoluene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Ethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Isopropylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
4-Isopropyltoluene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Naphthalene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
n-Propylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Styrene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Toluene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2,3-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2,4-Trichlorobenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2,4-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,3,5-Trimethylbenzene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
m,p-Xylenes	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
o-Xylene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Hexachlorobutadiene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Bromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Bromodichloromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Bromoform	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Bromomethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Carbon tetrachloride	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Chloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Chloroform	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Chloromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Dibromochloromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Ethylene Dibromide	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Dibromomethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070

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ANALYTICAL REPORT

Laboratory Number: 99-A23656
Sample ID: TRIP BLANK

Analyte	Result	Units	Report Limit	Room Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Vingl chloride	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Dichlorodifluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2-Dichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
cis-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
trans-1,2-Dichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,3-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
2,2-Dichloropropane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
cis-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
trans-1,3-Dichloropropene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Methylene chloride	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Tetrachloroethene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1,1-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,1,2-Trichloroethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Trichloroethene	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
Trichlorofluoromethane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070
MTBE	ND	ug/l	1.0	1.0	1	2/21/99	1:43	T McCollum	8021B	9070

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
PID Surr., a,a,a-trifluorotoluene	98.	50. - 150.
Hall Surr., chloroprene	87.	63. - 122.
Hall Surr., 1-chloro-3-fluorobenzene	87.	59. - 117.

Report Approved By: _____ Report Date: 2/27/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director

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Environmental Engineers and Scientists
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Birmingham, Alabama 35205
(205) 918-4000 (FAX) (205) 918-4050

1318666
5896

CHAIN-OF-CUSTODY

NO.: 00001
Page: 2 of 2

PROJECT NO.: 97J0058
PROJECT NAME: NAVSTA MAYPORT / UST 245
P.O. NO.:
LAB DESTINATION: SPECIALIZED ASSAYS
SAMPLER(s) NAME: Dewey TRAPP
TITLE:

Preserved (Code): B
Iced (yes/no): Y

Code: A – None; B – HNO3; C – H2SO4; D – NaOH; E – HCl; F –

Lab Code – for Lab Use Only	Yr. ___ Date ___	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID OTHER	NON-AQUEOUS LIQUID	CONTAINERS No.	Volume	Type	TEST: Total lead METHOD: (239.2)	TEST: METHOD:	TEST: METHOD:	TEST: METHOD:	TEST: METHOD:	REMARKS
99-A23645	2/16/99	1457		✓	MW-2		☒			1	250 ml	P	✓					
99-A23646	2/16/99	1318		✓	MW-5		☒			1		P	✓					
99-A23647	2/16/99	1416		✓	MW-6		☒			1		P	✓					
99-A23648	2/16/99	1845		✓	MW-7		☒			1		P	✓					
99-A23649	2/16/99	0940		✓	MW-8		☒			1		P	✓					
99-A23650	2/16/99	1707			MW-4		☒			1		P	✓					
99-A23651	2/16/99	1000			MW-9		☒			1	✓	P	✓					

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Dewey Trapp			Released to Fed. Ex		
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:
			[illegible]	2/19/99	9:00

LAB COMMENTS
4°C

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

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CHAIN-OF-CUSTODY

NO.: 00001
Page: 1 of 1

131866 5846

PROJECT NO.: 9970058
PROJECT NAME: NAVSTA MAYPORT / UST 245
P.O. NO.:
LAB DESTINATION:
SAMPLER(s) NAME: Dewey TRAPP
TITLE:

Preserved (Code): E A E E E
Iced (yes/no)

Code: A – None, B – HNO3, C – H2SO4, D – NaOH, E – HCl, F –

Lab Code – for Lab only	Yr. ___ Date ___	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID OTHER	NON-AQUEOUS LIQUID	CONTAINERS No.	Volume	Type	TEST: BTEX MTBE METHOD: 8020	TEST: Naphthalene & METHOD: 8270 (8310)	TEST: 1,2 Dichloroethane METHOD: 8260 (8011)	TEST: EDB METHOD: (8011)	TEST: TRPH METHOD: FL PRO	REMARKS
9-A23652	2/16/99	1700		✓	MW-1		☒			1	1l	GA					✓	
9-A23653	2/16/99	1457		✓	MW-2		☒			1	1l	GA					✓	
99-A23654	2/16/99	1145		✓	MW-3		☒			1	1l	GA					✓	
9-A23657	2/16/99	1707		✓	MW-4		☒			4, 1, 1	40ml, 1l, 1l	GA	✓	✓	✓	✓	✓	
99-A23655	2/16/99	1318		✓	MW-5		☒			1	1l	GA					✓	
99-A23658	2/16/99	1412		✓	MW-6		☒			6	40ml, 1l, 1l	GA	✓	✓	✓	✓	✓	
99-A23659	2/16/99	1845		✓	MW-7		☒			6	40ml, 1l, 1l	GA	✓	✓	✓	✓	✓	
99-A23660	2/17/99	0940		✓	MW-8		☒			6	40ml, 1l, 1l	GA	✓	✓	✓	✓	✓	
99-A23661	2/16/99	1000		✓	MW-9		☒			6	40ml, 1l, 1l	GA	✓	✓	✓	✓	✓	

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Dewey Trapp			Released to Fed. Ex		
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:

LAB COMMENTS

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

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CHAIN-OF-CUSTODY

NO.: 00001
Page: ____ of ____

131866 5896

PROJECT NO.: 9970058
PROJECT NAME: NAVSTA Mayport / LST 245
P.O. NO.:
LAB DESTINATION: SPECIALIZED ASSAYS
SAMPLER(s) NAME: Dewey Trapp
TITLE:

Preserved (Code)
Iced (yes/no)

Code: A – None, B – HNO3, C – H_2SO_4, D – NaOH, E – HCl, F –

Lab Code – for Lab	Yr. ____ Date ____	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID	OTHER	NON-AQUEOUS LIQUID	No.	Volume	Type	TEST: BTEX+MTBE METHOD: (8020)	TEST: Naphthalene METHOD: +15 PAHs (8310)	TEST: 1,2-Dibromoethane METHOD: +PP Vocs (8260)	TEST: EDB METHOD: (601)	TEST: TRPH METHOD: FPH	Total Lead	REMARKS
99-A23662	2/16/99	1650			WS-RS-1		✓				7			✓	✓	✓	✓	✓	✓	
99-A23656	2/16/99	0930			Trip		✗				2	40ml	GA	✓						

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Dewey Trapp	2/18/99		Released to FedEx		
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:

LAB COMMENTS

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

DISTRIBUTION: WHITE COPY - Project File YELLOW COPY - Lab copy PINK COPY - Working File

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: MEYPORT NAS UST 245
Sampler: E. B.

Lab Number: 99-A99789
Sample ID: MW-4
Sample Type: Water
Site ID:

Date Collected: 7/ 1/99
Time Collected: 18:50
Date Received: 7/ 6/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/ 6/99	20:48	M.Jones	8011	3809

ND = Not detected at the report limit.

Report Approved By: Eric S Smith Report Date: 7/15/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: MEYPORT NAS UST 245
Sampler: E.B.

Lab Number: 99-A99788
Sample ID: MW-6
Sample Type: Water
Site ID:

Date Collected: 7/ 1/99
Time Collected: 19:00
Date Received: 7/ 6/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/ 6/99	20:48	M.Jones	8011	8809

ND = Not detected at the report limit.

Report Approved By: Eric S Smith Report Date: 7/15/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: MEYPORT NAS UST 245
Sampler: E.B.

Lab Number: 99-A99787
Sample ID: MW-7
Sample Type: Water
Site ID:

Date Collected: 7/ 1/99
Time Collected: 18:25
Date Received: 7/ 6/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.1	1.0	1	7/14/99	5:44	Noorbakhsh	8310	3406
Acenapthene	ND	ug/l	1.1	1.0	1	7/14/99	5:44	Noorbakhsh	8310	3406
Anthracene	ND	ug/l	0.7	0.7	1	7/14/99	5:44	Noorbakhsh	8310	3406
Fluoranthene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Fluorene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Pyrene	ND	ug/l	0.3	0.3	1	7/14/99	5:44	Noorbakhsh	8310	3406
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	7/14/99	5:44	Noorbakhsh	8310	3406
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	7/14/99	5:44	Noorbakhsh	8310	3406
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Chrysene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Dibenzo(a,h)anthracene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.2	0.2	1	7/14/99	5:44	Noorbakhsh	8310	3406
Acenaphthylene	ND	ug/l	2.1	2.0	1	7/14/99	5:44	Noorbakhsh	8310	3406
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	7/14/99	5:44	Noorbakhsh	8310	3406
Phenanthrene	ND	ug/l	0.7	0.6	1	7/14/99	5:44	Noorbakhsh	8310	3406
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/ 6/99	20:48	M.Jones	504.1	8809

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	940. ml	1.00 ml	7/ 8/99	M. Cauthen	3510

The HPLC surr did not determine due to sample matrix interference

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ANALYTICAL REPORT

Laboratory Number: 99-A99787
Sample ID: MW-7

Report Approved By: Gail A Lage Report Date: 7/15/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	< 0.00100	0.0105	0.0100	105	55. - 115.	3406
Acenapthene	mg/l	< 0.00100	0.00380	0.0100	38*	41. - 108.	3406
Anthracene	mg/l	< 0.00066	0.00650	0.0100	65	25. - 119.	3406
Fluoranthene	mg/l	< 0.00021	0.00940	0.0100	94	42. - 120.	3406
Fluorene	mg/l	< 0.00021	0.00710	0.0100	71	48. - 118.	3406
Pyrene	mg/l	< 0.00027	0.00930	0.0100	93	51. - 114.	3406
Benzo(a)anthracene	mg/l	< 0.00013	0.00950	0.0100	95	47. - 111.	3406
Benzo(a)pyrene	mg/l	< 0.00010	0.00940	0.0100	94	51. - 109.	3406
Benzo(b)fluoranthene	mg/l	< 0.00018	0.0100	0.0100	100	62. - 115.	3406
Benzo(k)fluoranthene	mg/l	< 0.00017	0.0102	0.0100	102	62. - 110.	3406
Chrysene	mg/l	< 0.00015	0.00960	0.0100	96	58. - 109.	3406
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.00960	0.0100	96	59. - 122.	3406
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00970	0.0100	97	56. - 114.	3406
Acenaphthylene	mg/l	< 0.00200	0.00740	0.0100	74	30. - 128.	3406
Benzo(g,h,i)perylene	mg/l	< 0.00076	0.00940	0.0100	94	56. - 115.	3406
Phenanthrene	mg/l	< 0.00064	0.00730	0.0100	73	47. - 123.	3406
Ethylene Dibromide	mg/l	< 0.00002	0.00030	0.00028	107	61. - 123.	8809

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Naphthalene	mg/l	0.0105	0.00530	65.82*	23.	3406
Acenapthene	mg/l	0.00380	0.00610	46.46*	23.	3406
Anthracene	mg/l	0.00650	0.00410	45.28*	27.	3406
Fluoranthene	mg/l	0.00940	0.00670	33.54*	18.	3406
Fluorene	mg/l	0.00710	0.00500	34.71*	27.	3406
Pyrene	mg/l	0.00930	0.00660	33.96*	18.	3406
Benzo(a)anthracene	mg/l	0.00950	0.00670	34.57*	21.	3406
Benzo(a)pyrene	mg/l	0.00940	0.00650	36.48*	26.	3406
Benzo(b)fluoranthene	mg/l	0.0100	0.00690	36.69*	23.	3406
Benzo(k)fluoranthene	mg/l	0.0102	0.00710	35.84*	19.	3406
Chrysene	mg/l	0.00960	0.00670	35.58*	17.	3406
Dibenzo(a,h)anthracene	mg/l	0.00960	0.00670	35.58*	28.	3406
Indeno(1,2,3-cd)pyrene	mg/l	0.00970	0.00670	36.59*	28.	3406
Acenaphthylene	mg/l	0.00740	0.00490	40.65*	27.	3406
Benzo(g,h,i)perylene	mg/l	0.00940	0.00660	35.00*	31.	3406
Phenanthrene	mg/l	0.00730	0.00480	41.32*	18.	3406
Ethylene Dibromide	mg/l	0.00030	0.00031	3.28	16.	8809

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.0100	0.00870	87	60 - 140	3406
Acenapthene	mg/l	0.0100	0.00790	79	60 - 140	3406

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Anthracene	ng/l	0.0100	0.00610	61	60 - 140	3406
Fluoranthene	ng/l	0.0100	0.00900	90	60 - 140	3406
Fluorene	ng/l	0.0100	0.00690	69	60 - 140	3406
Pyrene	ng/l	0.0100	0.00880	88	60 - 140	3406
Benzo(a)anthracene	ng/l	0.0100	0.00900	90	60 - 140	3406
Benzo(a)pyrene	ng/l	0.0100	0.00880	88	60 - 140	3406
Benzo(b)fluoranthene	ng/l	0.0100	0.00960	96	60 - 140	3406
Benzo(k)fluoranthene	ng/l	0.0100	0.00940	94	60 - 140	3406
Chrysene	ng/l	0.0100	0.00890	89	60 - 140	3406
Dibenzo(a,h)anthracene	ng/l	0.0100	0.00890	89	60 - 140	3406
Indeno(1,2,3-cd)pyrene	ng/l	0.0100	0.00910	91	60 - 140	3406
Acenaphthylene	ng/l	0.0100	0.00660	66	60 - 140	3406
Benzo(g,h,i)perylene	ng/l	0.0100	0.00860	86	60 - 140	3406
Phenanthrene	ng/l	0.0100	0.00680	68	60 - 140	3406

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Naphthalene	< 0.00100	ng/l	3406
Acenapthene	< 0.00100	ng/l	3406
Anthracene	< 0.00066	ng/l	3406
Fluoranthene	< 0.00021	ng/l	3406
Fluorene	< 0.00021	ng/l	3406
Pyrene	< 0.00027	ng/l	3406
Benzo(a)anthracene	< 0.00013	ng/l	3406
Benzo(a)pyrene	< 0.00010	ng/l	3406
Benzo(b)fluoranthene	< 0.00018	ng/l	3406
Benzo(k)fluoranthene	< 0.00017	ng/l	3406
Chrysene	< 0.00015	ng/l	3406
Dibenzo(a,h)anthracene	< 0.00030	ng/l	3406
Indeno(1,2,3-cd)pyrene	< 0.00043	ng/l	3406
Acenaphthylene	< 0.00200	ng/l	3406
Benzo(g,h,i)perylene	< 0.00076	ng/l	3406
Phenanthrene	< 0.00064	ng/l	3406
Ethylene Dibromide	< 0.00002	ng/l	8809

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: MEYPORT NAS UST 245
Sampler: E.B.

Lab Number: 99-A99786
Sample ID: MW-8
Sample Type: Water
Site ID:

Date Collected: 7/ 1/99
Time Collected: 18:40
Date Received: 7/ 6/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/ 6/99	20:46	M.Jones	8011	8809

ND = Not detected at the report limit.

Report Approved By: Eric S Smith Report Date: 7/15/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

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ANALYTICAL REPORT

BHATE ENVIRONMENTAL, INC. 5896

1608 13TH AVENUE SOUTH
BIRMINGHAM, AL 35205

Project: 9970058
Project Name: MEYPORT NAS UST 245
Sampler: E.B.

Lab Number: 99-A99790
Sample ID: MW-9
Sample Type: Water
Site ID:

Date Collected: 7/ 1/99
Time Collected: 18:55
Date Received: 7/ 6/99
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethylene Dibromide	ND	ug/l	0.02	0.02	1	7/ 6/99	20:48	M.Jones	8011	8809

ND = Not detected at the report limit.

Report Approved By: Eric Smith Report Date: 7/15/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
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Environmental Engineers and Scientists

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NO.: 00001
Page: 1 of 1

1608 13th Avenue South
Birmingham, Alabama 35205
(205) 918-4000 (FAX) (205) 918-4050

5896 150271

PROJECT NO.: 9970-58
PROJECT NAME: Maggart NAS UST 245
P.O. NO.:
LAB DESTINATION: Specialized Assay
SAMPLER(s) NAME: Emmett A Berry
TITLE: Senior P.M.

CONTAINERS

Preserved (Code): B A
Iced (yes/no): Y Y

Code: A – None, B – HNO3, C – H_2SO_4, D – NaOH, E – HCl, F –

Lab Code – for Lab use only	Yr. 97 Date 7/1	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID OTHER	NON-AQUEOUS LIQUID	No.	Volume	Type	TEST: METHOD: Petrol 8010 EDB	TEST: METHOD: Method 8310 PAH	TEST: METHOD:	TEST: METHOD:	TEST: METHOD:	REMARKS
99-786	7/1	18:40		✓	MW-8		☒			2	VOA	G	✓					
87	7/1	18:25		✓	MW-7		☒			3	VOA 1.Ter	G	✓	✓				
88	7/1	19:00		✓	MW-6		☒			2	VOA	G	✓					
89	7/1	18:50		✓	MW-4		☒			2	VOA	G	✓					
99-790	7/1	18:55		✓	MW-9		☒			2	VOA	G	✓					

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Em Berry	7/2/99	16:30	Fed Ex	7/2/99	16:30
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:
				7/2/99	900

LAB COMMENTS: 4°C

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

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MEI Environmental Services, Inc.
TANK CLOSURE ASSESSMENT REPORT

Tank ID # 245
FDEP FAC # 168626008
Naval Base Mayport
Mayport, Florida

July 11, 1995

Presented to:
MEI Environmental Services, Inc.
8351 Leesburg Pike
Vienna, Virginia (703) 893-1200

Presented By:
G.B. ROBBINS, INC.
P.O. Box 17132
Jacksonville, Florida 32245
(904) 724-9039

mei245

TABLE OF CONTENTS

CLOSURE REPORTING FORM

TANK CLOSURE FIELD ACTIVITIES

List of Tables

Table 1	Organic Vapor Analysis Procedure, G.B Robbins, Inc. Soil Screening Results

List of Figures

Figure 1	Site Location, Portions of Jacksonville Beach and Mayport Quadrangles, USGS 7.5 Minute Topographic Series
Figure 2	Tank Location
Figure 3	Sample Locations and Area of Excavation

List of Attachments

Tables
Figures
Photographs
Soil Analytical Results
Groundwater Analytical Results
Tank Disposal Receipt
Permits
Oily Water Manifests
Discharge Reporting Form

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(6)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1 Date: 7/11/95

2 DER Facility ID Number: 168626008 3. County: DUVAL

4 Facility Name: NAVAL STATION MAYPORT

5 Facility Owner: DEPARTMENT OF NAVY

6 Facility Address: NAVAL STATION MAYPORT, MAYPORT, FL 32228-0067

7 Mailing Address: --SAME--

8 Telephone Number: (904) 270-6730 9 Facility Operator: U. S. GOVERNMENT

10 Are the Storage Tank(s): (Circle one or both) A Aboveground or (B.) Underground

11 Type of Product(s) Stored: FUEL OIL - HEAT

12 Were the Tank(s): (Circle one) (A) Replaced B. Removed C. Closed in Place D Upgraded (aboveground tanks only)

13. Number of Tanks Closed: 1: # 245 14. Age of Tanks: 33 YEARS

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☒	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: 4/27/95 Where: A.C. Carroll's Office / City of Jacksonville DRES
☒	☐		3. Is the depth to ground water less than 20 feet?
☐	☒	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☐ Water monitoring ☐ Vapor monitoring
☐	☒	☐	5. Is there free product present in the monitoring wells or within the excavation?
☐	☐	☒	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: ☐ Vapor Monitoring wells ☐ Soil sample(s)
☒	☐	☐	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☒	☐	☐	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☐	☒		10. Are any potable wells located within ¼ of a mile radius of the facility?
☒	☐		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance 650'

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794
Northeast District 7825 Baymeadows Way, Suite B-200 Jacksonville, Florida 32256
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347
South District 2796 Bay St. Fort Myers, Florida 33901-7696
Southeast District 1900 S. Congress Ave. Suite A West Palm Beach, Florida 33406-5940

DER Form	17-761.900(5)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Filled in by DER)

A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.

If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.

Amount of soils removed and receipt of proper disposal.

If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.

A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Robert P. Walden

ROBERT P. WALDEN, LCDR, CEC, USN

Signature of Owner

AUG 2 1995

Date

Signature of Person Performing Assessment

7/11/95

Date

aldine B. Robbins, President, G. B. Robbins, Inc.

Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

. For gasoline (EPA Method 602):

a. Benzene 1 ug/l

b. Total VOA 50 ug/l
- Benzene
- Toluene
- Total Xylenes
- Ethylbenzene

c. Methyl Test-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):

a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

TANK CLOSURE FIELD ACTIVITIES

United States Navy
Tank ID # 245
FDEP FAC #168626008
Naval Base Mayport
Mayport, Florida

This is supplemental information to accompany Department of Environmental Protection Form 62-761.900(6) for closure of one 2000 gallon underground fuel oil storage tank located north of Building 245 at the Naval Base Mayport, Mayport, Florida. General Site Location is represented in Figure 1.

The storage tank was used to store fuel oil for heating. Piping extended approximately 25 feet from the tank southward to the building. The tank had a diameter of approximately 5.3 feet and a length of approximately twelve feet. The tank and associated piping were cleaned and degassed prior to tank closure. Tank and piping locations are identified in Figure 2, Tank Location.

Tank removal and closure was performed on April 27, 1995 by MEI Environmental Services, Inc. The tank was removed intact. Two holes in the bottom of the tank were noted. Notification of discharge was given verbally to Mr. A.C. Carroll's Office of the City of Jacksonville Department of Regulatory and Environmental Services on April, 27 1995. Groundwater was not encountered within the excavation. Photographs of the tank removal are attached.

G.B. Robbins, Inc. performed the closure assessment as required by Chapter 62-762.800, FAC and described in the Florida Department of Environmental Protection's, "Pollutant Storage Tank Closure Assessment Requirements" dated June, 1995 and "Quality Assurance Standard Operating Procedures for Petroleum Storage Tank System Closure Assessment"

dated April, 1992. Screening, performed as outlined in Chapter 62-770.2, FAC, was conducted on-site using a Foxboro Century 128 Organic Vapor Analyzer equipped with a Flame Ionization Detector (OVA-FID). Calibration was performed according to the manufacturer's requirements and per FDER/FDEP SOPs. The OVA-FID procedure is presented immediately before the tabulated OVA-FID results.

Twenty-one soil screening samples were collected by G.B. Robbins, Inc. from the sides and invert of the excavation during the tank removal. Soil samples were collected at no greater than 5-ft vertical and 10-ft horizontal intervals and continued to the depth of the excavation, approximately six feet below land surface (bls). Screening results are presented in Table 1. Sample collection locations are identified in Figure 3, Soil Screening Locations.

One soil sample was collected from the excavation floor, directly beneath the tank for subcontracted analysis of lead. One groundwater sample was collected from a temporary monitoring well located adjacent to the UST on April 26, 1995. Soil and groundwater sample collection was performed as outlined in the appropriate FDEP/FDER SOPs and referenced in G.B. Robbins' CompQapp. A copy of the analytical results are attached and the results are presented below.

Tank Closure

* *Soil was screened at no greater than five foot vertical intervals to groundwater.*
* *Horizontal soil screening distances did not exceed ten feet.*
* *The area adjacent to the tank and soils within the excavation were inspected for staining. Any stressed vegetation in the area of the tank was noted.*
* *One soil sample was collected from the excavation floor for subcontracted laboratory analysis of lead using EPA Method 7421.*
* *One groundwater sample was collected for subcontracted laboratory analysis using EPA methods 602, 610, 245.1, 150.1, 7196, 413.1, and for Total Recoverable Cadmium, Copper, Lead, and Zinc and for Total Organic Carbon.*

Piping Closure

* *Piping closure assessment was not performed.*

Excessively contaminated soil, as defined by Chapter 62-770.200(2) was identified within the tank excavation by screening during the tank closure. Staining was noted below the north end of the tank. Distressed vegetation was not observed. The excessively contaminated soil was not removed from the excavation.

The soil sample from the floor of the tank excavation contained a concentration of 3.6 milligrams per kilogram (mg/Kg) of lead. The groundwater sample, analyzed by Savannah Laboratories, had a pH of 6.6. A summary of groundwater results above detection limits is presented below:

Groundwater Analytical Results - Tank # 245

Method Parameter	Reported Concentration (ug/L)
Naphthalene	15
1-Methylnaphthalene	19
2-Methylnaphthalene	30
Benzene	3.9
Ethylbenzene	8.1
Xylenes	3.7
Total Volatile Organic Aromatics	15.7
Total Organic Carbon	7.8 mg/L

Attachments

mei245

Tables

mci245

Organic Vapor Analysis Procedure

G. B. Robbins, Inc.

Soil screening for petroleum contaminated soils is performed using a Foxboro Century 128 Organic Vapor Analyzer equipped with a flame ionization detector (OVA-FID). The OVA-FID is calibrated prior to use with a methane standard calibration gas manufactured by Alphagaz/Liquid Air, Cambridge, Md.

Soil samples are collected above the water table and are screened, according to Chapter 62-770.200(2), Florida Administrative Code (FAC), as follows:

> "... This reading shall be obtained on an organic vapor analysis instrument equipped with a flame ionization detector in the survey mode upon sampling the headspace in a half filled 16-ounce soil jar. The soil sample shall be brought to a temperature of between 20 degrees celsius and 32 degrees celsius and sampled five minutes thereafter. Analytical instruments shall be calibrated in accordance with the manufacturer's instructions."

Soil screening results are corrected for ambient methane by use of an activated charcoal filter. Reported results include both uncorrected and corrected data.

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Table 1

OVA-FID SCREENING RESULTS -Tank # 365

Sample No.	Sample Location	Depth ft - bls	Without Filter ppm	With Filter ppm	Corrected ppm	Notes
1	Fill port	0.5	0	-	0	No petroleum odor
2	Random bucket, W of tank	Surface	0	-	0	No petroleum odor
3	As above	2.5	0	-	0	No petroleum odor
4	As above	2 - 3	0	-	0	No petroleum odor
5	As above	2 - 3	48	12	36	No petroleum odor
6	As above	3	0	-	0	No petroleum odor
7	N wall, near tank	3	> 1000	810	> 190	V strong, old pet. odor
8a	North wall	3	> 1000	880	> 120	V strong, old pet. odor
8b	As above	6	> 1000	> 1000	?	V strong, old pet odor
9a	E wall, N	3	40	40	0	No petroleum odor
9b	As above	6	> 1000	260	> 740	V strong pet odor
10a	E wall, S	3	0	-	0	No petroleum odor
10b	As above	6	> 1000	> 1000	?	VV strong pet odor
11a	S wall	3	0	-	0	No petroleum odor
11b	As above	6	100	100	0	No petroleum odor
12a	W wall, S	3	10	0	10	No petroleum odor
12b	As above	6	> 1000	> 1000	?	VV strong pet odor
13a	W wall, N	3	15	0	15	No petroleum odor
13b	As above	6	> 1000	> 1000	?	Discoloration
14	Floor, N central	6	0	-	0	Discoloration
15	Floor, S central	6	250	0	250	-

mci245

Figures

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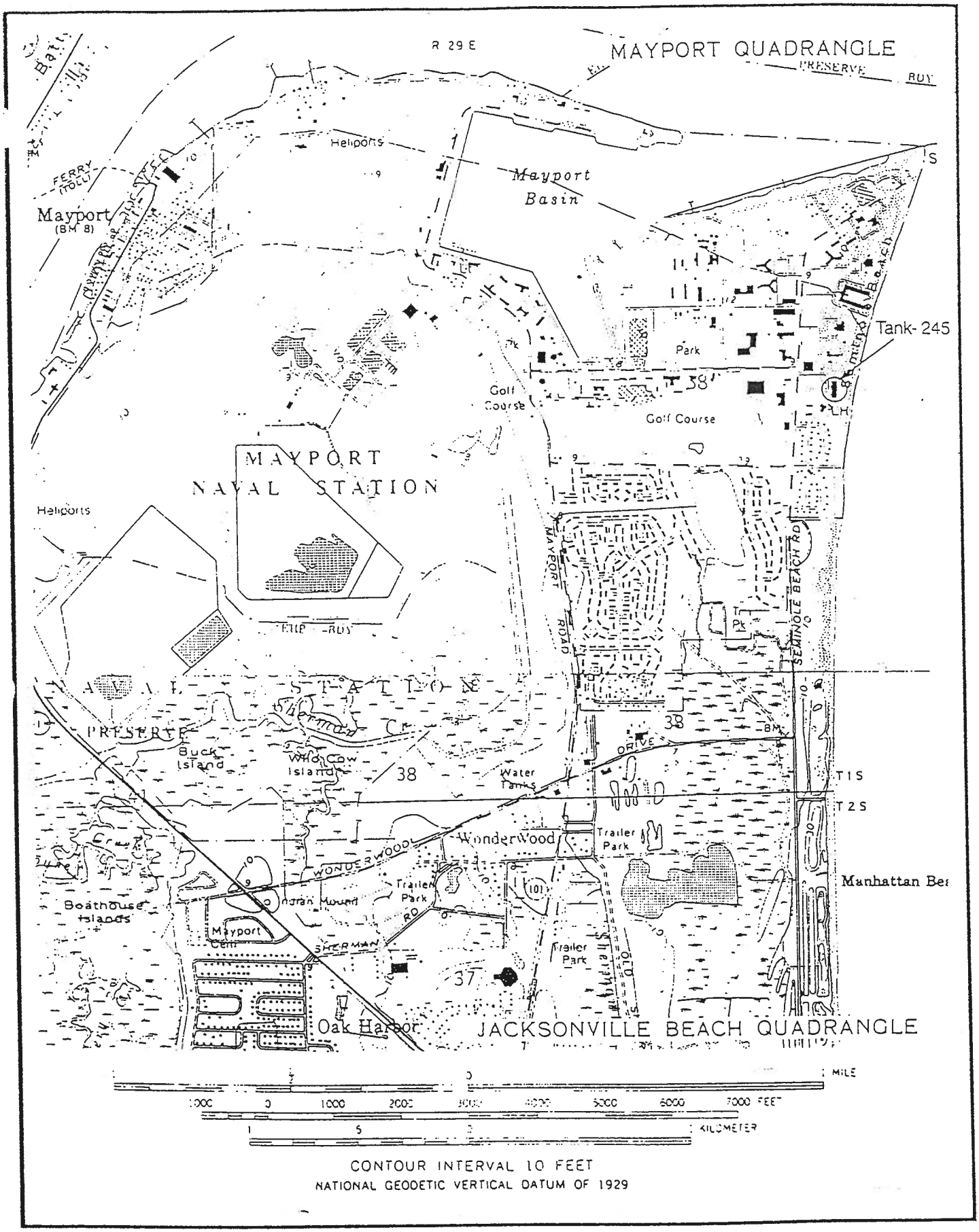
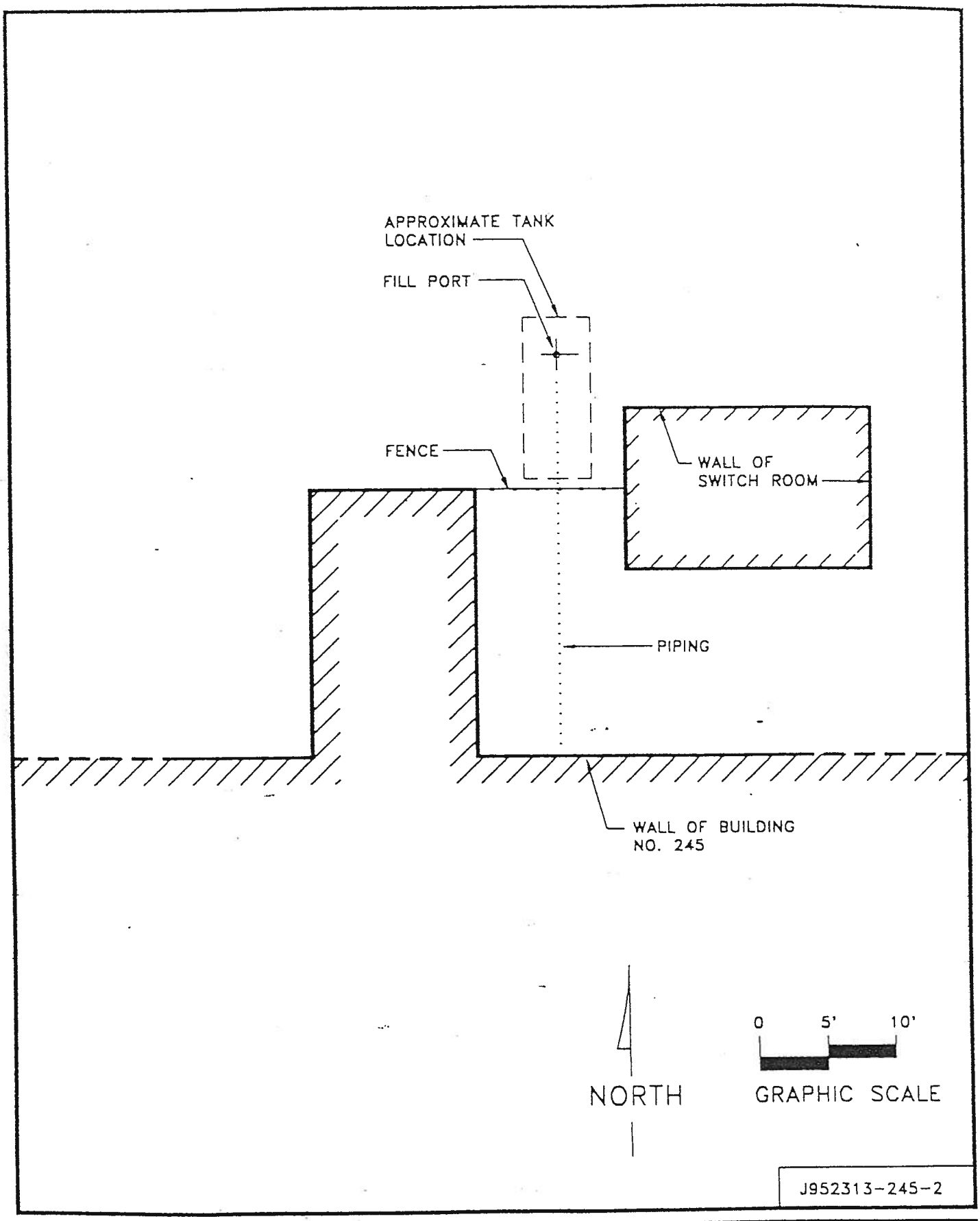


CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

CONSULTING CHEMISTS

MAYPORT NAVAL STATION
MAYPORT, FLORIDA

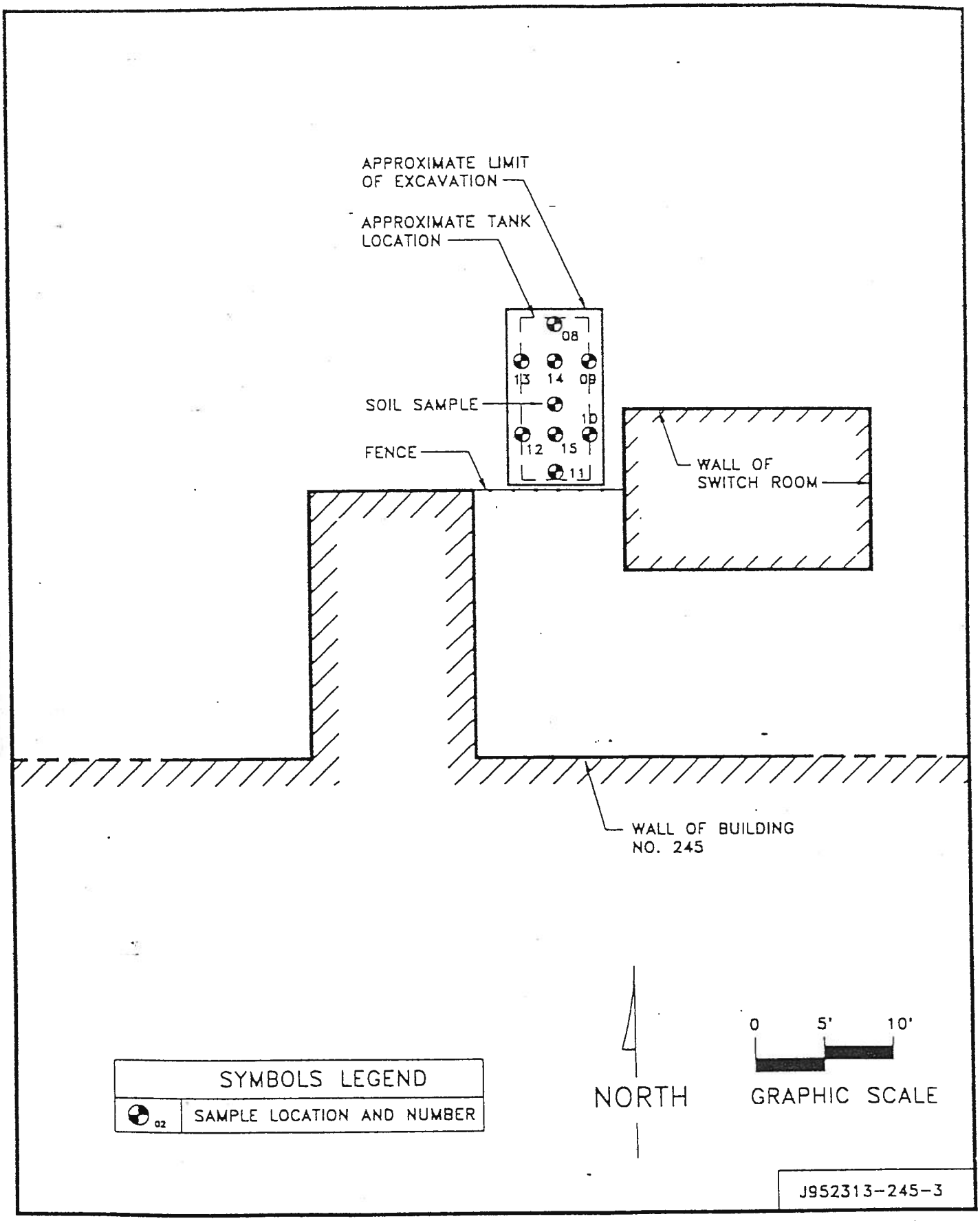
FIGURE 1
SITE LOCATION



C.B. ROBBINS, INC.
CONSULTING CHEMISTS

MAYPORT NAVAL STATION
MAYPORT, FLORIDA

TANK 245
FIGURE 2
TANK LOCATION



MAYPORT NAVAL STATION
MAYPORT, FLORIDA

TANK 245
FIGURE 3
SAMPLE LOCATIONS
AND AREA OF EXCAVATION

Photographs

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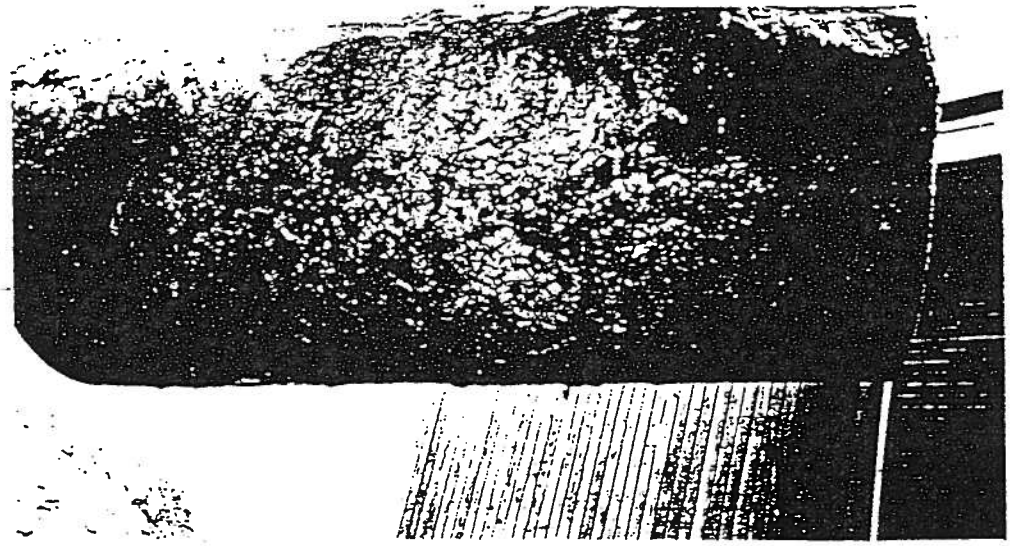
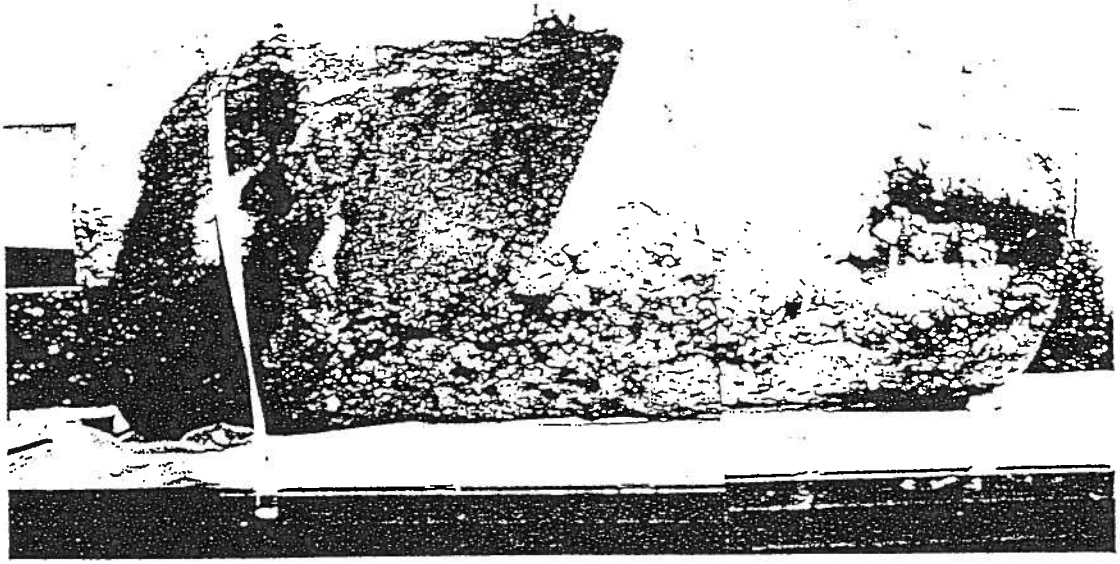
Excavation for Tank # 245, view to south

Excavation for Tank # 245, view to west

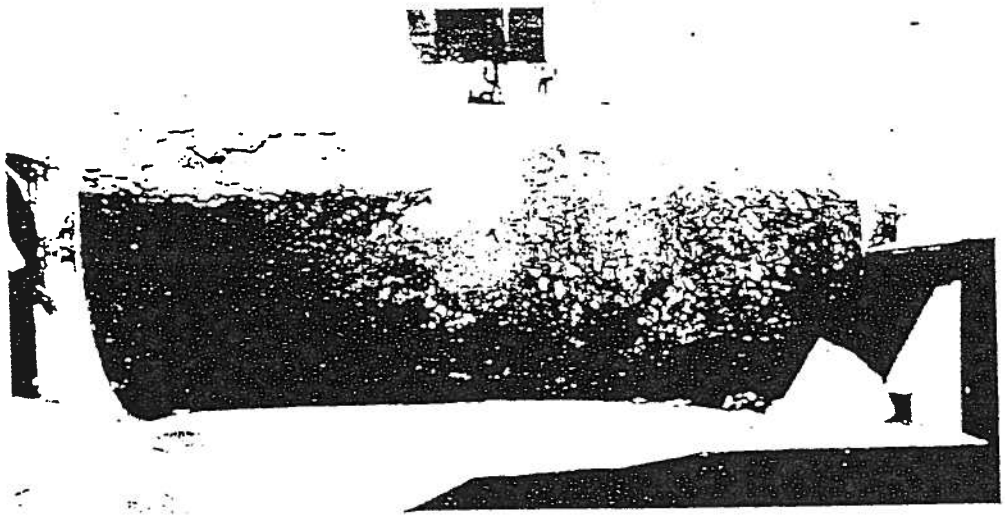
South end of Tank # 245



Bottom and east side of Tank # 245



East side of Tank # 245



West side of Tank #245

Soil Analytical Results

mei245

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (904) 878-3994 • Fax (904) 878-9504

LOG NO: TS-11334

Received: 01 MAY 95

Mr. Phillip Giuliani
MEI, Minority Enterprises, Inc.
2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA-17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
11334-1	1587-Floor	04-27-95/1000
11334-2	245-Floor	04-27-95/1400
11334-3	350-Floor	04-27-95/1020

PARAMETER	11334-1	11334-2	11334-3
Lead (7421)			
Lead, mg/kg dw	1.3	3.6	1.3
Prep or Extraction Date	05.08.95	05.08.95	05.08.95
Date Analyzed	05.09.95	05.09.95	05.09.95
Percent Solids, %	82 %	87 %	84 %

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& ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (904) 878-3994 • Fax (904) 878-9504

LOG NO: T5-11334

Received: 01 MAY 95

Mr. Phillip Giuliani
MBI, Minority Enterprises, Inc.
2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA-17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT-FOR SOLID/SEMISOLID
11334-4	Method Blank
11334-5	Accuracy (% Recovery)
11334-6	Precision (% RPD)

PARAMETER	11334-4	11334-5	11334-6
Lead (7421)			
Lead, mg/kg dw	<0.50	100 %	3.0 %
Prep or Extraction Date	05.08.95	05.08.95	---
Date Analyzed	05.09.95	05.09.95	---

Method: EPA SW-846
HRS Certification #'s:81291,E81005
FDEP Comp QAP #890142G

Note: Samples were received at 10 degrees C. Analyses proceeded per client request on May 5, 1995.

Laura B. Snead

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

[illegible] 02 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☒ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (305) 421-7400 — Fax: (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 110 Alpha Drive, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: CACU-17-94-C-0084
PROJECT NO.:
P.O. NUMBER:
PAGE 1 OF 1

PROJECT LOC. (State): FL
SAMPLER(s) NAME: G. Robbins
PHONE: 904 249 0024
FAX: 249 0063

CLIENT NAME: MET
CLIENT PROJECT MANAGER: P. Guiciani
CLIENT ADDRESS (CITY, STATE, ZIP): MGMT TO 1106 1267 Mayfair NS Mayfair, FL

☐ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: _____

REQUIRED ANALYSES / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	FS	OIL & GREASE	602	610	HOLD	REMARKS
4/27/95	1000		1587 - 1200R		X			1					
4/27/95	1400		245 - 1200R		X			1					
4/28/95	1020		250 - 1200R		X			1					
4/25/95	1230		1342						1		1		
4/28/95	1315		426							1			
4/28/95	1400		1267							1	1		

FH 4/28/95

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY (SIGNATURE)

RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
			☐ YES ☐ NO			

Groundwater Analytical Results

mei245

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& ENVIRONMENTAL SERVICES, INC.

MAY 13 1995

2846 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (904) 878-3994 • Fax (904) 878-9504

LOG NO: T5-11225

Received: 27 APR 95

Mr. Phillip Giuliani
MEI, Minority Enterprises, Inc.
2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
11225-1	1587	04-26-95/1600
11225-2	245	04-26-95/1430
11225-3	350	04-26-95/1345

PARAMETER	11225-1	11225-2	11225-3
Polynuclear Aromatics (610/8100)			
Acenaphthene, ug/l	<10	<10	<10
Acenaphthylene, ug/l	<10	<10	<10
Benzo(a)pyrene, ug/l	<10	<10	<10
Benzo(g,h,i)perylene, ug/l	<10	<10	<10
Benzo(b,k)fluoranthene, ug/l	<10	<10	<10
Chrysene + Benzo(a)anthracene, ug/l	<10	<10	<10
Fluoranthene, ug/l	<10	<10	<10
Fluorene, ug/l	<10	<10	<10
Indeno(1,2,3-cd)pyrene, ug/l	<10	<10	<10
Dibenz(a,h)anthracene, ug/l	<10	<10	<10
Naphthalene, ug/l	12	15	<10
Phenanthrene, ug/l	<10	<10	<10
Anthracene, ug/l	<10	<10	<10
Pyrene, ug/l	<10	<10	<10
1-Methylnaphthalene, ug/l	12	19	<10
2-Methylnaphthalene, ug/l	<10	30	<10
Date Extracted	05.01.95	05.01.95	05.01.95
Date Analyzed	05.03.95	05.02.95	05.02.95

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LOG NO: TS-11225

Received: 27 APR 95

Mr. Phillip Giuliani
MEI, Minority Enterprises, Inc.
2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
11225-1	1587	04-26-95/1600
11225-2	245	04-26-95/1430
11225-3	350	04-26-95/1345

PARAMETER	11225-1	11225-2	11225-3
urgeable Aromatics (602/8020)			
Benzene, ug/l	1.1	3.9	<1.0
Chlorobenzene, ug/l	<1.0	<1.0	<1.0
2-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0
,3-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0
1,4-Dichlorobenzene, ug/l	<1.0	<1.0	<1.0
Ethylbenzene, ug/l	2.7	8.1	<1.0
Toluene, ug/l	<1.0	<1.0	<1.0
Xylenes, ug/l	<1.0	3.7	<1.0
Total Volatile Organic Aromatics, ug/l	3.8	15.7	<1.0
Methyl-Tert-Butyl-Ether (MTBE), ug/l	<10	<10	<10
Date Analyzed	05.03.95	05.03.95	05.03.95
Mercury (245.1)			
Mercury, ug/l	<0.10	<0.10	<0.10
Prep or Extraction Date	05.02.95	05.02.95	05.02.95
Date Analyzed	05.03.95	05.03.95	05.03.95
H (150.1)			
pH, units	6.8	6.6	6.8
Date Analyzed	04.27.95	04.27.95	04.27.95
Time Analyzed	1700	1700	1700
Hexavalent Chromium (7196)			
Hexavalent Chromium, mg/l	<0.010	<0.010	<0.010
Date Analyzed	04.27.95	04.27.95	04.27.95
Time Analyzed	1200	1200	1200
Total Organic Carbon, mg/l	8.53	7.8	4.7
Cadmium(Total recoverable), ug/l	<5.0	<5.0	<5.0

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'2'16 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (904) 878-3994 • Fax (904) 878-9504

LOG NO: T5-11225

Received: 27 APR 95

Mr. Phillip Giuliani
MEI, Minority Enterprises, Inc.
2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
11225-1	1587	04-26-95/1600
11225-2	245	04-26-95/1430
11225-3	350	04-26-95/1345

PARAMETER	11225-1	11225-2	11225-3
Copper (Total recoverable), ug/l	2.8	<2.5	<2.5
Lead (Total recoverable), ug/l	<5.0	<5.0	<5.0
Zinc (Total recoverable), ug/l	26	<20	<20
[illegible] & Grease (413.1)			
[illegible] & Grease , mg/l	<5.0	<5.0	<5.0
Date Extracted	04.28.95	04.28.95	04.28.95
Date Analyzed	04.30.95	04.30.95	04.30.95

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Mr. Phillip Giuliani
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2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
11225-5	Method Blank
11225-6	Accuracy (% Recovery)
11225-7	Precision (% RPD)
11225-8	Date Analyzed

PARAMETER	11225-5	11225-6	11225-7	11225-8
Polynuclear Aromatics (610/8100)				
Acenaphthene, ug/l	<10	81 %	9.9 %	05.02/3.95
Acenaphthylene, ug/l	<10	---	---	05.02/3.95
enzo(a)pyrene, ug/l	<10	87 %	9.2 %	05.02/3.95
Benzo(g,h,i)perylene, ug/l	<10	---	---	05.02/3.95
Benzo(b,k)fluoranthene, ug/l	<10	---	---	05.02/3.95
Chrysene + Benzo(a)anthracene, ug/l	<10	---	---	05.02/3.95
Fluoranthene, ug/l	<10	---	---	05.02/3.95
Fluorene, ug/l	<10	82 %	13 %	05.02/3.95
Indeno(1,2,3-cd)pyrene, ug/l	<10	---	---	05.02/3.95
Dibenz(a,h)anthracene, ug/l	<10	---	---	05.02/3.95
Naphthalene, ug/l	<10	72 %	9.7 %	05.02/3.95
Phenanthrene, ug/l	<10	---	---	05.02/3.95
Anthracene, ug/l	<10	---	---	05.02/3.95
Pyrene, ug/l	<10	92 %	12 %	05.02/3.95
1-Methylnaphthalene, ug/l	<10	---	---	05.02/3.95
2-Methylnaphthalene, ug/l	<10	---	---	05.02/3.95
Date Extracted	05.01.95	05.01.95	---	---
Date Analyzed	05.02.95	05.02.95	---	---

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& ENVIRONMENTAL SERVICES, INC.

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2136 Gallows Rd. - Suite H
Dunn Loring VA 22027

CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
11225-5	Method Blank
11225-6	Accuracy (% Recovery)
11225-7	Precision (% RPD)
11225-8	Date Analyzed

PARAMETER	11225-5	11225-6	11225-7	11225-8
Purgeable Aromatics (602/8020)				
Benzene, ug/l	<1.0	108 %	0.92 %	05.03.95
Chlorobenzene, ug/l	<1.0	89 %	2.2 %	05.03.95
1,2-Dichlorobenzene, ug/l	<1.0	---	---	05.03.95
1,3-Dichlorobenzene, ug/l	<1.0	---	---	05.03.95
1,4-Dichlorobenzene, ug/l	<1.0	---	---	05.03.95
Ethylbenzene, ug/l	<1.0	---	---	05.03.95
Toluene, ug/l	<1.0	103 %	1.9 %	05.03.95
Xylenes, ug/l	<1.0	---	---	05.03.95
Total Volatile Organic Aromatics, ug/l	<1.0	---	---	05.03.95
Methyl-Tert-Butyl-Ether (MTBE), ug/l	<10	---	---	05.03.95
Date Analyzed	05.03.95	05.03.95	---	---
Mercury (245.1)				
Mercury, ug/l	<0.10	96 %	1.0 %	05.03.95
Prep or Extraction Date	05.02.95	05.02.95	---	---
Date Analyzed	05.03.95	05.03.95	---	---
pH (150.1)				
pH, units	7.2	---	0 %	04.27.95
Date Analyzed	04.27.95	04.27.95	---	---
Time Analyzed	1700	1700	---	---
Hexavalent Chromium (7196)				
Hexavalent Chromium, mg/l	<0.010	96 %	2.1 %	04.27.95
Date Analyzed	04.27.95	04.27.95	---	---
Time Analyzed	1200	1200	---	---
Total Organic Carbon, mg/l	<1.0	98 %	1.0 %	05.02.95

SL SAVANNAH LABORATORIES
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CC: Ms. G.B. Robbins

Project: DACA 17-94-C-0084
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
11225-5	Method Blank
11225-6	Accuracy (% Recovery)
11225-7	Precision (% RPD)
11225-8	Date Analyzed

PARAMETER	11225-5	11225-6	11225-7	11225-8
Cadmium(Total recoverable), ug/l	<5.0	106 %	0.94 %	05.02.95
Copper (Total recoverable), ug/l	<2.5	107 %	1.9 %	05.02.95
Lead (Total recoverable), ug/l	<5.0	76 %	3.9 %	05.02.95
Zinc (Total recoverable), ug/l	<20	106 %	1.9 %	05.02.95

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,E81005
FDEP Comp QAP #890142G

Laura B. Snead

Laura B. Snead

SCHEDULE OF PRIORITY 1 TANKS

FACILITY NUMBER	CAPACITY (GALLON)	MOST RECENT CONTENTS	YEAR INSTALLED	TYPE OF CONSTRUCTION	ACTION	REMARKS	DWG NO	BID ITEM	
6	100,000	DIESEL	1950	CONCRETE, UST	CLOSE		C-3	0001	
6 A	940	DIESEL	1950	STEEL, UST	REMOVE		C-3	0001	△
83	25,000	GASOLINE	1950	STEEL, UST	CLOSE		C-3	0001	
84	25,000	GASOLINE	1950	STEEL, UST	CLOSE		C-3	0001	
85	10,000	GASOLINE	1950	STEEL, UST	CLOSE		C-3	0001	
90	100	FUEL OIL	UNKNOWN	STEEL, UST	REMOVE	2 4	C-4	0001	△
349 A	1,000	GASOLINE	1966	STEEL UST	REPLACE	3	C-5	0001	
349 B	1,000	DIESEL	1966	STEEL, UST	REPLACE	3	C-5	0001	
349 C	350	FUEL OIL	1975	STEEL, AST	REPLACE		C-5	0001	
365	500	FUEL OIL	1965	STEEL UST	REPLACE	2	C-6	0001	△
G-365	300	DIESEL	1965	STEEL, AST	UPGRADE	1	C-6	0001	
436	550	DIESEL	1969	STEEL, UST	REPLACE	4	C-7	0001	
G-436	1,000	FUEL OIL	1969	STEEL, UST	REPLACE	2 4	C-7	0001	
1342	550	WASTE OIL	1975	STEEL, UST	REPLACE		C-9	0001	
1363	2,500	DIESEL	1975	STEEL, UST	REPLACE		C-10	0001	
G-1363	7,500	FUEL OIL	1974	STEEL, UST	REPLACE		C-10	0001	△
1417	1,000	WASTE OIL	1981	STEEL, UST	REPLACE	2 4	C-11	0001	
1488	20,000	FUEL OIL	1981	STEEL, UST	REPLACE	2	C-12	0001	
1488-B	1,500	FUEL OIL	1979	STEEL, UST	REMOVE		C-12	0001	△
1512	1,000	WASTE OIL	1980	STEEL, UST	REPLACE		C-13	0001	
1515	1,000	WASTE OIL	1980	STEEL, UST	REPLACE	2	C-14	0001	
G-1552	4,000	DIESEL	1983	STEEL, UST	REPLACE	2	C-15	0001	
G-1591	550	DIESEL	1984	STEEL, UST	REPLACE	2	C-16	0001	
1555	5,000	FUEL OIL	1983	STEEL, UST	REPLACE		C-20	0001	△
1613	100	WASTE OIL	1984	FIBERGLASS,UST	REPLACE		C-17	0001	
1364	270	WASTE OIL	1984	STEEL, UST	REPLACE		C-18	0001	
1365	150	WASTE OIL	1984	STEEL, UST	REPLACE	2 4	C-19	0001	
1366	500	WASTE OIL	1983	STEEL, UST	REPLACE		C-20	0001	
1587	4,000	WASTE OIL	1960	STEEL, UST	REPLACE		C-37	0001	△
1556-B	250	WASTE OIL	1984	STEEL, UST	REPLACE		C-39	0001	△

GENERAL NOTES

△ 1 COMPLETE ALL WORK ON PRIORITY 1 TANKS PRIOR TO BEGINNING ANY WORK ON PRIORITY 2 TANKS. THE CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO FIVE TANK LOCATIONS, UNLESS OTHERWISE APPROVED. PERMISSION TO WORK AT MORE THAN FIVE LOCATIONS SHALL BE DEPENDENT ON THE CONTRACTOR'S PRODUCTION CAPABILITIES AND TIMELY COMPLETION OF WORK AT INDIVIDUAL SITES

2 EXISTING PIPING GASKETS MAY CONTAIN ASBESTOS

3 EXISTING UTILITIES HAVE BEEN SHOWN TO THE EXTENT KNOWN AND AS DISCOVERED IN THE PREPARATION OF THE CONSTRUCTION DOCUMENTS. THE LOCATIONS OF EXISTING UTILITIES IS APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY. NO GUARANTEE AS TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES IS MADE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF THE PROJECT

4 NO DISRUPTION OF SERVICE OF ANY UTILITY WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN CONSENT OF THE CONTRACTING OFFICER.

△ 5 FUEL TANKS. THE CONTRACTOR SHALL PROVIDE TEMPORARY FUEL TANKS, PIPING AND PUMPS AS REQUIRED TO MAINTAIN FUEL SUPPLIES TO EXISTING FACILITIES. NO FACILITY MAY BE DISCONNECTED FROM ITS FUEL SUPPLY WITHOUT PRIOR APPROVAL OF THE CONTRACTING OFFICER. CONTRACTOR SHALL ENSURE THAT TEMPORARY EQUIPMENT IS CAPABLE OF MAINTAINING PROPER FUEL SUPPLY TO EQUIPMENT. CONTRACTOR SHALL ALSO ENSURE THAT CONTAINMENT FOR ALL TEMPORARY PUMPS, PIPING AND EQUIPMENT IS PROVIDED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

6 WASTE OIL TANKS. PRIOR TO REMOVAL OF ANY WASTE OIL TANK, THE CONTRACTOR SHALL PUMP OUT THE EXISTING OIL/WATER SEPARATORS TO REDUCE THE POSSIBILITY OF DISCHARGE WHILE THE EXISTING WASTE OIL TANKS ARE BEING REMOVED. THE CONTRACTOR SHALL ALSO PROVIDE PERSONNEL AND EQUIPMENT TO PUMP OUT OIL/WATER SEPARATORS, AS REQUIRED BY FACILITY OPERATIONS, DURING THE TANK REMOVAL/REPLACEMENT OPERATION IN ORDER TO ELIMINATE DISCHARGE FROM THE SEPARATORS.

△ 7 OILY WATER FROM OIL WATER SEPARATORS MAY BE DISPOSED OF IN THE BASE OILY/WATER SYSTEM, WITH THE APPROVAL OF THE CONTRACTING OFFICER. OILY WATER SHALL BE FILTERED TO REMOVE LARGE OBJECTS IN ACCORDANCE WITH STATION REGULATIONS. FILTER REQUIREMENTS TO BE PROVIDED BY STATION.

8 ALL EXCAVATIONS FOR REMOVAL OF ITEMS SHALL BE BACKFILLED WITH COMPACTED MATERIALS TO A LEVEL WHICH MATCHES ADJACENT ELEVATIONS

9 WHERE EXISTING PAVEMENT IS SHOWN TO BE REMOVED, PAVEMENT SHALL BE REPLACED AS INDICATED IN TYPICAL DETAILS

10 THE CONTRACTOR SHALL PROVIDE BARRICADES AND WARNING LIGHTS, AS REQUIRED BY THE CONTRACTING OFFICER, TO WARN VEHICULAR AND PEDESTRIAN TRAFFIC OF OPEN EXCAVATIONS AND CONSTRUCTION AREAS

△ 11 ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

△ 12 THE CONTRACTOR SHALL PROVIDE A NEW DATE VALVE BETWEEN NEW FUEL PIPING AND EXISTING FUEL

SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS			
NO	SYM	ZONE	DESCRIPTION
1	A		EDITORIAL CHANGES REVISED NOTES. AMENDMENT 0001

SCHEDULE OF PRIORITY 2 TANKS

FACILITY NUMBER	CAPACITY (GALLON)	MOST RECENT CONTENTS	YEAR INSTALLED	TYPE OF CONSTRUCTION	ACTION	REMARKS	DWG. NO.	BID ITEM	
53	200	FUEL OIL	1942	STEEL AST	UPGRADE	1	C-42	0010	5
164	100	DIESEL	1988	STEEL AST	REMOVE		C-21	0010	5
191-A	6000	FUEL OIL	1987	FIBERGLASS UST	UPGRADE		C-22	0010	5
210	300	FUEL OIL	1960	STEEL AST	REMOVE		C-21	0010	5
242	2,000	FUEL OIL	1962	STEEL UST	REPLACE		C-23	0002	
243	2,000	FUEL OIL	1962	STEEL UST	REPLACE		C-24	0002	
245	2,000	FUEL OIL	1962	STEEL UST	REPLACE	2	C-25	0002	
264	250	FUEL OIL	1961	STEEL UST	REMOVE		C-26	0002	5
350	1,000	FUEL OIL	1965	STEEL UST	REPLACE	2	C-27	0002	5
351	2,000	FUEL OIL	1981	STEEL UST	CLOSE		C-28	0009	5
353	2,000	FUEL OIL	1963	STEEL UST	CLOSE		C-38	0010	5
413	560	FUEL OIL	1972	STEEL UST	REPLACE		C-30	0010	5
425	1,000	FUEL OIL	1968	STEEL UST	REPLACE		C-31	0009	5
448-A	1,000	FUEL OIL	1969	STEEL UST	REPLACE		C-32	0010	5
448-B	1,000	FUEL OIL	1984	STEEL UST	REPLACE		C-32	0010	5
451	4,000	FUEL OIL	1969	STEEL UST	REPLACE		C-33	0009	5
1267	1,000	FUEL OIL	1973	STEEL UST	REMOVE		C-34	0010	5
1326	550	FUEL OIL	1978	STEEL AST	REPLACE		C-41	0010	5
1333	1,500	FUEL OIL	1981	STEEL UST	REPLACE		C-35	0010	5
1343	10,000	FUEL OIL	1960	STEEL UST	REPLACE	2	C-36	0009	5
1380	8,000	UNKNOWN	1982	STEEL AST	REMOVE		C-4	0010	5
1388	1,000	FUEL OIL	1977	STEEL UST	REPLACE	2	C-28	0009	5
1397	2,000	FUEL OIL	1977	STEEL UST	REPLACE	2	C-40	0009	5
1556-A	1,000	FUEL OIL	1984	STEEL UST	REPLACE		C-39	0010	5
437	1000	DIESEL	1969	STEEL UST	REPLACE		C-8	0009	5

REMARKS

1. RELOCATE TANK AND PROVIDE SECONDARY CONTAINMENT
2. SHORE EXCAVATION DURING TANK REMOVAL TO MINIMIZE EXCAVATION AND PROTECT EXIST STRUCTURES, EQUIPMENT AND PLANTS.
3. PROVIDE FUEL DISPENSERS.
4. △ OBTAIN PERMISSION PRIOR TO ENTERING AREA OF THE BASE
5. △ PROVIDE TEMPORARY FENCES AND SECURITY FOR ALL AREAS WHERE EXISTING FENCES MUST BE REMOVED FOR CONSTRUCTION PURPOSES

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

MAYPORT NAVAL STATION
MAYPORT, FLORIDA

REMOVE/REPLACE FUEL STORAGE TANKS

SCHEDULE AND NOTES

DESIGN CHG: TMT
DWN: RVV | CKD: FEJ | DIV. NO. | DATE | SIZE: F | DRAWING NO. C-2
SCALE AS SHOWN | DATE: JULY 1994 | SHEET 4 OF

Oily Water Disposal Manifests

mci245

WASTE MANIFEST

NON-HAZARDOUS

BILL JOHNS

WASTE OIL SERVICE

3831 William Street
Jacksonville, Florida 32205
Phone (904) 353-4480

LICENSED COLLECTOR, STORER & TRANSPORTER

FLORIDA D.E.R. REG.#50047UO

IDENTIFICATION

NAVAL STATION MAYPORT — DATE SHIPPED 4/21/95

GENERATOR/SHIPPER

NAVAL STATION MAYPORT CODE (N4E7) — TIME

ADDRESS

MAYPORT FLA 32228-0067 — PHONE 904-270-6730

CITY STATE ZIP

WASTE INFORMATION

HAZARDOUS MATERIAL		EPA HAZ. WASTE ID#	DESCRIPTION AND CLASSIFICATION (Proper Shipping Name, Class and ID# per 172.101, 172.202, 172.203	UN# or NA#	EXEMPTION OR NO LABELS REQ'D	FLASH POINT (IN°C) WHEN REQ'D
YES		N/A	Used Oil, Tank Bottom, Combustible Liquid	1993	-	>140
(NO)			DIESEL FUEL MARINE			

SPECIAL HANDLING INSTRUCTIONS

#245 #1587

CERTIFICATION

This is to certify under penalty of law that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the U.S. Environmental Protection Agency.

Jan Baker — 4/21/95
GENERATOR'S SIGNATURE — DATE

This is to certify acceptance of the waste oil shipment.

B. Johns
TRANSPORTER #1 SIGNATURE & DATE — TRANSPORTER #2 SIGNATURE & DATE (If required)

This is to certify acceptance of the waste oil for treatment, storage or disposal.

B. Johns — 4/21/95
TSDF SIGNATURE — DATE

NET GALLONS 2000

NET BALANCE 2000

PRICE PER GALLON N/C

NET DOLLARS

☐ CASH ☒ CHARGE

№ 1793

MANIFEST DOCUMENT NO.

Pink - File Copy

WASTE MANIFEST

NON-HAZARDOUS

BILL JOHNS

WASTE OIL SERVICE

3831 William Street
Jacksonville, Florida 32205
Phone (904) 353-4480

LICENSED COLLECTOR, STORER & TRANSPORTER

FLORIDA D.E.R. REG.#50047UO

IDENTIFICATION

NAVAL STATION MAYPORT — GENERATOR/SHIPPER — DATE SHIPPED 4/14/95

NAVAL STATION MAYPORT (CODENYE) — ADDRESS — TIME 4:00 Pm

MAYPORT, Fla — CITY — STATE — 32228/0067 — ZIP — PHONE 270 6730

WASTE INFORMATION

HAZARDOUS MATERIAL		EPA HAZ. WASTE ID#	DESCRIPTION AND CLASSIFICATION (Proper Shipping Name, Class and ID# per 172.101, 172.202, 172.203	UN# or NA#	EXEMPTION OR NO LABELS REQ'D	FLASH POINT (IN °C) WHEN REQ'D
YES			Used Oil, Tank Bottom, Combustible Liquid	1993		>140
NO		N/A	(DIESEL FUEL MARINE)		-	

SPECIAL HANDLING INSTRUCTIONS

242, 413, 245 + 365

CERTIFICATION

This is to certify under penalty of law that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the U.S. Environmental Protection Agency.

Jim B Bernes — GENERATOR'S SIGNATURE — 4/14/95 DATE

This is to certify acceptance of the waste oil shipment.

Bill Johns — TRANSPORTER #1 SIGNATURE & DATE — TRANSPORTER #2 SIGNATURE & DATE (If required)

This is to certify acceptance of the waste oil for treatment, storage or disposal.

Bill Johns — TSDF SIGNATURE — 4/14/95 DATE

NET GALLONS _____

NET BALANCE _____

PRICE PER GALLON _____

NET DOLLARS _____

☐ CASH ☐ CHARGE

№ 1787

MANIFEST DOCUMENT NO.

White - Original Yellow - Receiving Facility Pink - File Copy

Discharge Reporting Form

mei245

Memorandum

To: A.C. Carroll Fax 630-3638

CC: Ken Kivlin, Rebull and Associates Fax 249-0063

From: Geraldine Bixler Robbins, G. B. Robbins, Inc.

Date: May 5, 1995

Subject: Naval Station , Mayport
FAC ID# 168626008
Discharge notification

Mr. Carroll, verbal discharge notification was made to your office within 24 hours of tank closure for the following:

Tank No.	Closure Date	Verbal Notification Date
365	4/14/95 (Friday)	4/17/95 (Monday)
1363, G-1363	4/25/95	4/26/95
G-1552	4/25/95	4/26/95
1587	4/27/95	4/28/95
245	4/27/95	4/28/95
350	4/28/95	4/28/95
1326	5/4/95	5/5/95

Formal Discharge Notification Forms will be submitted as soon as they are made available to us by the Navy.

FLORIDA

Department of Environmental Protection

awton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

June 22, 1998

Ms. Beverly Washington
Department of the Navy, Petroleum Program
Southern Division - Naval Facilities Engineering Command
PO Box 190010
2155 Eagle Drive
North Charleston, SC 29419-9010

file: 245sa1.doc

RE: Draft Contamination Assessment Report Tank Site 245, Naval Station Mayport, Mayport, FL

Dear Ms. Washington:

I have reviewed the above document (undated - received February 12, 1998). The following comments should be considered by the Navy and the response submitted as a Site Assessment Report (SAR) Addendum:

1. Tank 245 was a 2000 gallon underground fuel oil tank which was removed. At the time of closure, it is stated the Navy believed that both contaminated soil and ground water were present. Contaminated soil was not removed but fuel oil supply and return piping lines were removed at the time of closure. Please submit a copy of the closure documentation.

2. Soil borings obtained during the investigation are inadequate for determining the extent of soil contamination. Utilizing the general instructions (from "Storage Tank System Closure Assessment Requirements" February 1998), obtain four soil borings around the location of the former tank, placed as close to the outside dimensions of the former tank as possible with one of the borings in the center of the former tank location. If contamination is noted, conduct additional borings as required to sufficiently characterize the extent of contamination. Additionally, please obtain at least one soil sample from this location for laboratory analysis as required in Chapter 62-770, F.A.C. Please note that analytical samples of soil <u>must</u> be obtained during an assessment. Not less than one is required; more are required if contaminated soil is found. Please follow the guidance in Chapter 62-770, F.A.C and in "Guidelines for Assessment and Source Removal of Petroleum Contaminated Soil, May 1998." Please also note the different analytical requirements in Table I or Table II, depending on the type of contamination at the site; in this particular case, the requirements in Table I apply.

3. Please obtain one soil boring near the end of Building 245 and along or in close proximity to the former piping location. If contamination is noted, obtain additional borings, sufficient to characterize any contamination should be obtained.

4. Please observe the soil sampling requirements in Chapter 62-770, F.A.C when conducting the soil borings.

5. Please install a shallow monitoring well near the center of the location of the former tank or, if significant soil contamination is noted in the new soil borings, install a shallow monitoring well in the center of the area of greatest contamination. Please install a shallow monitoring well approximately 25 feet northwest of monitoring well MW-4 and one approximately 25 feet south-southeast of the former tank location. These will enable better delineation of the ground water contaminant plume. Please be aware that if the areal extent of soil contamination is significant, additional monitoring wells may be required, sufficient to delineate the extent of ground water contamination. Please sample these wells and MW-4 for the appropriate parameters in Table I in Chapter 62-770, F.A.C., ensuring that the detection limits for compounds with regulatory guidelines or standards are low enough to allow the results to be utilized for determining the presence or absence of contamination. Please furnish a figure which depicts the area around Building 245, in order to help understand and evaluate the possible extent of ground water contamination.

6. Detection limits for five semivolatile constituents in ground water were above regulated limits. Additionally, TRPH was not determined in ground water samples and lead was present above the Florida standard in monitoring wells MW-2 and MW-5. Please resample monitoring wells MW-2 and MW-5 for lead ensuring the use of a quiescent sampling technique. Please sample monitoring wells MW-1, MW-2, MW-3 and MW-5 for TRPH.

7. Please obtain a round of water level determinations at all site monitoring wells and present a revised figure with the ground water flow direction plotted on it. Please revise Figure 11 to show the new monitoring well locations and the contaminants from the ground water sampling and Figure 8 which illustrates the soil contamination regime.

8. Please revise Figure 9 to illustrate the ground water level at the time noted.

9. Please submit a properly certified copy of the Assessment Report for Tank Site 245. Please assure that all future and additional documents in this regard are also properly signed and sealed according to Chapter 62-770.600(6), F.A.C. In lieu of submitting a complete report, you may submit a properly executed certification page which references the site report and I will insert the page into my copy.

Printed on recycled paper.

Please present the above requested data in a SAR Addendum. Based on the provisions of Chapter 62-770, F.A.C., please evaluate the data and propose a course of action for the site. If further clarification is required or if you have any questions, please contact me at 850-921-4230.

Sincerely,

James H. Cason, P.G.
Remedial Project Manager

CC: Jan Bouvier, NAVSTA Mayport
Brian Cheary, FDEP Northeast District
Jerry Young, City of Jacksonville

Reviewed by:

Timothy J. Bahr, P.G.
Professional Geologist Supervisor
Bureau of Waste Cleanup

TIMOTHY J. BAHR
LICENSE NO. 1209
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

6/22/98
Date

JJC ESN ESN

Printed on recycled paper.

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

October 9, 1998

Ms. Beverly Washington
Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive, PO Box 190010
North Charleston, SC 29419-9010

file: 245wp1.doc

RE: Contamination Assessment Workplan, UST Site 245, including Letter Addendum dated September 14, 1998, NAVSTA Mayport

Dear Ms. Washington,

Please consider these comments as courtesy review. I have reviewed the above document dated August 27, 1998 (received August 31, 1998) and the letter addendum dated September 14, 1998 (received September 17, 1998). I noted in my previous comments (Comment 2, Appendix B) that at a site where soil contamination is not found by OVA, one sample is required for chemical analysis. At a site where contamination is found by OVA, not less than three soil samples are required to be analyzed. Please be sure that the protocols specified in Chapter 62-770.600 (3) (e), F.A.C. are followed and that at least one soil sample has been collected and analyzed for the appropriate parameters for the site. Other than this comment, the proposed work plan and the additional tasks described in the work plan appear to be adequate.

Thank you for the opportunity to review this document. If you need further clarification or other assistance, please contact me at (850) 921-4230.

Sincerely,

James H. Cason, P.G.
Remedial Project Manager

cc: Randy Bishop, NAVSTA Mayport

TJB TB JJC JJC ESN ESN

– Soil: 3 samples All KAG (Hi, mid, low)

– GW:

KAG 3 SA

Pb 3 SA

TPH 4

BEA
Bhate Environmental Associates, Inc.
Environmental Engineers & Scientists
1608 13th Avenue, South, Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

September 14, 1998

Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Attention: Mr. Jim Cason

Subject: Addendum to Contamination Assessment Work Plan
Site UST-245
Naval Station Mayport
Mayport, Florida
Contract No.: N62467-96-D-0976
Bhate Project No.: 9970058

Dear Mr. Cason:

Bhate Environmental Associates, Inc. (Bhate) has prepared the following addendum to our Contamination Assessment Work Plan prepared for the above referenced site and dated August 27, 1998. The addendum was prepared to address your comments during a meeting held with the Southern Division of the Naval Facilities Engineering Command on August 31, 1998.

The proposed scope of work will be expanded to include the following assessment activities:

1) If the soil samples collected from the proposed hand auger locations indicate FID readings greater than 10 parts-per-million, additional soil sampling will be conducted until the extent of soil contamination is defined, based on FID readings.

2) In addition to the two (2) monitoring wells proposed in the August 27th work plan, one (1) well will also be installed at the location of greatest soil contamination. All wells will be installed using the Geoprobe sampling system. They will consist of 10-foot sections of .75 inch I.D. prepack well screen. The wells will be installed to the same depth and constructed similarly to the existing wells at the site.

3) Groundwater samples will be collected from the new wells and analyzed for Table 1 parameters listed in Chapter 62-770, FAC.

A report addendum summarizing these activities and the activities proposed in the original work plan will be prepared to supplement the previously submitted Contamination Assessment Report.

Please provide approval to proceed with the scope of work at your earliest convenience. If you have any questions, please contact Bhate at 1-800-806-4001.

Respectfully submitted,

BHATE ENVIRONMENTAL ASSOCIATES, INC.

Emmett A. Beers
Senior Project Manager

i:\usr\projects.bea\1997\9970058\addendum-UST 245.doc

WASTE MANIFEST

NON-HAZARDOUS

BILL JOHNS

WASTE OIL SERVICE

3831 William Street
Jacksonville, Florida 32205
Phone (904) 353-4480

LICENSED COLLECTOR, STORER & TRANSPORTER

FLORIDA D.E.R. REG.#50047UO

IDENTIFICATION

NAVAL STATION MAYPORT — GENERATOR/SHIPPER — DATE SHIPPED 4/21/95

NAVAL STATION MAYPORT CODE (N4E7) — ADDRESS — TIME 1130

MAYPORT — CITY — Fla — STATE — 32228-0067 — ZIP — PHONE 904-2706730

WASTE INFORMATION

HAZARDOUS MATERIAL		EPA HAZ. WASTE ID#	DESCRIPTION AND CLASSIFICATION (Proper Shipping Name, Class and ID# per 172.101, 172.202, 172.203	UN# or NA#	EXEMPTION OR NO LABELS REQ'D	FLASH POINT (IN °C) WHEN REQ'D
YES		N/A	Used Oil, Tank Bottom, Combustible Liquid	1993	-	>140
NO			DIESEL FUEL MARINE			

SPECIAL HANDLING INSTRUCTIONS

#1363 245 350 Ca. Rem Tugs

CERTIFICATION

This is to certify under penalty of law that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the U.S. Environmental Protection Agency.

GENERATOR'S SIGNATURE — DATE 4/21/95

This is to certify acceptance of the waste oil shipment.

TRANSPORTER #1 SIGNATURE & DATE — TRANSPORTER #2 SIGNATURE & DATE (If required)

This is to certify acceptance of the waste oil for treatment, storage or disposal.

TSDF SIGNATURE — DATE 4/21/95

NET GALLONS 2000

NET BALANCE 2000

PRICE PER GALLON N/C

NET DOLLARS

☐ CASH ☒ CHARGE

N: 1792

MANIFEST DOCUMENT NO

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

[redacted] LaRoche Avenue, Savannah, [redacted] 1404 — Ph[redacted] (912) [redacted] 58 [redacted]) [redacted] 165
[redacted] 546 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: [redacted]) 878-9504
414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (305) 421-7400 — Fax: (305) 421-2581
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
110 Alpha Drive, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
DACA17-94-C-0084		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
	EVCTAR	(904) 249-0024	249-0063

CLIENT NAME	CLIENT PROJECT MANAGER
MEI	Phil Guiliani

CLIENT ADDRESS (CITY, STATE, ZIP) Mayport Naval Station Next to Building 1267, Mayport, FL 32227

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMISOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: 610 / 602 / Tr-Cd/Cu/Pb/Zn / pH/Cr-6 / Hg / TDC / TPH (HOLD) / HOLD

PAGE ___ OF ___

☐ STANDARD REPORT DELIVERY

☒ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	610	602	Tr-Cd/Cu/Pb/Zn	pH/Cr-6	Hg	TDC	TPH (HOLD)	HOLD			REMARKS
1/26/95	1600		1587	X				X	X	X	X	X	X	X	X			
1/26/95	1430		245	X				X	X	X	X	X	X	X				
1/26/95	1345		350	X				X	X	X	X	X	X	X				
1/26/95	0930		Firehouse	X				X	X									

EVC 4/26/95

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Elijah Knight	1/13/95	1600	EVCTAR	1/26/95	1700			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[illegible]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
[illegible]	4/27/95	0930	☑ YES ☐ NO		TS 11225	

Tank Disposal Receipt

mei245

REBULL AND ASSOCIATES, LTD.
ENGINEERS * CONTRACTORS
POST OFFICE BOX 1564
ARLINGTON, VA 22210
TELEPHONE (703)522-7770

May 2, 1995

USACOE
North Florida Project Office
3077 Talleyrand Avenue
Jacksonville FL 32206-3474
ATTN: Russ Tolle

RE: Contract DACA17-94-C-0084 Remove/Replace Fuel Storage Tanks, Mayport Naval Station, FL

Dear Mr. Tolle:

The following tanks and accessories delivered to Commercial Metals Company this date by MEI for recycling purposes only.

245	1552
436	436
1488	436G
350	365
1363	242
1363G	243
264	413
1587	

Should you have any questions, please feel free to contact me at 249-0024.

Sincerely,

K. R. Kivlin

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

48540 LB 01:38 PM 10 95

21660 LB 01:46 PM 10 95

Amount: 13.44 Tons

DISPOSAL FEE 7.50 per Ton

Excess Wire	-	Amount	$ 100.80
		Sales Tax	
		Delivery	
		Total	$ 100.80

RECEIPT

P.O. Number Ticket Number: 21233

Charged To: M.E.I.

Address: MAYPORT

VIA: U12

Received by: C Battle

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

21660 LB [illegible]

44320 LB [illegible] 10 95

Amount: [illegible] Tons

DISPOSAL FEE

Excess Rebar		Amount	$ [illegible]
		Sales Tax	
		Delivery	
		Total	$ [illegible]

RECEIPT

P.O. Number Ticket Number: 2122

Charged To: [illegible]

Address: [illegible]

VIA: U12

Received by: Y A Battle

Form # KK001

517

_____19____

Commercial Metals Company
Florida Division

2038 N. Lane Avenue
Jacksonville, Florida 32254
904 – 786-2771

LBS. GROSS

11:54 AM 05 03 95 10720 LBS. TARE

LBS. NET

VERIFIED BY	REFERENCE	DRIVER ON	DRIVER OFF
		/	
WEIGHER	**CHECK NO.**	**PAID BY CHECK**	**PAID BY CASH**
uc			
CASHIER	**REMARKS**		

@ _____ PER _____

	VEHICLE LIC. #	STATE	
		LA	$

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

Amount: _____ tons

DISPOSAL FEE

		Amount	$
		Sales Tax	
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket Number: 21229

Charged To:

Address:

VIA:

Received by: C. Battle

Form # KK001

Permits

mei245

MEI
Environmental Svcs.

MAIN OFFICE:
2136 Gallows Road
Suite H
Dunn Loring, VA 22027
703-207-0500
703-207-3981(fax)

FIELD OFFICE:
Next to Bldg. 1267
Naval Station Mayport
Mayport, FL 32227
904-249-0024
904-249-0063(fax)

January 19, 1995

Duval Cty Reg & Bioenv Svcs
Water Quality Division
421 W. Church Street Suite 412
Jacksonville, FL 32203

ATTN: Lewis Shields

RE : DACA17-94-C-0084 Remove/Replace Fuel Storage Tanks, Mayport Naval Station, FL

SUB: Mayport Naval Station DER FAC ID#168626008
MEI PCC053987

Dear Mr. Shields:

We are hereby giving our notification for the closure, replacement and/or upgrade of the various storage tank systems on the above stated project. Enclosed you will find page C-2 of the Contract Plans and page 3 of the Contract Specifications section 00010, "Description of Work", which show the action required for each tank, as well as the schedule of priority.

Pursuant to our telephone conversation on January 6, MEI will commence work during the week of February 6, 1995. An estimated completion time would fall between four to six months thereafter. The required Tank Registration Forms are being generated and will be forthcoming.

Title of Project:

Remove/Replace Fuel Storage Tanks
Naval Station Mayport
Mayport, Florida

Description of Work:

The project consists of furnishing all materials, labor, tools, equipment, utilities, water and fuel supply, vehicular transportation, manifests, certificates, licenses, permits, and all necessary incidental services meeting all Federal, State, and local requirements to remove, close-in-place, upgrade, dismantle, temporarily store, purge, clean, haul, and dispose of underground and aboveground storage tanks, tank contents, and ancillary equipment. The project involves 48 underground storage tanks and 7 aboveground storage tanks. Work shall include: (I) closure in place of six (6) underground tanks; (II) removal only of five (5) underground tanks; (III) removal and replacement of thirty-six (36) underground tanks; (IV) the upgrading of one (1) underground storage tank; (V) the removal only of three (3) aboveground storage tanks; (VI) the removal and replacement of two (2) aboveground storage tanks; (VII) the upgrading of two (2) aboveground storage tanks; and (VIII) the restoration of tank sites to original lines and grades.

Additional remediation at the site may also be required if soil and/or groundwater contamination is detected after all of the tanks and structures are removed.

The Contractor shall be an authorized Florida Pollutant Storage System Specialty Contractor (PSSSC) licensed by the Florida Department of Professional Regulation (FDPR). All subcontractors or individuals performing soil and groundwater sampling must have an approved generic quality assurance plan on file with the Florida Department of Environmental Protection (FDEP). In addition , only laboratories that have a generic quality assurance plan approved by FDEP may be used to analyze soil and groundwater samples. LICENSING AND CERTIFICATION PROOF REQUIRED WITHIN 5 DAYS AFTER BID OPENING. Contractor's analytical laboratory must be validated by the Corps of Engineers' Missouri River Division. Proof of validation must be furnished prior to issuance of Notice to Proceed. All persons entering the work site must have current OSHA Hazardous Material Health and Safety annual training as per 29 CFR Part 1910.120. The contract shall require personnel specialized in removal and disposal of underground storage tanks as well as minor construction workers. The Contractor must obtain security clearance from the Mayport Naval Station and abide by Station regulations as put forth in SECTION 01010, Paragraph 6, CONTRACTOR ACCESS AND USE OF PREMISES.

MEI letter of 01-19-95
(cont'd)

In order to further discuss the schedule of work and the procedural details, we would like to meet at your convenience. Please call us at our office trailer number, 904-249-0024.

Sincerely,

Phillip W. Giuliani

encl.

cc: DER/Stg Tank Reg Section & Bureau of Waste Cleanup
2600 Blair Stone Road
Tallahassee, FL 32399-2400

DER/Stg Tank Prgm, NE District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256-7577

Rebull & Associates
P.O. Box 85
Arlington, VA 22210-0085

Z 750 176 609

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to LENISSHELDS c/o DUVAL CTY REGT BIOENV SVC: WATER QUAL DIV	
Street and No. 421 W. Church St #412	
P.O., State and ZIP Code Jacksonville FL 32203	
Postage	$ .55
Certified Fee	1.10
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 2.75
Postmark or Date	JAN 6 1995

PS Form 3800, March 1993

Z 750 176 610

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to DER/STG TANK REG. SEC	
Street and No. 2600 BLAIR STONE RD	
P.O., State and ZIP Code TALLAHASSEE, FL 32399-2400	
Postage	$ .55
Certified Fee	1.10
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 2.75
Postmark or Date	

PS Form 3800, March 1993