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CONTAMINATION ASSESSMENT PLAN REVISION 2 FOR GROUNDWATER MONITORING AND FREE PRODUCT EVALUATION AT THE FORMER BULK TANK FACILITY NS MAYPORT FL

9/1/2010

TETRA TECH NUS

Comprehensive Long-term Environmental Action Navy

CONTRACT NUMBER N62467-04-D-0055

Contamination Assessment Plan
Revision 2
for
Groundwater Monitoring and Free Product Evaluation
at the
Former Bulk Tank Facility

Naval Station Mayport
Jacksonville, Florida

Contract Task Order 0031

September 2010

NAVFAC
Naval Facilities Engineering Command
Southeast
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September 17, 2010

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Reference: CLEAN IV Contract Number N62467-04-D-0055
Contract Task Order Number 0031

Subject: Final Contamination Assessment Plan, Revision 2, for Groundwater Monitoring and Free Product Evaluation at the Former Bulk Tank Facilities
Naval Station Mayport, Jacksonville, Florida

Dear Ms. Washington:

It was brought to my attention that comments received from Mr. Jospeh Marshall, Navy Fuel Depot, via Mr. Wayne Wragg, Fleet Industrial Supply Center (FISC), were not incorporated into the Final CAP submitted on July 14, 2010.

Therefore, Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the final Contamination Assessment Plan (CAP), Revision 2, for Groundwater Monitoring and Free Product Evaluation at the Former Bulk Tank Facilities at Naval Station (NAVSTA) Mayport, Jacksonville, Florida with Mr. Marshall's comments incorporated as indicated on the following page. This CAP was prepared for the United States Navy, Naval Facilities Engineering Command, Southeast (NAVFAC SE) under the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055 for Contract Task Order (CTO) 0031.

If you have any questions with regard to this submittal, please contact me via e-mail at Mark.Peterson@tetratech.com or by phone at (904) 730-4669, Extension 213.

Sincerely,

Mark A. Peterson, P.G.
Task Order Manager

MAP/lc

c: John Winters, FDEP (2 copies, 1 CD)
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Debbie Humbert, TtNUS (unbound, CD)
Administrative Record
CTO 0031 Project File

Comments on the Draft Contamination Assessment Plan for Groundwater Monitoring and Free Product Evaluation at the Former Bulk Tank Facilities (FBTF), Naval Station Mayport, Jacksonville, Florida, received from Mr. Joseph Marshall via Mr. Wayne Wragg, FISC, on April 1, 2009

Note: Mr. Marshall only reviewed/commented on portions of the report that impacted the Mayport Fuel Farm.

Comment 1: Page 1-1, paragraph 1, sentence 1: Tank 102 is listed as part of the FBTF, but no Tank 102 existed.

Response: "102" was deleted from the text.

Comment 2: Page 2-1, paragraph 2: Description of FBTF includes former Tanks 99, 100, 101, 201, 202, 203, & 204, but on all included Figures (2-1, 2-2, 3-1, & 3-2) only former Tanks 201, 202, 203, & 204 are included in FBTF area.

Response: Figure 2-1 indicates the locations of all tanks (99, 100, 101, 201, 202, 203, and 204). Figures 2-2, 3-1, and 3-2 do not reference the locations of any tanks and, therefore, do not need to be revised.

Comment 3: Page 2-1, paragraph 3, sentence 2: NIRP/SWMU Site 16 is listed as being located adjacent to the FBTF site, but it is actually located within the FBTF.

Response: The text was modified to include Site 16 within the FBTF.

Comment 4: Page 3-3, paragraph 2, sentence 5: "...concentrations greater than..." looks like it should actually be "...concentrations less than..."

Response: The text was modified.

Comment 5: Page 3-4, Section 3.3 header & page 3-5, paragraph 2, sentence 1: Both areas say that Site 9 = SWMU 11, but Figure 2-2 shows them as two separate and distinct sites.

Response: The Site 9 location was removed and the SWMU 11 location was updated based on historical information.

Comment 6: Page 3-5, paragraph 3, sentence 1: "NIRP Site 8..." looks like it should actually be "NIRP Site 16..."

Response: Site 8 was changed to Site 16.

Comment 7: It may be asking for a lot, but it would be nice to have a Figure included in the report that marks the sample (soil/gw) locations discussed in section 3.0 Site History.

Response: Could not locate a figure with sample locations in the historical information; therefore, there was no change.

08JAX0097

CONTAMINATION ASSESSMENT PLAN, REVISION 2
FOR
GROUNDWATER MONITORING AND
FREE PRODUCT EVALUATION
AT THE
FORMER BULK TANK FACILITY

NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, Florida 32212-0030

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CONTRACT NUMBER N62467-04-D-0055
CONTRACT TASK ORDER 0031

SEPTEMBER 2010

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ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
Aerostar	Aerostar Environmental Services, Inc.
AST	Aboveground Storage Tank
bls	Below Land Surface
Bhate	Bhate Environmental Associates, Inc.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
°C	Degree Celsius
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CLEAN	Comprehensive Long-term Environmental Action Navy
CTO	Contract Task Order
DDT	Dichlorodiphenyltrichloroethane
DPT	Direct Push Technology
E. C. Jordan	E. C. Jordan and Company Engineers and Scientists
ENCO	Environmental Conservation Laboratories, Inc.
ESA	Environmental Science Associates, Inc.
ESE	Environmental Science and Engineering, Inc.
ESI	Expanded Site Investigation
FAC	Florida Administrative Code
FBTF	Former Bulk Tank Facilities
FDEP	Florida Department of Environmental Protection
FISC	Fleet and Industrial Supply Center
FL-PRO	Florida Petroleum Range Organics
FOL	Field Operations Leader
GAG	Gasoline Analytical Group
GCTL	Groundwater Cleanup Target Level
H_2SO_4	Sulfuric Acid
HCl	Hydrochloric Acid
IDW	Investigation Derived Waste
KAG	Kerosene Analytical Group
L	Liter
µg/kg	Microgram per kilogram
MDL	Method Detection Limit
MILCON	Military Construction
mL	Milliliter

ACRONYMS (Continued)

MTBE	Methyl Tertiary Butyl Ether
NAVFAC SE	Naval Facilities Engineering Command Southeast
NAVSTA	Naval Station
Navy	United States Navy
NFA	No Further Action
NIRP	Navy Installation Restoration Program
NTU	Nephelometric Turbidity Unit
ORS	Oil Recovery System
OWTP	Oily Waste Treatment Plant
PAH	Polynuclear Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
QC	Quality Control
RBCA	Risk-Based Corrective Action
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFA SV	RCRA Facility Assessment Sampling Visit
RFI	RCRA Facility Investigation
RMO	Risk Management Option
SCTL	Soil Cleanup Target Level
SWMU	Solid Waste Management Unit
SOP	Standard Operating Procedure
SVOC	Semivolatile Organic Compound
Team	NAVSTA Mayport Tier I Environmental Partnering Team
TOM	Task Order Manager
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Tetra Tech NUS, Inc. (TtNUS) has prepared this Contamination Assessment Plan (CAP) for the Former Bulk Tank Facilities (FBTF) 99, 100, 101, 201, 202, 203, and 204 at Naval Station (NAVSTA) Mayport, Jacksonville, Florida. This CAP was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under Contract Task Order (CTO) 0031, for the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055.

The CAP provides the rationale and methodology for performing field activities to characterize groundwater conditions at the referenced sites. The objective of the proposed field investigations is to determine the extent of groundwater impacts by previous operations at the sites. The data collected during the FBTF investigations will be used to prepare corrective action documents, if required, in accordance with Chapter 62-780, Florida Administrative Code (F.A.C.). The investigation will characterize site conditions from which to base future courses of action.

Multiple environmental investigations have been conducted at and near the FBTF since 1989. The CAP presents a review of the historical environmental investigation at the FBTF and surrounding environmental restoration sites located in the immediate area of the FBTF. The CAP was written to gather all pertinent environmental investigation results, report the results of data collected to determine current site conditions, and to establish a path forward for future investigations and corrective measure for the sites. The purpose and scope of the CAP was discussed and generally agreed on by the NAVSTA Mayport Tier I Environmental Partnering Team (Team) during the May 2007, May 2008, and May 2009 Team meetings (Team, 2007, 2008, and 2009).

All areas of previously identified soil contamination are now located beneath the secondary containment of the new aboveground storage tanks (ASTs) that were installed after the removal of the former AST systems. The majority of contaminated soils are believed to have been removed during the construction of the new ASTs; however, no documentation of the soil removal and disposal could be located during the preparation of this CAP. Additional soil sampling at these locations was not possible due to presence of the secondary containment for the new AST systems. Groundwater samples were collected from the existing monitoring wells located at the FBTF to determine the current condition of the groundwater at the site. The groundwater samples were submitted for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE); polynuclear aromatic hydrocarbons (PAHs); and total recoverable petroleum hydrocarbons (TRPH) analysis. The results for all of the groundwater samples were less than laboratory detection limits. Three temporary monitoring wells were installed in areas where free product on the groundwater was previously identified. No free product has been observed in the temporary monitoring wells.

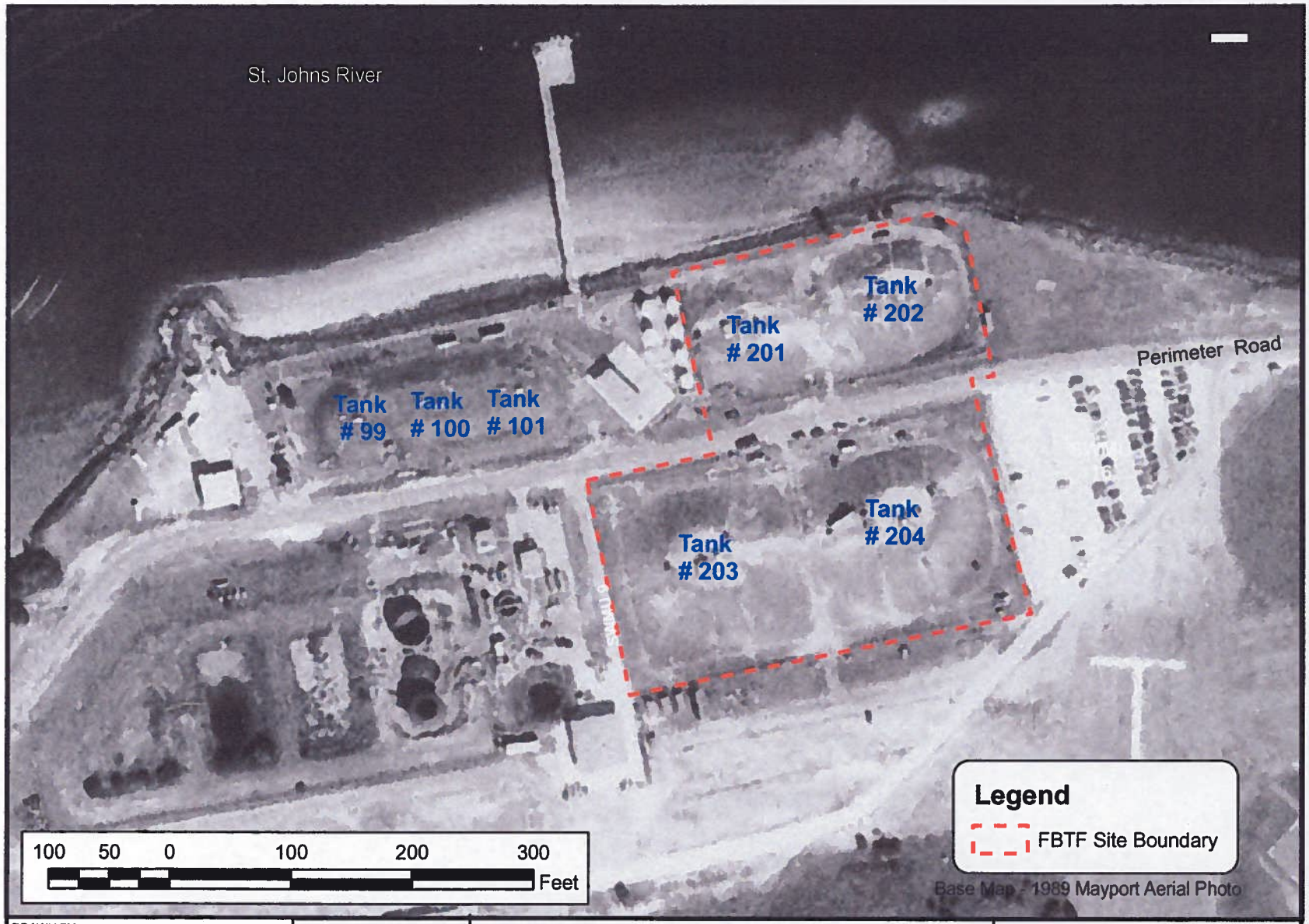
The anticipated path forward for the FBTF sites consists of one year of quarterly groundwater monitoring. Based on the one year of groundwater monitoring, the site will be evaluated against the Contaminated Site Risk-Based Corrective Action (RBCA) criteria established in Chapter 62-780, F.A.C., to determine if the sites qualify for No Further Action (NFA) under Risk Management Option (RMO) – Level II.

2.0 SITE DESCRIPTION

NAVSTA Mayport is located within the corporate limits of the City of Jacksonville, Duval County, Florida, and is approximately 12 miles to the east northeast of downtown Jacksonville and adjacent to the town of Mayport. The Station complex is located on the northern end of a peninsula bounded by the Atlantic Ocean to the east and the St. Johns River to the north and west. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, which is located to the west between the Station and the St. Johns River.

The FBTF are located along the northern portion of NAVSTA Mayport situated between the airfield and the southern shore of the St. Johns River. The FBTF were located on approximately 7 acres in the vicinity of the present NAVSTA Mayport Fuel Farm. The FBTF included three 210,000 gallon ASTs (Tanks 99, 100, and 101) used to store oily wastewater, one 590,000 gallon AST (Tank 201) used to store JP-5, one 598,000 gallon AST (Tank 202) used to store JP-5, and two 1,500,000 gallon ASTs (Tanks 203 and 204) used to store diesel fuel. The tanks were demolished under a 1998 Military Construction (MILCON) project (P-468) from April 2000 to August 2001. New AST systems were installed with concrete secondary containment in the location of former Tanks 201, 202, 203, and 204. Figure 2-1 shows the location of the site and the position of the tanks as they appeared in 1989 before demolition.

Two Navy Installation Restoration Program (NIRP) sites (Site 9 and Site 16) and two Resource Conservation and Recovery Act (RCRA) Solid Waste Management Units (SWMUs) (SWMUs 11 and 51) have been identified to be located on portions of the FBTF sites. Five RCRA SWMUs (SWMUs 6, 7, 9, 16, and 48) are located adjacent to the FBTF sites. Figure 2-2 shows the location of the FBTF and the surrounding NIRP sites.



DRAWN BY: JLG	DATE: 12/16/08	SITE LAYOUT FORMER BULK TANK FACILITIES NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 031
CHECKED BY:	DATE:		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 2-1 REV: 0

NAVFAC

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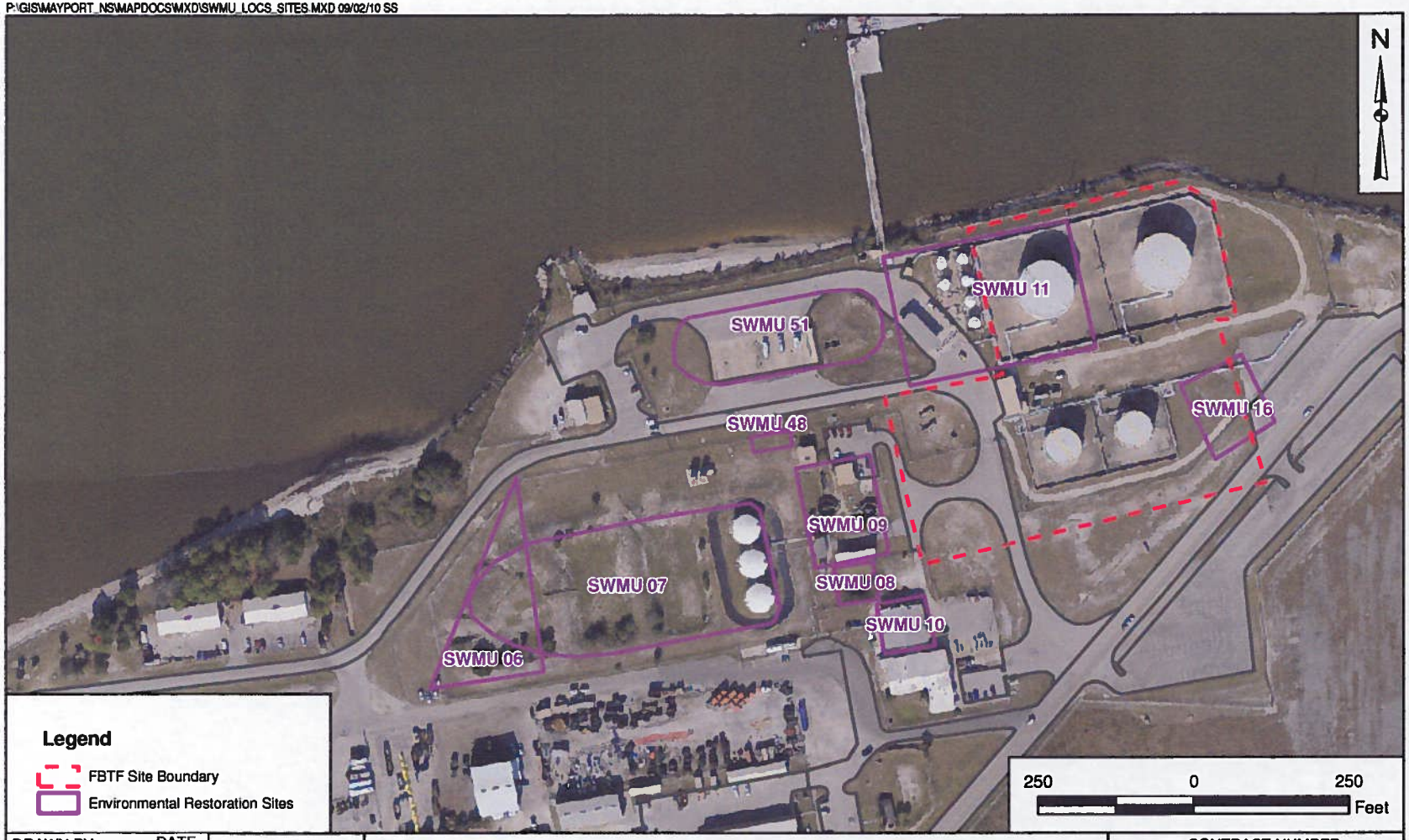


DRAWN BY S. STROZ DATE 09/02/10	NAVFAC	SITE LOCATION AND ADJACENT ENVIRONMENTAL RESTORATION SITES FORMER BULK TANK FACILITIES NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER CTO 031
CHECKED BY K. WEICHERT DATE 09/02/10			APPROVED BY — DATE —
COST/SCHEDULE AREA			APPROVED BY — DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 2-2 REV 0

3.0 SITE HISTORY

3.1 TANKS 99, 100, AND 101 (SWMU 51)

Tanks 99, 100, and 101 were installed at NAVSTA Mayport in 1954 and consisted of 210,000 gallon steel ASTs. Tanks 99 and 100 were used to receive oily wastewater from the Oily Waste Treatment Plant (OWTP). Tank 101 was used to hold the oily phase of the oily waste water that was pumped from Tanks 99 and 100. Tanks 99, 100, and 101 were identified as SWMU 51 in the 1989 RCRA Facility Assessment (RFA) and were included in the sites that were recommended for further investigation (A. T. Kearney, Inc., 1989).

Tanks 99, 100, and 101 were demolished under a 1998 MILCON project (P-468) in 1999 to 2002. In May 2000, Environmental Science Associates, Inc. (ESA) performed a limited closure assessment following the removal of the tanks. As part of the assessment activities, groundwater samples were collected from three existing monitoring wells (MW-15S, MW-03S, and MW-13S) and three temporary monitoring wells (TMW-1, TMW-2, and TMW-3) installed during the assessment. Three soil samples (CS-1, CS-2, and CS-3) were collected from soil borings installed at the site during the assessment. Soil and groundwater samples were submitted to a fixed-base laboratory for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), TRPH, and metals analysis (ESA, 2000a).

The groundwater sample collected from existing monitoring well MW-15S exceeded Florida Department of Environmental Management (FDEP) Groundwater Cleanup Target Levels (GCTLs) for naphthalene, 1-methylnaphthalene, 2-methlynaphthaene, and TRPH. The groundwater sample collected from temporary monitoring well TMW-2 exceeded FDEP GCTLs for naphthalene, 1-methylnaphthalene, and 2-methlynaphthaene. The groundwater sample collected from temporary well TMW-1 exceeded FDEP GCTLs for lead. None of the soil samples had exceedances of FDEP Soil Cleanup Target Levels (SCTLs) (ESA, 2000a).

Tanks 99, 100, and 101 were identified as SWMU 51 in the 1989 RFA Report (A. T. Kearney, Inc., 1989) and were identified as requiring additional investigation. SWMU 51 was classified as a Group II SWMU. When field investigations were conducted at other Group II SWMUs between 1993 and 1994, no field investigations were conducted at SWMU 51. Currently, the area at and around SWMU 51 is used for parking. The temporary and permanent monitoring wells sampled during the limited tank closure assessment are no longer present at SWMU 51. It is believed the wells were destroyed when the parking area was put into place. No environmental samples have been collected at SWMU 51 since the limited tank closure assessment in 2000. A RCRA Facility Investigation (RFI) is currently being conducted for SWMU 51.

3.2 TANKS 201, 202, 203, AND 204

Tanks 201 and 202 were installed at NAVSTA Mayport in 1960 and consisted of one 590,000 gallon AST (Tank 201) used to store JP-5 and one 598,000 gallon AST (Tank 202) used to store JP-5. Tanks 203 and 204 were installed at NAVSTA Mayport in 1960 and consisted of 1,500,000 gallon ASTs used to store diesel fuel.

In October 1996, petroleum free product was discovered in monitoring well MPT-16-MW02S during the RFI for SWMU 16. Monitoring well MPT-16-MW02S was located approximately 90 feet east of Tank 202, and the FBTF were believed to be the source of the free product. In May 1997, Bhate Environmental Associates, Inc. (Bhate) conducted a contamination assessment within the fenced area of Tanks 201, 202, 203, and 204. The area around monitoring well MPT-16-MW02S was also included in the contamination assessment.

The contamination assessment consisted of a soil gas survey, soil sample collection, and groundwater sample collection. The soil gas survey used 75 samplers deployed across the Fuel Farm area upgradient from monitoring well MPT-16-MW02S. The soil gas samplers detected organic constituents at various locations across the site, and suggested that Tank 202 was the likely source of the petroleum release. Soil and groundwater sample locations were based, in part, on the results of the soil gas survey. Thirty-two soil borings were installed utilizing direct push technology (DPT), four shallow [14 to 19 feet below land surface (bls)] soil borings were installed utilizing a hollow-stem auger drill rig, and one deep soil boring (25 feet bls) was installed utilizing a hollow-stem auger drill rig. Two soil samples were collected from each soil boring with the deep of the sample being based on field observations and screenings with an organic vapor analyzer.

The soil samples were submitted to a fixed-base laboratory for TRPH analysis. Four of the soil samples had concentrations that were greater than the current FDEP SCTL for leachability to groundwater. These samples were located in the vicinity of Tank 202; all other sample concentrations were either less than the FDEP SCTL for leachability to groundwater or less than the analytical Method Detection Limit (MDL). During the contamination assessment, groundwater samples were collected from nine newly installed monitoring wells (FF-MW-1 through FF-MW-9) and four existing monitoring wells. 1-Methylnaphthalene and 2-methylnaphthalene were detected in one monitoring well (FF-MW-5) at concentrations greater than FDEP GCTLs. BTEX and PAH constituents were either less than FDEP GCTLs or less than the analytical MDL. Monitoring well FF-MW-5 was located adjacent to Tank 202. Monitoring well MPT-16-MW02S contained 1/32 inch of free product. The soil gas survey identified two areas (to the immediate north and south of Tank 202) of former spills or petroleum contamination. No soil or groundwater exceedances were observed in samples collected under this assessment. Bhate submitted a Contamination

Assessment Report (CAR) in November 1997 that recommended site wide groundwater monitoring (Bhate, 1997).

In June 1998, Bhate conducted additional soil and groundwater investigations in the vicinity of Tank 202 based on the results from the CAR. The investigation consisted of the collection of soil samples at three locations adjacent to Tank 202, the installation of two additional monitoring wells (FF-MW-10 and FF-MW-11), and the collection of groundwater samples. The soil samples were submitted to a fixed-base laboratory for BTEX, PAH, and TRPH analysis. TRPH was detected at concentrations greater than FDEP SCTLs at two soil sample locations. All other constituents were either not detected or were detected at concentrations less than FDEP SCTLs. Groundwater samples were collected from the two newly installed monitoring wells and submitted to a fixed-base laboratory for BTEX, PAH, TRPH, and total lead analysis. Naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH were detected at concentrations greater than the current FDEP GCTLS in monitoring well FF-MW-10. No constituents were detected at concentrations greater than the current FDEP GCTLS in monitoring well FF-MW-11. The results of the additional investigation were submitted in a CAR Addendum dated October 1998 (Bhate, 1998).

In July 1999, Bhate conducted groundwater monitoring based on the results from the additional soil and groundwater investigations conducted in June 1998. The investigation consisted of the collection of groundwater samples from seven of the existing monitoring wells for TRPH and PAH analysis. 1-Methylnaphthalene and 2-methylnaphthalene were detected at concentrations greater than the current FDEP GCTLS in monitoring well MPT-16-MW02S (Bhate, 1999).

The four ASTs were demolished under a 1998 MILCON project (P-468) conducted from 1999 through 2002. The tanks were replaced with new ASTs that were built with concrete secondary containment.

A Limited Tank Closure Report for Tank 201 was prepared by Aerostar Environmental Services, Inc. (Aerostar) in January 2001. The closure assessment consisted of the collection of 5 soil samples from the base of the tank, 8 soil samples from the perimeter of the tank, and 13 groundwater samples collected at each of the soil sample locations. The assessment identified one soil sample location where TRPH was identified at a concentration greater than the FDEP SCTL. Groundwater samples at two locations around the perimeter of the tank showed 1-methylnaphthalene and 2-methylnaphthalene at concentrations greater than FDEP GCTLs. Benzo(a)anthracene was detected at concentrations greater than FDEP GCTLs at two ground water sample locations around the perimeter of the tank, and acenaphthalene and chrysene were detected at concentrations greater than FDEP GCTLs at one groundwater sample location (Aerostar, 2001a). A copy of the Closure Assessment Report is included in Appendix A.

A Limited Tank Closure Report for Tank 202 was prepared by Aerostar in March 2001. The closure assessment consisted of the collection of 5 soil samples from the base of the tank, 8 soil samples from

the perimeter of the tank, and 13 groundwater samples collected at each of the soil sample locations. The assessment identified nine soil sample locations where TRPH was identified at concentrations greater than FDEP SCTLs. Naphthalene was detected at concentrations greater than FDEP GCTLs at 3 groundwater sample locations, 1-methylnaphthalene was detected at concentrations greater than FDEP GCTLs at 11 groundwater sample locations, and 2-methylnaphthalene was detected at concentrations greater than FDEP GCTLs at 8 groundwater sample locations (Aerostar, 2001b). A copy of the Closure Assessment Report is included in Appendix A.

A Limited Closure Summary Report for Tank 203 was prepared by ESA in August 2000. The closure assessment consisted of the collection of 5 soil samples from the base of the tank, 8 soil samples from the perimeter of the tank, and 13 groundwater samples collected at each of the soil sample locations. The assessment identified one soil sample location where benzo(a)anthracene and one soil sample location where benzo(a)pyrene were detected at concentrations greater than FDEP SCTLs. No constituents were detected at concentrations greater than FDEP GCTLs in the groundwater (ESA, 2000b). A copy of the Closure Assessment Report is included in Appendix A.

A Limited Tank Closure Report for Tank 204 was prepared by Aerostar in October 2001. The closure assessment consisted of the collection of 5 soil samples from the base of the tank, 8 soil samples from the perimeter of the tank, and 13 groundwater samples collected at each of the soil sample locations. The assessment identified one soil sample location where TRPH was identified at a concentration greater than the FDEP SCTL. Benzo(a)anthracene was detected in the groundwater at concentrations greater than FDEP GCTLs at three locations, and chloromethane was detected in the groundwater at a concentration greater than FDEP GCTL at one location (Aerostar, 2001c). A copy of the Closure Assessment Report is included in Appendix A.

3.3 NIRP SITE 9 FUEL SPILL AREA (SWMU 11)

NIRP Site 9 was located in the Fuel Farm area to the north and west of Tank 201 and consisted of soil contamination identified from a stained soil discovered in a soil boring installed for a construction plan. The source of the contamination is unknown, but is suspected to be from fuel that was spilled or leaked from the Fuel Farm and was believed to be JP-4, JP-5, or diesel fuel-marine. Site 9 was identified in the Initial Assessment Study conducted in 1986 by Environmental Science and Engineering, Inc. (ESE) for the Navy Assessment and Control of Installation Pollutants Program (ESE, 1986). An Expanded Site Investigation (ESI) was conducted at Site 9 in 1988 by E. C. Jordan and Company Engineers and Scientists (E. C. Jordan). Three subsurface soil samples were collected and submitted to a laboratory for analysis of VOCs, SVOCs, and total metals. Methylene chloride was detected in one soil sample at a concentration of 186 micrograms per kilogram (µg/kg). This concentration is less than the current FDEP SCTL for residential direct exposure, but does exceed the SCTL for leachability to groundwater. No other

constituents were detected in the soil samples. During the ESI at Site 9, three monitoring wells were installed at the site, and groundwater samples were collected and analyzed for VOCs, SVOCs, pesticides, and total metals. Naphthalene and aldrin were detected at concentrations that exceeded the FDEP GCTL, and all other constituents were less than GCTLs (E. C. Jordan, 1988).

Site 9 was identified as SWMU 11 in the 1989 RFA and was included in the sites that were recommended for an RFI (A. T. Kearney, Inc., 1989). SWMU 11 was included in the Group II SWMU sites, and an RFI was conducted for the Group II SWMUs in 1993 and 1994. During the RFI field activities, soil and groundwater screening samples and groundwater samples were collected at the site. Two soil screening borings (MPT-8-T19 and MPT-8-T21) were install at the site using DPT, and soil samples were collected at depths of 8 to 10 feet bls and 12 to 14 feet bls in boring MPT-8-T19, and 12 to 14 feet bls in boring MPT-8-T21. The soil screening samples were submitted for TRPH analysis, and TRPH was detected in all three soil samples at concentrations that ranged from 1,163 to 18,459 milligrams per kilogram. All three of the soil screening samples exceeded the current FDEP SCTL for leachability to groundwater. Groundwater samples were collected from each of the borings and submitted for TRPH analysis. TRPH was detected in each of the groundwater screening samples at concentrations of 2 and 4.2 micrograms per liter. Based on the results of the soil and groundwater screening, one monitoring well (MPT-8-MW12S) was installed. Groundwater samples were collected from the monitoring well and analyzed for VOCs, SVOCs, and metals. The analytical results of the groundwater samples for the VOCs and SVOCs constituents did not exceed the current FDEP GCTLs. Additional sampling is being conducted at SWMU 11, and an RFI Addendum will be prepared for the site.

3.4 NIRP SITE 16 TRANSFORMER STORAGE YARD (SWMU 16)

NIRP Site 16 was located east of Tank 204 on an abandoned runway. The site has been used since 1981 to store out of service transformers. It is not known if transformers containing polychlorinated biphenyls (PCBs) have been stored at the site. Minor spills and leaks have been reported to have occurred at the site. During an ESI conducted at the site in 1988, two surface soil samples were collected and analyzed for VOCs, SVOCs, PCBs, pesticides, and total metals. Dichlorodiphenyltrichloroethane (DDT) and dichlorodiphenyldichloroethylene were detected at concentrations greater than the current FDEP SCTLs for residential exposure and leachability to groundwater in one of the samples (MPT-16-SS1), and DDT and dichlorodiphenyldichloroethane were detected at concentrations greater than the current FDEP SCTLs for residential exposure and leachability to groundwater in one of the samples (MPT-16-SS2). All other constituents were either not detected or detected at concentrations less than SCTLs. No groundwater samples were collected at Site 16 during the ESI.

Site 16 was identified as SWMU 16 in the 1989 RFA and was included in the sites that were recommended for an RFI. SWMU 16 was included in the Group II SWMU sites, and an RFI was

conducted for the Group II SWMUs in 1993 and 1994. During the RFI field activities surface soil, subsurface soil, and groundwater were collected at the site. ABB Environmental Services, Inc. (ABB-ES) conducted RFI field activities during two events in 1993 and 1994 at SWMU 16. In 1993, three groundwater monitoring wells were installed, and 37 surface soil samples, 6 subsurface soil samples, and 3 groundwater samples were collected and analyzed. In 1994, an additional groundwater monitoring well was installed, and groundwater samples were collected from the existing and newly installed monitoring wells for analysis (ABB-ES, 1996).

Results of the surface soil assessment did not indicate the presence of PCBs when soils were tested with field test kits; however, the PCB Aroclor-1260 was detected in all the confirmation surface soil samples at concentrations below 200 µg/kg. The PCB Aroclor-1248 was detected in one surface soil sample at a concentration of 69 µg/kg. The concentration of PCBs detected in surface soil during the RFI investigation was less than the FDEP SCTL (ABB-ES, 1996).

Results of the subsurface soil assessment performed during monitoring well installation indicated the presence of VOCs, SVOCs, pesticides, and PCBs. None of the compounds were detected at concentrations greater than their respective benchmark standards (ABB-ES, 1996). Petroleum related compounds in the subsurface soil were detected just above the water table. The petroleum related compounds were believed to have migrated laterally onto the site from the adjacent Fuel Farm and were not related to a release from SWMU 16. The detected pesticide, chlordane, was attributed to historical pesticide application. The PCB Aroclor-1260 was detected at 17 µg/kg in the subsurface soil sample collected from the 3 to 4 foot interval from the soil boring for monitoring well MPT-16-MW03S. Two inorganic analytes, beryllium and arsenic, were detected at concentrations exceeding benchmark standards; however, the two constituents were detected in an area outside the transformer storage area, and the analytes are suspected to have been from dredge material.

No chemical constituents were detected in exceedance of both background screening concentrations and FDEP GCTLs (ABB-ES, 1996).

In 1995, the surface soil and pavement (approximately 18 inches bls) at SWMU 16 were removed to prepare the area prior to paving for use as a parking lot. The excavated materials were temporarily stockpiled approximately 250 feet southwest of SWMU 16. On July 19, 1995, Navy personnel collected four composite samples of the materials excavated from SWMU 16 and analyzed the samples with a field immunoassay test kit. The composite samples results suggested that PCB concentrations were less than the human health-based residential and industrial FDEP SCTLs (ABB-ES, 1996).

Based on the results of the field investigation and excavation work conducted at SWMU 16, it was recommended in the RFI that no further investigation was necessary for SWMU 16.

On May 15, 2002, TtNUS mobilized to SWMU 16 to collect additional (confirmation) soil samples. The soil samples were collected to confirm the results of the RFI for SWMU 16. Three soil samples were collected at the approximate locations where PCBs were detected in excess of the United States Environmental Protection Agency (USEPA) Region III Risk-Based Concentrations during the RFI. The three soil borings were advanced with a stainless steel hand auger and were identified as MPT-16-SSE7, MPT-16-SSF2, and MPT-16-SSG7. The three soil samples were analyzed for Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260. The analytical results indicated that PCBs were not present in the 1-foot interval soil samples from soil borings MPT-16-SSE7, MPT-16-SSF2, and MPT-16-SSG7.

Based on the results of the soil sampling and analysis activities conducted in May 2002, PCBs are not present in surface soil at SWMU 16. As a result, TtNUS recommended the preparation of an NFA Statement of Basis for SWMU 16.

3.5 NIRP SITE 8 WASTE OIL PIT AREA (SWMU 6)

NIRP Site 8 is located southwest of the Fuel Farm area approximately 300 feet southwest of the former location of Tank 99. Site 8 consisted of an inactive waste oil pit located on the western portion of the OWTP. The site consisted of a 0.2 acre triangular shaped pit that was excavated to a depth of approximately 6 feet bls. The pit was used to from 1973 to 1978 to store waste oily bilge water that was pumped to it from ships. The pit also received waste oils and substances mixed with waste oil. The pit was not lined, and bilge water and oily waste were allowed to seep into the underlying soils. It was estimated that 250,000 gallons of bilge water and several thousand gallons of waste oil were disposed in the waste oil pit. The pit was filled and cover in 1979, and a sludge dying bed was constructed on top of the pit (A. T. Kearney, 1989).

An ESI was conducted at the site in 1988 (E. C. Jordan, 1988). During the ESI, three monitoring wells were installed at the site and groundwater samples were collected and analyzed for VOCs, SVOCs, pesticides, PCBs, and total metals. Benzene, naphthalene, bis(2-ethylhexyl)phthalate, and lead were detected at concentrations that exceeded FDEP GCTLs. All other constituents were either not detected or detected at concentrations less than GCTLs. Monitoring well MPT-8-2, which is the monitoring well located closest to the FBTF, was observed to contained free phase petroleum product.

Site 8 was identified as SWMU 6 in the 1989 RFA and was included in the sites that were recommended for an RFI. SWMU 6 was included in the Group II SWMU sites, and an RFI was conducted for the Group II SWMUs in 1993 and 1994. During the RFI field activities, sludge, subsurface soil, and groundwater samples were collected at SWMU 6. Five sludge samples and two subsurface soil samples were collected at SWMU 6. The analytical results of the sludge and soil samples indicated that soils and

at SWMU 6 had been impacted by VOC and SVOC constituents. Groundwater samples were collected during the RFI from four monitoring wells located on or adjacent to SWMU 6 (MPT-8-MW01S, MPT-8-MW02S, MPT-8-MW03S, and MPT-8-MW06S). Free product was present in monitoring wells MPT-8-MW02S and MPT-8-MW03S during the RFI. These wells are located down-gradient from SWMU 6 and to the southwest of Tanks 99, 100, and 101.

3.6 OILY WASTE TREATMENT PLANT (SWMU 9)

The OWTP was identified as SWMU 9 in the 1989 RFA and was included in the sites that were recommended for an RFI (A. T. Kearney, 1989). SWMU 9 is located south of the Fuel Farm area approximately 150 feet south of the former location of Tanks 100 and 101. The OWTP was constructed around 1979 and used to treat bilge water from ships and other oily waste generated at NAVSTA Mayport. At the time of the RFA, SWMU 9 included a rapid mix/flocculation tank, a clarifier, a neutralization tank, and connected piping. The OWTP was updated in 1989 and currently consists of a dissolved air floatation unit and three holding tanks.

SWMU 9 was included in the Group II SWMU sites, and a RFI was conducted for the Group II SWMUs in 1993 and 1994. During the RFI field activities, groundwater samples were collected at SWMU 9. Two soil screening locations were located at SWMU 9 during the RFI. No petroleum constituents were detected at SWMU 9 during the soil screening. Groundwater samples were collected during the RFI from monitoring well MPT-8-MW09S. Three SVOC constituents were detected at concentrations greater than current FDEP GCTLs (2-methylphenol; 2,4-dimethylphenol; and 3- & 4-methylphenol). SWMU 9 is located upgradient of Tanks 99, 100, and 101. Additional sampling is being conducted at the SWMU 9, and an RFI Addendum will be prepared for the site.

3.7 OWTP SLUDGE DRYING BEDS (SWMU 7)

The OWTP sludge drying beds were identified as SWMU 7 in the 1989 RFA and were included in the sites that were recommended for an RFI. SWMU 7 consists of three sludge drying beds that were used to dewater sludge from the OWTP and is located approximately 150 feet north of the former location of Tank 99. Each drying bed is approximately 150 feet in length, 50 feet wide, and consisted of unlined beds with earthen berms that were approximately 15 feet above land surface. The sludge placed in these beds was from the clarifier of the OWTP and from sludge that settled to the bottom of Tanks 99 and 100.

SWMU 7 was included in the Group II SWMU sites, and an RFI was conducted for the Group II SWMUs in 1993 and 1994. During the RFI field activities, sludge, subsurface soil, and groundwater samples were collected at SWMU 7. Thirteen sludge samples and two subsurface soil samples were collected at SWMU 7. The analytical results of the sludge and soil samples indicated that soils and at SWMU 7 had

been impacted by VOC and SVOC constituents. Groundwater samples were collected during the RFI from 7 monitoring wells located adjacent to SWMU 7 and 11 monitoring wells located down gradient from SWMUs 6 and 7. The 11 down gradient monitoring wells were located around the perimeter of the former locations of Tanks 99, 100, and 101. Free product was present in monitoring wells MPT-8-MW02S, MPT-8-MW03S, and MPT-8-MW07S during the RFI. These wells are located down gradient from SWMU 6 and south and southwest of Tanks 99, 100, and 101.

3.8 FORMER CHEMISTRY LAB ACCUMULATION AREA (SWMU 48)

The former chemistry lab accumulation area was identified as SWMU 48 in the 1989 RFA and was included in the sites that were recommended for further investigation. SWMU 48 was located in a grass field behind (west and north) the chemistry lab at the OWTP and consisted of poorly maintained 55-gallon drums and smaller plastic containers that were reported to contained mercury and plating waste generated at the OWTP chemistry lab.

Between June and August 1998, soil and groundwater samples were collected at SWMU 48 by ABB-ES. The sampling was conducted as part of a RFA Sampling Visit (RFA SV) (confirmatory sampling) for the Group I and II SWMUs (ABB-ES, 1995). During the RFA SV, five surface soil samples, two subsurface soil samples, and four groundwater samples were collected at SWMU 48 and analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. One subsurface soil sample contained arsenic at a concentration greater than the current FDEP SCTL. All other constituents in the soil samples were either less than SCTLs or not detected in the sample. Benzene, 2-methylnaphthalene, naphthalene, and lead were detected at concentrations greater than current FDEP GCTLs in monitoring well MPT-8-MW07S. 2-Methylphenol; 2,4-dimethylphenol; 3- & 4-methylphenol; iron; manganese; and sodium were detected at concentrations greater than current FDEP GCTLs in monitoring well MPT-8-MW09S. Sodium was detected at concentrations greater than current FDEP GCTLs in monitoring well MPT-8-MW08S. All other constituents in the groundwater samples were either less than GCTLs or not detected in the sample. Free product was observed in monitoring well MPT-8-MW07S in 1994. Monitoring well MPT-8-MW07S was located hydraulically upgradient from SWMU 48, and the free product and VOC and SVOC constituents detected in the well during the RFA SV are not believed to be attributable to SWMU 48. An NFA letter was issued for the site by the USEPA in 1996.

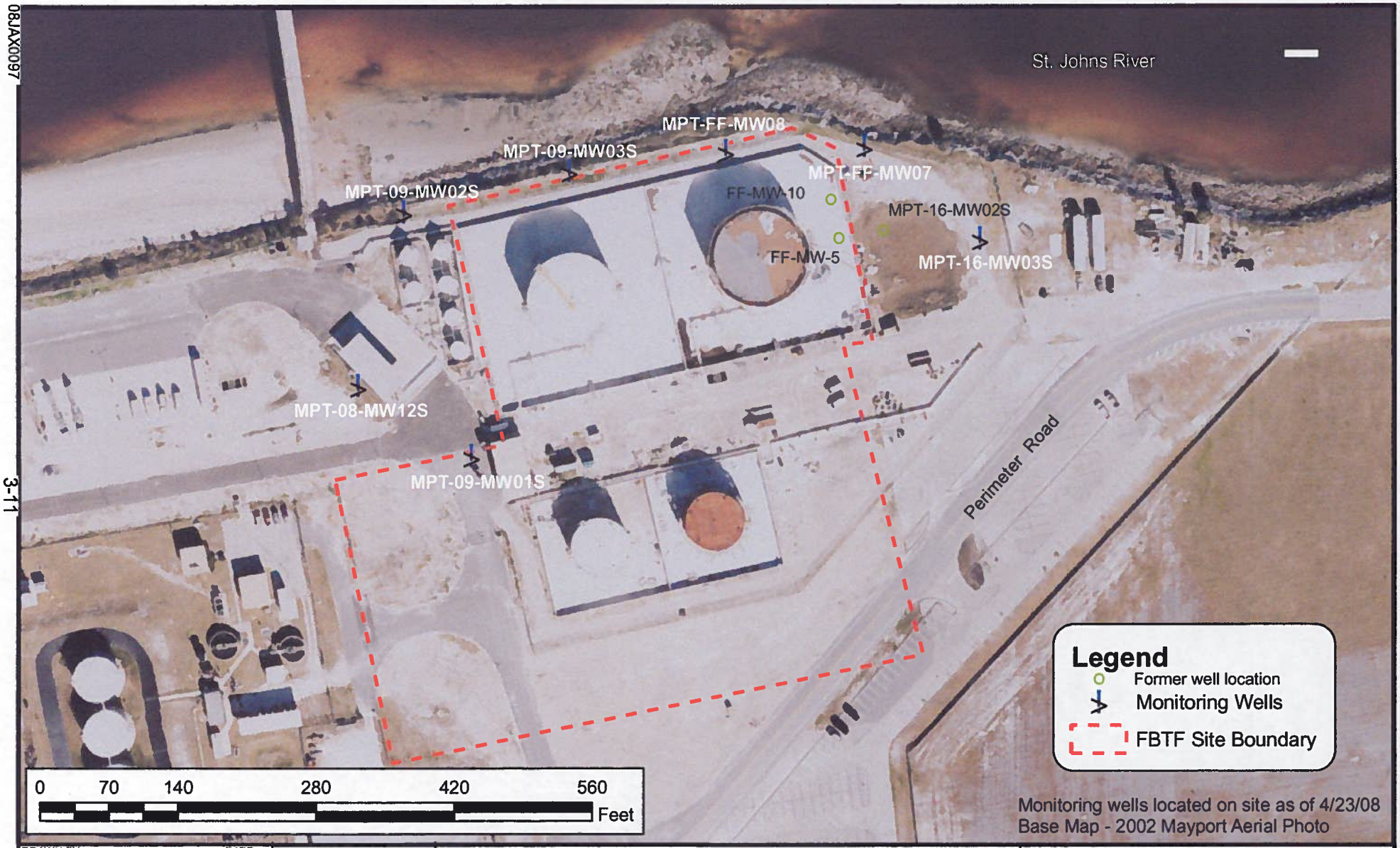
3.9 CURRENT SITE SOIL AND GROUNDWATER CONDITIONS AT THE FBTF

Soil contamination identified at the FBTF during the investigations associated with Tanks 201, 202, 203, and 204 is believed to have been removed during the construction of the new ASTs installed at the site. No documentation is available to support the excavation and disposal of the contaminated soil. The soil sample locations that contained constituents at concentrations greater than FDEP SCTLs have been covered by the secondary containment of the newly installed ASTs.

In May 2008, TtNUS conducted a survey of existing monitoring wells located at the FBTF. The majority of the monitoring wells installed during the investigations at SWMU 16 and the Bhate contamination assessment are no longer present at the site and were most likely removed or destroyed during the installation of the new ASTs. The monitoring wells that were located at the site at the time of the well survey are shown on Figure 3-1.

On April 23 and 24, 2008, TtNUS personnel collected groundwater samples from seven monitoring wells located in the vicinity of the FBTF. Groundwater samples were collected from monitoring wells MPT-08-MW12S-0408, MPT-09-MW01S-0408, MPT-FF-MW07-0408, MPT-16-MW03S-0408, MPT-FF-MW08-0408, MPT-09-MW02S-0408, and MPT-09-MW03S-0408. Groundwater sampling was conducted in general accordance with FDEP Standard Operating Procedures (SOPs) (DEP-SOP-001/01) adopted in 2004. After collection, samples were immediately placed on ice and delivered to Environmental Conservation Laboratories, Inc. (ENCO) in Jacksonville, Florida for analysis of BTEX and MTBE using USEPA Method 8260B, 16 method listed PAHs plus 1- and 2-methylnaphthalene using USEPA Method 8270, and TRPH using the Florida Petroleum Range Organics (FL-PRO) Method. Field data sheets are provided in Appendix B, and the groundwater analytical report is included as Appendix C. Groundwater analyzed from the monitoring wells had no petroleum impacts greater than the FDEP GCTLs for all constituents (BTEX, MTBE, PAHs, and TRPH). Free product was not observed in any of the monitoring wells during the groundwater sampling event.

On October 31, 2008, TtNUS personnel installed three temporary monitoring wells (MPT-FF-TMW01, MPT-FF-TMW02, and MPT-FF-TMW03) in the vicinity of the former location of monitoring well MPT-16-MW02S (see Figure 3-2). The temporary monitoring wells were installed to depths of 18 feet using DPT techniques. The wells were constructed of 2-inch inside diameter, Schedule 40, flush-joint polyvinyl chloride risers and flush-joint 0.010-inch factory-slotted well screens. The well screens were 10 feet in length and positioned to intersect the water table. Following well installation and development, measurements were taken from each monitoring well using an Oil Recovery System (ORS) free product probe that electronically sounds differently for free product and water. Free product was not present in any of the three newly installed monitoring wells.

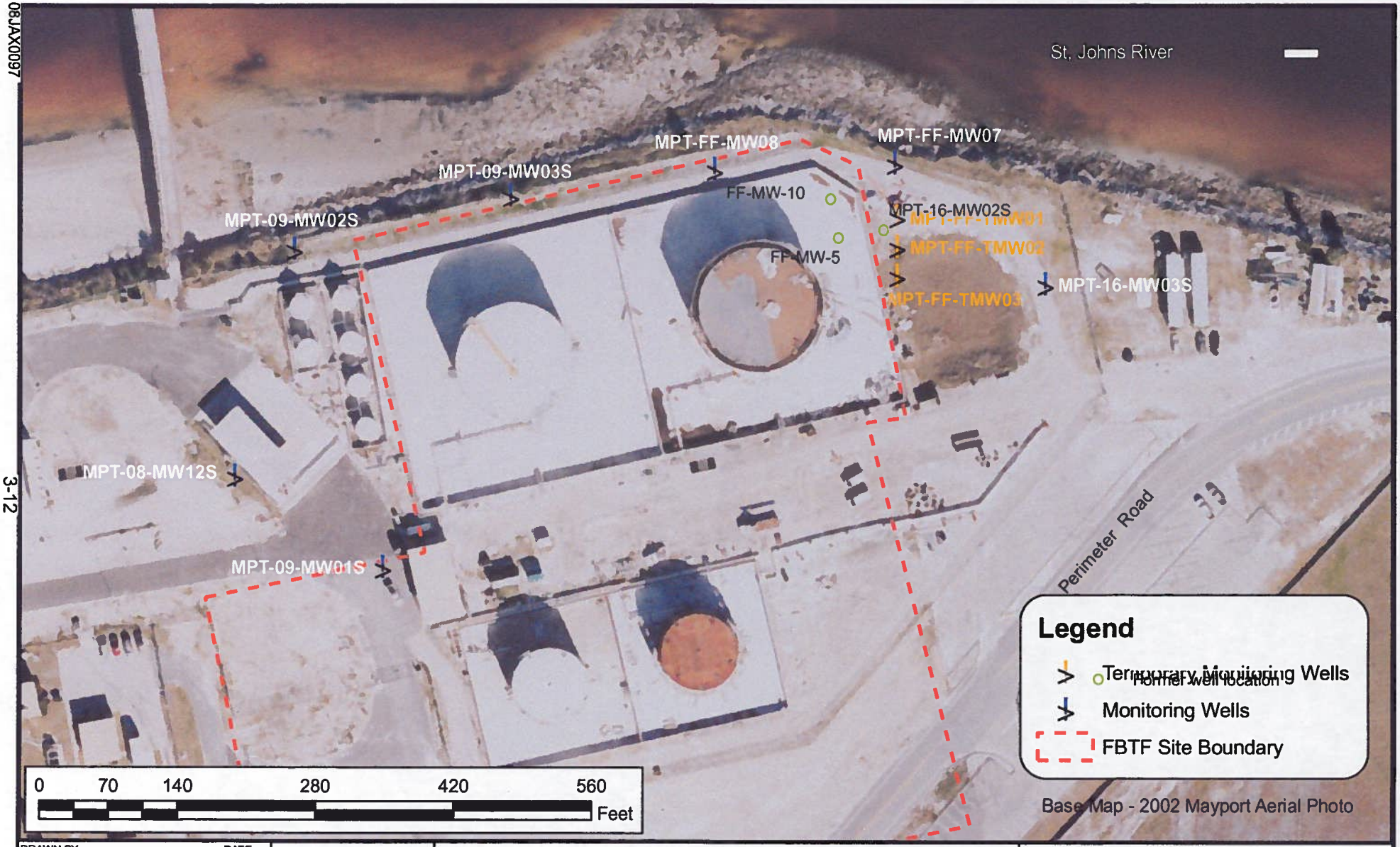


DRAWN BY: JLG	DATE: 12/16/08	FBTF MONITORING WELL LOCATIONS NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 031
CHECKED BY:	DATE:		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 3-1 REV: 0

08JAX0097

3-11

CTO 0031



DRAWN BY: JLG	DATE: 12/16/08	FBTF TEMPORARY MONITORING WELL LOCATIONS NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER: CTO 031
CHECKED BY:	DATE:		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA:			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 3-2 REV: 0

08JAX0097

3-12

CTO 0031

On November 24, 2008, TtNUS personnel returned to the site to check the three temporary monitoring wells for free product. Measurements were taken from each temporary monitoring well using an ORS free product probe. Free product was not present in any of the temporary monitoring wells.

On March 2, 2010, TtNUS personnel installed a new monitoring well between MPT-FF-MW07 and MPT-16-MW03S, as discussed in the May 2009 Team meeting (Team, 2009). The new monitoring well was given the sample identification MPT-FF-MW-6R due to its close proximity to the former monitoring well MPT-FF-MW-6. The monitoring well was installed to a depth of 15 feet bls and will be included in future groundwater sampling events.

4.0 OBJECTIVE AND SCOPE OF PROPOSED ASSESSMENT

The objective of the proposed assessment described in this work plan is as follows:

- Monitoring for the presence of free product and determine the horizontal extent of groundwater impacts (if present).

- Collect data to complete a Global RBCA evaluation in accordance with Chapter 62-780, F.A.C.

The work in the following sections will be completed in accordance with the FDEP SOPs.

4.1 MOBILIZATION

Field mobilization activities will take place on the first day of each phase of work and will include travel and on-site preparatory activities. These activities will include receiving, storage, and testing of field equipment.

4.2 FREE PRODUCT INVESTIGATION

Free product was identified in historical site investigations at the site. Free product was observed in monitoring well MPT-16-MW02S during the contamination assessments conducted by Bhate in 1997 and 1999. Monitoring well MPT-16-MW02S was either removed or destroyed during removal and installation of the ASTs at the site. Three temporary monitoring wells have been installed in the vicinity of the former location of monitoring well MPT-16-MW02S and were evaluated for the presence of free product. No free product has been observed in the three temporary monitoring wells. One of the three temporary monitoring wells will be converted into a permanent monitoring well and will be continued to be monitored for the presence of free product. The other two temporary monitoring wells will be properly abandoned. This investigation will evaluate the condition of the groundwater and determine if free product is present at the site.

4.2.1 Free Product Survey

Free product measurements will be taken quarterly from each monitoring well using an ORS free product probe. If free product is present, it will be removed through low flow purging using a peristaltic pump and containerized for disposal.

4.3 GROUNDWATER INVESTIGATION

Groundwater samples will be collected from the newly installed permanent monitoring well and the following existing monitoring wells at the site: MPT-08-MW12S, MPT-09-MW01S, MPT-09-MW02S, MPT-09-MW03S, MPT-16-MW03S, MPT-FF-MW07, and MPT-FF-MW08. Groundwater samples will be collected quarterly for one year to gather data to determine if the site is eligible NFA or NFA with Controls under RMO Level I or RMO Level II per Chapter 62-780.680, F.A.C. Following the quarterly events, analytical results will be used to determine if additional monitoring wells are required.

Historically, no release has been identified in the northeastern portion of the fuel depot; therefore, at this time, there is no reason for new groundwater sample results to have changed since the last sampling conducted in 1997 (Bhate, 1997).

4.3.1 Groundwater Flow

Depth-to-water will be measured from the top-of-casing of the monitoring wells using an electronic water level indicator. The relative water table elevation at each location will be calculated by subtracting the depth-to-water measurement from the surveyed top-of-casing elevation, and a groundwater flow direction (potentiometric) map will be generated from the water table elevation data. Depths to groundwater will be recorded on a Water Level Log Sheet (see Appendix D).

A registered surveyor will survey the monitoring well installed during the site assessment. Horizontal positioning will be measured and plotted for each permanent monitoring well in accordance with the Florida State Plane Coordinate System and the North American Datum of 1983. The top-of-casing elevation of each permanent monitoring well will be surveyed in accordance to the North American Vertical Datum of 1988 and referenced to site features (i.e., building corners, etc.).

Aquifer testing will not be necessary to determine aquifer characteristics, since extensive aquifer data for NAVSTA Mayport has been obtained and documented by the United States Geological Survey. This data will be referenced and used if appropriate.

4.3.2 Groundwater Sampling

The wells will be purged using a peristaltic pump using low flow quiescent purging techniques per FDEP SOPs. The data will be recorded on a Low Flow Purge Data Sheet (see Appendix D). Depending on the groundwater parameters, up to five well volumes may be purged. If wells are purged dry with less than three well volumes removed, the water level in the well will be allowed to recover enough to collect five field readings (pH, temperature, turbidity, dissolved oxygen, and specific conductance) prior to collecting a

water sample. If the well does not purge dry using the low flow purging technique, groundwater characteristics will be taken after each well volume of water is purged or at 2- to 10-minute intervals, depending on the flow rate.

Stabilization will be defined according to the following scenarios:

I. When purging a well that has a partially submerged well screen, a minimum of one well volume will be purged prior to collecting measurements of field parameters listed below. If the well screen is fully submerged, then a minimum of one volume of the pump, associated tubing, and flow cell will be purged prior to collecting field parameters listed below. Purging will be considered complete when three consecutive measurements of the field parameters are within the desired limits as shown below.

- Temperature ± 0.2 degree Celsius (°C)
- pH ± 0.2 Standard Unit
- Specific Conductivity ± 5 percent of reading
- Dissolved oxygen is not greater than 20 percent of saturation at the field measured temperature
- Turbidity is not greater that 20 Nephelometric Turbidity Units (NTUs)

II. When purging a well and Scenario I is impossible to achieve, three consecutive measurements of the following parameters are required:

- Dissolved oxygen ± 0.2 milligram per liter or 10 percent, whichever is greater
- Temperature ± 0.2 °C
- pH ± 0.2 Standard Unit
- Specific Conductivity ± 5 percent of reading
- Turbidity ± 5 NTUs or 10 percent, whichever is greater

If stabilization is not achieved, five screen volumes must be removed prior to samples being collected in the appropriate sample containers. Samples to be analyzed for volatile constituents will be collected first and immediately sealed in 40-milliliter (mL) vials so that no headspace exists. Samples will be analyzed for compounds listed in Table 4-1.

The analysis provided in Table 4-1 is based on the Gasoline Analytical Group (GAG) and Kerosene Analytical Group (KAG) analytical groups listed by the FDEP in Table B of Chapter 62-770, F.A.C. The laboratory analyses selected for the GAG and KAG group are designed to identify impacts from a fuel oil

release. The data acquired during sampling at both sites will be recorded on a Groundwater Sample Log Sheet (see Appendix D).

Table 4-1
Laboratory Sample Summary

Contamination Assessment Plan for the FBTF
Naval Station Mayport
Jacksonville, Florida

Analyte	Proposed Method[1]	Environmental Samples	Equipment Blanks (Aqueous)	Trip Blanks (Aqueous)	Total Samples
GROUNDWATER					
VOCs	SW-846 USEPA 8260B	8	1	1	10
PAHs[2]	SW-846 USEPA 8310	8	1	0	9
TRPH	FL-PRO	8	1	0	9

Notes:
[1] Method referenced reflects FDEP requirements.
[2] Includes 1-methylnaphthalene, 2-methylnaphthalene, and 16 method-listed PAHs included in Table A of Chapter 62-770, F.A.C.

4.4 SAMPLE HANDLING

Sample handling includes the selection of sample containers, preservatives, allowable holding times, and the analyses requested. Sample handling procedures will be in accordance with FDEP SOP 001/01 FS1000 and FS2200. Holding times vary from 7 to 14 days. A table of analysis, methods numbers, preservative, and holding time is provided as Table 4-2. Once obtained, the samples are to be placed on ice within 15 minutes of collection and cooled to 4 °C.

4.5 SAMPLE PACKAGING, SHIPPING, AND NOMENCLATURE

Samples will be packaged and shipped in accordance with FDEP SOPs. The Field Operations Leader (FOL) will be responsible for completing the following forms when samples are collected for shipping:

- Sample labels
- Chain-of-Custody labels
- Appropriate labels applied to shipping coolers
- Chain-of-Custody forms
- Federal Express Air Bills

Table 4-2
Summary of Fixed-Base Laboratory Analytical Methods

Contamination Assessment Plan for the FBTF
Naval Station Mayport
Jacksonville, Florida

GROUNDWATER					
Analysis	**Analytical Method**	**Sample Volume [1]**	**Bottleware**	**Preservation[2]**	**Holding Time [3]**
VOCs Aromatic and halogenated	SW-846 8260B	3 x 40 mL	Glass vial Teflon lined septum cap	HCl to pH < 2 Cool to 4 °C Zero headspace	14 days to analysis
SVOCs Both base and neutrals	SW-846 8270C	2 x 1 L	Amber glass Teflon lined cap	Cool to 4 °C	7 days to extraction Analysis within 40 days
TRPH	FL-PRO	2 x 1 L	Amber glass Teflon lined cap	H_2SO_4 to pH < 2 Cool to 4 °C	7 days to extraction Analysis within 40 days

Notes:
[1] – Sample volume may vary based upon the laboratory.
[2] – HCl – Hydrochloric acid; H_2SO_4 – Sulfuric acid
[3] – Holding times are measured from the date and time of sample collection.
L – Liter

Each sample will be assigned a unique sample identification number. The unique label system established for this sampling event is as follows:

Sample identification nomenclature is designed to help differentiate the samples, allowing a quick reference to the Navy base, sample location, medium, location, and depth when applicable. All sample identification's shall have a prefix (MPT) to designate which Navy base the samples are collected, and soil and groundwater designations will be noted by a SS or MW following the base identification. Groundwater samples will be sampled from monitoring wells with next identification noting the well sampled.

Example: MPT FF- MW01

This groundwater sample is representative of a sample collected from well MW01.

4.6 SAMPLE CUSTODY

The chain-of-custody begins with the release of the empty sample bottles from the laboratory and must be documented and maintained from that point forward. To maintain custody of the sample bottles or samples, they must be in someone's physical possession, in a locked room or vehicle, or sealed with an intact custody seal. When the possession of the bottles or samples is transferred from one person to another, it will be documented in the field logbook and on the chain-of-custody. Custody of samples must be maintained and documented at all times. FDEP SOP 001/01 FS 1000 and TtNUS SOP SA-6.3 provide a description of the chain-of-custody procedures to be followed.

The FOL will be responsible for completion of the following forms when samples are collected for shipping:

1. Sample labels
2. Chain-of-custody labels
3. Appropriate labels applied to shipping coolers
4. Chain-of-custody forms
5. Federal Express air bills

All samples are to be shipped to ENCO located at 4801 Executive Park Court in Jacksonville, Florida, (904) 297-3007.

4.7 QUALITY CONTROL SAMPLES

In addition to periodic calibration of field equipment and appropriate documentation on a field calibration sheet (see Appendix D), Quality Control (QC) samples will be collected or generated during environmental sampling activities. QC samples will be collected in accordance with the requirements established during the Plan of Action negotiations.

Trip Blanks – Trip blank(s) are required if the samples will be analyzed for VOCs. Trip blanks are prepared by the laboratory providing the VOC vials and are prepared by filling the preserved vials with analyte-free water.

Equipment/Field Blanks – Equipment/Field blanks are required for sampling equipment used during the investigation. Equipment blank frequency is 5 percent of samples taken (excluding QC samples).

4.7.1 Record Keeping

In addition to chain-of-custody records associated with sample handling, packaging, and shipping, certain standard forms will be completed for sample description and documentation. These shall include sample log sheets (for soil samples), daily activities record (for subcontractors), and logbooks.

The FOL will maintain a bound/weatherproof field notebook. The FOL, or designee, will record pertinent information related to sampling or field activities. This information may include sampling time, weather conditions, unusual events (e.g., well tampering), field measurements, site visitors, descriptions of photographs, etc. At the completion of field activities, the FOL shall submit to the TtNUS Task Order Manager (TOM) all field records, data, field notebooks, logbooks, chain-of-custody receipts, sample log sheets, daily logs, etc.

4.7.2 Investigation Derived Waste Management

Purge water and decontamination water will be collected and containerized in Department of Transportation approved (Specification 17C) 55-gallon drums. Each drum will be sealed, labeled, and transported to a pre-designated staging area designated by NAVSTA Mayport personnel (behind Building 1613) located within NAVSTA Mayport pending groundwater analytical results. All decontamination materials generated during the site investigation will be containerized for proper disposal. It is the responsibility of TtNUS to set up a contract with a licensed contractor for disposal of the investigation derived waste (IDW) following completion of the field sampling. Appropriate IDW documentation will be maintained in the project field log book. In addition to documenting the IDW in the field log book, an IDW management sheet will be filled for each drum stored at Building 1613, and a copy of this sheet will be provided to Diane Fears, NAVSTA Mayport Environmental Department, upon completion of field activities. See Appendix D for a copy of the IDW management sheet.

4.7.3 Equipment Calibration

The field instruments such as the water quality multimeter and turbidity meter will be calibrated daily and/or according to FDEP SOPs FT1000: General Field Testing and Measurement.

Calibration will be documented on an Equipment Calibration Log. During calibration, an appropriate maintenance check will be performed on each piece of equipment. If damaged or defective parts are identified during the maintenance check and it is determined that the damage could have an impact on the instrument's performance, the instrument will be removed from service until defective parts are repaired or replaced. A copy of the field calibration sheet is included in Appendix D.

4.8 DECONTAMINATION

The equipment involved in field sampling activities will be decontaminated prior to and during sampling activities in accordance to FDEP SOP FC1000.

All sampling equipment will be cleaned and decontaminated prior to use and after each subsequent use. Non-disposable equipment used for collecting samples will be decontaminated prior to beginning field sampling and between sample locations. After cleaning, equipment will only be handled by personnel wearing clean gloves to prevent recontamination. The following is a description of the materials to be used in the decontamination process and the procedures to be used for the specific types of equipment.

Specifications for Cleaning Materials:

1. Soap will be a standard phosphate-free laboratory detergent (e.g., Liquinox®).
2. Solvent will be pesticide-grade isopropanol.
3. Tap water may be from any municipal water system.
4. Analyte-free deionized water should contain no detectable heavy metals or other inorganic constituents.

Procedures for Sampling Equipment:

1. Remove all soils to the extent possible.
2. Through a combination of scrubbing using soap and/or steam cleaning remove visible dirt/soils.
3. Rinse with tap water.
4. Rinse equipment with pesticide grade isopropanol. Plastic items should not be solvent rinsed.
5. Rinse thoroughly with deionized water.
6. To the extent possible allow components to air dry.
7. If the device is to be used immediately, screen with a photoionization detector/flame ionization detector to ensure all solvents (if they were used) and trace contaminants have been adequately removed.
8. Remove from the decontamination area and cover with clean plastic. If equipment is to be stored overnight, it will be wrapped in aluminum foil and covered with clean, unused plastic.

Procedures for Water Level Meter:

1. Wash with soap and tap water.
2. Rinse with tap water.
3. Rinse with deionized water.

4.9 FIELD DOCUMENTATION

Field documentation for this assessment will include field logbooks, field log forms, location and sample identification nomenclature, and sample labels.

In addition to chain-of-custody records associated with sample handling, packaging, and shipping, certain standard forms will be completed for sample description and documentation. Dedicated field logbooks will be used to record pertinent field activities. The TOM's name, FOL's name, project name and location, and project number will be recorded on the inside of the front cover of all logbooks. Entries will be recorded with waterproof, non-erasable ink. Each page of the logbook will be numbered and dated. All logbook entries must be legible and contain accurate and complete information about an individual's project activities. At the end of all entries for a particular day, or a particular event if appropriate, the investigator will draw a diagonal line across the page below the last entry and initial indicating the

conclusion of entries. All entries will be objective, factual, and free of personal feelings. Corrections will be made by drawing a single line through the error and entering the correct data. All corrections will be initialed and dated.

4.10 DEMOBILIZATION

Demobilization will occur at the conclusion of all other field activities related to this investigation. Activities to occur during this phase include the installation of well tags on the new monitoring wells, return of all rental field equipment, verification of proper IDW documentation and staging by the FOL, and securing of the site.

4.11 SITE MANAGEMENT AND BASE SUPPORT

TtNUS will perform this project with support from the Navy. This section of the CAP describes the project contacts, support personnel, project milestones, and time frames of all major events.

Throughout the duration of the investigation activities, work at NAVSTA Mayport will be coordinated through NAVFAC SE, FDEP, Fleet and Industrial Supply Center (FISC), and NAVSTA Mayport personnel. The primary contacts are as follows:

1. NAVFAC SE
   Ms. Beverly Washington
   135 Ajax Street N.
   Building 135
   Jacksonville, Fl 32212-0030
   (904) 542-6243

2. FDEP
   Mr. John Winters
   2600 Blair Stone Road
   Tallahassee, FL 32399
   (850) 245-8999

3. FISC
   Mr. Wayne Wragg
   8808 Somers Road
   Jacksonville, FL 32226-2600
   (904) 696-6556, extension 200

4. NAVSTA Mayport Environmental Department
   Ms. Diane Fears
   P.O. Box 280067
   Jacksonville, FL 32228-0067
   (904) 270-6781

NAVSTA Mayport and FISC personnel will provide the following support functions:

- Provide existing engineering plans, drawings, diagrams, files, etc. to facilitate evaluation of the sites under investigation.

- Provide all historical data, background geological and hydrogeological information, and initial site investigation documents.

NAVSTA Mayport and FISC personnel will aid in arranging the following:

- Personnel identification badges, vehicle passes, and/or entry permits.
- A secure staging area (approximately 2,000 square feet) for storing equipment and supplies.
- A supply (e.g., fire hydrant, stand pipe, etc.) of large quantities of potable water for equipment cleaning, sampling, etc.
- As required, provide escorts for contract personnel working in secured areas.

The project will be staffed with personnel from the TtNUS' Jacksonville, Florida office. During field activities, TtNUS will provide an FOL who is familiar with the scope of work to be completed and requirements of working at NAVSTA Mayport. Additionally, TtNUS will supply a field crew to sample the groundwater monitoring wells.

Mr. Mark Peterson is the TOM for CLEAN IV CTO 0031 and will be the primary point of contact for the Station and the FOL. He is responsible for cost and schedule control as well as technical performance. Mr. Peterson will provide senior level review and oversight during field activities.

4.11.1 Contingency Plan

In the event of problems that may be encountered during site activities, the TtNUS TOM will be notified immediately, followed by the NAVFAC SE point of contact, and the NAVSTA Mayport point of contact. The TOM will determine a course of action so as to not interfere with the schedule or budget. Contingency plans will be approved through the NAVFAC SE point of contact before being enacted.

5.0 LABORATORY ANALYSIS

A fixed-base laboratory will be used to analyze groundwater samples for constituents identified in Table 4 1. Groundwater samples will be analyzed for constituents of concern including VOCs, 1-methylnaphthalene, 2-methylnaphthalene, TRPH, and the 16 method listed PAHs included in Table B of Chapter 62-770, F.A.C.

6.0 REPORTING

A report detailing the findings of this assessment will be submitted to FDEP on behalf of the Navy following completion of the field work. The report will use Chapter 62-777, F.A.C., contamination criteria to determine action levels of potential contaminants. The report will compare site conditions to the criteria in Chapter 62-780.680, F.A.C., and based on these results recommendations will be provided.

7.0 PROPOSED SCHEDULE

Field activities include monitoring well installation and development, groundwater sampling, surveying, and IDW management. The first sampling event has been conducted and laboratory results are pending. Additional events will be performed after Navy procurement is completed.

8.0 REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1995. Resource Conservation and Recovery Act (RCRA) Facility Assessment Sampling Visit Report Group I and II Solid Waste Management Units U.S. Naval Station Mayport, Florida.

ABB ES, 1996. Resource Conservation and Recovery Act Facility Investigation Group II Solid Waste Management Units U.S. Naval Station Mayport, Florida.

Aerostar (Aerostar Environmental Services, Inc.), 2001a. Limited Closure Assessment Report Aboveground Storage Tank No. 201, Mayport Naval Station, Florida.

Aerostar, 2001b. Limited Closure Assessment Report Aboveground Storage Tank No. 202, Mayport Naval Station, Florida.

Aerostar, 2001c. Limited Closure Assessment Report Aboveground Storage Tank No. 204, Mayport Naval Station, Florida.

A. T. Kearney, Inc., 1989. RCRA Facility Assessment of the Naval Station Mayport, Florida.

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Bhate, 1998. Addendum to the Contamination Assessment Report NSC Fuel Farm, Naval Station Mayport, Florida.

Bhate, 1999. Addendum # 2 to the Contamination Assessment Report NSC Fuel Farm, Naval Station Mayport, Florida.

E. C. Jordan and Company Engineers and Scientists, 1988. Navy Installation Restoration Program (NIRP) Expanded Site Investigation, Naval Station Mayport, Florida.

ESA (Environmental Science Associates, Inc.), 2000a. Limited Closure Summary Report, Mayport Naval Station Fuel Depot Tanks # 99, 100, 101, Mayport Naval Station, Duval County , Florida.

ESA, 2000b. Limited Closure Summary Report, Mayport Naval Station Fuel Depot Tanks # 203, Mayport Naval Station, Duval County , Florida.

Environmental Science and Engineering, Inc., 1986. Initial Assessment Study Naval Station Mayport, Florida.

Team (NAVSTA Mayport Tier I Environmental Partnering Team), 2007. Partnering Team Meeting Minutes. May.

Team, 2008. Partnering Team Meeting Minutes. May.

Team, 2009. Partnering Team Meeting Minutes, May.

APPENDIX A

AST CLOSURE REPORTS

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tanks # 99, 100, 101
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Prepared for:

Environmental Recovery, Inc.
251 Levy Road
Atlantic Beach, Florida 32233

Prepared by:

Environmental Science Associates, Inc.
35 Jefferson Avenue
Ponte Vedra, Florida 32802
CompQAP #970173

June 2000

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BY:

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Photodocumentation

ATTACHMENT A - Laboratory Reports

ATTACHMENT B - Well Sampling Field Logs

Department of Environmental Protection

TwTwin Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report
Effective Date: 7/13/98

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date 4/25/00	FDEP Facility ID Number 8626008	County Duval
Facility Name US Navy - Mayport Naval Station	Facility Telephone #: ( )	
Facility Address:		
Owner or Operator Name: US Navy	Owner/Operator phone #: ( )	
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both) Tanks #99, 100, 101 - Fuel Depot

• Aboveground	• Underground

2. General System Information

Types of Products Stored: oily wastewater	Number of Tanks Closed 3	Age(s) of Tanks 45 years

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

• Tank Systems Removal? ✓	• Spill Containment Installation?	• Change in Storage to a Non-Regulated Substance?
• Tank Systems Closed in Place?	• Dispenser Liners Installation?	• Release Prevention Barrier Installation?
• Piping Sump Installation?	• Secondary Containment Installation?	• Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	• Yes	• No
1. A Discharge Report Form submitted to the County?	• Yes	• No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	• Yes	• No
b. Is the depth to groundwater less than 20 feet?	• Yes	• No
c. Are there monitoring wells on site? If yes, were they	• Yes	• No
1. Groundwater monitoring wells?	• Yes	• No
2. Vapor monitoring wells?	• Yes	• No
3. Used for closure assessment sampling?	• Yes	• No
4. Properly closed?	• Yes	• No
5. Retained for site assessment purposes?	• Yes	• No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	• Yes	• No

Signature of owner or operator	Signature of person performing Limited Closure Assessment	Name of person performing Limited Closure Assessment
(date)	(date) 4/25/00	Affiliation ESA

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tanks # 99, 100, 101
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Summary of Field Activities

On May 24 and 25, 2000 Environmental Science Associates, Inc. (ESA) was contracted by Environmental Recovery, Inc. (ERI) of Atlantic Beach, Florida (PSSSC #PC-C050751) to perform limited closure assessment services following the removal of three Waste Oil Underground Storage Tanks (UST's) from the Fuel Depot facility (Facility ID #8626008) located on Mayport Naval Station in Duval County, Florida (refer to Figure 1., Site Location Map). The purpose of the limited closure summary was to evaluate current site conditions in the vicinity of the tanks. Subsurface soil and groundwater contamination has been documented at the site in the past, and remedial activities have been conducted.

The tanks, which were each approximately 210,000-gallons in capacity, were reported to have been installed in 1954, and had been used to store oily wastewater. The limited closure assessment was conducted following the UST removals, and was performed in accordance with the requirements of Chapter 62-761 F.A.C. and the Florida Department of Environmental Protection (FDEP) guidance document "Pollutant Storage Tank Closure Assessment Requirements"(April 1998) for sites with previously documented contamination. The methods and procedures used during the closure assessment were conducted in accordance with the FDEP "Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Assessments".

As part of the limited closure assessment, total of three groundwater samples were collected from three (3) pre-existing monitoring wells located on the north side of the tank farm. In addition, a total of three groundwater samples were collected from temporary wells installed on site in selected locations, and a total of three soil samples were collected from soil borings conducted on site for. Each of these samples were

Three (3) pre-existing monitor wells (# MW -15S, # MW-03S, and # MW-13S) were sampled on April 24, 2000, Prior to initiating groundwater sample collection activities, the depth to groundwater and total depth of each well was measured using an electronic water level indicator. The depth to groundwater was determined to be approximately 9 to 10 ft below the original surface grade. A total of five well volumes were purged from each well prior to groundwater sample collection. Well purging and groundwater sample collection of the permanently installed wells was conducted using Teflon bailers. The groundwater samples were placed in laboratory prepared sample containers, appropriately preserved, labeled, sealed in zip-lock type bags, placed on wet ice, and hand-delivered under chain-of-custody procedures to the designated laboratory for analysis. The results of the groundwater analysis is summarized in Table 1, and copies of the laboratory reports and chain of custody forms are provided in Attachment A. Copies of the well sampling field logs are

provided in Attachment B. The results of the laboratory analysis of the groundwater samples collected from the existing monitor wells (#MW-15S, MW-03S, and MW-13S) indicated the presence of petroleum contamination, with the concentrations of Naphthalene (140μg/L) and Total Petroleum Hydrocarbons (Fl-PRO, 15mg/L) in excess of the FDEP Groundwater Cleanup Target Levels, as specified by Chapter 62-775, F.A.C., Table I.

On May 25, 2000, confirmatory soil samples were collected, and temporary wells were installed and sampled in the vicinity of Tanks # 100 and 101.

A total of three (3) confirmatory soil samples were collected from soil borings conducted in proximity to the former tank locations, as follows:

- Confirmatory Soil Sample #CS-1 was collected from the south side of Tank #100. Based On the lack of apparent indications of the presence of soil contamination, the sample was collected at a depth of approximately 8.0 ft below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tank 100.

- Confirmatory Soil Sample #CS-2 was collected from the south side of Tank #101. Based on the lack of apparent indications of soil contamination, the sample was collected at a depth of approximately 8.0 ft below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tank 101.

- Confirmatory Soil Sample #CS-3 was collected from the midpoint between the location of Tank #100 and 101. Based on the lack of apparent indications of soil contamination, The sample was collected at a depth of approximately 8.0 below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tanks #100 and 101.

Each of these samples were collected using a stainless steel hand auger and Encore® brand samplers. Sampling equipment was decontaminated between sampling locations to prevent the possibility of cross-contamination. The samples were placed into pre-cleaned, laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for transport, and hand-delivered to a FDEP-approved laboratory (ENCO Laboratories, Jacksonville) for analysis by the following methods:

EPA Method 8260	Volatile Organic Compounds
EPA Method 8270	Extractable Organic Compounds
Fla-PRO	Total Petroleum Hydrocarbons
RCRA Metals	As, Ba, Cd, Cr, Pb, Hg, Ag, Se

The results of the laboratory analysis of the soil samples were below laboratory detection limits for all chemicals of concern, with the exception of Arsenic, which was detected in soil samples #CS-1 and CS-2 at concentrations of 1.2 mg/Kg and 1.5 mg/Kg, respectively, as well as Chromium

and Lead, which were detected in soil sample #CS-1 at concentrations of 1.0 mg/Kg and 4.4 mg/Kg, respectively. The results of the soil analysis are summarized in Table 2, and soil sampling locations are illustrated in Figure 3.

Following confirmatory soil sample collection, each of the three (3) soil borings were advanced below the top of the water table and temporary monitor wells were installed and sampled. Each of the temporary wells (TMW-1, TMW-2 and TMW-3) were constructed of 2-inch PVC with 5 ft of 0.01.-inch slotted well screen, and was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of approximately 9 ft below surface grade, and the annular space around the well screen was filled with clean 6/20 grade sand pack. Prior to sample collection, each temporary well was purged a total of five (5) standing volumes using a portable peristaltic pump. Groundwater samples were collected from each temporary well using a Teflon bailer. Sample containers, which had been provided by the designated laboratory, were appropriately labeled, preserved, sealed in zip-lock type bags, placed on wet ice, and hand-delivered, under standard chain of custody procedures, to an FDEP-approved environmental laboratory (ENCO Laboratories, Jacksonville) for analysis, as follows:

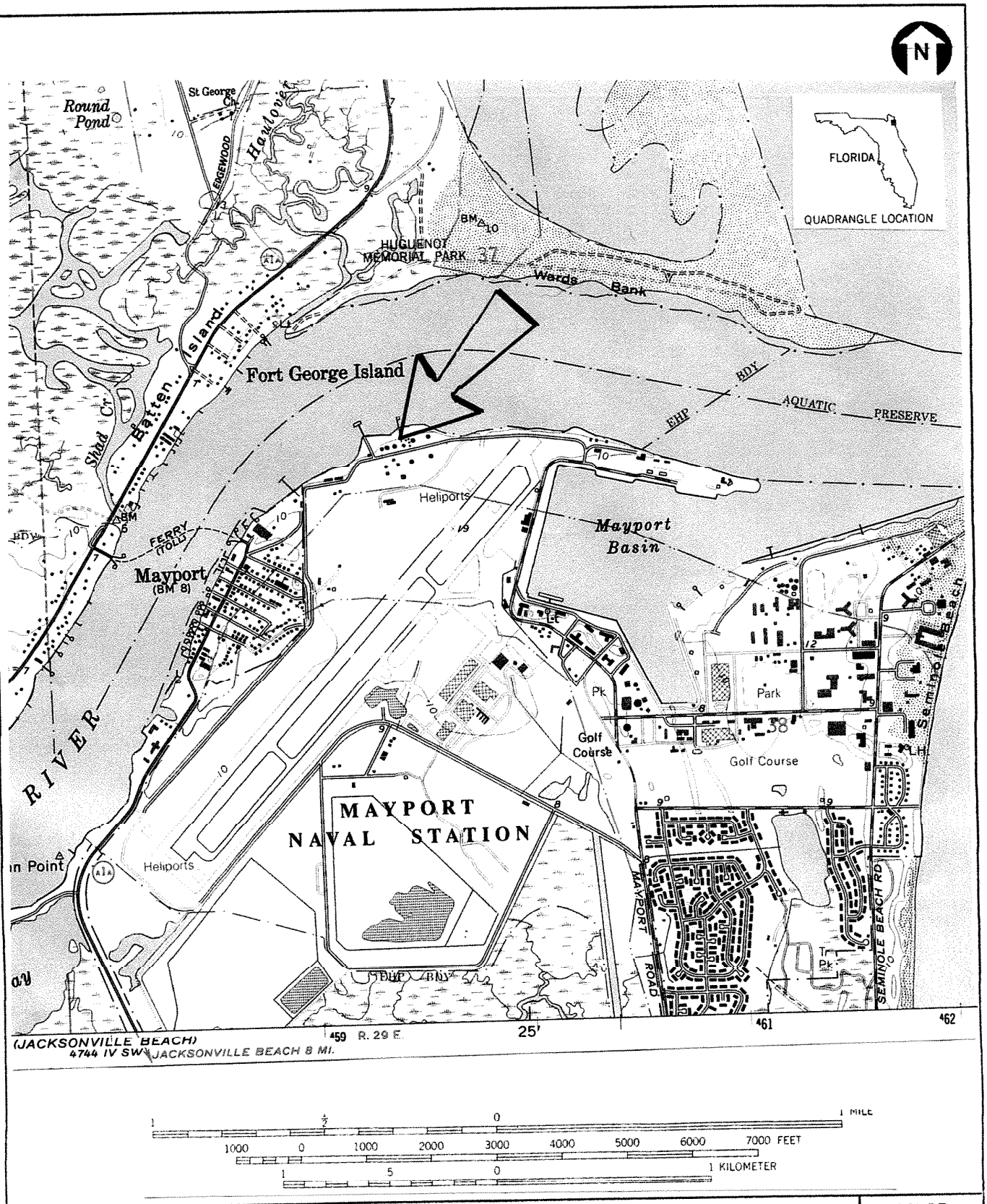
EPA Method 8260	Volatile Organic Compounds
EPA Method 8270	Extractable Organic Compounds
Fla-PRO	Total Petroleum Hydrocarbons
RCRA Metals	As, Ba, Cd, Cr, Pb, Hg, Ag, Se

The results of the laboratory analysis of the groundwater samples collected from temporary monitor wells # TMW-1, TMW-2, and TMW-3 are summarized in Table 3, and temporary well locations are illustrated in Figure 2. The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells indicated concentrations of petroleum hydrocarbons, including present in each of the wells, with the concentration of Naphthalene detected in TMW-2 (120μg/L) and the concentration of Lead detected in TMW-1 (0.074mg/L) in excess of the FDEP Groundwater Cleanup Target Levels, as specified by Chapter 62-775, F.A.C., Table I. Copies of the laboratory report of the groundwater analysis are provided in Attachment A, and the temporary well locations are illustrated in Figure 2.

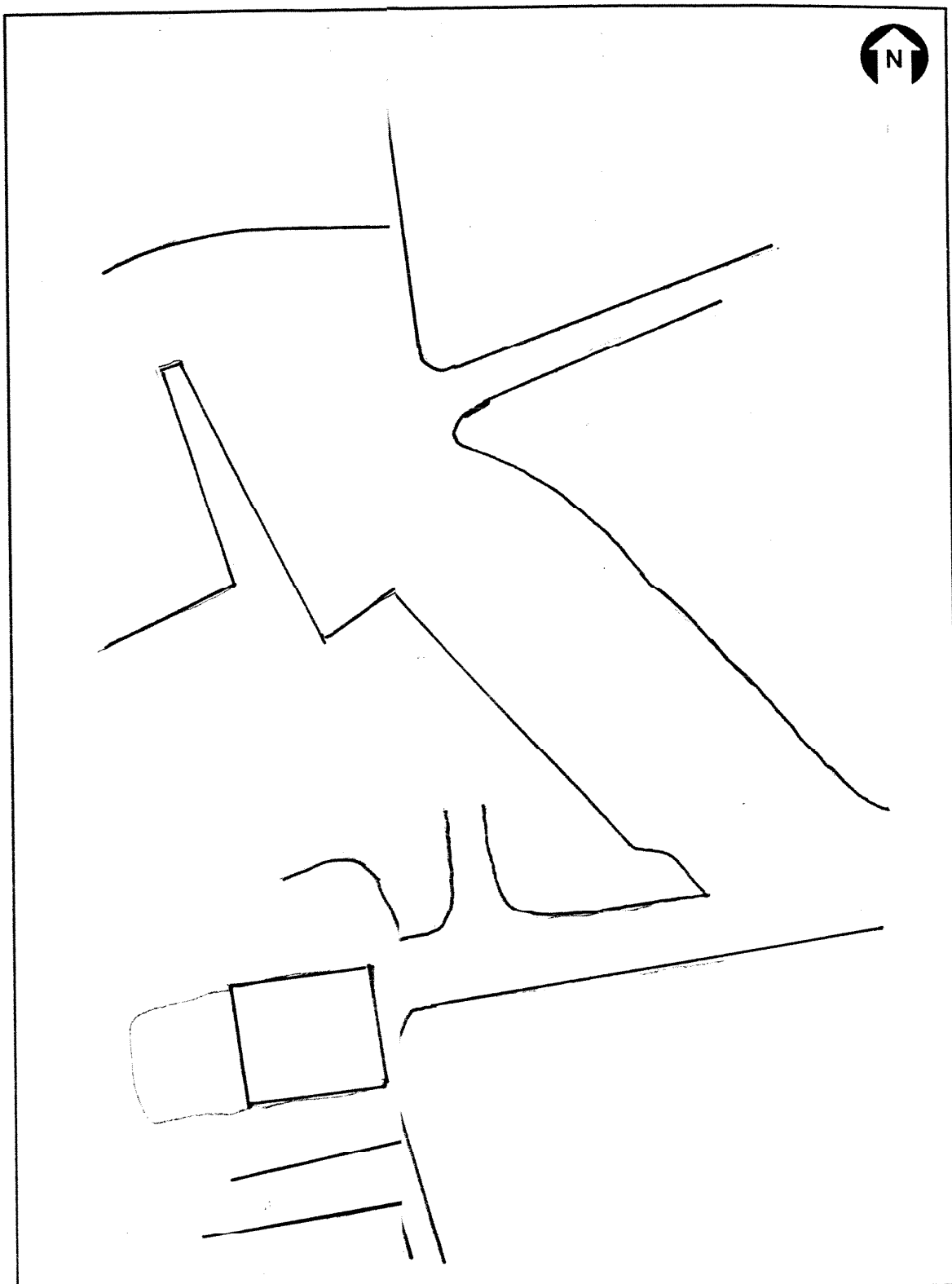
Copies of the laboratory reports of the soil and groundwater analysis are provided as Attachment A. Also included in the limited closure summary report is a site location map, a site sketch indicating soil and groundwater sampling locations relative to the former tank locations, as well as the results of the laboratory analysis in table form.

Respectfully Submitted,
Environmental Science Associates, Inc.

Richard Moriarty
Environmental Scientist



Environmental Science Associates, Inc.	**Site Location Map** **Limited Closure Summary, Tanks #99, 100, and 101** Mayport Naval Station Fuel Depot Mayport Naval Station, Duval County, Florida; Facility ID #8626008	FIGURE **1** PROJECT NO.



Environmenta
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Associates, I

	INITIAL	DATE
DRAWN BY:		
REVIEWED BY:		
PROJECT MANAGER:		

FIGURE
2
PROJECT NO.

Table 1.
Summary of Laboratory Analysis
Groundwater Sampling - Monitor Wells # MW-15S, MW-03S, and MW-13S
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID #			Groundwater Cleanup Target Levels*
	MW-15S	MW-03S	MW-13S	
Volatile Organic Compounds:				
(EPA Method 8260)				
Isopropylbenzene	2.6µg/L	BDL	BDL	N/A
1,2,3-Trichlorobenzene	1.8µg/L	BDL	BDL	70µg/L
N-Propylbenzene	3.3µg/L	BDL	BDL	N/A
Tert-Butylbenzene	2.7µg/L	BDL	BDL	N/A
S-Butylbenzene	5.6µg/L	BDL	BDL	N/A
P-Isopropylyoluene	3.7µg/L	BDL	BDL	N/A
N-Butylbenzene	6.8µg/L	BDL	BDL	N/A
Naphthalene	**140µg/L**	9.2µg/L	4.8µg/L	**20µg/L**
All other 8260 Compounds	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
Bis(2-ethylhexylphthalate	14µg/L	BDL	BDL	N/A
Flourene	17µg/L	BDL	BDL	280µg/L
1-Methylnaphthalene	100µg/L	BDL	BDL	20µg/L
2-Methylnaphthalene	90µg/L	BDL	BDL	20µg/L
Naphthalene	48µg/L	BDL	4.8µg/L	20µg/L
Phenanthrene	22µg/L	BDL	BDL	210µg/L
All other 8270 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	**15mg/L**	BDL	BDL	**5mg/L**
Total RCRA Metals:				
Arsenic	BDL	0.012mg/L	0.011mg/L	50µg/L
Barium	BDL	BDL	BDL	2000µg/L
Cadmium	BDL	BDL	0.002mg/L	5µg/L
Chromium	BDL	BDL	0.031mg/L	100µg/L
Lead	BDL	BDL	0.009mg/L	15µg/L
Mercury	0.00022mg/L	BDL	BDL	2µg/L
Silver	BDL	BDL	BDL	50µg/L
Selenium	BDL	BDL	BDL	50µg/L

BDL = Below Detection Limits; N/A = Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

Table 2.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

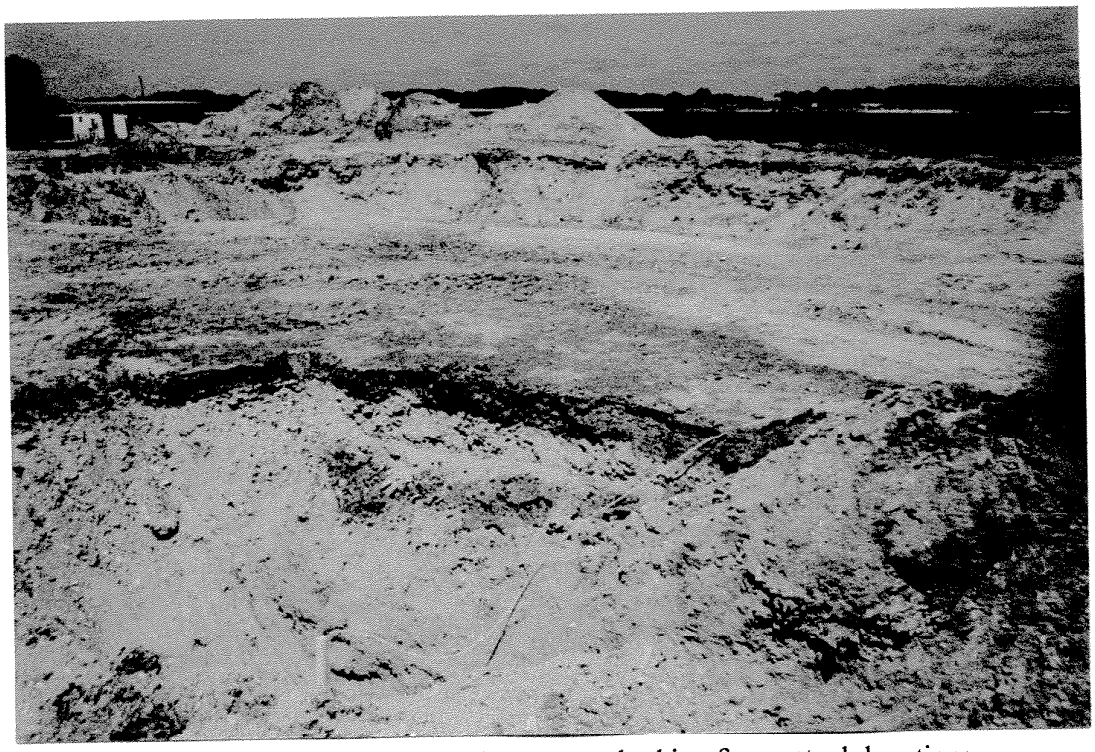
Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*	
	CS-1	CS-2	CS-3		
Volatile Organic Compounds:					
(EPA Method 8260)					
All 8260 Compounds	BDL	BDL	BDL	N/A	
Semi-Volatile Organic Compounds:					
(EPA Method 8270)					
All 8270 Compounds	BDL	BDL	BDL	N/A	
FLA PRO:	BDL	BDL	BDL	340mg/Kg	340mg/Kg
Total RCRA Metals:					
Arsenic	1.0mg/Kg	1.5mg/Kg	BDL	3.7mg/Kg	29mg/Kg
Barium	BDL	BDL	BDL	87000mg/Kg	TCLP
Cadmium	BDL	BDL	BDL	1300mg/Kg	8mg/Kg
Chromium	1.0mg/Kg	BDL	BDL	420mg/Kg	38mg/Kg
Lead	4.0mg/Kg	BDL	BDL	920mg/Kg	TCLP
Mercury	BDL	BDL	BDL	28mg/Kg	TCLP
Silver	BDL	BDL	BDL	9100mg/Kg	TCLP
Selenium	BDL	BDL	BDL	10000mg/Kg	TCLP

BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

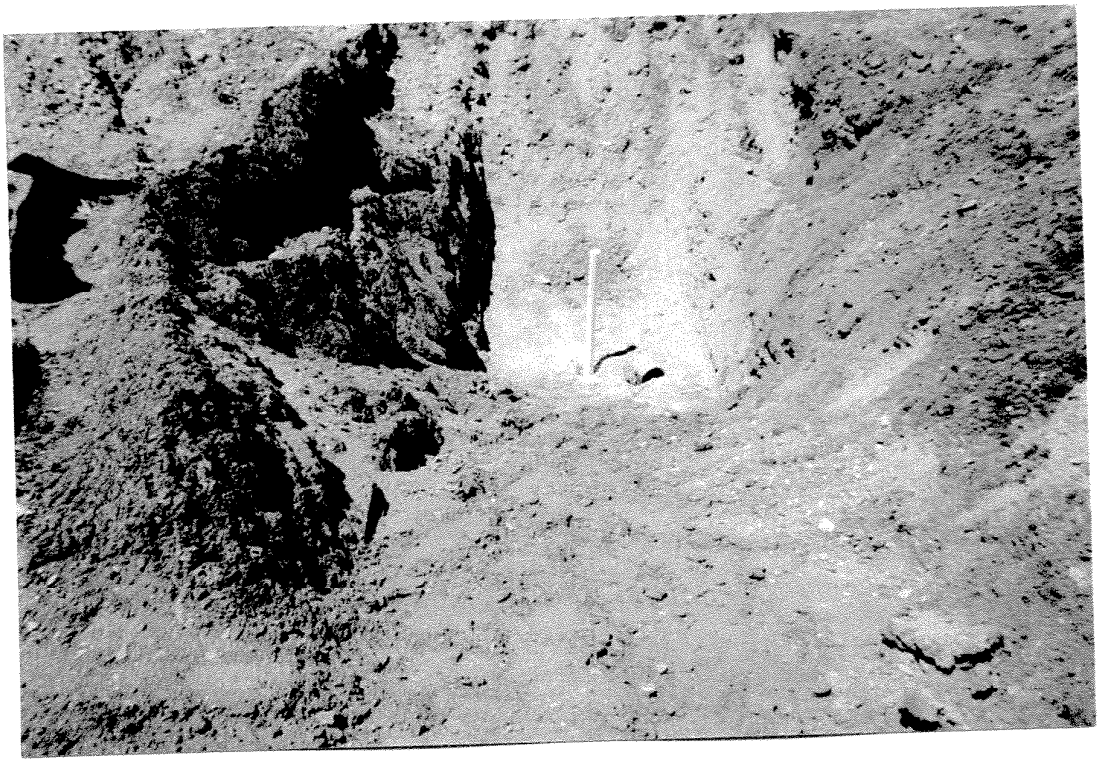
Table 3.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1, TMW-2, and TMW-3
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID #			Groundwater Cleanup Target Levels*
	TMW-1	TMW-2	TMW-3	
Volatile Organic Compounds:				
(EPA Method 8260)				
Isopropylbenzene	22µg/L	13µg/L	BDL	N/A
MTBE	BDL	28µg/L	BDL	70µg/L
N-Propylbenzene	44µg/L	25µg/L	BDL	N/A
Tert-Butylbenzene	BDL	2.6µg/L	BDL	N/A
S-Butylbenzene	BDL	15µg/L	BDL	N/A
P-Isopropylyoluene	BDL	BDL	BDL	N/A
N-Butylbenzene	BDL	10µg/L	BDL	N/A
Naphthalene	BDL	**120µg/L**	8.5µg/L	**20µg/L**
All other 8260 Compounds	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
1-Methylnaphthalene	BDL	46µg/L	BDL	20µg/L
2-Methylnaphthalene	BDL	45µg/L	BDL	20µg/L
Naphthalene	BDL	42µg/L	BDL	20µg/L
All other 8270 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	**5mg/L**
Total RCRA Metals:				
Arsenic	BDL	BDL	BDL	50µg/L
Barium	BDL	BDL	BDL	2000µg/L
Cadmium	BDL	BDL	0.001mg/L	5µg/L
Chromium	BDL	BDL	BDL	100µg/L
Lead	**0.074mg/L**	BDL	BDL	**15µg/L**
Mercury	BDL	BDL	BDL	2µg/L
Silver	BDL	BDL	BDL	50µg/L
Selenium	BDL	BDL	BDL	50µg/L

BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels



1. Photograph facing generally northwest, overlooking former tank locations.



2. Photograph overlooking typical Temporary Monitor Well (TMW-3)

Photodocumentation: Limited Closure Summary, May 25, 2000
Tanks 99, 100, and 101, Mayport Naval Station Fuel Farm
Mayport Naval Station, Duval County, Florida; Facility ID # 8626008

ATTACHMENT A

Laboratory Reports

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
Fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX10968
DATE SUBMITTED: April 25, 2000
DATE REPORTED : May 3, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : 2007

Mayport Naval Station

#1 - MW-15S @ 13:45 (04/24/00)
#2 - MW-03S @ 14:15 (04/24/00)
#3 - MW-13S @ 14:45 (04/24/00)
#4 - TMW-1 @ 11:40 (04/25/00)
#5 - TMW-2 @ 12:20 (04/25/00)
#6 - TMW-3 @ 12:45 (04/25/00)
#7 - CS-1 @ 09:15 (04/25/00)
#8 - CS-2 @ 10:00 (04/25/00)
#9 - CS-3 @ 10:30 (04/25/00)

PROJECT MANAGER Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	MW-15S	MW-03S	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-15S	MW-03S	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	**2.6** I	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	**1.8**	1.0 U	µg/L
n-Propylbenzene	**3.3**	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-15S	MW-03S	Units
tert-Butylbenzene	**2.7**	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	**5.6**	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	**3.7**	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	**6.8**	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	**140**	**9.2**	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	93	88	38-143
D8-Toluene	92	100	78-126
Bromofluorobenzene	98	104	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
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PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	14	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	17	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	100	10 U	µg/L
2-Methylnaphthalene	90	10 U	µg/L
Naphthalene	48	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	22	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	71	56	30-106
2-Fluorobiphenyl	90	75	38-107
Terphenyl -D14	117	126	29-131
Phenol -D5	47	41	12-87
2-Fluorophenol	50	51	19-115
2,4,6-Tribromophenol	#132	118	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

# = Surrogate recovery was outside of laboratory established limits.
U = Compound was analyzed for but not detected to the level shown.

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PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	MW-15S	MW-03S	Units
Arsenic	200.7	0.010 U	**0.012** I	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	0.0010 U	0.0010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	**0.00022** I	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	MW-15S	MW-03S	Units
Hydrocarbons (C8-C40)	**15** D1	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	93	67	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/02/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	MW-13S	TMW-1	Units
Dichlorodifluoromethane	2.0 U	10 U D1	µg/L
Chloromethane	1.0 U	5.0 U D1	µg/L
Vinyl Chloride	1.0 U	5.0 U D1	µg/L
Bromomethane	2.0 U	10 U D1	µg/L
Chloroethane	2.0 U	10 U D1	µg/L
Trichlorofluoromethane	1.0 U	5.0 U D1	µg/L
1,1-Dichloroethene	1.0 U	5.0 U D1	µg/L
Acetone	50 U	250 U D1	µg/L
Carbon Disulfide	50 U	250 U D1	µg/L
Methylene Chloride	5.0 U	25 U D1	µg/L
t-1,2-Dichloroethene	1.0 U	5.0 U D1	µg/L
Methyl tert-butyl ether	1.0 U	5.0 U D1	µg/L
1,1-Dichloroethane	1.0 U	5.0 U D1	µg/L
2,2-Dichloropropane	2.0 U	10 U D1	µg/L
c-1,2-Dichloroethene	1.0 U	5.0 U D1	µg/L
2-Butanone	20 U	100 U D1	µg/L
Chloroform	1.0 U	5.0 U D1	µg/L
1,1,1-Trichloroethane	1.0 U	5.0 U D1	µg/L
Carbon tetrachloride	1.0 U	5.0 U D1	µg/L
1,1-Dichloropropene	1.0 U	5.0 U D1	µg/L
Benzene	1.0 U	5.0 U D1	µg/L
1,2-Dichloroethane	1.0 U	5.0 U D1	µg/L
Trichloroethene	1.0 U	5.0 U D1	µg/L
1,2-Dichloropropane	1.0 U	5.0 U D1	µg/L
Dibromomethane	1.0 U	5.0 U D1	µg/L
Bromodichloromethane	1.0 U	5.0 U D1	µg/L

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-13S	TMW-1	Units
2-Chloroethyl vinyl ether	6.0 U	30 U D1	µg/L
c-1,3-Dichloropropene	1.0 U	5.0 U D1	µg/L
4-Methyl-2-pentanone	20 U	100 U D1	µg/L
Toluene	1.0 U	5.0 U D1	µg/L
t-1,3-Dichloropropene	1.0 U	5.0 U D1	µg/L
1,1,2-Trichloroethane	1.0 U	5.0 U D1	µg/L
Tetrachloroethene	3.0 U	15 U D1	µg/L
1,3-Dichloropropane	1.0 U	5.0 U D1	µg/L
2-Hexanone	20 U	100 U D1	µg/L
Dibromochloromethane	1.0 U	5.0 U D1	µg/L
1,2-Dibromoethane	1.0 U	5.0 U D1	µg/L
Chlorobenzene	1.0 U	5.0 U D1	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	5.0 U D1	µg/L
Ethylbenzene	1.0 U	5.0 U D1	µg/L
m-Xylene & p-Xylene	2.0 U	10 U D1	µg/L
o-Xylene	1.0 U	5.0 U D1	µg/L
Styrene	1.0 U	5.0 U D1	µg/L
Bromoform	1.0 U	5.0 U D1	µg/L
Isopropylbenzene	1.0 U	22 D1	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	5.0 U D1	µg/L
Bromobenzene	1.0 U	5.0 U D1	µg/L
1,2,3-Trichlorobenzene	1.0 U	5.0 U D1	µg/L
n-Propylbenzene	1.0 U	44 D1	µg/L
2-Chlorotoluene	1.0 U	5.0 U D1	µg/L
1,3,5-Trimethylbenzene	1.0 U	5.0 U D1	µg/L
4-Chlorotoluene	1.0 U	5.0 U D1	µg/L

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-13S	TMW-1	Units
tert-Butylbenzene	1.0 U	5.0 U D1	µg/L
1,2,4-Trimethylbenzene	1.0 U	5.0 U D1	µg/L
s-Butylbenzene	1.0 U	5.0 U D1	µg/L
1,3-Dichlorobenzene	1.0 U	5.0 U D1	µg/L
p-Isopropyltoluene	1.0 U	5.0 U D1	µg/L
1,4-Dichlorobenzene	1.0 U	5.0 U D1	µg/L
n-Butylbenzene	1.0 U	5.0 U D1	µg/L
1,2-Dichlorobenzene	1.0 U	5.0 U D1	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	5.0 U D1	µg/L
1,2,4-Trichlorobenzene	1.0 U	5.0 U D1	µg/L
Hexachlorobutadiene	1.0 U	5.0 U D1	µg/L
Naphthalene	4.8	10 U D1	µg/L
1,2,3-Trichloropropane	1.0 U	5.0 U D1	µg/L
Bromochloromethane	1.0 U	5.0 U D1	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	92	38-143
D8-Toluene	106	94	78-126
Bromofluorobenzene	103	94	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	10 U	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	10 U	10 U	µg/L
2-Methylnaphthalene	10 U	10 U	µg/L
Naphthalene	10 U	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	10 U	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	47	49	30-106
2-Fluorobiphenyl	60	62	38-107
Terphenyl -D14	97	100	29-131
Phenol -D5	36	38	12-87
2-Fluorophenol	45	47	19-115
2,4,6-Tribromophenol	78	86	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	MW-13S	TMW-1	Units
Arsenic	200.7	**0.011** I	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	**0.0020** I	0.0010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	**0.031**	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	**0.0090** I	**0.074**	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	0.00020 U	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	MW-13S	TMW-1	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	70	83	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TMW-2	TMW-3	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	28	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	TMW-2	TMW-3	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	**13**	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	1.0 U	µg/L
n-Propylbenzene	**25**	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	TMW-2	TMW-3	Units
tert-Butylbenzene	**2.6**	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	**15**	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	**10**	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	**120**	**8.5**	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	88	38-143
D8-Toluene	104	99	78-126
Bromofluorobenzene	102	92	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	10 U	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	46	10 U	µg/L
2-Methylnaphthalene	45	10 U	µg/L
Naphthalene	42	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	10 U	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	36	46	30-106
2-Fluorobiphenyl	50	57	38-107
Terphenyl -D14	80	92	29-131
Phenol -D5	27	34	12-87
2-Fluorophenol	32	45	19-115
2,4,6-Tribromophenol	89	80	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/29/00	

U = Compound was analyzed for but not detected to the level shown.

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DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-2	TMW-3	Units
Arsenic	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	0.0010 U	**0.0010** I	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	0.00020 U	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-2	TMW-3	Units
Hydrocarbons (C8-C40)	**3.2**	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	108	90	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/02/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	CS-1	CS-2	Units
Dichlorodifluoromethane	3.3 U D2	2.9 U D3	µg/Kg
Chloromethane	1.6 U D2	1.5 U D3	µg/Kg
Vinyl Chloride	1.6 U D2	1.5 U D3	µg/Kg
Bromomethane	1.0 U D2	1.0 U D3	µg/Kg
Chloroethane	1.0 U D2	1.0 U D3	µg/Kg
Trichlorofluoromethane	1.0 U D2	1.0 U D3	µg/Kg
1,1-Dichloroethene	1.6 U D2	1.5 U D3	µg/Kg
Acetone	32 U D2	29 U D3	µg/Kg
Carbon Disulfide	32 U D2	29 U D3	µg/Kg
Methylene Chloride	8.0 U D2	7.0 U D3	µg/Kg
t-1,2-Dichloroethene	1.6 U D2	1.5 U D3	µg/Kg
Methyl tert-butyl ether	1.6 U D2	1.5 U D3	µg/Kg
1,1-Dichloroethane	1.6 U D2	1.5 U D3	µg/Kg
2,2-Dichloropropane	4.0 U D2	3.0 U D3	µg/Kg
c-1,2-Dichloroethene	1.6 U D2	1.5 U D3	µg/Kg
2-Butanone	33 U D2	29 U D3	µg/Kg
Chloroform	1.6 U D2	1.5 U D3	µg/Kg
1,1,1-Trichloroethane	1.6 U D2	1.5 U D3	µg/Kg
Carbon tetrachloride	1.6 U D2	1.5 U D3	µg/Kg
1,1-Dichloropropene	1.6 U D2	1.5 U D3	µg/Kg
Benzene	1.6 U D2	1.5 U D3	µg/Kg
1,2-Dichloroethane	1.6 U D2	1.5 U D3	µg/Kg
Trichloroethene	1.6 U D2	1.5 U D3	µg/Kg
1,2-Dichloropropane	1.6 U D2	1.5 U D3	µg/Kg
Dibromomethane	1.6 U D2	1.5 U D3	µg/Kg
Bromodichloromethane	1.6 U D2	1.5 U D3	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-1		CS-2		Units
2-Chloroethyl vinyl ether	10 U	D2	8.0 U	D3	µg/Kg
c-1,3-Dichloropropene	1.6 U	D2	1.5 U	D3	µg/Kg
4-Methyl-2-pentanone	32 U	D2	29 U	D3	µg/Kg
Toluene	1.6 U	D2	1.5 U	D3	µg/Kg
t-1,3-Dichloropropene	1.6 U	D2	1.5 U	D3	µg/Kg
1,1,2-Trichloroethane	1.6 U	D2	1.5 U	D3	µg/Kg
Tetrachloroethene	5.0 U	D2	4.0 U	D3	µg/Kg
1,3-Dichloropropane	1.6 U	D2	1.5 U	D3	µg/Kg
2-Hexanone	32 U	D2	29 U	D3	µg/Kg
Dibromochloromethane	1.6 U	D2	1.5 U	D3	µg/Kg
1,2-Dibromoethane	1.6 U	D2	1.5 U	D3	µg/Kg
Chlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,1,1,2-Tetrachloroethane	1.6 U	D2	1.5 U	D3	µg/Kg
Ethylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
m-Xylene & p-Xylene	3.3 U	D2	2.9 U	D3	µg/Kg
o-Xylene	1.6 U	D2	1.5 U	D3	µg/Kg
Styrene	1.6 U	D2	1.5 U	D3	µg/Kg
Bromoform	1.6 U	D2	1.5 U	D3	µg/Kg
Isopropylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,1,2,2-Tetrachloroethane	1.6 U	D2	1.5 U	D3	µg/Kg
Bromobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,2,3-Trichlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
n-Propylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
2-Chlorotoluene	1.6 U	D2	1.5 U	D3	µg/Kg
1,3,5-Trimethylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
4-Chlorotoluene	1.6 U	D2	1.5 U	D3	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-1	CS-2	Units
tert-Butylbenzene	1.6 U D2	1.5 U D3	µg/Kg
1,2,4-Trimethylbenzene	1.6 U D2	1.5 U D3	µg/Kg
s-Butylbenzene	1.6 U D2	1.5 U D3	µg/Kg
1,3-Dichlorobenzene	1.6 U D2	1.5 U D3	µg/Kg
p-Isopropyltoluene	1.6 U D2	1.5 U D3	µg/Kg
1,4-Dichlorobenzene	1.6 U D2	1.5 U D3	µg/Kg
n-Butylbenzene	1.6 U D2	1.5 U D3	µg/Kg
1,2-Dichlorobenzene	1.6 U D2	1.5 U D3	µg/Kg
1,2-Dibromo-3-chloropropane	1.0 U D2	1.0 U D3	µg/Kg
1,2,4-Trichlorobenzene	1.6 U D2	1.5 U D3	µg/Kg
Hexachlorobutadiene	1.6 U D2	1.5 U D3	µg/Kg
Naphthalene	1.6 U D2	1.5 U D3	µg/Kg
1,2,3-Trichloropropane	1.6 U D2	1.5 U D3	µg/Kg
Bromochloromethane	1.6 U D2	1.5 U D3	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	89	88	59-143
D8-Toluene	100	93	60-115
Bromofluorobenzene	99	97	55-144
Date Analyzed	04/30/00	04/30/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Acenaphthene	400 U	350 U	µg/Kg
Acenaphthylene	400 U	350 U	µg/Kg
Anthracene	400 U	350 U	µg/Kg
Benzidine	400 U	350 U	µg/Kg
Benzo(a)anthracene	400 U	350 U	µg/Kg
Benzo(b)fluoranthene	400 U	350 U	µg/Kg
Benzo(k)fluoranthene	400 U	350 U	µg/Kg
Benzo(g,h,i)perylene	400 U	350 U	µg/Kg
Benzo(a)pyrene	400 U	350 U	µg/Kg
Benzylbutyl phthalate	400 U	350 U	µg/Kg
Bis(2-chloroethoxy)methane	400 U	350 U	µg/Kg
Bis(2-chloroethyl)ether	400 U	350 U	µg/Kg
Bis(2-chloroisopropyl)ether	400 U	350 U	µg/Kg
Bis(2-ethylhexyl)phthalate	400 U	350 U	µg/Kg
4-Bromophenylphenyl ether	400 U	350 U	µg/Kg
2-Chloronaphthalene	400 U	350 U	µg/Kg
4-Chlorophenyl phenyl ether	400 U	350 U	µg/Kg
Chrysene	400 U	350 U	µg/Kg
Dibenzo(a,h)anthracene	400 U	350 U	µg/Kg
1,2-Dichlorobenzene	400 U	350 U	µg/Kg
1,3-Dichlorobenzene	400 U	350 U	µg/Kg
1,4-Dichlorobenzene	400 U	350 U	µg/Kg
3,3'-Dichlorobenzidine	800 U	700 U	µg/Kg
Diethyl phthalate	400 U	350 U	µg/Kg
Dimethyl phthalate	400 U	350 U	µg/Kg
Di-n-butyl phthalate	400 U	350 U	µg/Kg
Di-n-octyl phthalate	400 U	350 U	µg/Kg
2,4 Dinitrotoluene	400 U	350 U	µg/Kg
2,6-Dinitrotoluene	400 U	350 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Fluoranthene	400 U	350 U	µg/Kg
Fluorene	400 U	350 U	µg/Kg
Hexachlorobenzene	400 U	350 U	µg/Kg
Hexachlorobutadiene	400 U	350 U	µg/Kg
Hexachlorocyclopentadiene	400 U	350 U	µg/Kg
Hexachloroethane	400 U	350 U	µg/Kg
Indeno(1,2,3-cd)pyrene	400 U	350 U	µg/Kg
Isophorone	400 U	350 U	µg/Kg
1-Methylnaphthalene	400 U	350 U	µg/Kg
2-Methylnaphthalene	400 U	350 U	µg/Kg
Naphthalene	400 U	350 U	µg/Kg
Nitrobenzene	400 U	350 U	µg/Kg
N-Nitrosodimethylamine	400 U	350 U	µg/Kg
N-Nitrosodi-n-propylamine	400 U	350 U	µg/Kg
N-Nitrosodiphenylamine	400 U	350 U	µg/Kg
Phenanthrene	400 U	350 U	µg/Kg
Pyrene	400 U	350 U	µg/Kg
1,2,4-Trichlorobenzene	400 U	350 U	µg/Kg
Benzyl Alcohol	400 U	350 U	µg/Kg
Benzoic Acid	400 U	350 U	µg/Kg
4-Chloroaniline	400 U	350 U	µg/Kg
2-Nitroaniline	400 U	350 U	µg/Kg
3-Nitroaniline	400 U	350 U	µg/Kg
4-Nitroaniline	400 U	350 U	µg/Kg
Dibenzofuran	400 U	350 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Pyridine	400 U	350 U	µg/Kg
4-Chloro-3-methylphenol	400 U	350 U	µg/Kg
2-Chlorophenol	400 U	350 U	µg/Kg
2,4-Dichlorophenol	400 U	350 U	µg/Kg
2,4-Dimethylphenol	400 U	350 U	µg/Kg
2,4-Dinitrophenol	2000 U	1800 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1200 U	1000 U	µg/Kg
2-Nitrophenol	400 U	350 U	µg/Kg
4-Nitrophenol	400 U	350 U	µg/Kg
Pentachlorophenol	400 U	350 U	µg/Kg
Phenol	400 U	350 U	µg/Kg
2,4,6-Trichlorophenol	400 U	350 U	µg/Kg
2-Methylphenol	400 U	350 U	µg/Kg
3 & 4-Methylphenol	400 U	350 U	µg/Kg
2,4,5-Trichlorophenol	400 U	350 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	64	66	35-112
2-Fluorobiphenyl	72	80	42-111
Terphenyl -D14	97	106	40-124
Phenol -D5	69	81	20-120
2-Fluorophenol	68	81	29-130
2,4,6-Tribromophenol	66	71	35-126
Date Extracted	04/27/00	04/27/00	
Date Analyzed	04/27/00	04/27/00	

MISCELLANEOUS	METHOD	CS-1	CS-2	Units
Percent Solids	SM2540G	82	94	%
Date Analyzed		04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	CS-1	CS-2	Units
Arsenic	6010	1.0 I	1.5 I	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Barium	6010	24 U	21 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Cadmium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Chromium	6010	1.0	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Lead	6010	4.4	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Mercury	7471	0.010 U	0.010 U	mg/Kg
Date Analyzed		04/28/00	04/28/00	
Selenium	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Silver	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
EPA METHOD FLPRO - PETROL. RESIDUAL ORG.		**CS-1**	**CS-2**	**Units**
Hydrocarbons (C8-C40)		8.0 U	7.0 U	mg/Kg
Surrogate:		**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl		62	68	51-148
Date Extracted		04/28/00	04/28/00	
Date Analyzed		04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/L
Chloromethane	1.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	2.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Acetone	50 U	µg/L
Carbon Disulfide	50 U	µg/L
Methylene Chloride	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
2-Butanone	20 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon tetrachloride	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	µg/L
Benzene	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Dibromomethane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	µg/L
Toluene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	µg/L
2-Hexanone	20 U	µg/L
Dibromochloromethane	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	µg/L
o-Xylene	1.0 U	µg/L
Styrene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
Isopropylbenzene	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
Bromobenzene	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	µg/L
n-Propylbenzene	1.0 U	µg/L
2-Chlorotoluene	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	µg/L
4-Chlorotoluene	1.0 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	µg/L
s-Butylbenzene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
n-Butylbenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	µg/L
Naphthalene	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	µg/L
Bromochloromethane	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	90	38-143
D8-Toluene	93	78-126
Bromofluorobenzene	100	72-132
Date Analyzed	04/29/00	

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
Dichlorodifluoromethane	4.7 U D4	2.0 U	µg/Kg
Chloromethane	2.4 U D4	1.0 U	µg/Kg
Vinyl Chloride	2.4 U D4	1.0 U	µg/Kg
Bromomethane	2.0 U D4	1.0 U	µg/Kg
Chloroethane	2.0 U D4	1.0 U	µg/Kg
Trichlorofluoromethane	2.0 U D4	1.0 U	µg/Kg
1,1-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
Acetone	47 U D4	**24**	µg/Kg
Carbon Disulfide	47 U D4	20 U	µg/Kg
Methylene Chloride	11 U D4	**8.0** I	µg/Kg
t-1,2-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
Methyl tert-butyl ether	2.4 U D4	1.0 U	µg/Kg
1,1-Dichloroethane	2.4 U D4	1.0 U	µg/Kg
2,2-Dichloropropane	5.0 U D4	2.0 U	µg/Kg
c-1,2-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
2-Butanone	47 U D4	20 U	µg/Kg
Chloroform	2.4 U D4	1.0 U	µg/Kg
1,1,1-Trichloroethane	2.4 U D4	1.0 U	µg/Kg
Carbon tetrachloride	2.4 U D4	1.0 U	µg/Kg
1,1-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
Benzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichloroethane	2.4 U D4	1.0 U	µg/Kg
Trichloroethene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichloropropane	2.4 U D4	1.0 U	µg/Kg
Dibromomethane	2.4 U D4	1.0 U	µg/Kg
Bromodichloromethane	2.4 U D4	1.0 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
2-Chloroethyl vinyl ether	14 U D4	6.0 U	µg/Kg
c-1,3-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
4-Methyl-2-pentanone	47 U D4	20 U	µg/Kg
Toluene	2.4 U D4	1.0 U	µg/Kg
t-1,3-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
1,1,2-Trichloroethane	2.4 U D4	1.0 U	µg/Kg
Tetrachloroethene	7.0 U D4	3.0 U	µg/Kg
1,3-Dichloropropane	2.4 U D4	1.0 U	µg/Kg
2-Hexanone	47 U D4	20 U	µg/Kg
Dibromochloromethane	2.4 U D4	1.0 U	µg/Kg
1,2-Dibromoethane	2.4 U D4	1.0 U	µg/Kg
Chlorobenzene	2.4 U D4	1.0 U	µg/Kg
1,1,1,2-Tetrachloroethane	2.4 U D4	1.0 U	µg/Kg
Ethylbenzene	2.4 U D4	1.0 U	µg/Kg
m-Xylene & p-Xylene	4.7 U D4	2.0 U	µg/Kg
o-Xylene	2.4 U D4	1.0 U	µg/Kg
Styrene	2.4 U D4	1.0 U	µg/Kg
Bromoform	2.4 U D4	1.0 U	µg/Kg
Isopropylbenzene	2.4 U D4	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.4 U D4	1.0 U	µg/Kg
Bromobenzene	2.4 U D4	1.0 U	µg/Kg
1,2,3-Trichlorobenzene	2.4 U D4	1.0 U	µg/Kg
n-Propylbenzene	2.4 U D4	1.0 U	µg/Kg
2-Chlorotoluene	2.4 U D4	1.0 U	µg/Kg
1,3,5-Trimethylbenzene	2.4 U D4	1.0 U	µg/Kg
4-Chlorotoluene	2.4 U D4	1.0 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
tert-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,2,4-Trimethylbenzene	2.4 U D4	1.0 U	µg/Kg
s-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,3-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
p-Isopropyltoluene	2.4 U D4	1.0 U	µg/Kg
1,4-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
n-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dibromo-3-chloropropane	2.0 U D4	1.0 U	µg/Kg
1,2,4-Trichlorobenzene	2.4 U D4	1.0 U	µg/Kg
Hexachlorobutadiene	2.4 U D4	1.0 U	µg/Kg
Naphthalene	2.4 U D4	1.0 U	µg/Kg
1,2,3-Trichloropropane	2.4 U D4	1.0 U	µg/Kg
Bromochloromethane	2.4 U D4	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	89	96	59-143
D8-Toluene	98	108	60-115
Bromofluorobenzene	100	108	55-144
Date Analyzed	04/30/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Acenaphthene	10 U	µg/L
Acenaphthylene	10 U	µg/L
Anthracene	10 U	µg/L
Benzidine	10 U	µg/L
Benzo(a)anthracene	10 U	µg/L
Benzo(b)fluoranthene	10 U	µg/L
Benzo(k)fluoranthene	10 U	µg/L
Benzo(g,h,i)perylene	10 U	µg/L
Benzo(a)pyrene	10 U	µg/L
Benzylbutyl phthalate	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	µg/L
4-Bromophenylphenyl ether	10 U	µg/L
2-Chloronaphthalene	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	µg/L
Chrysene	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	µg/L
1,2-Dichlorobenzene	10 U	µg/L
1,3-Dichlorobenzene	10 U	µg/L
1,4-Dichlorobenzene	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	µg/L
Diethyl phthalate	10 U	µg/L
Dimethyl phthalate	10 U	µg/L
Di-n-butyl phthalate	10 U	µg/L
Di-n-octyl phthalate	10 U	µg/L
2,4-Dinitrotoluene	10 U	µg/L
2,6-Dinitrotoluene	10 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Fluoranthene	10 U	µg/L
Fluorene	10 U	µg/L
Hexachlorobenzene	10 U	µg/L
Hexachlorobutadiene	10 U	µg/L
Hexachlorocyclopentadiene	10 U	µg/L
Hexachloroethane	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	µg/L
Isophorone	10 U	µg/L
1-Methylnaphthalene	10 U	µg/L
2-Methylnaphthalene	10 U	µg/L
Naphthalene	10 U	µg/L
Nitrobenzene	10 U	µg/L
N-Nitrosodimethylamine	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	µg/L
N-Nitrosodiphenylamine	10 U	µg/L
Phenanthrene	10 U	µg/L
Pyrene	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	µg/L
Benzyl Alcohol	10 U	µg/L
Benzoic Acid	10 U	µg/L
4-Chloroaniline	10 U	µg/L
2-Nitroaniline	10 U	µg/L
3-Nitroaniline	10 U	µg/L
4-Nitroaniline	10 U	µg/L
Dibenzofuran	10 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Pyridine	10 U	µg/L
4-Chloro-3-methylphenol	10 U	µg/L
2-Chlorophenol	10 U	µg/L
2,4-Dichlorophenol	10 U	µg/L
2,4-Dimethylphenol	10 U	µg/L
2,4-Dinitrophenol	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	µg/L
2-Nitrophenol	10 U	µg/L
4-Nitrophenol	10 U	µg/L
Pentachlorophenol	10 U	µg/L
Phenol	10 U	µg/L
2,4,6-Trichlorophenol	10 U	µg/L
2-Methylphenol	10 U	µg/L
3 & 4-Methylphenol	10 U	µg/L
2,4,5-Trichlorophenol	10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Nitrobenzene -D5	70	30-106
2-Fluorobiphenyl	72	38-107
Terphenyl -D14	#186	29-131
Phenol -D5	# 60	12-87
2-Fluorophenol	76	19-115
2,4,6-Tribromophenol	91	35-126
Date Extracted	04/28/00	
Date Analyzed	04/28/00	

# = surrogate recovery outside of laboratory established limits.
NR= Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

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REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Acenaphthene	340 U	330 U	µg/Kg
Acenaphthylene	340 U	330 U	µg/Kg
Anthracene	340 U	330 U	µg/Kg
Benzidine	340 U	330 U	µg/Kg
Benzo(a)anthracene	340 U	330 U	µg/Kg
Benzo(b)fluoranthene	340 U	330 U	µg/Kg
Benzo(k)fluoranthene	340 U	330 U	µg/Kg
Benzo(g,h,i)perylene	340 U	330 U	µg/Kg
Benzo(a)pyrene	340 U	330 U	µg/Kg
Benzylbutyl phthalate	340 U	330 U	µg/Kg
Bis(2-chloroethoxy)methane	340 U	330 U	µg/Kg
Bis(2-chloroethyl)ether	340 U	330 U	µg/Kg
Bis(2-chloroisopropyl)ether	340 U	330 U	µg/Kg
Bis(2-ethylhexyl)phthalate	340 U	330 U	µg/Kg
4-Bromophenylphenyl ether	340 U	330 U	µg/Kg
2-Chloronaphthalene	340 U	330 U	µg/Kg
4-Chlorophenyl phenyl ether	340 U	330 U	µg/Kg
Chrysene	340 U	330 U	µg/Kg
Dibenzo(a,h)anthracene	340 U	330 U	µg/Kg
1,2-Dichlorobenzene	340 U	330 U	µg/Kg
1,3-Dichlorobenzene	340 U	330 U	µg/Kg
1,4-Dichlorobenzene	340 U	330 U	µg/Kg
3,3'-Dichlorobenzidine	680 U	660 U	µg/Kg
Diethyl phthalate	340 U	330 U	µg/Kg
Dimethyl phthalate	340 U	330 U	µg/Kg
Di-n-butyl phthalate	340 U	330 U	µg/Kg
Di-n-octyl phthalate	340 U	330 U	µg/Kg
2,4-Dinitrotoluene	340 U	330 U	µg/Kg
2,6-Dinitrotoluene	340 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Fluoranthene	340 U	330 U	µg/Kg
Fluorene	340 U	330 U	µg/Kg
Hexachlorobenzene	340 U	330 U	µg/Kg
Hexachlorobutadiene	340 U	330 U	µg/Kg
Hexachlorocyclopentadiene	340 U	330 U	µg/Kg
Hexachloroethane	340 U	330 U	µg/Kg
Indeno(1,2,3-cd)pyrene	340 U	330 U	µg/Kg
Isophorone	340 U	330 U	µg/Kg
1-Methylnaphthalene	340 U	330 U	µg/Kg
2-Methylnaphthalene	340 U	330 U	µg/Kg
Naphthalene	340 U	330 U	µg/Kg
Nitrobenzene	340 U	330 U	µg/Kg
N-Nitrosodimethylamine	340 U	330 U	µg/Kg
N-Nitrosodi-n-propylamine	340 U	330 U	µg/Kg
N-Nitrosodiphenylamine	340 U	330 U	µg/Kg
Phenanthrene	340 U	330 U	µg/Kg
Pyrene	340 U	330 U	µg/Kg
1,2,4-Trichlorobenzene	340 U	330 U	µg/Kg
Benzyl Alcohol	340 U	330 U	µg/Kg
Benzoic Acid	340 U	330 U	µg/Kg
4-Chloroaniline	340 U	330 U	µg/Kg
2-Nitroaniline	340 U	330 U	µg/Kg
3-Nitroaniline	340 U	330 U	µg/Kg
4-Nitroaniline	340 U	330 U	µg/Kg
Dibenzofuran	340 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Pyridine	340 U	330 U	µg/Kg
4-Chloro-3-methylphenol	340 U	330 U	µg/Kg
2-Chlorophenol	340 U	330 U	µg/Kg
2,4-Dichlorophenol	340 U	330 U	µg/Kg
2,4-Dimethylphenol	340 U	330 U	µg/Kg
2,4-Dinitrophenol	1700 U	1600 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1000 U	990 U	µg/Kg
2-Nitrophenol	340 U	330 U	µg/Kg
4-Nitrophenol	340 U	330 U	µg/Kg
Pentachlorophenol	340 U	330 U	µg/Kg
Phenol	340 U	330 U	µg/Kg
2,4,6-Trichlorophenol	340 U	330 U	µg/Kg
2-Methylphenol	340 U	330 U	µg/Kg
3 & 4-Methylphenol	340 U	330 U	µg/Kg
2,4,5-Trichlorophenol	340 U	330 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	70	74	35-112
2-Fluorobiphenyl	73	90	42-111
Terphenyl -D14	101	111	40-124
Phenol -D5	86	90	20-120
2-Fluorophenol	86	93	29-130
2,4,6-Tribromophenol	65	70	35-126
Date Extracted	04/27/00	04/27/00	
Date Analyzed	04/28/00	04/27/00	

MISCELLANEOUS	METHOD	CS-3	LAB BLANK	Units
Percent Solids	SM2540G	97	NR	%
Date Analyzed		04/28/00		

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Arsenic	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Barium	200.7	0.10 U	mg/L
Date Analyzed		04/26/00	
Cadmium	200.7	0.0010 U	mg/L
Date Analyzed		04/26/00	
Chromium	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Lead	200.7	0.0050 U	mg/L
Date Analyzed		04/26/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Mercury	245.1	0.00020 U	mg/L
Date Analyzed		04/27/00	
Selenium	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Silver	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	76	65-140
Date Extracted	05/01/00	
Date Analyzed	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	CS-3	LAB BLANK	Units
Arsenic	6010	0.90 I	0.50 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Barium	6010	21 U	20 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Cadmium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Lead	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Mercury	7471	0.010 U	0.010 U	mg/Kg
Date Analyzed		04/28/00	04/28/00	
Selenium	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Silver	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Chromium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-3	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.8 U	6.6 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	57	90	51-148
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

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PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	1.0 U	µg/L
n-Propylbenzene	1.0 U	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
tert-Butylbenzene	1.0 U	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	2.0 U	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	92	38-143
D8-Toluene	100	100	78-126
Bromofluorobenzene	92	92	72-132
Date Analyzed	04/30/00	04/30/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
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RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/Kg
Chloromethane	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	µg/Kg
Bromomethane	1.0 U	µg/Kg
Chloroethane	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	µg/Kg
Acetone	20 U	µg/Kg
Carbon Disulfide	20 U	µg/Kg
Methylene Chloride	5.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	µg/Kg
Methyl tert-butyl ether	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	µg/Kg
2,2-Dichloropropane	2.0 U	µg/Kg
c-1,2-Dichloroethene	1.0 U	µg/Kg
2-Butanone	20 U	µg/Kg
Chloroform	1.0 U	µg/Kg
1,1,1-Trichloroethane	1.0 U	µg/Kg
Carbon tetrachloride	1.0 U	µg/Kg
1,1-Dichloropropene	1.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	µg/Kg
Trichloroethene	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	µg/Kg
Dibromomethane	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	µg/Kg

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	µg/Kg
4-Methyl-2-pentanone	20 U	µg/Kg
Toluene	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	µg/Kg
Tetrachloroethene	3.0 U	µg/Kg
1,3-Dichloropropane	1.0 U	µg/Kg
2-Hexanone	20 U	µg/Kg
Dibromochloromethane	1.0 U	µg/Kg
1,2-Dibromoethane	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
1,1,1,2-Tetrachloroethane	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
Styrene	1.0 U	µg/Kg
Bromoform	1.0 U	µg/Kg
Isopropylbenzene	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	1.0 U	µg/Kg
Bromobenzene	1.0 U	µg/Kg
1,2,3-Trichlorobenzene	1.0 U	µg/Kg
n-Propylbenzene	1.0 U	µg/Kg
2-Chlorotoluene	1.0 U	µg/Kg
1,3,5-Trimethylbenzene	1.0 U	µg/Kg
4-Chlorotoluene	1.0 U	µg/Kg

NR = Analysis not requested for this sample.
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RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/Kg
1,2,4-Trimethylbenzene	1.0 U	µg/Kg
s-Butylbenzene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
p-Isopropyltoluene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
n-Butylbenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dibromo-3-chloropropane	1.0 U	µg/Kg
1,2,4-Trichlorobenzene	1.0 U	µg/Kg
Hexachlorobutadiene	1.0 U	µg/Kg
Naphthalene	1.0 U	µg/Kg
1,2,3-Trichloropropane	1.0 U	µg/Kg
Bromochloromethane	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	59-143
D8-Toluene	93	60-115
Bromofluorobenzene	94	55-144
Date Analyzed	04/30/00	

NR = Analysis not requested for this sample.
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ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/L
Chloromethane	1.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	2.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Acetone	50 U	µg/L
Carbon Disulfide	50 U	µg/L
Methylene Chloride	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
2-Butanone	20 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon tetrachloride	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	µg/L
Benzene	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Dibromomethane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	µg/L
Toluene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	µg/L
2-Hexanone	20 U	µg/L
Dibromochloromethane	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	µg/L
o-Xylene	1.0 U	µg/L
Styrene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
Isopropylbenzene	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
Bromobenzene	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	µg/L
n-Propylbenzene	1.0 U	µg/L
2-Chlorotoluene	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	µg/L
4-Chlorotoluene	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	µg/L
s-Butylbenzene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
n-Butylbenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	µg/L
Naphthalene	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	µg/L
Bromochloromethane	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	38-143
D8-Toluene	100	78-126
Bromofluorobenzene	92	72-132
Date Analyzed	04/30/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	102/ 99/ 80	45-167	3	30
Benzene	96/102/ 93	60-130	6	23
Trichloroethene	101/102/ 97	50-122	<1	10
Toluene	99/101/ 98	57-136	2	12
Chlorobenzene	104/101/ 99	59-126	3	11

Environmental Conservation Laboratories Comprehensive QA Plan #910190

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	50/ 50/ 59	29-102	<1	44
2-Chlorophenol	68/ 69/ 79	58-124	1	41
1,4-Dichlorobenzene	47/ 47/ 50	0-127	<1	43
N-Nitrosodi-N-Propylamine	55/ 53/ 64	72-118	4	22
1,2,4-Trichlorobenzene	58/ 57/ 58	18-129	2	43
4-Chloro-3-methylphenol	84/ 89/ 88	75-126	6	22
Acenaphthene	70/ 75/ 72	63-122	7	28
4-Nitrophenol	26/ 30/ 28	0-168	14	52
2,4-Dinitrotoluene	92/ 94/ 99	81-151	2	21
Pentachlorophenol	94/103/ 80	27-154	9	42
Pyrene	120/128/128	54-146	6	32

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4-Chloro-3-methylphenol	84/ 89/ 88	75-126	6	22
Acenaphthene	70/ 75/ 72	63-122	7	28
4-Nitrophenol	26/ 30/ 28	0-168	14	52
2,4-Dinitrotoluene	92/ 94/ 99	81-151	2	21
Pentachlorophenol	94/103/ 80	27-154	9	42
Pyrene	120/128/128	54-146	6	32

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	50/ 50/ 59	29-102	<1	44
2-Chlorophenol	68/ 69/ 79	58-124	1	41
1,4-Dichlorobenzene	47/ 47/ 50	0-127	<1	43
N-Nitrosodi-N-Propylamine	55/ 53/ 64	72-118	4	22
1,2,4-Trichlorobenzene	58/ 57/ 58	18-129	2	43
4-Chloro-3-Methylphenol	84/ 89/ 88	75-126	6	22
Acenaphthene	70/ 75/ 72	63-122	7	28
4-Nitrophenol	26/ 30/ 28	0-168	14	52
2,4-Dinitrotoluene	92/ 94/ 99	81-151	2	21
Pentachlorophenol	94/103/ 80	27-154	9	42
Pyrene	120/128/128	54-146	6	32

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	89/ 79/ 88	48-111	12	38
2-Chlorophenol	93/ 84/ 91	42-110	10	38
1,4-Dichlorobenzene	75/ 67/ 79	42-110	11	33
N-Nitrosodi-N-Propylamine	65/ 56/ 65	41-118	15	29
1,2,4-Trichlorobenzene	76/ 73/ 84	45-111	4	20
4-Chloro-3-methylphenol	76/ 74/ 76	49-120	3	38
Acenaphthene	78/ 77/ 80	38-135	1	29
4-Nitrophenol	34/ 31/ 32	44-169	9	68
2,4-Dinitrotoluene	82/ 73/ 87	42-155	12	32
Pentachlorophenol	76/ 71/ 67	0-157	7	41
Pyrene	95/ 92/102	40-116	3	37
MISCELLANEOUS				
Percent Solids, SM2540G	NA/ NA/ NA	-	NA	
TOTAL METALS				
Arsenic, 200.7	102/104/102	64-126	2	12
Arsenic, 6010	95/ 92/100	53-153	3	22
Barium, 200.7	97/ 98/ 99	74-119	1	11
Barium, 6010	97/ 96/100	70-120	1	16
Cadmium, 200.7	95/ 97/ 99	68-121	2	12
Cadmium, 6010	92/ 91/ 98	59-130	1	24
Chromium, 200.7	96/ 98/ 98	73-120	2	10
Chromium, 6010	92/ 89/ 99	57-135	3	24
Lead, 200.7	98/ 99/100	68-126	1	19
Lead, 6010	102/101/101	63-128	<1	26

Environmental Conservation Laboratories Comprehensive QA Plan #910190

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
Mercury, 245.1	113/111/112	70-136	2	12
Mercury, 7471	115/135/118	71-138	16	13
Selenium, 200.7	80/ 83/100	65-129	4	10
Selenium, 6010	87/ 86/ 95	60-121	1	14
Silver, 200.7	101/103/102	69-121	2	12
Silver, 6010	97/ 95/101	69-118	2	10
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	119/120/ 89	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	80/ 68/ 74	62-204	16	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

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MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
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Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station | PROJECT NO.: 2007 | P.O. NUMBER: ER1 #2007 | PAGE 1 OF 1

PRCJECT LOC. (State): FL | SAMPLER(s) NAME: Richard Moriarty | PHONE: (904) 241-2200 | FAX: (904) 247-3489

CLIENT NAME: Environmental Recovery Inc | CLIENT PROJECT MANAGER: Mr Chuck Nevin

CLIENT ADDRESS (CITY, STATE, ZIP): 857 Levy Road, Atlantic Beach, FLA 32233

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

STATION	DATE	TIME	GRAB	COMP.	SAMPLE IDENTIFICATION	MATRIX: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (Oil, solvent, etc.)	AIR	SLUDGE	OTHER	PRESERVATIVE: HCL	UN	H2SO4	HNO3	NUMBER OF CONTAINERS SUBMITTED: 8260 (w/ pres)	8270 (w/ pres)	1,1-TBD	TOTAL RECOVERABLE METALS	REMARKS
1 #1	4/24/00	13:45	X		MW-15S		X								X	X	X	X					Samples Collected by Richard Moriarty
2 #2	4/24/00	14:15	X		MW-03S		X								X	X	X	X					
3 #3	4/24/00	14:45	X		MW-13S		X								X	X	X	X					
4																							Sample containers Sealed in poly bags and placed on wet ice for transport RM
5 #4	4/25/00	11:40	X		TMW-1		X								X	X	X	X					
6 #5	4/25/00	12:20	X		TMW-2		X								X	X	X	X					
#6	4/25/00	12:45	X		TMW-3		X								X	X	X	X					
8																							
9 #7	4/25/00	09:15	X		CS-1					X					X	X	X	X					Samples Hand-Delivered to ENCO, JAX 4/25/00 RM
10 #8	4/25/00	10:00	X		CS-2					X					X	X	X	X					
#9	4/25/00	10:30	X		CS-3					X					X	X	X	X					
12																							Sample coolers sealed w/ custody seals for Transport RM
13																							
14																							

SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE 4/25/00	TIME 16:55	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) ☐ Jacksonville ☐ Orlando	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.
Billy Clarke	4/25/00	4:55 P.M.	☒ YES ☐ NO	JAX109607

REMARKS: Each Sample Kit Contains: RM
Groundwater: 2 x 40 ml vials - HCl (8260)
1 x 1000 ml glass - UNP (8270)
2 x 1000 ml glass - H2SO4 (TPH/TRO)
1 x 500 ml poly - HNO3 (Total Recoverable Metals)

Soil: 3 x 4oz Glass CB270, FLPRO, 3 x 5gm Encore CB260/5035

ATTACHMENT B

Well Sampling Field Logs

Well Sampling Log

Date: 4/24/00 Time: 13:05 Project Number: Limited Closure
Site Location: Imperial Naval Station Fuel Depot - Tanks 99, 100, 101
Well I.D. MW-15S Depth of well (from TOC) 14.80 ft Depth to water 8.28 ft
Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft
Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC
Well Volume 1.0 gal Well Vol= 6.52 /H x 1 /r^2 x 0.163= 1.0 gal/vol
H= 14.80 /TD - 8.28 /DTW= 6.52 ft
Well Type: ___upgradient ___downgradient ___ hot spot _____ other
Longitude _____ Latitude _____
Purge Information:
Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.
Purge Start Time: 13:28 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2		PURGED Well 5 Volumes				
3						
4						
5						
Field Parameters						

Purge Stop Time: 13:38 Total gallons purged: 5.0
Sample Information:
Sample Collection Time: 13:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	Ft-Pro	total (5) RCRA metals		
Sample Containers	2x40ml Vials	1x1000ml Glass (Amber)	2x1000ml Glass (Amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	Ice	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Yes Color: Milky Turbidity: Moderate
Comments: _____
Field Instrument Information:
Instruments Used: N/A
Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: _____ Time/Date: _____
Ambient Conditions: Warm (80°F) overcast w/-0 8-12 west
Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

esa Well Sampling Log

Date: 4/24/00 Time: 14:00 Project Number: Limited Closure

Site Location: Mayport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. MW-03S Depth of well (from TOC) 15.30 ft Depth to water 10.22 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.83 (1.0) gal Well Vol= 5.08 /H x 1 /r^2 x 0.163= 0.83 gal/vol

H= 15.30 /TD - 10.22 /DTW= 5.08 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.

Purge Start Time: 14:03 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2		— Purged Well 5 Volumes			—	
3						
4						
5						
Field Parameters						

Purge Stop Time: 14:13 Total gallons purged: 5.0

Sample Information:

Sample Collection Time: 14:15 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	Ice	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly Clear Turbidity: Low

Comments: _____

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: ___ Time/Date: ___

Ambient Conditions: Warm (80°F) overcast w/ no 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Richard Moriarty

esa Well Sampling Log

Date: 4/24/00 Time: 14:25 Project Number: Limited Closure

Site Location: Mayport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. MW-13S Depth of well (from TOC) 15.17 ft Depth to water 9.40 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.94 (1.0) gal Well Vol= 5.77 /H × 1 /r² × 0.163= 0.94 gal/vol

H= 15.17 /TD - 9.40 /DTW= 5.77 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.

Purge Start Time: 1432 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2						
3		Purged Well 5 Volumes				
4						
5						
Field Parameters						

Purge Stop Time: 14:42 Total gallons purged: 5.0

Sample Information:

Sample Collection Time: 14:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	unp	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly clear Turbidity: moderate

Comments:

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast wind 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

[signature]

esa TMW-1

Well Sampling Log

Date: 4/25/00 Time: 11:00 Project Number: Limited Closure

Site Location: Moffett Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. TMW-1 Depth of well (from TOC) 10.60 ft Depth to water 8.67 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction _____ ft. _____ in. slotted screen Casing Material PVC

Well Volume 0.32 gal Well Vol= 1.93 /H x 1 /r^2 x 0.163= 0.31 gal/vol

H= 10.60 /TD - 8.67 /DTW= 1.93 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 11:27 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.32					
2	0.64					
3	0.86		PURGED well 5 volumes			
4	1.18					
5	1.50					
Field Parameters						

Purge Stop Time: 11:36 Total gallons purged: 1.6

Sample Information:

Sample Collection Time: 11:40 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (6) RCRA metals		
Sample Containers	2x40ml Vials	1x1000ml Glass (Amber)	2x1000ml Glass (Amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	Nap	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Yes Color: Grey-clearing with Purge Turbidity: Moderate

Comments: Installed TMW-1 @ 0930 - South of Tank #101, NEAR Piping

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 _____ 7.0 _____ 10.0 _____ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast w/ wind 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Richard Moriarty

- TMW-2

esa Well Sampling Log

Date: 4/25/00 Time: 11:45 Project Number: Limited Closure

Site Location: Mayport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. TMW-2 Depth of well (from TOC) 10.60 ft Depth to water 8.52 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.34 gal Well Vol= 2.08 /H × 1 /r² × 0.163= 0.34 gal/vol

H= 10.60 /TD - 8.52 /DTW= 2.08 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 12:07 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.35					
2	0.7		Purged well			
3	1.05		5 Volumes			
4	1.40					
5	1.75					
Field Parameters						

Purge Stop Time: 12:16 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 12:20 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	Unp	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Slight Petro Color: Milky Turbidity: Moderate

Comments: Installed TMW-2 South of Tank #100, near piping

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast wind 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

esa Well Sampling Log

Date: 4/25/00 Time: 1230 Project Number: Limited Closure
Site Location: Seaport Naval Station Fuel Depot - Tanks 99 100, 101
Well I.D. TMW-3 Depth of well (from TOC) 10.60 ft Depth to water 8.90 ft
Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft
Well Diameter _____ in. Well Construction _____ ft. _____ in. slotted screen Casing Material PVC
Well Volume 0.27 (10.3) gal Well Vol= 1.70 /H x _____ /r^2 x 0.163= 0.27 gal/vol
H= 10.60 /TD - 8.90 /DTW= 1.70 ft
Well Type: ___upgradient ___downgradient ___ hot spot _____ other
Longitude _____ Latitude _____
Purge Information:
Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.
Purge Start Time: 12:34 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6	Purged well 5 volumes				
3	0.9					
4	1.2					
5	1.5					
Field Parameters						

Purge Stop Time: 12:43 Total gallons purged: 1.5
Sample Information:
Sample Collection Time: 12:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	M-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml Glass (Amber)	2x1000ml Glass (Amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	UNP	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly clear Turbidity: Low
Comments: Installed TMW-3 @ Midpoint Between Tank # 100 + 101
Field Instrument Information:
Instruments Used: N/A
Calibration: pH 4.0 _____ 7.0 _____ 10.0 _____ Conductivity: _____ Time/Date: _____
Ambient Conditions: Warm (80°F) overcast w/no 8-12 west
Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 201
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

11200-1 St. Johns Industrial Parkway • Jacksonville, Florida 32246 • 904/565-2820 • FAX 904/565-2830
1041 Johnnie Dodds Boulevard, Suite 5C • Mt. Pleasant, South Carolina 29464 • 843/971-2689 • FAX 843/971-6912
e-mail www.aerostar.net

LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 201
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

PREPARED FOR:

Environmental Recovery Group, Inc.
251 Levy Road
Atlantic Beach, Florida 32233-0569
ERG Job Number 2464

RØICC JAX AREA
02 APR 23 PM 1:57

PREPARED BY:

Aerostar Environmental Services, Inc.
11200 St. Johns Industrial Parkway, Suite 1
Jacksonville, Florida 32246
(904) 565-2820

Richard D. McCann, Project Manager — 1/19/01 Date

Leon J. Carrero, P.G.; Manager, Environmental Services — 1/19/01 Date

TABLE OF CONTENTS

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1.0	INTRODUCTION	1
2.0	STORAGE TANK REMOVAL PROCEDURES	1
3.0	ENVIRONMENTAL MONITORING ACTIVITIES	2
4.0	RECOMMENDATIONS	4

TABLES

TABLE 1	Soil Screening Summary
TABLE 2	Soil Analytical Summary
TABLE 3	Groundwater Analytical Summary

FIGURES

FIGURE 1	Topographic Site Location Map
FIGURE 2	Site Plan and Sampling Locations

APPENDICES

APPENDIX A	Limited Closure Summary Report
APPENDIX B	Storage Tank Facility Registration Form
APPENDIX C	Photographic Documentation
APPENDIX D	Laboratory Analytical Reports

1.0 INTRODUCTION

Aerostar Environmental Services, Inc. (AEROSTAR) provided environmental services during closure of an aboveground storage tank (AST) system designated as Tank Number 201, located at the Mayport Naval Station, Mayport, Duval County, Florida, Florida FDEP ID #168626008; hereafter referred to as the site. Tank Number 201 provided jet fuel to aircraft carriers stationed at Mayport Naval Station. A topographic map showing the location of the site is included as Figure 1. Demolition and closure activities for the AST, including tasking subcontractors, were managed by Reliable Mechanical, Inc. (RMI) of Louisville, Kentucky; the prime contractor on the MILCON project. Environmental assessment activities were conducted by AEROSTAR personnel in accordance with the guidelines established in the Storage Tank System Closure Assessment Requirements and following closure specifications provided by RMI. Based on the results of this investigation, further assessment is recommended for the area of the former AST system. The following sections present the AST system location and description, closure procedures and results of the environmental monitoring activities.

2.0 STORAGE TANK REMOVAL PROCEDURES

The former AST system was located approximately 200 feet south of the St. Johns River on the Mayport Naval Station and consisted of a 590,000-gallon steel tank containing JP-5 jet fuel. The AST was constructed of welded steel sheets on a one-foot thick round concrete pad approximately 86 feet in diameter. Information obtained by AEROSTAR indicated that the AST was installed in 1960. A site plan showing the location of the former AST system is included as Figure 2.

The AST system was removed between October 12 and October 20, 2000 by Realco Recycling and Wrecking Company subcontracted by Reliable Mechanical, Inc., the prime contractor in charge of the MILCON project. Prior to demolition, the remaining contents of Tank Number 201 were transferred to Tank Number 202 located at the site. The interior of the tank was cleaned by Environmental Recovery Group, Inc. (ERG) prior to transportation and off-site disposal of the sludge by Waste Reduction Systems, Inc. (WRS). The steel roof and walls of the tank were demolished and properly disposed of leaving only the steel tank bottom (approximately 0.5-inches thick) and the one-foot thick concrete pad. Copies of the Limited Closure Summary Report and the Storage Tank

Facility Registration Form are included in Appendices A and B, respectively. Photographic documentation of the site conditions during soil and groundwater sampling activities is included in Appendix C.

3.0 ENVIRONMENTAL MONITORING ACTIVITIES

On October 23, 2000, five soil borings (TB-1 through TB-5) were advanced in the former tank bottom and eight soil borings (PB-1 through PB-8) were advanced around the perimeter of the former tank to evaluate soil quality. Soil samples were collected during boring advancement at one-foot intervals from approximately one foot below land surface (BLS) to approximately four feet BLS using a three-inch diameter, stainless steel hand auger. The soil samples were screened with a calibrated portable Heath Tech Porta-FID III™ Organic Vapor Analyzer with a Flame Ionization Detector (OVA-FID). Each sample was also screened with a charcoal filter to differentiate the instrument's response to naturally occurring methane vapors. The difference between the readings is the vapor concentration attributed to petroleum hydrocarbons. In addition to the OVA-FID screening, each sample was inspected for signs of hydrocarbon staining and unusual odors. Soil sample collection and screening activities were conducted in accordance with AEROSTAR's FDEP-approved Comprehensive Quality Assurance Project Plan (CQAPP) #940023G.

Hydrocarbon vapors were detected above the State target level of 10 parts per million (ppm), established as a "positive field screening result" in Chapter 62-770, Florida Administrative Code (FAC). Maximum vapor concentrations detected in soil samples collected from PB-1, PB-7, and PB-8 ranged from 900 ppm to 2600 ppm. Hydrocarbon vapors detected in soil samples collected from borings TB-1 through TB-5 and PB-2 through PB-6 ranged from below detectable limits to 8 ppm. Results of the soil vapor screening are included in Table 1. The soil sample locations are shown in Figure 2.

On October 23, 2000, soil samples exhibiting the highest OVA responses were collected for laboratory analyses by Environmental Conservation Laboratories, Inc. (Enco) in Jacksonville, Florida. The samples were analyzed for the parameters listed in EPA Method 5035/8021A for Volatile Organic Aromatics (VOAs), EPA Method 8310 for Polynuclear Aromatic Hydrocarbons

(PAHs), and Total Recoverable Petroleum Hydrocarbons (TRPHs) by the FL-PRO Method. Soil sampling activities were conducted in accordance with AEROSTAR's FDEP-approved CQAPP #940023G.

Soil samples collected from PB-7 showed hydrocarbon concentrations of naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH of 3.1 milligrams per kilogram (mg/kg), 8.8 mg/kg, 13 mg/kg, and 5,600 mg/kg, respectively. The leachability target levels established in Chapter 62-777, FAC for naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH are 1.7 mg/kg, 2.2 mg/kg, 6.1 mg/kg, and 340 mg/kg, respectively. The TRPH concentrations detected in samples collected from PB-7 were also above the Residential and Commercial/Industrial Direct Exposure Limits of 340 mg/kg and 2,500 mg/kg, respectively. Analytical results from the remaining soil sampling points were either below the laboratory detection limits or below all State target levels. Soil analytical results are summarized in Table 2. Laboratory analytical reports are included in Appendix D.

On October 24, 2000, temporary wells were installed and groundwater samples were collected at the soil sampling locations shown in Figure 2. The temporary wells were installed approximately 6.5 to 7.0 feet BLS using a three-inch diameter, stainless steel hand auger. The water table surface was encountered at approximately 4.5 feet BLS during the assessment activities. Groundwater samples were collected from TB-1 through TB-5 and PB-1 through PB-8 for analysis of the parameters listed in EPA Method 601 for volatile organic compounds (VOCs), EPA Method 602 for VOAs, EPA Method 610 for PAHs, EPA Method 504 for ethylene dibromide, TRPH by the FL-PRO Method, EPA Method 200.7 for total lead. The samples were collected using disposable bailers after purging each well of five well volumes to ensure representative samples of actual aquifer conditions. Groundwater sampling activities were conducted in accordance with AEROSTAR's FDEP-approved CQAPP #940023G.

Groundwater samples collected from perimeter sampling points PB-1, PB-3, and PB-8 showed hydrocarbons concentrations which exceed State target levels established in Chapter 62-777, FAC.

Analytical results from the remaining groundwater sampling points were either below the laboratory detection limits or below all State target levels. Groundwater analytical results with corresponding State target levels are summarized in Table 3. The concentrations which exceed target levels are highlighted in Table 3. Laboratory analytical reports are included in Appendix D.

4.0 RECOMMENDATIONS

Petroleum hydrocarbon concentrations were detected above the State target levels established in Chapter 62-777, FAC, in the groundwater and soil samples collected for this investigation. Based on the results of the tank closure, further assessment activities are recommended for the area of the former AST system.

TABLES

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Reliable Mech./Mayport #2464 **Facility ID No: 168626008**

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
TB-1	10/23/00	~4.5	1	NA	NA	NA	TB-1 = Tank Bottom Sampling Location 1
			2	4	--	4	
			3	6	--	6	
			4	6	--	6	
TB-2	10/23/00	~4.5	1	NA	NA	NA	
			2	5	--	5	
			3	ND	--	ND	
			4	6	--	6	
TB-3	10/23/00	~4.5	1	NA	NA	NA	
			2	ND	--	ND	
			3	ND	--	ND	
			4	6	--	6	
TB-4	10/23/00	~4.5	1	NA	NA	NA	
			2	ND	--	ND	
			3	ND	--	ND	
			4	ND	--	ND	
TB-5	10/23/00	~4.5	1	NA	NA	NA	
			2	6	--	6	
			3	1	--	1	
			4	8	--	8	
PB-1	10/23/00	~4.5	1	ND	--	ND	PB-1 = Perimeter Boring 1
			2	2	--	2	
			3	15	2	13	
			4	900	ND	900	
PB-2	10/23/00	~4.5	1	ND	--	ND	
			2	7		7	
			3	ND	--	ND	
			4	ND	--	ND	
PB-3	10/23/00	~4.0	1	ND	--	ND	
			2	ND	--	ND	
			3	ND	--	ND	
			3.5	5		5	
PB-4	10/23/00	~4.5	1	ND	--	ND	
			2	ND	--	ND	
			3	ND	--	ND	
			4	ND	--	ND	
PB-5	10/23/00	~4.5	1	ND	--	ND	
			2	ND	--	ND	
			3	ND	--	ND	
			4	ND	--	ND	
PB-6	10/23/00	~4.5	1	ND	--	ND	
			2	ND	--	ND	
			3	ND	--	ND	
			4	ND	--	ND	
PB-7	10/23/00	~4.5	1	1200	ND	1200	
			2	2050	ND	2050	
			3	2300	ND	2300	
			4	2600	ND	2600	
PB-8	10/23/00	~4.5	1	2400	ND	2400	
			2	2550	ND	2550	
			3	1500	ND	1500	
			4	2300	ND	2300	

TABLE 2: SOIL ANALYTICAL SUMMARY

Facility Name: Reliable Mech./Mayport #2464 **Facility ID Number: 168626008**

Sample				OVA													
Sample ID	Date Collected	Depth to Water (ft)	Sample Interval (fbs)	Net OVA Reading (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	Naph-thalene (ppm)	1-Methyl-napthalene (ppm)	2-Methyl-napthalene (ppm)	Fluorene (ppm)	Fluor-anthene (ppm)	Pyrene (ppm)	TRPH (ppm)	Comments
Residenital Direct Exposure Limits					1.1	380	1100	5900	3200	40	68	80	2200	2900	2200	340	
Commercial Direct Exposure Limits					1.6	2600	8400	40000	22000	270	470	560	28000	48000	37000	2500	
Leachability Groundwater Limits					0.007	0.5	0.6	0.2	0.2	1.7	2.2	6.1	160	1200	880	340	
TB-1	10/23/00	~4.5	4	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Dil. x 1.15 (VOAs)
TB-2	10/23/00	~4.5	4	6	BDL	0.0023	0.0031	0.0043	BDL	BDL	BDL	BDL	BDL	BDL	EDL	BDL	
TB-3	10/23/00	~4.5	4	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	EDL	BDL	Dil. x 1.16 (VOAs)
TB-4	10/23/00	~4.5	4	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.015	0.014	BDL	Dil. x 1.13 (VOAs)
TB-5	10/23/00	~4.5	3.5	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	EDL	BDL	Dil. x 1.21 (VOAs)
PB-1	10/23/00	~4.5	4	900	BDL	BDL	BDL	BDL	BDL	BDL	0.32	0.1	0.022	BDL	0.069	300	Dil. x 100 (VOAs)
PB-2	10/23/00	~4.5	2	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.047	0.14	0.11	BDL	Dil. x 1.21 (VOAs)
PB-3	10/23/00	~4.0	3.5	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	EDL	BDL	Dil. x 1.18 (VOAs)
PB-4	10/23/00	~4.5	4	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.066	0.059	BDL	Dil. x 1.04 (VOAs)
PB-5	10/23/00	~4.5	4	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.37	0.36	44	Dil. x 1.12 (VOAs)
PB-6	10/23/00	~4.5	4	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	EDL	BDL	Dil. x 1.18 (VOAs)
PB-7	10/23/00	~4.5	4	2600	BDL	BDL	BDL	BDL	BDL	**3.1**	**8.8**	**13**	0.32	2	1.2	**5600**	Dil. x 100 (VOAs)/x 10 (SVOCs)
PB-8	10/23/00	~4.5	2	2550	BDL	BDL	BDL	BDL	BDL	0.16	2.2	1.4	0.89	5	4.5	1800	Dil. x 1.03 (VOAs)/ x 10 (SVOCs)

TABLE 3: GROUNDWATER LABORATORY ANALYTICAL SUMMARY

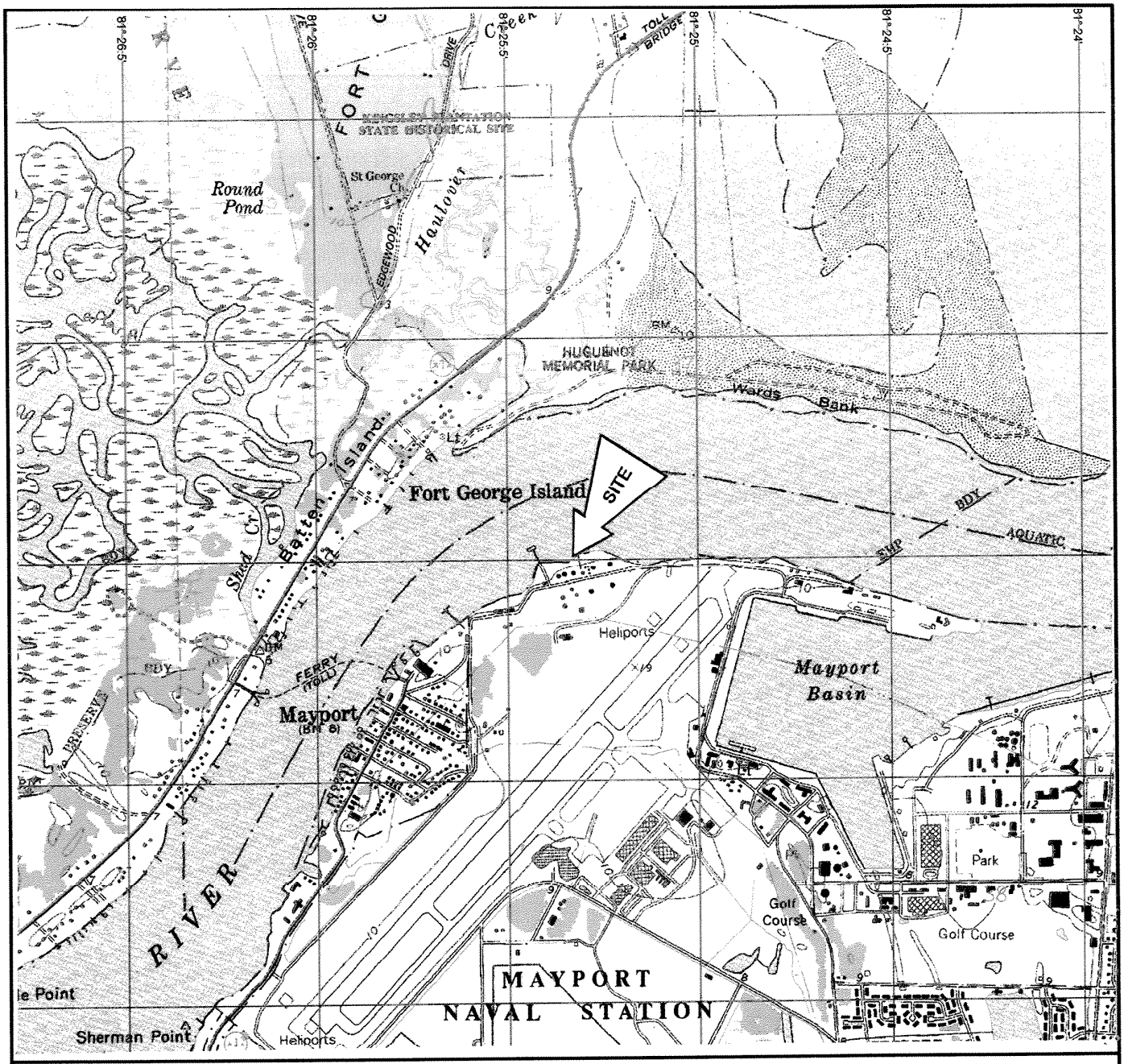
Facility Name: Reliable Mech./Mayport #2464 **Facility ID No: 168626008**

Not Analyzed = NA
Below Detection Limits = BDL
All results in parts per billion (ppb)

Sample				Ethyl-	Total		Naph-	1-Methyl	2-Methyl	Acenaph-	Acenaph-	Fluor-		Phenan-	Anthra-			Benzo(a)			TRPH
Location	Date	Benzene	Toluene	benzene	Xylenes	MTBE	thalene	napthalene	napthalene	thylene	thene	anthene	Fluorene	threne	cene	Pyrene	Chrysene	Lead	anthracene	EDB	ppm
		1	40	30	20	50	20	20	20	210	20	280	280	210	2100	210	4.8	15	0.2	0.02	5000
TB-1	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.0	BDL	BDL	BDL
TB-2	10/24/00	BDL	BDL	BDL	4.0	BDL	4.6	2.1	2.3	BDL	0.57	1.9	0.31	2.8	6.2	1.3	0.12	BDL	BDL	BDL	0.80
TB-3	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TB-4	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0	BDL	BDL	BDL
TB-5	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	BDL	BDL	BDL	0.14	BDL	BDL	BDL	BDL	BDL
PB-1	10/24/00	BDL	BDL	BDL	BDL	BDL	**170**[a]	**300**[a]	**330**[a]	BDL	3.6	8.0	4.4	BDL	BDL	3.0	BDL	BDL	BDL	BDL	15[b]
PB-2	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-3	10/24/00	**2.2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	BDL	BDL	BDL	0.21	BDL	BDL	BDL	BDL	BDL
PB-4	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-5	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-6	10/24/00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-7	10/24/00	BDL[c]	BDL[c]	BDL[c]	BDL[c]	BDL[c]	1.1	**37**	17	1.2	2.7	5.3	1.5	BDL	BDL	4.1	0.53	BDL	**0.77**	BDL	8.8[b]
PB-8	10/24/00	BDL	BDL	BDL	BDL	BDL	**1000**[d]	**1500**[d]	**2200**[d]	BDL	**39**	170[d]	45[d]	BDL	BDL	110	**22**	BDL	**31**	BDL	320[d]

a = Results determined from 1:10 dilution
b = Results determined from 1:2 dilution
c = Results determined from 1:5 dilution
d = Results determined from 1:50 dilution

FIGURES



MAYPORT QUADRANGLE

30081-B5-TF-024

PHOTOREVISED 1982

DMA 4744 IV NW-SERIES V847

7.5 MINUTE SERIES
(TOPOGRAPHIC)

CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

SCALE:
1:24,000

NATIONAL GEODETIC VERTICAL DATUM OF 1929

FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

MAYPORT TANK CLOSURE #1
MAYPORT NAVAL STATION

DRAWN BY: JJR

REFERENCE: MAP OF MAYPORT, FLORIDA PREPARED BY: U. S. GEOLOGICAL SURVEY

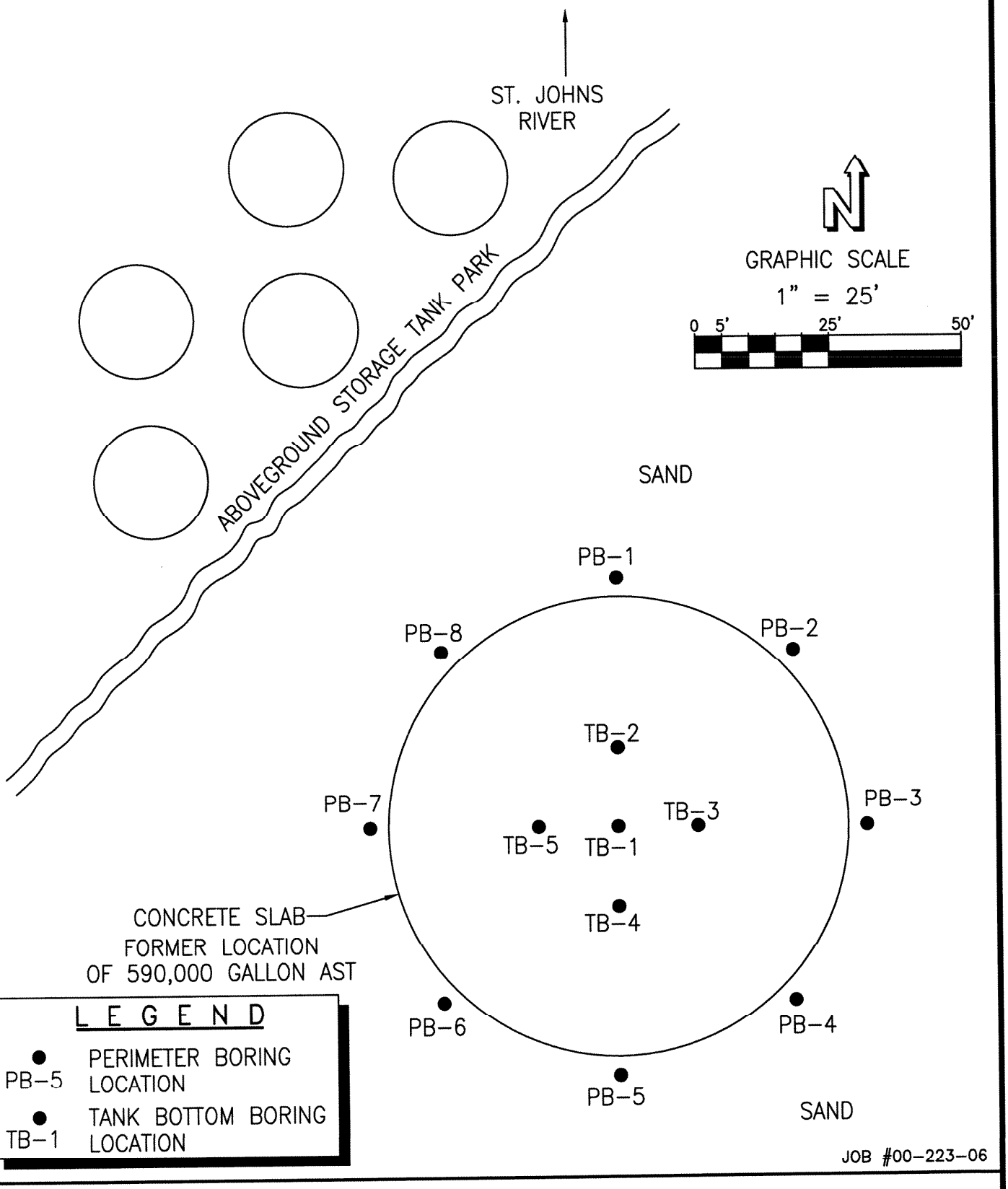


FIGURE 2. SITE PLAN AND SAMPLING LOCATIONS

AEROSTAR ENVIRONMENTAL SERVICES, INC.

MAYPORT TANK CLOSURE #1
MAYPORT NAVAL AIR STATION
JACKSONVILLE, FLORIDA

DRAWN BY: KJS

DATE: 11/02/00

APPENDIX A
LIMITED CLOSURE SUMMARY REPORT

Department of Environmental Protection

1 Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report:
Effective Date: July 13, 1998

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date: 10/25/00	FDEP Facility ID Number: 168626008	County: DUVAL
Facility Name MAYPORT NAVAL STATION	Facility Telephone #: ( )	
Facility Address:		
Owner or Operator Name:	Owner/Operator phone #: ( )	
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

☐ Aboveground	☐ Underground

2. General System Information

Types of Products Stored: JP-5 JET FUEL	Number of Tanks: ONE (1)	Age(s) of Tanks: ~40YRS.

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

☐ Tank Systems Removal?	☐ Spill Containment Installation?	☐ Change in Storage to a Non-Regulated Substance?
☐ Tank Systems Closed in Place?	☐ Dispenser Liners Installation?	☐ Release Prevention Barrier Installation?
☐ Piping Sump Installation?	☐ Secondary Containment Installation?	☐ Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	☐ Yes	☐ No
1. A Discharge Report Form submitted to the County?	☐ Yes	☐ No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	☐ Yes	☐ No
b. Is the depth to groundwater less than 20 feet?	☐ Yes	☐ No
c. Are there monitoring wells on site? If yes, were they	☐ Yes	☐ No
1. Groundwater monitoring wells?	☐ Yes	☐ No
2. Vapor monitoring wells?	☐ Yes	☐ No
3. Used for closure assessment sampling?	☐ Yes	☐ No
4. Properly closed?	☐ Yes	☐ No
5. Retained for site assessment purposes?	☐ Yes	☐ No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	☐ Yes	☐ No

Signature of owner or operator	Signature of person performing Limited Closure Assessment	Name of person performing Limited Closure Assessment
(date)	(date)	Affiliation

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

Storage Tank Facility Registration Form

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date July 13, 1998
DEP Application No. _____
(Filled in by DEP)

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[ ] Tank Info Update/Correction

A. FACILITY INFORMATION

County: DUVAL	**DEP Facility ID:**	**168626008**

Facility Name: MAYPORT NAVAL STATION
Facility Address: _____ City: Jacksonville Zip: _____
Facility Contact: _____ Business Phone: (_____)_____
Facility Type(s): _____ NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:(_____)_____**

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name:	Facility - Responsible Person Relation Type:	Effective Date
Mail address:	**[√] Facility Account Owner (pays fees)**	
City, ST, Zip:	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact:		
Telephone:	**STCM Account Number (if known)**	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
1	T	A	590000gal	1960	F	B	10/00	C		

Certified Contractor (performing tank installation or removal): _____ DBPR License No.: _____

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Printed Name & Title _____ **Signature** _____ **Date** _____

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way,
Suite B200
Jacksonville, FL 32256
904-448-4300

Central District
3319 Maguire Blvd.,
Suite 232
Orlando, FL 32803
407-894-7555

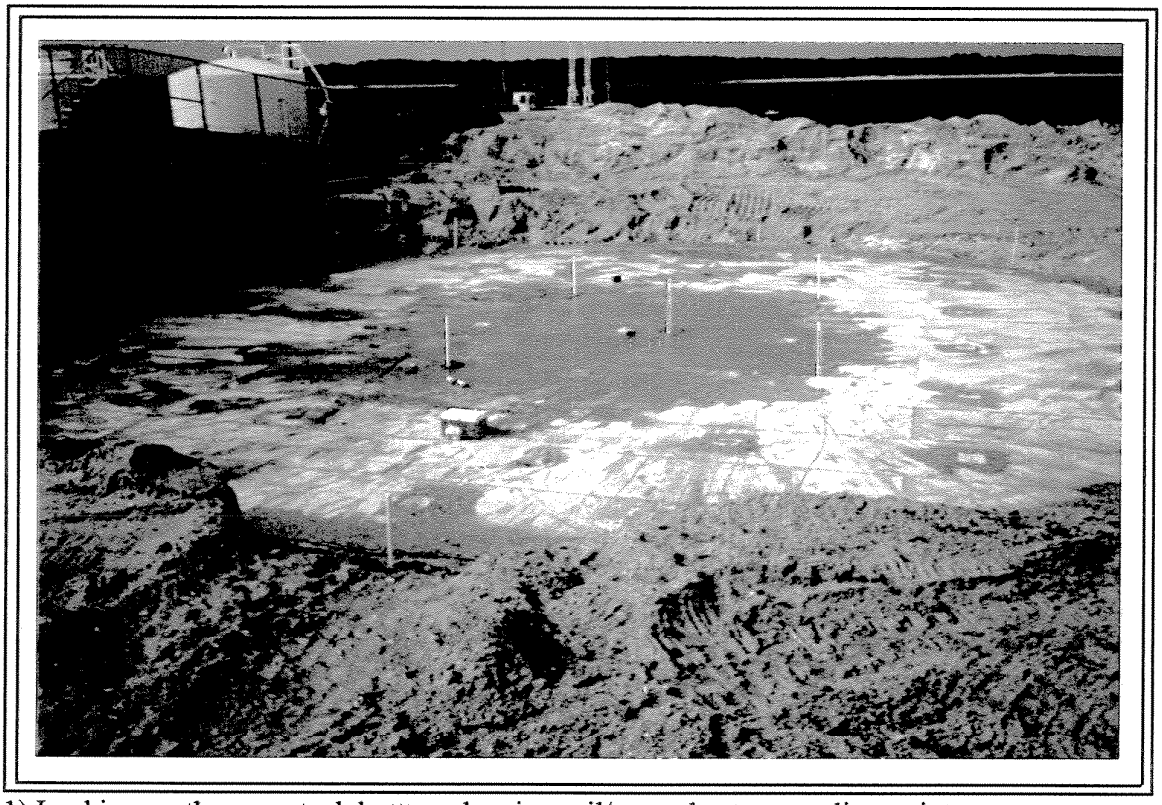
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave.,
W Palm Beach, FL 33416
561-681-6600

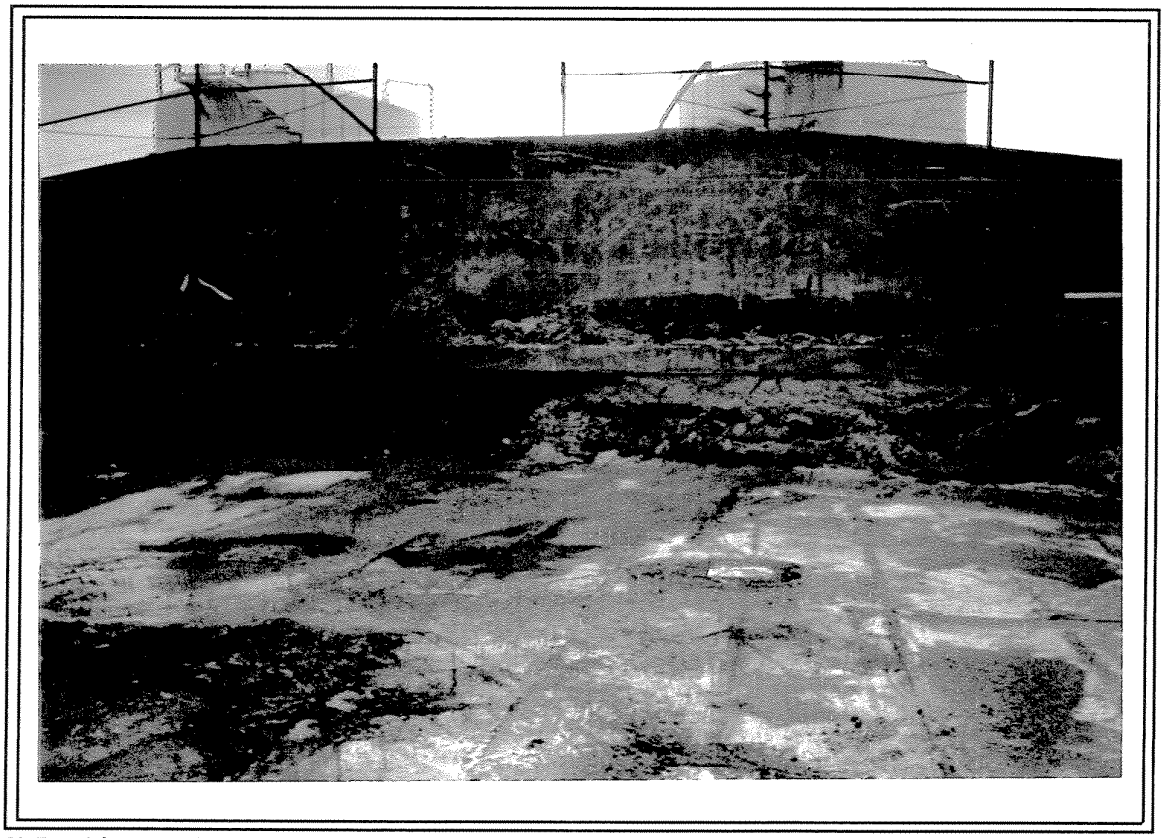
South District
2295 Victoria Ave.,
Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy.,
Suite 221
Marathon, FL 33050
305-289-2310

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



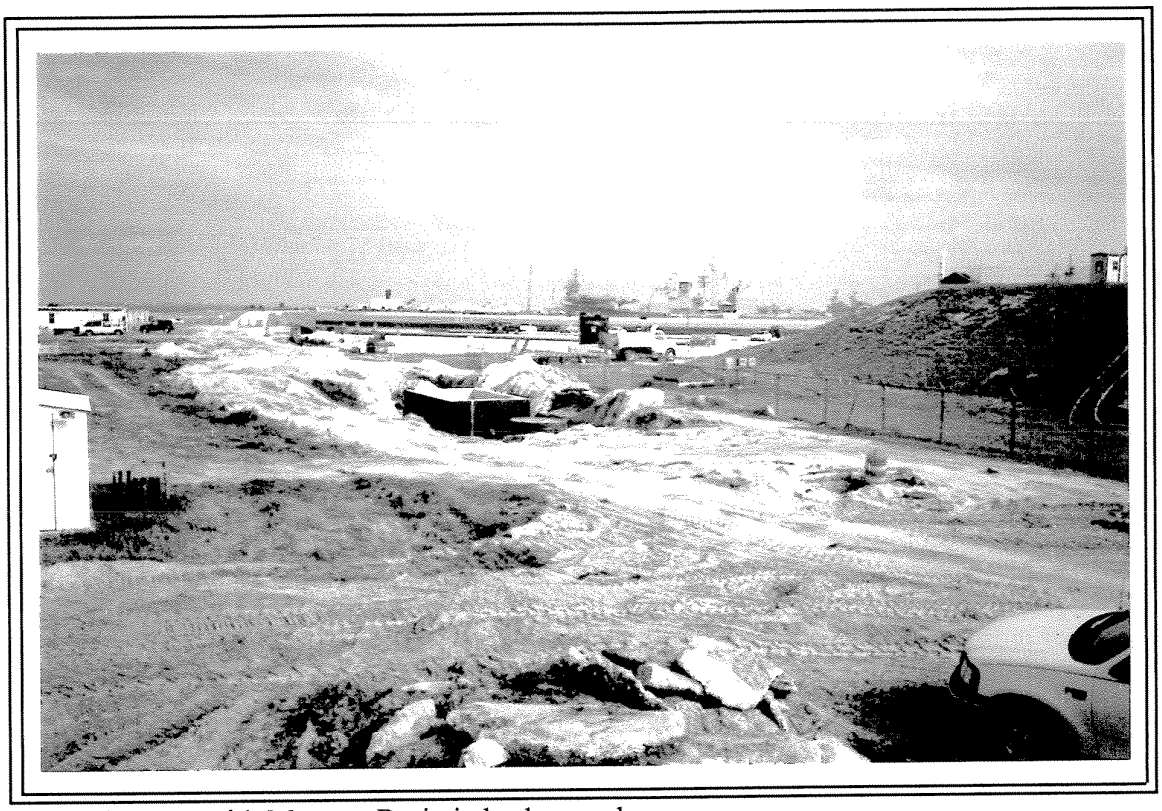
1) Looking north across tank bottom showing soil/groundwater sampling points.



2) Looking northwest at 20,000-gallon ASTs containing lube oil.

3) Looking south across tank bottom.

4) Looking southeast at Tank Number 202 containing JP-5 jet fuel.



5) Looking east with Mayport Basin in background.

6) View of steel tank bottom and concrete pad at sampling location TB-4.

APPENDIX D
LABORATORY ANALYTICAL REPORTS

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX13981
DATE SUBMITTED: October 25, 2000
DATE REPORTED : November 6, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2624

Reliable Mech. Tank Clsr

#1 - TB-1 @ 15:30 (10/24/00)
#2 - TB-2 @ 16:30 (10/24/00)
#3 - TB-3 @ 14:15 (10/24/00)
#4 - TB-4 @ 13:45 (10/24/00)
#5 - TB-5 @ 15:00 (10/24/00)
#6 - TB-6 @ 12:00 (10/25/00)
#7 - PB-1 @ 12:45 (10/24/00)
#8 - PB-2 @ 12:15 (10/24/00)
#9 - PB-3 @ 11:40 (10/24/00)
#10 - PB-4 @ 11:00 (10/24/00)
#11 - PB-5 @ 10:15 (10/24/00)
#12 - PB-6 @ 09:30 (10/24/00)
#13 - PB-7 @ 13:40 (10/24/00)
#14 - PB-8 @ 13:15 (10/24/00)

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX13981
DATE REPORTED: November 6, 2000
REFERENCE : 2624
PROJECT NAME : Reliable Mech. Tank Clsr

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TB-1	TB-2	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	84	37-161
Date Analyzed	10/28/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB-1**	**TB-2**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	**2.7**	µg/L
o-Xylene	1.0 U	**1.3**	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	93	112	52-147
Date Analyzed	10/28/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8310 - PAH BY HPLC	TB-1	TB-2	Units
Naphthalene	0.50 U	**4.6**	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	**2.1**	µg/L
2-Methylnaphthalene	1.0 U	**2.3**	µg/L
Acenaphthene	0.50 U	**0.57**	µg/L
Fluorene	0.10 U	**0.31**	µg/L
Phenanthrene	1.0 U	**2.8**	µg/L
Anthracene	0.20 U	**6.2**	µg/L
Fluoranthene	0.10 U	**1.9**	µg/L
Pyrene	0.10 U	**1.3**	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	**0.12**	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	96	103	43-148
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TB-1	TB-2	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TB-1	TB-2	Units
Lead	200.7	**0.0070** I	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-1	TB-2	Units
Hydrocarbons (C8-C40)	0.20 U	**0.80**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	79	96	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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EPA METHOD 601 - VOLATILE HALOCARBONS	**TB-3**	**TB-4**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	105	37-161
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB-3**	**TB-4**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	98	96	52-147
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB-3**	**TB-4**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.10 U	0.10 U	µg/L
Pyrene	0.10 U	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	115	93	43-148
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/02/00	11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**TB-3**	**TB-4**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.

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TOTAL METALS	METHOD	TB-3	TB-4	Units
Lead	200.7	0.0050 U	**0.0050** I	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-3	TB-4	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	89	84	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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EPA METHOD 601 - VOLATILE HALOCARBONS	**TB-5**	**TB-6**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	106	105	37-161
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB-5**	DUP **TB-6**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	**2.1**	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	98	80	52-147
Date Analyzed	10/28/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB-5**	**TB-6**	**Units**
Naphthalene	0.50 U	**3.2**	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	**1.9**	µg/L
2-Methylnaphthalene	1.0 U	**1.7**	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	**0.17**	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**0.23**	**1.1**	µg/L
Pyrene	**0.14**	**0.75**	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	**0.11**	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	106	104	43-148
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/02/00	11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**TB-5**	**TB-6**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TB-5	TB-6	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-5	TB-6	Units
Hydrocarbons (C8-C40)	0.20 U	**1.2**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	84	101	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 601 - VOLATILE HALOCARBONS	PB-1	PB-2	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	79	101	37-161
Date Analyzed	10/30/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 602 - VOLATILE AROMATICS	**PB-1**	**PB-2**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	89	105	52-147
Date Analyzed	10/30/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB-1**		**PB-2**	**Units**
Naphthalene	**170**	D1	0.50 U	µg/L
Acenaphthylene	1.0 U		1.0 U	µg/L
1-Methylnaphthalene	**300**	D1	1.0 U	µg/L
2-Methylnaphthalene	**330**	D1	1.0 U	µg/L
Acenaphthene	**3.6**		0.50 U	µg/L
Fluorene	**4.4**		0.10 U	µg/L
Phenanthrene	1.0 U		1.0 U	µg/L
Anthracene	0.20 U		0.20 U	µg/L
Fluoranthene	**8.0**		0.10 U	µg/L
Pyrene	**3.0**		0.10 U	µg/L
Benzo(a)anthracene	0.10 U		0.10 U	µg/L
Chrysene	0.10 U		0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(a)pyrene	0.10 U		0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U		0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U		0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		0.10 U	µg/L
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	111		109	43-148
Date Prepared	10/31/00		10/31/00	
Date Analyzed	11/02/00		11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB-1**	**PB-2**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:10 dilution.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-1	PB-2	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-1	PB-2	Units
Hydrocarbons (C8-C40)	**15** D2	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	100	95	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/02/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:2 dilution.

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EPA METHOD 601 - VOLATILE HALOCARBONS	PB-3	PB-4	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	104	101	37-161
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB-3**	**PB-4**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	**2.2**	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	95	96	52-147
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

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PROJECT NAME : Reliable Mech. Tank Clsr

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB-3**	**PB-4**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**0.23**	0.10 U	µg/L
Pyrene	**0.21**	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	115	113	43-148
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/02/00	11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB-3**	**PB-4**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-3	PB-4	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-3	PB-4	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	107	95	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-5	PB-6	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	104	37-161
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB-5**	**PB-6**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	95	94	52-147
Date Analyzed	10/28/00	10/28/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB-5**	**PB-6**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.10 U	0.10 U	µg/L
Pyrene	0.10 U	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	107	119	43-148
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/02/00	11/02/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB-5**	**PB-6**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-5	PB-6	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-5	PB-6	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	103	93	65-140
Date Prepared	10/31/00	10/31/00	
Date Analyzed	11/01/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**PB-7**	**PB-8**	**Units**
Dichlorodifluoromethane	1.0 U	5.0 U D3	µg/L
Chloromethane	1.0 U	5.0 U D3	µg/L
Vinyl Chloride	1.0 U	5.0 U D3	µg/L
Bromomethane	1.0 U	5.0 U D3	µg/L
Chloroethane	1.0 U	5.0 U D3	µg/L
Trichlorofluoromethane	2.0 U	10 U D3	µg/L
1,1-Dichloroethene	1.0 U	5.0 U D3	µg/L
Methylene Chloride	1.0 U	5.0 U D3	µg/L
t-1,2-Dichloroethene	1.0 U	5.0 U D3	µg/L
1,1-Dichloroethane	1.0 U	5.0 U D3	µg/L
c-1,2-Dichloroethene	1.0 U	5.0 U D3	µg/L
Chloroform	1.0 U	5.0 U D3	µg/L
1,1,1-Trichloroethane	1.0 U	5.0 U D3	µg/L
Carbon Tetrachloride	1.0 U	5.0 U D3	µg/L
1,2-Dichloroethane	1.0 U	5.0 U D3	µg/L
Trichloroethene	1.0 U	5.0 U D3	µg/L
1,2-Dichloropropane	1.0 U	5.0 U D3	µg/L
Bromodichloromethane	1.0 U	5.0 U D3	µg/L
c-1,3-Dichloropropene	1.0 U	5.0 U D3	µg/L
t-1,3-Dichloropropene	1.0 U	5.0 U D3	µg/L
1,1,2-Trichloroethane	1.0 U	5.0 U D3	µg/L
Tetrachloroethene	1.0 U	5.0 U D3	µg/L
Dibromochloromethane	1.0 U	5.0 U D3	µg/L
Chlorobenzene	1.0 U	5.0 U D3	µg/L
Bromoform	1.0 U	5.0 U D3	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	5.0 U D3	µg/L
1,3-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
1,4-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
1,2-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	78	86	37-161
Date Analyzed	10/30/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:5 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB-7**	**PB-8**	**Units**
Methyl tert-butyl ether	2.0 U	10 U D3	µg/L
Benzene	1.0 U	5.0 U D3	µg/L
Toluene	1.0 U	5.0 U D3	µg/L
Chlorobenzene	1.0 U	5.0 U D3	µg/L
Ethylbenzene	1.0 U	5.0 U D3	µg/L
m-Xylene & p-Xylene	1.0 U	5.0 U D3	µg/L
o-Xylene	1.0 U	5.0 U D3	µg/L
1,3-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
1,4-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
1,2-Dichlorobenzene	1.0 U	5.0 U D3	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	81	124	52-147
Date Analyzed	10/30/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:5 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-7	PB-8		Units
Naphthalene	1.1	1000	D4	µg/L
Acenaphthylene	1.2	1.0 U		µg/L
1-Methylnaphthalene	37	1500	D4	µg/L
2-Methylnaphthalene	17	2200	D4	µg/L
Acenaphthene	2.7	39		µg/L
Fluorene	1.5	49		µg/L
Phenanthrene	1.0 U	1.0 U		µg/L
Anthracene	0.20 U	0.20 U		µg/L
Fluoranthene	5.3	170	D4	µg/L
Pyrene	4.1	110	D4	µg/L
Benzo(a)anthracene	0.77	31		µg/L
Chrysene	0.53	22		µg/L
Benzo(b)fluoranthene	0.21	7.5		µg/L
Benzo(k)fluoranthene	0.14	4.5		µg/L
Benzo(a)pyrene	0.21	7.3		µg/L
Dibenzo(a,h)anthracene	0.10 U	1.5		µg/L
Benzo(g,h,i)perylene	0.10 U	2.0		µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	2.8		µg/L
Surrogate:	**% RECOV**	**% RECOV**		**LIMITS**
p-terphenyl	106	0 U		43-148
Date Prepared	10/31/00	10/31/00		
Date Analyzed	11/02/00	11/02/00		

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-7	PB-8	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	11/01/00	11/01/00	
Date Analyzed	11/02/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:50 dilution.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-7	PB-8	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		10/31/00	10/31/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-7		PB-8		Units
Hydrocarbons (C8-C40)	**8.8**	D2	**320**	D4	mg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
o-Terphenyl	97		*		65-140
Date Prepared	10/31/00		10/31/00		
Date Analyzed	11/02/00		11/02/00		

* = Surrogate recovery unavailable due to sample silution.
U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:2 dilution.
D4 = Analyte value determined from a 1:50 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**LAB BLANK**	**LAB BLANK**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	102	86	37-161
Date Analyzed	10/28/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**LAB BLANK**	**LAB BLANK**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	94	108	52-147
Date Analyzed	10/28/00	10/29/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**LAB BLANK**	**Units**
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	114	43-148
Date Prepared	10/31/00	
Date Analyzed	11/01/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**LAB BLANK**	**Units**
Ethylene Dibromide	0.020 U	µg/L
Date Prepared	11/01/00	
Date Analyzed	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		10/30/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	78	65-140
Date Prepared	10/31/00	
Date Analyzed	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		10/30/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	78	65-140
Date Prepared	10/31/00	
Date Analyzed	11/01/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	98	74	37-161
Date Analyzed	10/29/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**LAB BLANK**	**LAB BLANK**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	87	87	52-147
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	97/ 93/ 94	45-161	4	29
Chloroform	107/100/101	64-154	7	16
Carbon Tetrachloride	119/112/111	71-165	6	21
Trichloroethene	122/116/118	69-158	5	24
Tetrachloroethene	102/ 99/109	63-166	3	21
Chlorobenzene	97/ 96/100	67-147	1	19
EPA Method 602				
Benzene	87/ 84/ 84	60-138	4	17
Toluene	81/ 81/ 85	57-138	<1	16
Ethylbenzene	94/ 92/ 93	49-144	2	17
o-Xylene	93/ 88/ 89	50-151	6	17
EPA Method 8310				
Naphthalene	65/ 81/ 77	59-111	22	12
Acenaphthene	68/ 86/ 75	58-128	23	13
Benzo(a)pyrene	82/ 91/ 88	78-134	10	15
Benzo(g,h,i)perylene	87/103/ 92	62-115	17	30
EPA Method 504				
Ethylene Dibromide	112/112/108	57-130	<1	18
Dibromochloropropane	100/104/ 96	60-130	4	20

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
TOTAL METALS				
Lead, 200.7	96/101/ 98	68-126	5	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	93/ 93/ 71	-	<1	

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX13950
DATE SUBMITTED: October 24, 2000
DATE REPORTED : November 7, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

10/23/00

#1	- TB 1-4'	@ 16:35
#2	- TB 2-4'	@ 16:05
#3	- TB 3-4'	@ 15:00
#4	- TB 4-4'	@ 15:10
#5	- TB 5-3.5'	@ 16:25
#6	- PB 1-4'	@ 09:10
#7	- PB 2-2'	@ 09:24
#8	- PB 3-3.5	@ 09:43
#9	- PB 4-4'	@ 11:26
#10	- PB 5-4'	@ 11:37
#11	- PB 6-4'	@ 11:50
#12	- PB 7-4'	@ 13:28
#13	- PB 8-2'	@ 13:45

PROJECT MANAGER _____
Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**TB 1-4'**	**TB 2-4'**	**Units**
Methyl tert-butyl ether	1.3 U D1	1.0 U	µg/Kg
Benzene	1.3 U D1	1.2 U	µg/Kg
Toluene	1.3 U D1	**2.3**	µg/Kg
Ethylbenzene	1.3 U D1	**3.1**	µg/Kg
m-Xylene & p-Xylene	2.5 U D1	2.0 U	µg/Kg
o-Xylene	1.3 U D1	**4.3**	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	119	106	69-138
D8-Toluene	138	135	67-123
Bromofluorobenzene	106	108	64-131
Date Analyzed	11/06/00	11/07/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.15 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB 1-4'**	**TB 2-4'**	**Units**
Naphthalene	18 U	20 U	µg/Kg
Acenaphthylene	36 U	41 U	µg/Kg
1-Methylnaphthalene	36 U	41 U	µg/Kg
2-Methylnaphthalene	36 U	41 U	µg/Kg
Acenaphthene	18 U	20 U	µg/Kg
Fluorene	3.6 U	4.1 U	µg/Kg
Phenanthrene	36 U	41 U	µg/Kg
Anthracene	18 U	20 U	µg/Kg
Fluoranthene	3.6 U	4.1 U	µg/Kg
Pyrene	3.6 U	4.1 U	µg/Kg
Benzo(a)anthracene	18 U	20 U	µg/Kg
Chrysene	3.6 U	4.1 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	4.1 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	4.1 U	µg/Kg
Benzo(a)pyrene	3.6 U	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	4.1 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	116	121	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/30/00	10/30/00	

MISCELLANEOUS	**METHOD**	**TB 1-4'**	**TB 2-4'**	**Units**
Percent Solids	SM2540G	**92**	**81**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**TB 1-4'**	**TB 2-4'**	**Units**
Hydrocarbons (C8-C40)	7.2 U	8.1 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	80	95	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**TB 3-4'**	**TB 4-4'**	**Units**
Methyl tert-butyl ether	1.4 U D2	1.2 U D3	µg/Kg
Benzene	1.4 U D2	1.2 U D3	µg/Kg
Toluene	1.4 U D2	1.2 U D3	µg/Kg
Ethylbenzene	1.4 U D2	1.2 U D3	µg/Kg
m-Xylene & p-Xylene	2.6 U D2	2.6 U D3	µg/Kg
o-Xylene	1.4 U D2	1.2 U D3	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	112	113	69-138
D8-Toluene	137	138	67-123
Bromofluorobenzene	104	105	64-131
Date Analyzed	11/06/00	11/06/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.16 dilution.
D3 = Analyte value determined from a 1:1.13 dilution.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB 3-4'**	**TB 4-4'**	**Units**
Naphthalene	19 U	18 U	µg/Kg
Acenaphthylene	38 U	37 U	µg/Kg
1-Methylnaphthalene	38 U	37 U	µg/Kg
2-Methylnaphthalene	38 U	37 U	µg/Kg
Acenaphthene	19 U	18 U	µg/Kg
Fluorene	3.8 U	3.7 U	µg/Kg
Phenanthrene	38 U	37 U	µg/Kg
Anthracene	19 U	18 U	µg/Kg
Fluoranthene	3.8 U	**15**	µg/Kg
Pyrene	3.8 U	**14**	µg/Kg
Benzo(a)anthracene	19 U	18 U	µg/Kg
Chrysene	3.8 U	3.7 U	µg/Kg
Benzo(b)fluoranthene	3.8 U	3.7 U	µg/Kg
Benzo(k)fluoranthene	3.8 U	3.7 U	µg/Kg
Benzo(a)pyrene	3.8 U	3.7 U	µg/Kg
Dibenzo(a,h)anthracene	3.8 U	3.7 U	µg/Kg
Benzo(g,h,i)perylene	3.8 U	3.7 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.8 U	3.7 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	120	118	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/30/00	10/30/00	

MISCELLANEOUS	**METHOD**	**TB 3-4'**	**TB 4-4'**	**Units**
Percent Solids	SM2540G	**87**	**90**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**TB 3-4'**	**TB 4-4'**	**Units**
Hydrocarbons (C8-C40)	7.6 U	7.3 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	72	83	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**TB 5-3.5'**	**PB 1-4'**	**Units**
Methyl tert-butyl ether	1.3 U D4	130 U D5	µg/Kg
Benzene	1.3 U D4	130 U D5	µg/Kg
Toluene	1.3 U D4	130 U D5	µg/Kg
Ethylbenzene	1.3 U D4	130 U D5	µg/Kg
m-Xylene & p-Xylene	2.6 U D4	250 U D5	µg/Kg
o-Xylene	1.3 U D4	130 U D5	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	112	106	69-138
D8-Toluene	137	146	67-123
Bromofluorobenzene	105	105	64-131
Date Analyzed	11/06/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:1.21 dilution.
D5 = Analyte value determined from a 1:100 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB 5-3.5'**	**PB 1-4'**	**Units**
Naphthalene	18 U	21 U	µg/Kg
Acenaphthylene	35 U	42 U	µg/Kg
1-Methylnaphthalene	35 U	**320**	µg/Kg
2-Methylnaphthalene	35 U	**100**	µg/Kg
Acenaphthene	18 U	21 U	µg/Kg
Fluorene	3.5 U	**22**	µg/Kg
Phenanthrene	35 U	42 U	µg/Kg
Anthracene	18 U	21 U	µg/Kg
Fluoranthene	3.5 U	4.2 U	µg/Kg
Pyrene	3.5 U	**69**	µg/Kg
Benzo(a)anthracene	18 U	21 U	µg/Kg
Chrysene	3.5 U	4.2 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	4.2 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	4.2 U	µg/Kg
Benzo(a)pyrene	3.5 U	4.2 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	4.2 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	4.2 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	4.2 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	117	125	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/30/00	10/31/00	

MISCELLANEOUS	**METHOD**	**TB 5-3.5'**	**PB 1-4'**	**Units**
Percent Solids	SM2540G	**93**	**79**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**TB 5-3.5'**	**PB 1-4'**	**Units**
Hydrocarbons (C8-C40)	7.1 U	**300**	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	77	78	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**PB 2-2'**	**PB 3-3.5**	**Units**
Methyl tert-butyl ether	1.3 U D4	1.6 U D6	µg/Kg
Benzene	1.3 U D4	1.6 U D6	µg/Kg
Toluene	1.3 U D4	1.6 U D6	µg/Kg
Ethylbenzene	1.3 U D4	1.6 U D6	µg/Kg
m-Xylene & p-Xylene	2.6 U D4	3.2 U D6	µg/Kg
o-Xylene	1.3 U D4	1.6 U D6	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	116	113	69-138
D8-Toluene	137	134	67-123
Bromofluorobenzene	106	106	64-131
Date Analyzed	11/06/00	11/06/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:1.21 dilution.
D6 = Analyte value determined from a 1:1.18 dilution.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB 2-2'**	**PB 3-3.5**	**Units**
Naphthalene	18 U	22 U	µg/Kg
Acenaphthylene	36 U	44 U	µg/Kg
1-Methylnaphthalene	36 U	44 U	µg/Kg
2-Methylnaphthalene	36 U	44 U	µg/Kg
Acenaphthene	18 U	22 U	µg/Kg
Fluorene	**47**	4.4 U	µg/Kg
Phenanthrene	**130**	44 U	µg/Kg
Anthracene	**330**	22 U	µg/Kg
Fluoranthene	**140**	**15**	µg/Kg
Pyrene	**110**	**11**	µg/Kg
Benzo(a)anthracene	**68**	22 U	µg/Kg
Chrysene	**63**	**8.5**	µg/Kg
Benzo(b)fluoranthene	**29**	4.4 U	µg/Kg
Benzo(k)fluoranthene	**23**	4.4 U	µg/Kg
Benzo(a)pyrene	**32**	4.4 U	µg/Kg
Dibenzo(a,h)anthracene	**15**	4.4 U	µg/Kg
Benzo(g,h,i)perylene	**31**	4.4 U	µg/Kg
Indeno(1,2,3-cd)pyrene	**27**	4.4 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	120	106	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/31/00	10/31/00	

MISCELLANEOUS	**METHOD**	**PB 2-2'**	**PB 3-3.5**	**Units**
Percent Solids	SM2540G	**91**	**74**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**PB 2-2'**	**PB 3-3.5**	**Units**
Hydrocarbons (C8-C40)	7.2 U	8.9 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	82	94	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**PB 4-4'**		**PB 5-4'**		**Units**
Methyl tert-butyl ether	1.0 U	D7	1.2 U	D8	µg/Kg
Benzene	1.0 U	D7	1.2 U	D8	µg/Kg
Toluene	1.0 U	D7	1.2 U	D8	µg/Kg
Ethylbenzene	1.0 U	D7	1.2 U	D8	µg/Kg
m-Xylene & p-Xylene	3.1 U	D7	2.4 U	D8	µg/Kg
o-Xylene	1.0 U	D7	1.2 U	D8	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	113		114		69-138
D8-Toluene	136		137		67-123
Bromofluorobenzene	106		103		64-131
Date Analyzed	11/06/00		11/06/00		

U = Compound was analyzed for but not detected to the level shown.
D7 = Analyte value determined from a 1:1.04 dilution.
D8 = Analyte value determined from a 1:1.12 dilution.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB 4-4'**	**PB 5-4'**	**Units**
Naphthalene	24 U	18 U	µg/Kg
Acenaphthylene	48 U	37 U	µg/Kg
1-Methylnaphthalene	48 U	37 U	µg/Kg
2-Methylnaphthalene	48 U	37 U	µg/Kg
Acenaphthene	24 U	18 U	µg/Kg
Fluorene	4.8 U	3.7 U	µg/Kg
Phenanthrene	48 U	**140**	µg/Kg
Anthracene	**140**	18 U	µg/Kg
Fluoranthene	**66**	**370**	µg/Kg
Pyrene	**59**	**360**	µg/Kg
Benzo(a)anthracene	**27**	**180**	µg/Kg
Chrysene	**24**	**160**	µg/Kg
Benzo(b)fluoranthene	**11**	**150**	µg/Kg
Benzo(k)fluoranthene	**7.0**	**49**	µg/Kg
Benzo(a)pyrene	**8.2**	**71**	µg/Kg
Dibenzo(a,h)anthracene	4.8 U	**21**	µg/Kg
Benzo(g,h,i)perylene	**7.5**	**44**	µg/Kg
Indeno(1,2,3-cd)pyrene	**5.7**	**80**	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	115	120	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/31/00	10/31/00	

MISCELLANEOUS	**METHOD**	**PB 4-4'**	**PB 5-4'**	**Units**
Percent Solids	SM2540G	**68**	**90**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**PB 4-4'**	**PB 5-4'**	**Units**
Hydrocarbons (C8-C40)	9.7 U	**44**	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	91	104	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/30/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**PB 6-4'**	**PB 7-4'**	**Units**
Methyl tert-butyl ether	1.2 U D6	110 U D5	µg/Kg
Benzene	1.2 U D6	110 U D5	µg/Kg
Toluene	1.2 U D6	110 U D5	µg/Kg
Ethylbenzene	1.2 U D6	110 U D5	µg/Kg
m-Xylene & p-Xylene	2.5 U D6	220 U D5	µg/Kg
o-Xylene	1.2 U D6	110 U D5	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	112	105	69-138
D8-Toluene	140	145	67-123
Bromofluorobenzene	108	108	64-131
Date Analyzed	11/06/00	11/02/00	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:100 dilution.
D6 = Analyte value determined from a 1:1.18 dilution.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB 6-4'**	**PB 7-4'**	**Units**
Naphthalene	17 U	**3100** D9	µg/Kg
Acenaphthylene	34 U	360 U D9	µg/Kg
1-Methylnaphthalene	34 U	**8800** D9	µg/Kg
2-Methylnaphthalene	34 U	**13000** D9	µg/Kg
Acenaphthene	17 U	**410** D9	µg/Kg
Fluorene	3.4 U	**320** D9	µg/Kg
Phenanthrene	34 U	360 U D9	µg/Kg
Anthracene	17 U	180 U D9	µg/Kg
Fluoranthene	3.4 U	**2000** D9	µg/Kg
Pyrene	3.4 U	**1200** D9	µg/Kg
Benzo(a)anthracene	17 U	**340** D9	µg/Kg
Chrysene	3.4 U	**220** D9	µg/Kg
Benzo(b)fluoranthene	3.4 U	**110** D9	µg/Kg
Benzo(k)fluoranthene	3.4 U	**82** D9	µg/Kg
Benzo(a)pyrene	3.4 U	**110** D9	µg/Kg
Dibenzo(a,h)anthracene	3.4 U	35 U D9	µg/Kg
Benzo(g,h,i)perylene	3.4 U	**54** D9	µg/Kg
Indeno(1,2,3-cd)pyrene	3.4 U	**76** D9	µg/Kg

Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	121	0 U	39-141
Date Prepared	10/30/00	10/30/00	
Date Analyzed	10/31/00	10/31/00	

MISCELLANEOUS	**METHOD**	**PB 6-4'**	**PB 7-4'**	**Units**
Percent Solids	SM2540G	**96**	**93**	%
Date Analyzed		10/26/00	10/26/00	

U = Compound was analyzed for but not detected to the level shown.
D9 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX13950
DATE REPORTED: November 7, 2000
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**PB 6-4'**	**PB 7-4'**	**Units**
Hydrocarbons (C8-C40)	6.9 U	**5600** D9	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	91	0 U	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/30/00	10/31/00	

U = Compound was analyzed for but not detected to the level shown.
D9 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**PB 8-2'**	**LAB BLANK**	**Units**
Methyl tert-butyl ether	1.0 U D10	100 U D5	µg/Kg
Benzene	1.0 U D10	100 U D5	µg/Kg
Toluene	1.0 U D10	100 U D5	µg/Kg
Ethylbenzene	1.0 U D10	100 U D5	µg/Kg
m-Xylene & p-Xylene	2.8 U D10	200 U D5	µg/Kg
o-Xylene	1.0 U D10	100 U D5	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	122	106	69-138
D8-Toluene	129	139	67-123
Bromofluorobenzene	123	107	64-131
Date Analyzed	11/06/00	11/01/00	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:100 dilution.
D10 = Analyte value determined from a 1:1.03 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB 8-2'		LAB BLANK	Units
Naphthalene	160		16 U	µg/Kg
Acenaphthylene	44 U		33 U	µg/Kg
1-Methylnaphthalene	2200		33 U	µg/Kg
2-Methylnaphthalene	1400		33 U	µg/Kg
Acenaphthene	1000		16 U	µg/Kg
Fluorene	890		3.3 U	µg/Kg
Phenanthrene	5500	D9	33 U	µg/Kg
Anthracene	7000	D9	16 U	µg/Kg
Fluoranthene	5000	D9	3.3 U	µg/Kg
Pyrene	4500	D9	3.3 U	µg/Kg
Benzo(a)anthracene	1100		16 U	µg/Kg
Chrysene	820		3.3 U	µg/Kg
Benzo(b)fluoranthene	250		3.3 U	µg/Kg
Benzo(k)fluoranthene	190		3.3 U	µg/Kg
Benzo(a)pyrene	300		3.3 U	µg/Kg
Dibenzo(a,h)anthracene	60		3.3 U	µg/Kg
Benzo(g,h,i)perylene	73		3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	140		3.3 U	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	0 U		112	39-141
Date Prepared	10/30/00		10/30/00	
Date Analyzed	10/31/00		10/30/00	

MISCELLANEOUS	METHOD	PB 8-2'	LAB BLANK	Units
Percent Solids	SM2540G	74	NA	%
Date Analyzed		10/26/00		

U = Compound was analyzed for but not detected to the level shown.
D9 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	**PB 8-2'**	**LAB BLANK**	**Units**
Hydrocarbons (C8-C40)	**1800** D9	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	91	51-148
Date Prepared	10/26/00	10/26/00	
Date Analyzed	10/31/00	10/30/00	

* = MS/MSD/RPD unavailable due to high original sample concentration.
U = Compound was analyzed for but not detected to the level shown.
D9 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**LAB BLANK**	**LAB BLANK**	**Units**
Methyl tert-butyl ether	1.0 U	1.0 U	µg/Kg
Benzene	1.0 U	1.0 U	µg/Kg
Toluene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	1.0 U	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/Kg
o-Xylene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	112	108	69-138
D8-Toluene	158	132	67-123
Bromofluorobenzene	107	100	64-131
Date Analyzed	11/06/00	11/07/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**LAB BLANK**	**Units**
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	16 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	16 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	116	39-141
Date Prepared	10/31/00	
Date Analyzed	10/31/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	111/114/126	44-169	3	19
Benzene	98/ 99/106	50-140	1	23
Trichloroethene	92/ 90/ 98	75-125	2	17
Toluene	103/104/109	56-139	<1	22
Chlorobenzene	96/ 96/103	73-123	<1	24
EPA Method 8260				
1,1-Dichloroethene	126/144/152	44-169	13	19
Benzene	99/117/115	50-140	17	23
Trichloroethene	82/ 95/ 98	75-125	15	17
Toluene	84/102/103	56-139	19	22
Chlorobenzene	89/102/101	73-123	14	24
EPA Method 8310				
Naphthalene	84/ 80/ 76	48-130	5	20
Acenaphthene	97/108/ 97	36-127	11	17
Benzo(a)pyrene	89/ 87/ 74	64-141	2	22
Benzo(g,h,i)perylene	104/100/102	58-168	4	21

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	84/ 80/ 89	48-130	5	20
Acenaphthene	97/108/108	36-127	11	17
Benzo(a)pyrene	89/ 87/ 72	64-141	2	22
Benzo(g,h,i)perylene	104/100/103	58-168	4	21
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	89/ 88/ 82	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 202
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

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LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 202
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

PREPARED FOR:

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251 Levy Road
Atlantic Beach, Florida 32233-0569
ERG Job Number 2828

PREPARED BY:

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Richard D. McCann, Project Manager — 3/5/01 Date

Leon J. Carrero, P.G.; Manager, Environmental Services — 3/5/01 Date

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APPENDIX A	Limited Closure Summary Report
APPENDIX B	Storage Tank Facility Registration Form
APPENDIX C	Photographic Documentation
APPENDIX D	Laboratory Analytical Reports

1.0 INTRODUCTION

Aerostar Environmental Services, Inc. (AEROSTAR) provided environmental services during closure of an aboveground storage tank (AST) system (hereafter referred to as Tank #202), located at the Mayport Naval Station, Mayport, Duval County, Florida, Florida Department of Environmental Protection (FDEP ID) #168626008; hereafter referred to as the site. According to Navy records, the AST stored JP-5 to fuel aircraft carriers stationed at Mayport Naval Station. A topographic map showing the location of the site is included as Figure 1. Demolition and AST closure activities were managed by Reliable Mechanical, Inc. (RMI) of Louisville, Kentucky; the prime contractor on the MILCON project. Environmental assessment activities were conducted by AEROSTAR personnel in accordance with the guidelines established in the Storage Tank System Closure Assessment Requirements and following closure specifications provided by RMI. Based on the results of this investigation, further assessment is recommended for the area of the former AST system. The following sections present the AST system location and description, closure procedures and results of the environmental monitoring activities.

2.0 STORAGE TANK REMOVAL PROCEDURES

The former AST system was located approximately 200 feet south of the St. Johns River on the Mayport Naval Station, and consisted of a 598,000-gallon steel tank containing JP-5 jet fuel. The AST was constructed of welded steel sheets and placed on a one-foot thick round concrete pad, approximately 88 feet in diameter. Information obtained by AEROSTAR from the Navy indicated that the AST was installed in 1960. A site plan showing the location of the former AST system is included as Figure 2.

The AST system was removed between January 12 and January 13, 2001 by Realco Recycling and Wrecking Company, a subcontractor to RMI. Prior to demolition, the remaining contents of Tank #202 were transferred to another tank located at the site. The interior of the tank was cleaned by Environmental Recovery Group, Inc. (ERG). The rinse water was transported by Waste Reduction Systems, Inc. (WRS) to Industrial Water Services (IWS) in Jacksonville, Florida for proper disposal. The steel roof and walls of the tank were demolished and properly disposed of, leaving only the steel tank bottom (approximately 0.5-inches thick) and the one-foot thick concrete pad. Copies of the

Limited Closure Summary Report and the Storage Tank Facility Registration Form are included in Appendices A and B, respectively. Photographic documentation of the site conditions during soil and groundwater sampling activities is included in Appendix C.

3.0 ENVIRONMENTAL MONITORING ACTIVITIES

On January 17, 2001, soil borings PB-1 through PB-8 were advanced around the perimeter of the former AST. On January 18, 2001, soil borings TB-1 through TB-5 were advanced through the concrete pad to further evaluate soil quality. Soil samples were collected during boring advancement at one-foot intervals from approximately one foot below land surface (BLS) to approximately five feet BLS using a three-inch diameter, stainless steel hand auger. The soil samples were screened with a calibrated portable Heath Tech Porta-FID III™ Organic Vapor Analyzer with a Flame Ionization Detector (OVA-FID). Each sample was also screened with a charcoal filter to differentiate the instrument's response to naturally occurring methane vapors. The difference between the readings is the vapor concentration attributed to petroleum hydrocarbons. In addition to the OVA-FID screening, each sample was inspected for signs of hydrocarbon staining and unusual odors. Soil sample collection and screening activities were conducted in accordance with AEROSTAR's FDEP-approved Comprehensive Quality Assurance Project Plan (CQAPP) #940023G.

Hydrocarbon vapors were detected above the State target level of 10 parts per million (ppm), established as a "positive field screening result" in Chapter 62-770, Florida Administrative Code (FAC). Maximum vapor concentrations detected in soil samples collected from the vadose zone ranged from 1260 ppm to 3600 ppm. Results of the soil vapor screening are included in Table 1. The soil sample locations are shown in Figure 2.

Soil samples exhibiting the highest OVA responses from each borehole were collected for laboratory analyses. The samples were submitted to Environmental Conservation Laboratories, Inc. (Enco) in Jacksonville, Florida for analyses of the parameters listed in EPA Method 5035/8021A for Volatile Organic Aromatics (VOAs), EPA Method 8310 for Polynuclear Aromatic Hydrocarbons (PAHs), and Total Recoverable Petroleum Hydrocarbons (TRPHs) by the FL-PRO Method. Soil sampling

activities were conducted in accordance with AEROSTAR's FDEP-approved CQAPP #940023G.

Volatile and semi-volatile organic compounds and TRPH constituents were detected above State cleanup target levels in soil samples collected from the area of the former AST. Soil analytical results are summarized in Table 2. The laboratory analytical reports are included in Appendix D.

On January 17 and 18, 2001, thirteen temporary wells (PB-1 through PB-8 and TB-1 through TB-5) were installed at the locations of the soil borings, as shown in Figure 2. The temporary wells were installed approximately eight feet BLS using a three-inch diameter, stainless steel hand auger. The water table surface was encountered at approximately 5.5 feet BLS during the assessment activities. Groundwater samples were collected from the temporary wells for analyses of the parameters listed in EPA Method 601 for volatile organic hydrocarbons (VOHs), EPA Method 602 for VOAs, EPA Method 610 for PAHs, EPA Method 504 for ethylene dibromide, TRPH by the FL-PRO Method, and EPA Method 200.7 for total lead. The samples were collected using disposable bailers after purging each well of five well volumes to ensure representative samples of actual aquifer conditions. The samples to be analyzed for total lead were collected by the quiescent sampling method using an adjustable-flow peristaltic pump to minimize sample turbidity. Groundwater sampling activities were conducted in accordance with AEROSTAR's FDEP-approved CQAPP #940023G.

Results of the groundwater analyses showed hydrocarbons concentrations above State cleanup target levels in the samples collected in the area of the AST. Groundwater analytical results with corresponding State target levels are summarized in Table 3. Laboratory analytical reports are included in Appendix D.

4.0 RECOMMENDATIONS

Petroleum hydrocarbon concentrations were detected above the State target levels established in Chapter 62-777, FAC, in the groundwater and soil samples collected for this investigation. Based on the results of the tank closure, further assessment activities are recommended for the area of the former AST system.

TABLES

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Mayport AST Closure /Tank #202 **Facility ID No: 168626008**

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
TB-1	1/18/01	~5.5	1	NA	NA	NA	TB-1 = Tank Bottom Sampling Location 1
			2	1325	15	1310	
			3	2350	10	2340	
			4	2525	0	2525	
			5	2175	0	2175	
TB-2	1/18/01	~5.5	1	NA	NA	NA	Concrete Bottom ~12-in. Thick
			2	1900	40	1860	
			3	1200	70	1130	
			4	1550	45	1505	
			5	500	60	440	
TB-3	1/18/01	~5.5	1	NA	NA	NA	Concrete Bottom ~12-in. Thick
			2	3500	0	3500	
			3	1700	0	1700	
			4	2800	0	2800	
			5	3600	0	3600	
TB-4	1/18/01	~5.5	1	NA	NA	NA	Concrete Bottom ~12-in. Thick
			2	1600	5	1595	
			3	2000	0	2000	
			4	1250	0	1250	
			5	1200	0	1200	
TB-5	1/18/01	~5.5	1	NA	NA	NA	Concrete Bottom ~12-in. Thick
			2	1150	12	1138	
			3	2400	8	2392	
			4	2800	0	2800	
			5	2300	0	2300	
PB-1	1/17/01	~6.5	1	7	0	7	PB-1 = Perimeter Boring 1
			2	180	0	180	
			3	110	0	110	
			4	240	0	240	
			5	230	0	230	
			6	145	0	145	
PB-2	1/17/01	~5.5	1	110	0	110	
			2	220	0	220	
			3	260	0	260	
			4	220	0	220	
			5	290	0	290	
PB-3	1/17/01	~5.5	1	180	2	178	
			2	360	36	324	
			3	1300	38	1262	
			4	1850	150	1700	
			5	1400	140	1260	
PB-4	1/17/01	~5.5	1	60	0	60	
			2	40	0	40	
			3	35	0	35	
			4	40	0	40	
			5	280	0	280	
PB-5	1/17/01	~5.5	1	6	0	6	
			2	2	0	2	
			3	1	0	1	
			4	2	0	2	
			5	35	0	35	
PB-6	1/17/01	~5.5	1	2	0	2	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
			5	0	0	0	
PB-7	1/17/01	~5.5	1	8	0	8	
			2	200	5	195	
			3	250	3	247	
			4	750	8	742	
			5	1400	22	1378	
PB-8	1/17/01	~5.5	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	24	0	24	
			5	0	0	0	

TABLE 2: SOIL ANALYTICAL SUMMARY

Facility Name: Mayport Tank Closure/Tank #202 **Facility ID Number: 168626008**

Sample				OVA													
Sample ID	Date Collected	Depth to Water (ft)	Sample Interval (fbs)	Net OVA Reading (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naph-thalene (mg/kg)	1-Methyl-napthalene (mg/kg)	2-Methyl-napthalene (mg/kg)	Fluorene (mg/kg)	Fluor-anthene (mg/kg)	Pyrene (mg/kg)	TRPH (mg/kg)	Comments
Residenital Direct Exposure Limits					1.1	380	1100	5900	3200	40	68	80	2200	2900	2200	340	
Commercial Direct Exposure Limits					1.6	2600	8400	40000	22000	270	470	560	28000	48000	37000	2500	
Leachability Groundwater Limits					0.007	0.5	0.6	0.2	0.2	1.7	2.2	6.1	160	1200	880	340	
TB-1	1/18/01	~4.5	4	2525	<0.56	<0.56	<0.56	<1.66	<0.56	<0.180	**5.6**	**8.6**	<0.037	<0.037	<0.037	**1400**	Dil. X 500/10/5
TB-2	1/18/01	~4.5	2	1860	<0.0013	<0.0013	<0.0013	<0.004	<0.0013	<0.018	0.047	0.05	<0.0037	0.014	0.012	12	Dil. X 1.18
TB-3	1/18/01	~4.5	5	3600	<5.7	<5.7	<5.7	<16.7	<5.7	<1.9	**88**	**130**	<0.38	5.5	1.4	**22000**	Dil. X 5000/100/50
TB-4	1/18/01	~4.5	3	2000	<0.0013	<0.0013	<0.0013	<0.0039	<0.0013	<0.018	0.045	0.049	0.01	0.071	0.07	8.3	Dil. X 1.18
TB-5	1/18/01	~4.5	4	2800	<0.520	<0.520	<0.520	<1.52	<0.520	<0.170	**19**	**28**	<0.034	0.21	0.38	**4400**	Dil. X 500/100/50
PB-1	1/18/01	~4.5	4	240	<1.1	<1.1	<1.1	<3.3	<1.1	<3.8	**42**	**50**	<0.36	9.4	7.5	**14000**	Dil. X 1000/100/50
PB-2	1/18/01	~4.5	5	290	<0.63	<0.63	<0.63	<1.93	<0.63	16	**39**	**54**	<0.042	5.1	4.2	**8300**	Dil. X 500/10/50
PB-3	1/18/01	~4.0	4	1700	<1.1	<1.1	<1.1	<3.3	<1.1	<3.8	**72**	**90**	<0.36	2.6	2	**12000**	Dil. X 1000/100/50
PB-4	1/18/01	~4.5	5	280	<1.0	<1.0	<1.0	<3.1	<1.0	<0.17	**41**	**37**	0.43	1.1	1	**11000**	Dil. X 1000/10/50
PB-5	1/18/01	~4.5	5	35	<0.53	<0.53	<0.53	<1.53	<0.53	<0.017	0.039	0.053	0.028	0.024	0.032	210	Dil. X 500
PB-6	1/18/01	~4.5	5	0	<0.0014	<0.0014	<0.0014	<0.0042	<0.0014	<0.017	<0.034	<0.034	<0.0034	<0.0034	<0.0034	<6.9	Dil. X 1.35
PB-7	1/18/01	~4.5	5	1378	<1.0	<1.0	<1.0	<3.1	<1.0	20	**54**	**83**	0.17	15	12	**13000**	Dil. X 1000/50/100
PB-8	1/18/01	~4.5	4	24	<0.68	<0.68	<0.68	<2.08	<0.68	<0.23	<0.45	<0.45	<0.045	0.15	0.16	**1000**	Dil. X500/10/5

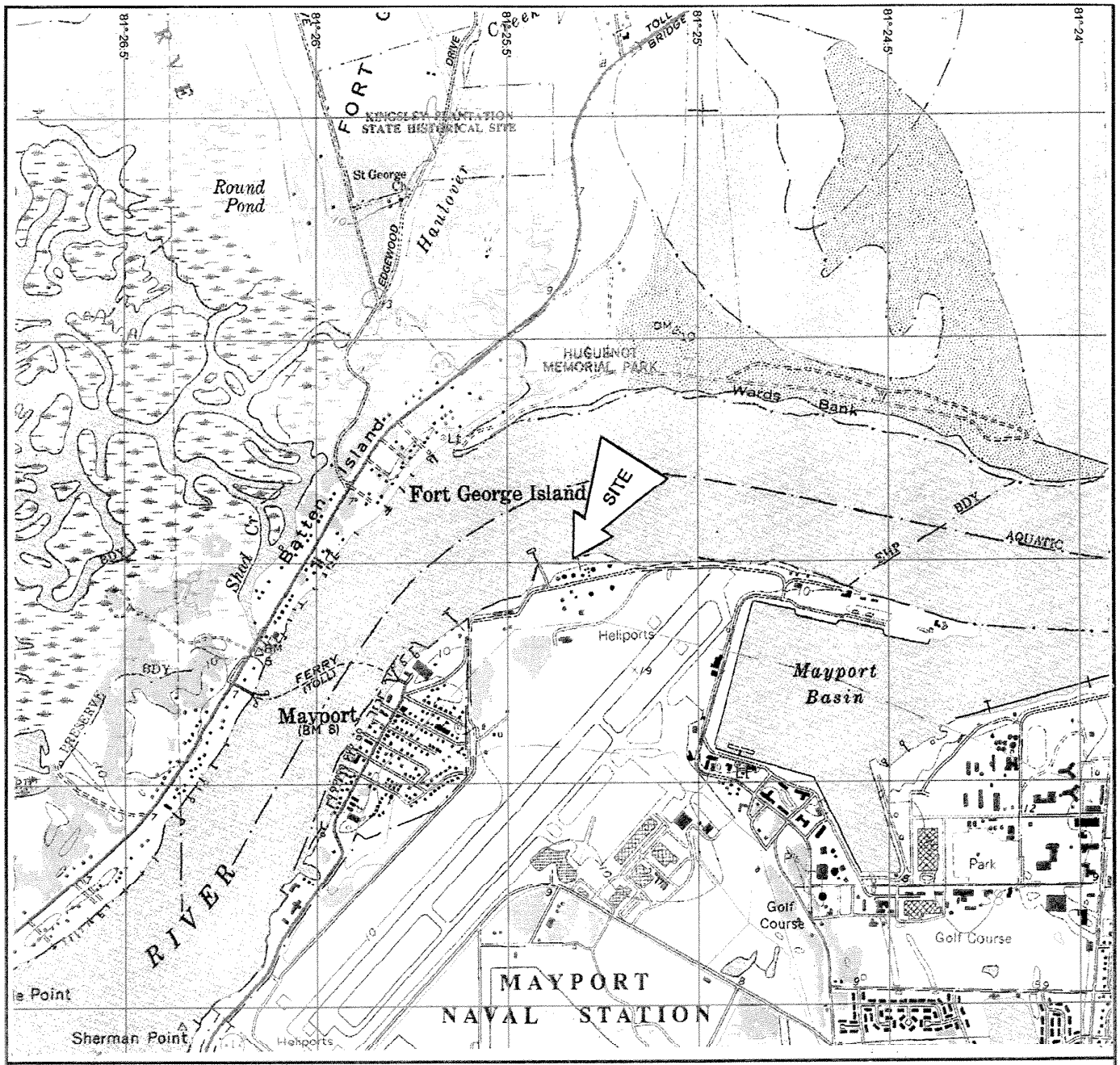
TABLE 3: GROUNDWATER LABORATORY ANALYTICAL SUMMARY

Facility Name: Mayport Tank Closure/Tank #202 **Facility ID No: 168626008**

Not Analyzed = NA
All results in micrograms per liter (ug/L)

Sample				Ethyl-	Total		Naph-	1-Methyl	2-Methyl		Fluor-				TRPH	
Location	Date	Benzene	Toluene	benzene	Xylenes	MTBE	thalene	napthalene	napthalene	Fluorene	anthene	Pyrene	Lead	EDB	ppm	Comments
		1	40	30	20	50	20	20	20	280	280	210	15	0.02	5000	
TB-1	01/19/01	<500	<500	<500	<1000	<1000	<0.50	**860**	**1300**	<0.10	12	7.2	6	<0.020	190	Dil. X 50
TB-2	01/19/01	<1.0	<1.0	<1.0	<2.0	<2.0	0.65	5.0	6.9	<0.10	0.3	0.27	10	<0.020	<0.20	
TB-3	01/19/01	<500	<500	<500	<1000	<1000	<0.50	**820**	**1200**	<0.10	5.9	6.4	<5.0	<0.020	160	Dil. X 500/50
TB-4	01/19/01	<5.0	<5.0	<5.0	<10	<10	**40**	**190**	**240**	<0.10	3.8	2.2	<5.0	<0.020	9.9	Dil. X 10/5
TB-5	01/19/01	<10	<10	<10	<20	<20	<50	**4800**	**7200**	<10	280	89	<5.0	<0.020	430	Dil. X 100/50/10
PB-1	01/18/01	<5.0	<5.0	<5.0	<10	<10	<0.50	**76**	**31**	<0.10	1.8	1.5	<5.0	<0.020	4.2	Dil. X 10/5
PB-2	01/18/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	**51**	<1.0	<0.10	2.8	2.4	<5.0	<0.020	4.7	
PB-3	01/18/01	<1000	<1000	<1000	<2000	<2000	1.1	**740**	**870**	<0.10	17	16	<5.0	<0.020	94	Dil. X 1000/50/10
PB-4	01/18/01	<500	<500	<500	<1000	<1000	**220**	**580**	**640**	<0.10	2.4	8.3	<5.0	<0.020	66	Dil. X 500/50/10
PB-5	01/18/01	<10	<10	<10	<20	<20	4.0	**130**	17	<0.10	0.29	0.58	<5.0	<0.020	5.7	Dil. X 10
PB-6	01/18/01	<5.0	<5.0	<5.0	<10	<10	5.8	**45**	<1.0	<0.10	<0.10	<0.10	<5.0	<0.020	1.8	Dil. X 5
PB-7	01/18/01	<500	<500	<500	<1000	<1000	**96**	**390**	**530**	<0.10	20	5.8	<5.0	<0.020	130	Dil. X 500/50/20
PB-8	01/18/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<0.10	0.19	0.14	<5.0	<0.020	<0.20	

FIGURES



MAYPORT QUADRANGLE

30081-B5-TF-024

PHOTOREVISED 1982

DMA 4744 IV NW-SERIES V847

7.5 MINUTE SERIES
(TOPOGRAPHIC)

CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

SCALE:
1:24,000

NATIONAL GEODETIC VERTICAL DATUM OF 1929

FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

MAYPORT TANK CLOSURE #202
MAYPORT NAVAL STATION

DRAWN BY: JJR

REFERENCE: MAP OF MAYPORT, FLORIDA
PREPARED BY: U. S. GEOLOGICAL SURVEY

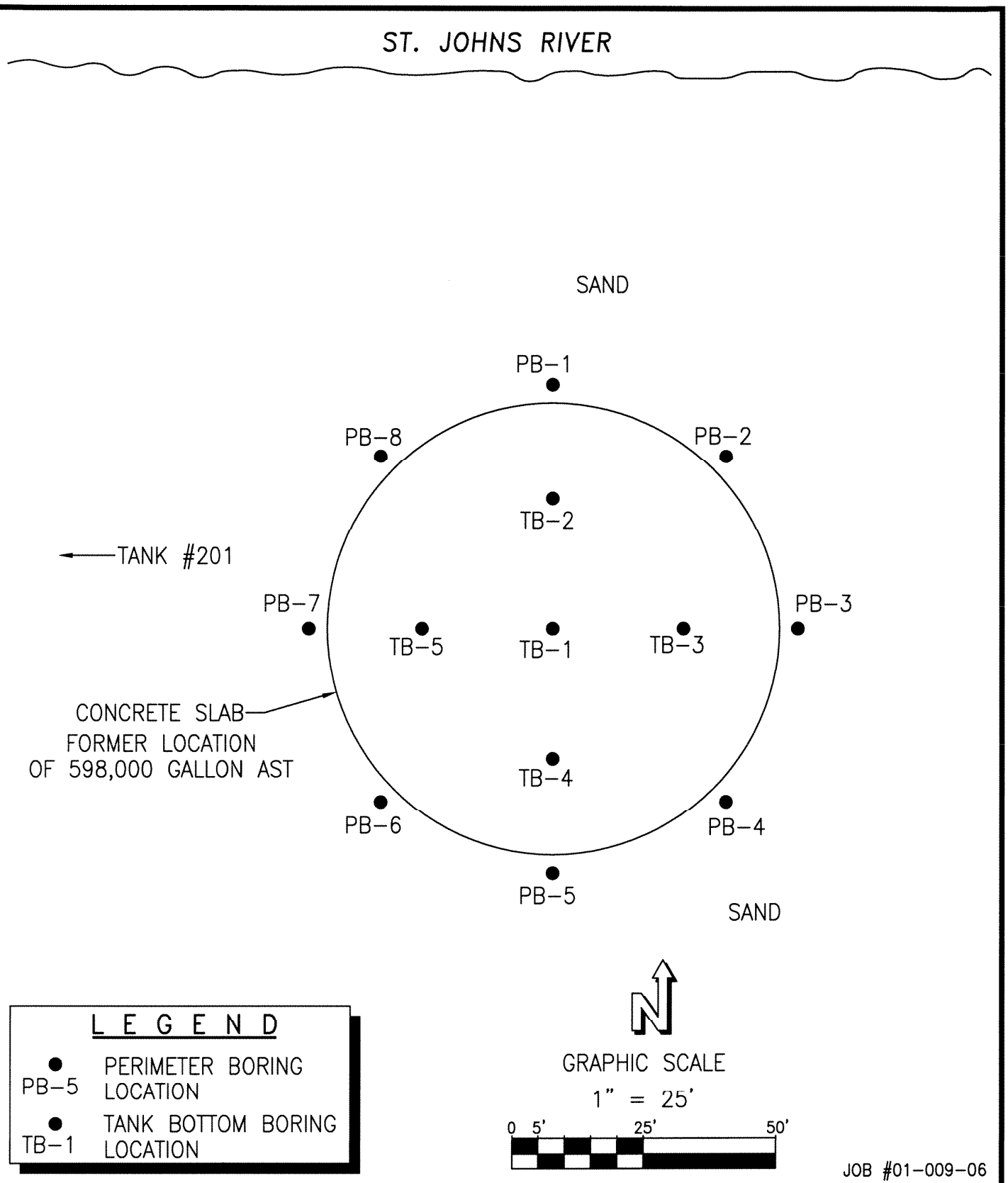


FIGURE 2. SITE PLAN & SAMPLING LOCATIONS

AEROSTAR ENVIRONMENTAL SERVICES, INC.

MAYPORT AST CLOSURE/TANK #202
MAYPORT NAVAL AIR STATION
JACKSONVILLE, FLORIDA

DRAWN BY: KJS

DATE: 02/25/01

APPENDIX A
LIMITED CLOSURE SUMMARY REPORT

Department of Environmental Protection

1 Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report:
Effective Date: July 13, 1998

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date: 02/23/01	FDEP Facility ID Number: 68626008	County: DUVAL
Facility Name MAYPORT NAVAL STATION		Facility Telephone #: ( )
Facility Address:		
Owner or Operator Name:		Owner/Operator phone #: ( )
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

☑ Aboveground	☐ Underground

2. General System Information

Types of Products Stored: JP-5 JET FUEL	Number of Tanks: ONE (1)	Age(s) of Tanks: ~40 yrs.

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

☑ Tank Systems Removal?	☐ Spill Containment Installation?	☐ Change in Storage to a Non-Regulated Substance?
☐ Tank Systems Closed in Place?	☐ Dispenser Liners Installation?	☐ Release Prevention Barrier Installation?
☐ Piping Sump Installation?	☐ Secondary Containment Installation?	☐ Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	☐ Yes	☑ No
1. A Discharge Report Form submitted to the County?	☐ Yes	☐ No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	☐ Yes	☐ No
b. Is the depth to groundwater less than 20 feet?	☑ Yes	☐ No
c. Are there monitoring wells on site? If yes, were they	☐ Yes	☑ No
1. Groundwater monitoring wells?	☐ Yes	☐ No
2. Vapor monitoring wells?	☐ Yes	☐ No
3. Used for closure assessment sampling?	☐ Yes	☐ No
4. Properly closed?	☐ Yes	☐ No
5. Retained for site assessment purposes?	☐ Yes	☐ No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	☐ Yes	☐ No

Signature of owner or operator

Richard D. McCann
Signature of person performing Limited Closure Assessment

Richard D. McCann
Name of person performing Limited Closure Assessment

(date) _____ (date) 2/23/01 Affiliation Aerostar Environmental Services, Inc.

APPENDIX B
STORAGE TANK FACILITY REGISTRATION FORM

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

Storage Tank Facility Registration Form

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date: July 13, 1998
DEP Application No. _____ (Filled in by DEP)

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes
.

Please review *Registration Instructions* before completing the form.

Please check all that apply	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[√] Tank Info Update/Correction

A. FACILITY INFORMATION

County: DUVAL	**DEP Facility ID:**	**168626008**

Facility Name: MAYPORT NAVAL STATION
Facility Address: _____ City: Jacksonville Zip: _____
Facility Contact: _____ Business Phone: (_____)___
Facility Type(s): _____ NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:(_____)___**

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name:	Facility - Responsible Person Relation Type:	Effective Date
Mail address:	**[√] Facility Account Owner (pays fees)**	
City, ST, Zip:	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact:		
Telephone:	**STCM Account Number (if known)**	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
1	T	A	598000gal	1960	F	B	01/01	C		

Certified Contractor (performing tank installation or removal): _____ DBPR License No.: _____

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Printed Name & Title **Signature** **Date**

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803
407-894-7555

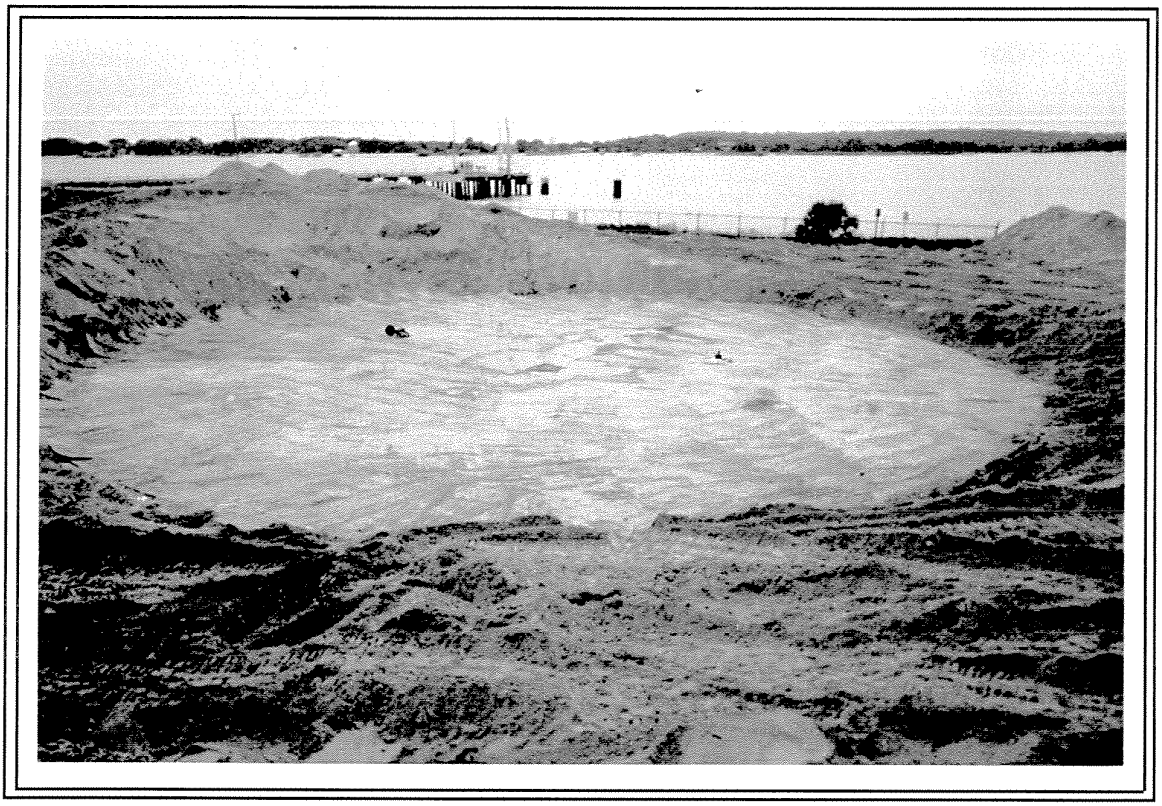
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave., Suite 364
W Palm Beach, FL 33416
561-681-6600

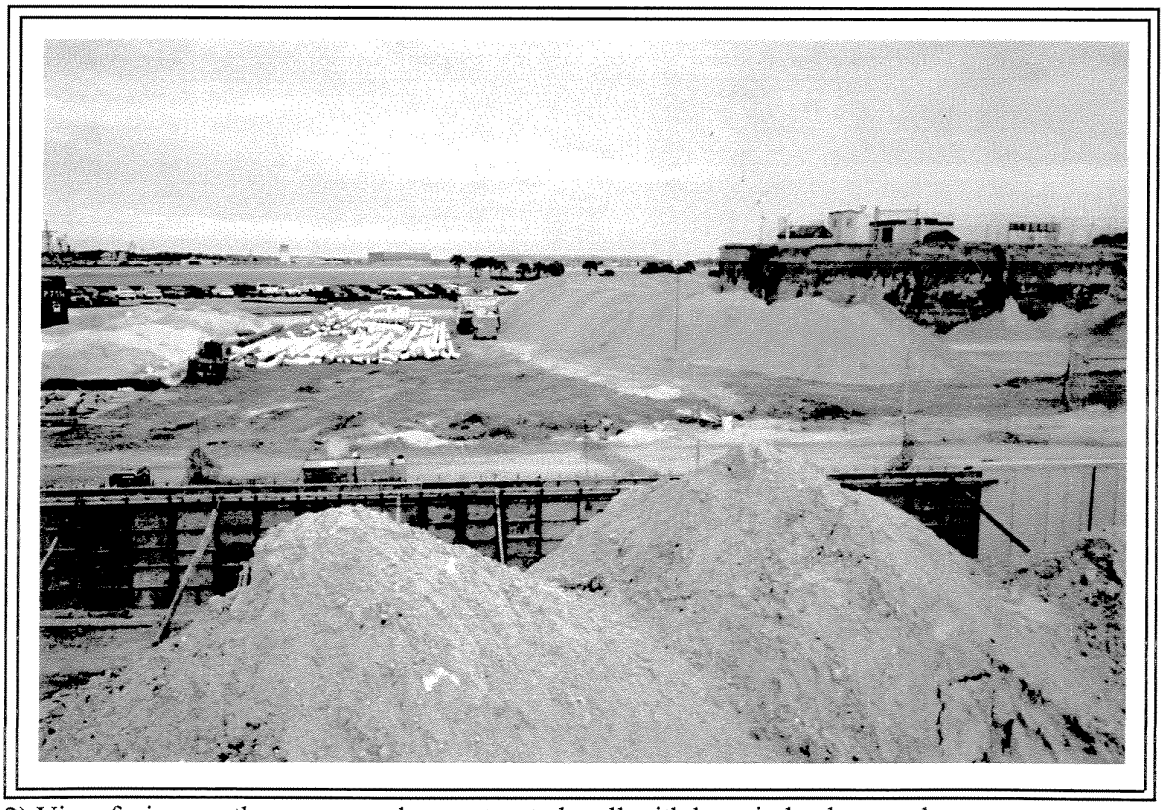
South District
2295 Victoria Ave., Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy., Suite 221
Marathon, FL 33050
305-289-2310

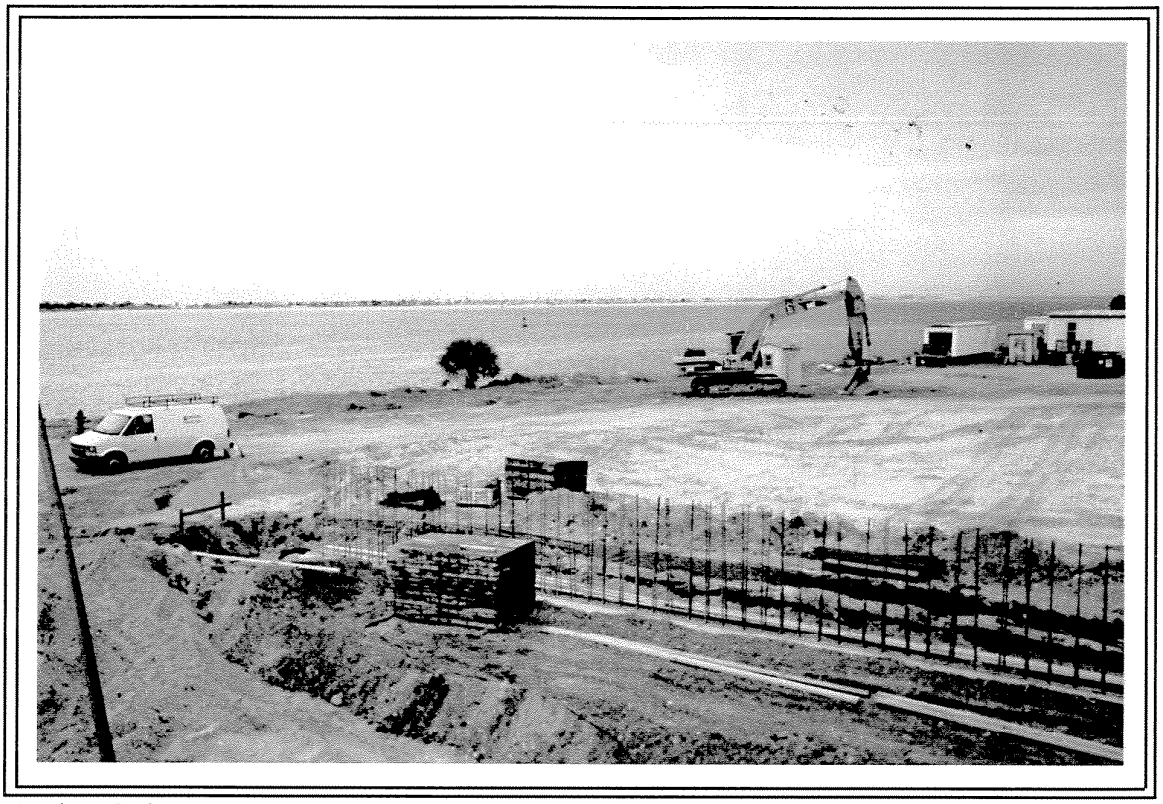
APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



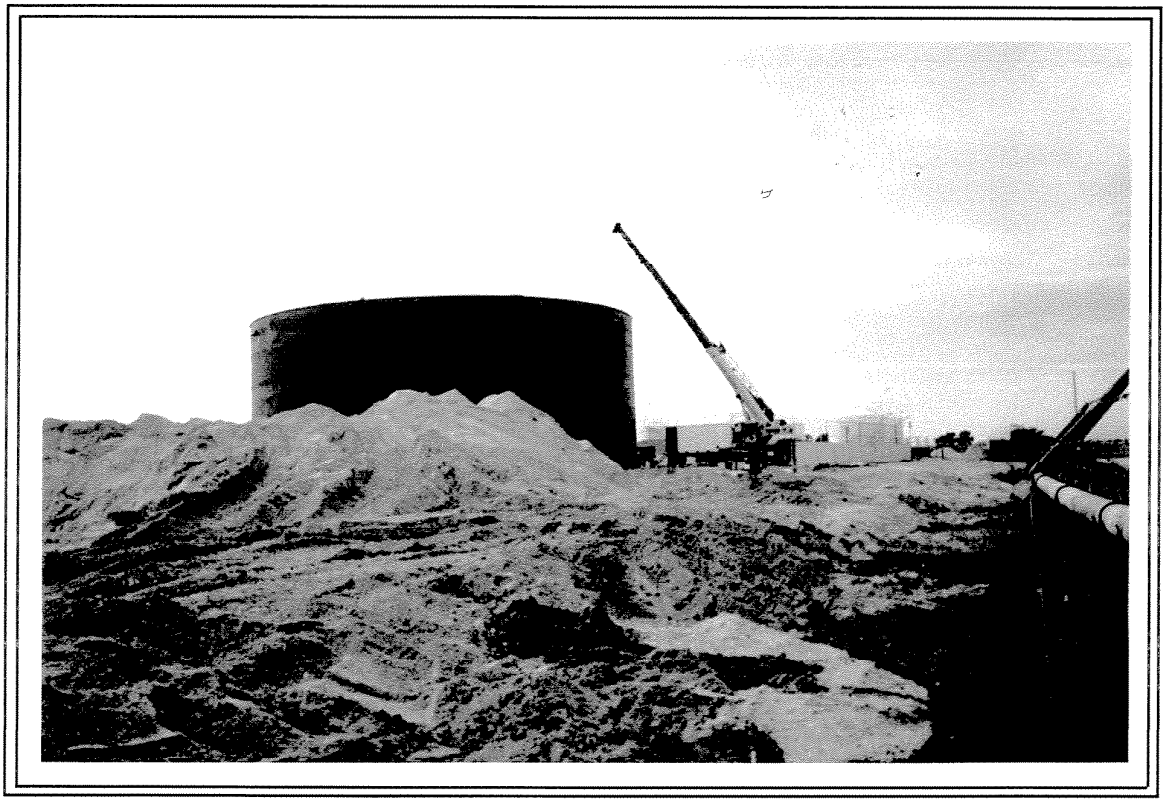
1) View facing north at Tank #202 bottom St. Johns River.



2) View facing south across newly constructed wall with base in background.



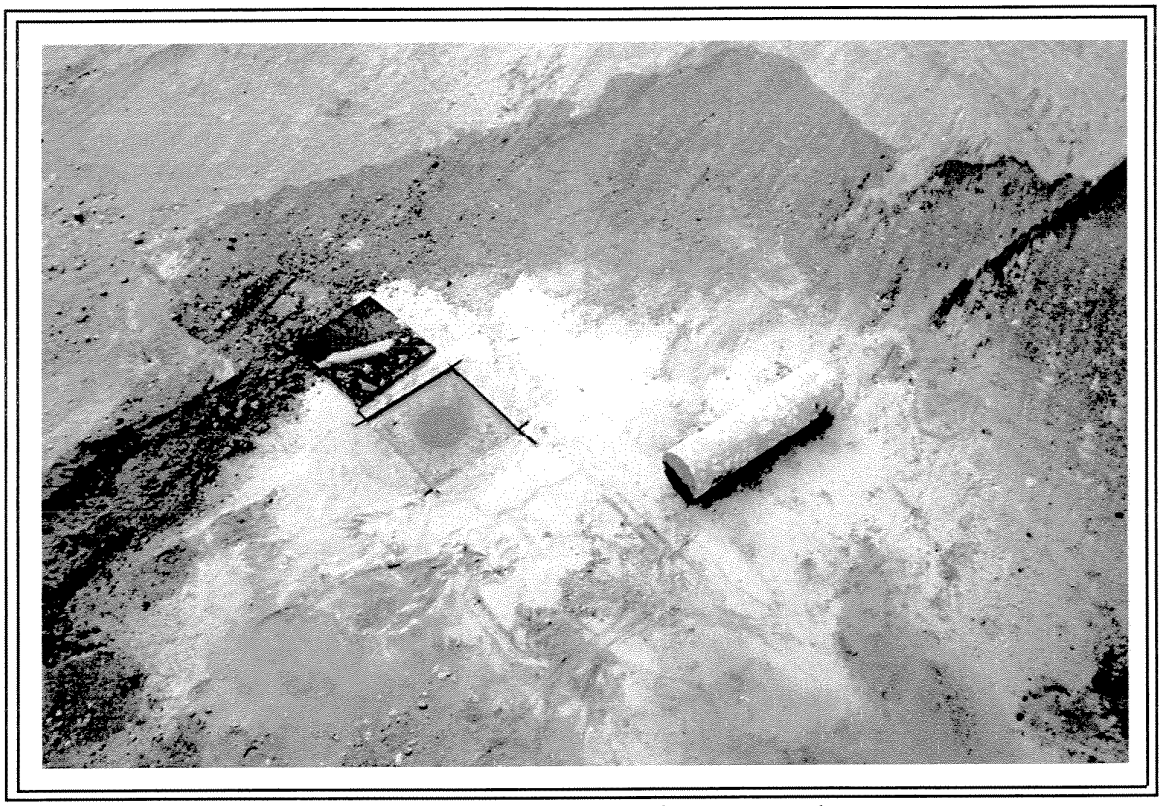
3) View facing east across newly constructed wall with St. Johns River in background.



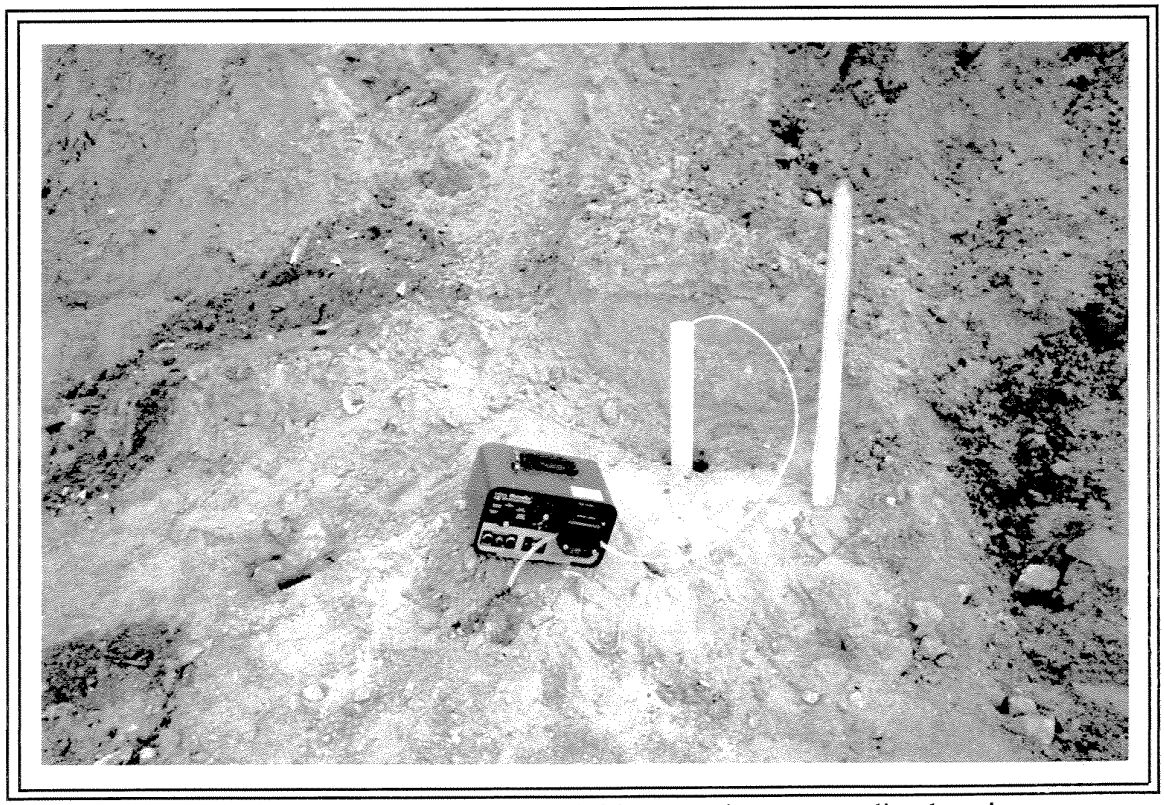
4) View facing west from Tank #202 site at newly constructed tank at location of former Tank #201.

5) View facing north at soil/groundwater sampling locations in tank bottom and northern perimeter.

6) View facing southwest at soil/groundwater sampling locations.



7) View showing thickness of steel tank bottom and of concrete pad.



8) View of low-flow groundwater sampling activities at perimeter sampling location.

APPENDIX D
LABORATORY ANALYTICAL REPORTS

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX15379
DATE SUBMITTED: January 19, 2001
DATE REPORTED : January 31, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

01/18/01

#1 - PB-1 (4'DEPTH) @ 10:25
#2 - PB-2 (5'DEPTH) @ 10:25
#3 - PB-3 (4'DEPTH) @ 10:25
#4 - PB-4 (5'DEPTH) @ 10:25
#5 - PB-5 (5'DEPTH) @ 10:25
#6 - PB-6 (5'DEPTH) @ 10:25
#7 - PB-7 (5'DEPTH) @ 15:10
#8 - PB-8 (4'DEPTH) @ 16:00
#9 - TB-1 (4'DEPTH) @ 08:30
#10 - TB-2 (2'DEPTH) @ 09:10
#11 - TB-3 (5'DEPTH) @ 10:15
#12 - TB-4 (3'DEPTH) @ 11:00
#13 TB-5 (4'DEPTH) @ 11:35

PROJECT MANAGER _____
Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-1 (4' DEPTH)	PB-2 (5'DEPTH)	Units
Methyl tert-butyl ether	1100 U D1	630 U D2	µg/Kg
Benzene	1100 U D1	630 U D2	µg/Kg
Toluene	1100 U D1	630 U D2	µg/Kg
Chlorobenzene	1100 U D1	630 U D2	µg/Kg
Ethylbenzene	1100 U D1	630 U D2	µg/Kg
m-Xylene & p-Xylene	2200 U D1	1300 U D2	µg/Kg
o-Xylene	1100 U D1	630 U D2	µg/Kg
1,3-Dichlorobenzene	1100 U D1	630 U D2	µg/Kg
1,4-Dichlorobenzene	1100 U D1	630 U D2	µg/Kg
1,2-Dichlorobenzene	1100 U D1	630 U D2	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	91	95	70-134
D8-Toluene	98	104	60-144
Bromofluorobenzene	105	116	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1000 dilution.
D2 = Analyte value determined from a 1:500 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-1 (4' DEPTH)			PB-2 (5'DEPTH)			Units
Naphthalene	1800	U	D3	16000		D4	µg/Kg
Acenaphthylene	3500	U	D3	420	U	D4	µg/Kg
1-Methylnaphthalene	42000		D3	39000		D3	µg/Kg
2-Methylnaphthalene	50000		D3	54000		D3	µg/Kg
Acenaphthene	1800	U	D3	210	U	D4	µg/Kg
Fluorene	360	U	D3	42	U	D4	µg/Kg
Phenanthrene	3500	U	D3	420	U	D4	µg/Kg
Anthracene	1800	U	D3	210	U	D4	µg/Kg
Fluoranthene	9400		D3	5100		D4	µg/Kg
Pyrene	7500		D3	4200		D4	µg/Kg
Benzo(a)anthracene	2800		D3	1100		D4	µg/Kg
Chrysene	2600		D3	980		D4	µg/Kg
Benzo(b)fluoranthene	1200		D3	450		D4	µg/Kg
Benzo(k)fluoranthene	810		D3	270		D4	µg/Kg
Benzo(a)pyrene	1400		D3	530		D4	µg/Kg
Dibenzo(a,h)anthracene	430		D3	120		D4	µg/Kg
Benzo(g,h,i)perylene	940		D3	230		D4	µg/Kg
Indeno(1,2,3-cd)pyrene	950		D3	580		D4	µg/Kg
Surrogate:	**% RECOV**			**% RECOV**			**LIMITS**
p-terphenyl	0	U		0	U		39-141
Date Prepared	01/24/01			01/24/01			
Date Analyzed	01/26/01			01/26/01			

MISCELLANEOUS	METHOD	PB-1 (4' DEPTH)	PB-2 (5'DEPTH)	Units
Percent Solids	SM2540G	93	79	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:100 dilution.
D4 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-1 (4' DEPTH)	PB-2 (5'DEPTH)	Units
Hydrocarbons (C8-C40)	14000 D5	8300 D5	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	*	*	51-148
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/24/01	01/24/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-3 (4'DEPTH)	PB-4 (5'DEPTH)	Units
Methyl tert-butyl ether	1100 U D1	1000 U D1	µg/Kg
Benzene	1100 U D1	1000 U D1	µg/Kg
Toluene	1100 U D1	1000 U D1	µg/Kg
Chlorobenzene	1100 U D1	1000 U D1	µg/Kg
Ethylbenzene	1100 U D1	1000 U D1	µg/Kg
m-Xylene & p-Xylene	2200 U D1	2100 U D1	µg/Kg
o-Xylene	1100 U D1	1000 U D1	µg/Kg
1,3-Dichlorobenzene	1100 U D1	1000 U D1	µg/Kg
1,4-Dichlorobenzene	1100 U D1	1000 U D1	µg/Kg
1,2-Dichlorobenzene	1100 U D1	1000 U D1	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	94	70-134
D8-Toluene	100	100	60-144
Bromofluorobenzene	107	108	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1000 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-3 (4'DEPTH)	PB-4 (5'DEPTH)	Units
Naphthalene	1800 U D3	170 U D4	µg/Kg
Acenaphthylene	3500 U D3	350 U D4	µg/Kg
1-Methylnaphthalene	**72000** D3	**41000** D3	µg/Kg
2-Methylnaphthalene	**90000** D3	**37000** D3	µg/Kg
Acenaphthene	1800 U D3	170 U D4	µg/Kg
Fluorene	360 U D3	**430** D4	µg/Kg
Phenanthrene	3500 U D3	350 U D4	µg/Kg
Anthracene	1800 U D3	170 U D4	µg/Kg
Fluoranthene	**2600** D3	**1100** D4	µg/Kg
Pyrene	**2000** D3	**1000** D4	µg/Kg
Benzo(a)anthracene	1800 U D3	170 U D4	µg/Kg
Chrysene	360 U D3	35 U D4	µg/Kg
Benzo(b)fluoranthene	360 U D3	35 U D4	µg/Kg
Benzo(k)fluoranthene	360 U D3	35 U D4	µg/Kg
Benzo(a)pyrene	360 U D3	35 U D4	µg/Kg
Dibenzo(a,h)anthracene	360 U D3	35 U D4	µg/Kg
Benzo(g,h,i)perylene	360 U D3	35 U D4	µg/Kg
Indeno(1,2,3-cd)pyrene	360 U D3	35 U D4	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	0 U	136	39-141
Date Prepared	01/24/01	01/24/01	
Date Analyzed	01/26/01	01/26/01	

MISCELLANEOUS	METHOD	PB-3 (4'DEPTH)	PB-4 (5'DEPTH)	Units
Percent Solids	SM2540G	**93**	**95**	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:100 dilution.
D4 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-3 (4'DEPTH)	PB-4 (5'DEPTH)	Units
Hydrocarbons (C8-C40)	**12000** D5	**11000** D5	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	*	51-148
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/24/01	01/24/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	**PB-5 (5'DEPTH)**	**PB-6 (5'DEPTH)**	**Units**
Methyl tert-butyl ether	530 U D2	1.4 U D6	µg/Kg
Benzene	530 U D2	1.4 U D6	µg/Kg
Toluene	530 U D2	1.4 U D6	µg/Kg
Chlorobenzene	530 U D2	1.4 U D6	µg/Kg
Ethylbenzene	530 U D2	1.4 U D6	µg/Kg
m-Xylene & p-Xylene	1000 U D2	2.8 U D6	µg/Kg
o-Xylene	530 U D2	1.4 U D6	µg/Kg
1,3-Dichlorobenzene	530 U D2	1.4 U D6	µg/Kg
1,4-Dichlorobenzene	530 U D2	1.4 U D6	µg/Kg
1,2-Dichlorobenzene	530 U D2	1.4 U D6	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	93	70-134
D8-Toluene	100	96	60-144
Bromofluorobenzene	99	94	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:500 dilution.
D6 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-5 (5'DEPTH)	PB-6 (5'DEPTH)	Units
Naphthalene	17 U	17 U	µg/Kg
Acenaphthylene	35 U	34 U	µg/Kg
1-Methylnaphthalene	**39**	34 U	µg/Kg
2-Methylnaphthalene	**53**	34 U	µg/Kg
Acenaphthene	17 U	17 U	µg/Kg
Fluorene	**28**	3.4 U	µg/Kg
Phenanthrene	35 U	34 U	µg/Kg
Anthracene	17 U	17 U	µg/Kg
Fluoranthene	**24**	3.4 U	µg/Kg
Pyrene	**32**	3.4 U	µg/Kg
Benzo(a)anthracene	17 U	17 U	µg/Kg
Chrysene	3.5 U	3.4 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	3.4 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	3.4 U	µg/Kg
Benzo(a)pyrene	3.5 U	3.4 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	3.4 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	3.4 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	3.4 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	100	93	39-141
Date Prepared	01/24/01	01/24/01	
Date Analyzed	01/27/01	01/26/01	

MISCELLANEOUS	METHOD	PB-5 (5'DEPTH)	PB-6 (5'DEPTH)	Units
Percent Solids	SM2540G	**95**	**96**	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-5 (5'DEPTH)	PB-6 (5'DEPTH)	Units
Hydrocarbons (C8-C40)	210	6.9 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	98	82	51-148
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/24/01	01/24/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-7 (5'DEPTH)	PB-8 (4'DEPTH)	Units
Methyl tert-butyl ether	1000 U D1	680 U D2	µg/Kg
Benzene	1000 U D1	680 U D2	µg/Kg
Toluene	1000 U D1	680 U D2	µg/Kg
Chlorobenzene	1000 U D1	680 U D2	µg/Kg
Ethylbenzene	1000 U D1	680 U D2	µg/Kg
m-Xylene & p-Xylene	2100 U D1	1400 U D2	µg/Kg
o-Xylene	1000 U D1	680 U D2	µg/Kg
1,3-Dichlorobenzene	1000 U D1	680 U D2	µg/Kg
1,4-Dichlorobenzene	1000 U D1	680 U D2	µg/Kg
1,2-Dichlorobenzene	1000 U D1	680 U D2	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	95	70-134
D8-Toluene	98	99	60-144
Bromofluorobenzene	106	101	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1000 dilution.
D2 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-7 (5'DEPTH)		PB-8 (4'DEPTH)		Units
Naphthalene	20000	D5	230 U	D4	µg/Kg
Acenaphthylene	1700 U	D5	450 U	D4	µg/Kg
1-Methylnaphthalene	54000	D5	450 U	D4	µg/Kg
2-Methylnaphthalene	83000	D5	450 U	D4	µg/Kg
Acenaphthene	870 U	D5	230 U	D4	µg/Kg
Fluorene	170 U	D5	45 U	D4	µg/Kg
Phenanthrene	1700 U	D5	450 U	D4	µg/Kg
Anthracene	870 U	D5	230 U	D4	µg/Kg
Fluoranthene	15000	D5	150	D4	µg/Kg
Pyrene	12000	D5	160	D4	µg/Kg
Benzo(a)anthracene	4600	D5	230 U	D4	µg/Kg
Chrysene	4100	D5	45 U	D4	µg/Kg
Benzo(b)fluoranthene	1600	D5	45 U	D4	µg/Kg
Benzo(k)fluoranthene	1000	D5	45 U	D4	µg/Kg
Benzo(a)pyrene	1900	D5	45 U	D4	µg/Kg
Dibenzo(a,h)anthracene	530	D5	45 U	D4	µg/Kg
Benzo(g,h,i)perylene	1000	D5	45 U	D4	µg/Kg
Indeno(1,2,3-cd)pyrene	1100	D5	45 U	D4	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
p-terphenyl	0 U		85		39-141
Date Prepared	01/24/01		01/24/01		
Date Analyzed	01/26/01		01/26/01		

MISCELLANEOUS	METHOD	PB-7 (5'DEPTH)	PB-8 (4'DEPTH)	Units
Percent Solids	SM2540G	95	73	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:10 dilution.
D5 = Analyte value determined from a 1:50 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-7 (5'DEPTH)		PB-8 (4'DEPTH)		Units
Hydrocarbons (C8-C40)	13000	D3	1000	D7	mg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
o Terphenyl	*		*		51-148
Date Prepared	01/23/01		01/23/01		
Date Analyzed	01/24/01		01/24/01		

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:100 dilution.
D7 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TB-1 (4'DEPTH)	TB-2 (2'DEPTH)	Units
Methyl tert-butyl ether	560 U D2	1.3 U D8	µg/Kg
Benzene	560 U D2	1.3 U D8	µg/Kg
Toluene	560 U D2	1.3 U D8	µg/Kg
Chlorobenzene	560 U D2	1.3 U D8	µg/Kg
Ethylbenzene	560 U D2	1.3 U D8	µg/Kg
m-Xylene & p-Xylene	1100 U D2	2.7 U D8	µg/Kg
o-Xylene	560 U D2	1.3 U D8	µg/Kg
1,3-Dichlorobenzene	560 U D2	1.3 U D8	µg/Kg
1,4-Dichlorobenzene	560 U D2	1.3 U D8	µg/Kg
1,2-Dichlorobenzene	560 U D2	1.3 U D8	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	95	67	70-134
D8-Toluene	98	97	60-144
Bromofluorobenzene	108	100	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:500 dilution.
D8 = Analyte value determined from a 1:1.18 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB-1 (4'DEPTH)	TB-2 (2'DEPTH)	Units
Naphthalene	180 U D4	18 U	µg/Kg
Acenaphthylene	370 U D4	37 U	µg/Kg
1-Methylnaphthalene	**5600** D4	**47**	µg/Kg
2-Methylnaphthalene	**8600** D4	**50**	µg/Kg
Acenaphthene	180 U D4	18 U	µg/Kg
Fluorene	37 U D4	3.7 U	µg/Kg
Phenanthrene	370 U D4	37 U	µg/Kg
Anthracene	180 U D4	18 U	µg/Kg
Fluoranthene	37 U D4	**14**	µg/Kg
Pyrene	37 U D4	**12**	µg/Kg
Benzo(a)anthracene	180 U D4	18 U	µg/Kg
Chrysene	37 U D4	3.7 U	µg/Kg
Benzo(b)fluoranthene	37 U D4	3.7 U	µg/Kg
Benzo(k)fluoranthene	37 U D4	3.7 U	µg/Kg
Benzo(a)pyrene	37 U D4	3.7 U	µg/Kg
Dibenzo(a,h)anthracene	37 U D4	3.7 U	µg/Kg
Benzo(g,h,i)perylene	37 U D4	3.7 U	µg/Kg
Indeno(1,2,3-cd)pyrene	37 U D4	3.7 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	80	85	39-141
Date Prepared	01/24/01	01/24/01	
Date Analyzed	01/26/01	01/27/01	

MISCELLANEOUS	METHOD	TB-1 (4'DEPTH)	TB-2 (2'DEPTH)	Units
Percent Solids	SM2540G	**90**	**89**	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-1 (4'DEPTH)	TB-2 (2'DEPTH)	Units
Hydrocarbons (C8-C40)	1400 D7	12	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	98	51-148
Date Prepared	01/25/01	01/25/01	
Date Analyzed	01/29/01	01/29/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D7 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TB-3 (5'DEPTH)	TB-4 (3'DEPTH)	Units
Methyl tert-butyl ether	5700 U D9	1.3 U D8	µg/Kg
Benzene	5700 U D9	1.3 U D8	µg/Kg
Toluene	5700 U D9	1.3 U D8	µg/Kg
Chlorobenzene	5700 U D9	1.3 U D8	µg/Kg
Ethylbenzene	5700 U D9	1.3 U D8	µg/Kg
m-Xylene & p-Xylene	11000 U D9	2.6 U D8	µg/Kg
o-Xylene	5700 U D9	1.3 U D8	µg/Kg
1,3-Dichlorobenzene	5700 U D9	1.3 U D8	µg/Kg
1,4-Dichlorobenzene	5700 U D9	1.3 U D8	µg/Kg
1,2-Dichlorobenzene	5700 U D9	1.3 U D8	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	84	82	70-134
D8-Toluene	94	97	60-144
Bromofluorobenzene	106	99	71-127
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D8 = Analyte value determined from a 1:1.18 dilution.
D9 = Analyte value determined from a 1:5000 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB-3 (5'DEPTH)	TB-4 (3'DEPTH)	Units
Naphthalene	1900 U D3	18 U	µg/Kg
Acenaphthylene	3800 U D3	35 U	µg/Kg
1-Methylnaphthalene	**88000** D3	**45**	µg/Kg
2-Methylnaphthalene	**130000** D3	**49**	µg/Kg
Acenaphthene	1900 U D3	18 U	µg/Kg
Fluorene	380 U D3	**10**	µg/Kg
Phenanthrene	3800 U D3	**98**	µg/Kg
Anthracene	1900 U D3	18 U	µg/Kg
Fluoranthene	**5500** D3	**71**	µg/Kg
Pyrene	**1400** D3	**70**	µg/Kg
Benzo(a)anthracene	1900 U D3	**21**	µg/Kg
Chrysene	380 U D3	**17**	µg/Kg
Benzo(b)fluoranthene	380 U D3	**8.0**	µg/Kg
Benzo(k)fluoranthene	380 U D3	3.5 U	µg/Kg
Benzo(a)pyrene	380 U D3	3.5 U	µg/Kg
Dibenzo(a,h)anthracene	380 U D3	3.5 U	µg/Kg
Benzo(g,h,i)perylene	380 U D3	3.5 U	µg/Kg
Indeno(1,2,3-cd)pyrene	380 U D3	3.5 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	0 U	95	39-141
Date Prepared	01/24/01	01/24/01	
Date Analyzed	01/26/01	01/27/01	

MISCELLANEOUS	METHOD	TB-3 (5'DEPTH)	TB-4 (3'DEPTH)	Units
Percent Solids	SM2540G	**88**	**94**	%
Date Analyzed		01/22/01	01/22/01	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:100 dilution.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-3 (5'DEPTH)	TB-4 (3'DEPTH)	Units
Hydrocarbons (C8-C40)	22000 D5	8.3	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o Terphenyl	*	128	51-148
Date Prepared	01/25/01	01/25/01	
Date Analyzed	01/29/01	01/29/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TB-5 (4'DEPTH)	LAB BLANK	Units
Methyl tert-butyl ether	520 U D2	100 U D3	µg/Kg
Benzene	520 U D2	100 U D3	µg/Kg
Toluene	520 U D2	100 U D3	µg/Kg
Chlorobenzene	520 U D2	100 U D3	µg/Kg
Ethylbenzene	520 U D2	100 U D3	µg/Kg
m-Xylene & p-Xylene	1000 U D2	200 U D3	µg/Kg
o-Xylene	520 U D2	100 U D3	µg/Kg
1,3-Dichlorobenzene	520 U D2	100 U D3	µg/Kg
1,4-Dichlorobenzene	520 U D2	100 U D3	µg/Kg
1,2-Dichlorobenzene	520 U D2	100 U D3	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	95	70-134
D8-Toluene	96	98	60-144
Bromofluorobenzene	110	99	71-127
Date Analyzed	01/25/01	01/24/01	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:500 dilution.
D3 = Analyte value determined from a 1:100 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB-5 (4'DEPTH)		LAB BLANK	Units
Naphthalene	170 U	D4	16 U	µg/Kg
Acenaphthylene	340 U	D4	33 U	µg/Kg
1-Methylnaphthalene	**19000**	D4	33 U	µg/Kg
2-Methylnaphthalene	**28000**	D3	33 U	µg/Kg
Acenaphthene	170 U	D4	16 U	µg/Kg
Fluorene	34 U	D4	3.3 U	µg/Kg
Phenanthrene	340 U	D4	33 U	µg/Kg
Anthracene	170 U	D4	16 U	µg/Kg
Fluoranthene	**210**	D4	3.3 U	µg/Kg
Pyrene	**380**	D4	3.3 U	µg/Kg
Benzo(a)anthracene	170 U	D4	16 U	µg/Kg
Chrysene	34 U	D4	3.3 U	µg/Kg
Benzo(b)fluoranthene	34 U	D4	3.3 U	µg/Kg
Benzo(k)fluoranthene	34 U	D4	3.3 U	µg/Kg
Benzo(a)pyrene	34 U	D4	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	34 U	D4	3.3 U	µg/Kg
Benzo(g,h,i)perylene	34 U	D4	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	34 U	D4	3.3 U	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	116		93	39-141
Date Prepared	01/24/01		01/24/01	
Date Analyzed	01/26/01		01/25/01	

MISCELLANEOUS	METHOD	TB-5 (4'DEPTH)	LAB BLANK	Units
Percent Solids	SM2540G	**97**	NA	%
Date Analyzed		01/22/01		

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:100 dilution.
D4 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-5 (4'DEPTH)	LAB BLANK	Units
Hydrocarbons (C8-C40)	4400 D5	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	94	51-148
Date Prepared	01/25/01	01/23/01	
Date Analyzed	01/29/01	01/23/01	

* = Surrogate recovery unavailabe due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	1.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	97	70-134
D8-Toluene	97	60-144
Bromofluorobenzene	100	71-127
Date Analyzed	01/25/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	82	51-148
Nonatriacontane	84	36-152
Date Prepared	01/25/01	
Date Analyzed	01/29/01	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	89/ 92/ 92	44-169	3	19
Benzene	105/102/104	50-140	3	23
Trichloroethene	102/103/101	75-125	<1	17
Toluene	98/ 99/100	56-139	1	22
Chlorobenzene	100/ 99/100	73-123	1	24
EPA Method 8260				
1,1-Dichloroethene	88/ 88/ 91	44-169	<1	19
Benzene	106/106/109	50-140	<1	23
Trichloroethene	96/ 97/101	75-125	1	17
Toluene	97/101/103	56-139	4	22
Chlorobenzene	98/103/102	73-123	5	24
EPA Method 8310				
Naphthalene	78/ 73/ 75	48-130	7	20
Acenaphthene	70/ 67/ 83	36-127	4	17
Benzo(a)pyrene	67/ 67/ 68	64-141	<1	22
Benzo(g,h,i)perylene	94/ 97/ 98	58-168	3	21
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	73/ 86/ 80	62-204	16	25
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	86/ 81/ 75	62-204	6	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX15380
DATE SUBMITTED: January 19, 2001
DATE REPORTED : January 31, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: ~~2624~~ 2828

MAYPORT AST CLOSURE

#1 - PB-1 @ 09:30 (01/18/01)
#2 - PB-2 @ 10:15 (01/18/01)
#3 - PB-3 @ 11:15 (01/18/01)
#4 - PB-4 @ 12:00 (01/18/01)
#5 - PB-5 @ 13:12 (01/18/01)
#6 - PB-6 @ 14:00 (01/18/01)
#7 - PB-7 @ 15:20 (01/18/01)
#8 - PB-8 @ 16:10 (01/18/01)
#9 - PB-9 @ 17:00 (01/18/01)
#10 - TB-1 @ 08:20 (01/19/01)
#11 - TB-2 @ 08:50 (01/19/01)
#12 - TB-3 @ 09:15 (01/19/01)
#13 - TB-4 @ 09:50 (01/19/01)
#14 - TB-5 @ 10:15 (01/19/01)

PROJECT MANAGER _____
Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-1		PB-2	Units
Dichlorodifluoromethane	5.0 U	D1	1.0 U	µg/L
Chloromethane	5.0 U	D1	1.0 U	µg/L
Vinyl Chloride	5.0 U	D1	1.0 U	µg/L
Bromomethane	5.0 U	D1	1.0 U	µg/L
Chloroethane	5.0 U	D1	1.0 U	µg/L
Trichlorofluoromethane	10 U	D1	2.0 U	µg/L
1,1-Dichloroethene	5.0 U	D1	1.0 U	µg/L
Methylene Chloride	25 U	D1	5.0 U	µg/L
t-1,2-Dichloroethene	5.0 U	D1	1.0 U	µg/L
1,1-Dichloroethane	5.0 U	D1	1.0 U	µg/L
c-1,2-Dichloroethene	5.0 U	D1	1.0 U	µg/L
Chloroform	5.0 U	D1	1.0 U	µg/L
1,1,1-Trichloroethane	5.0 U	D1	1.0 U	µg/L
Carbon Tetrachloride	5.0 U	D1	1.0 U	µg/L
1,2-Dichloroethane	5.0 U	D1	1.0 U	µg/L
Trichloroethene	5.0 U	D1	1.0 U	µg/L
1,2-Dichloropropane	5.0 U	D1	1.0 U	µg/L
Bromodichloromethane	5.0 U	D1	1.0 U	µg/L
c-1,3-Dichloropropene	5.0 U	D1	1.0 U	µg/L
t-1,3-Dichloropropene	5.0 U	D1	1.0 U	µg/L
1,1,2-Trichloroethane	5.0 U	D1	1.0 U	µg/L
Tetrachloroethene	5.0 U	D1	1.0 U	µg/L
Dibromochloromethane	5.0 U	D1	1.0 U	µg/L
Chlorobenzene	5.0 U	D1	1.0 U	µg/L
Bromoform	5.0 U	D1	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	5.0 U	D1	1.0 U	µg/L
1,3-Dichlorobenzene	5.0 U	D1	1.0 U	µg/L
1,4-Dichlorobenzene	5.0 U	D1	1.0 U	µg/L
1,2-Dichlorobenzene	5.0 U	D1	1.0 U	µg/L
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
Bromofluorobenzene	95		109	37-161
Date Analyzed	01/30/01		01/27/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB-1	PB-2	Units
Methyl tert-butyl ether	10 U D1	2.0 U	µg/L
Benzene	5.0 U D1	1.0 U	µg/L
Toluene	5.0 U D1	1.0 U	µg/L
Chlorobenzene	5.0 U D1	1.0 U	µg/L
Ethylbenzene	5.0 U D1	1.0 U	µg/L
m-Xylene & p-Xylene	5.0 U D1	1.0 U	µg/L
o-Xylene	5.0 U D1	1.0 U	µg/L
1,3-Dichlorobenzene	5.0 U D1	1.0 U	µg/L
1,4-Dichlorobenzene	5.0 U D1	1.0 U	µg/L
1,2-Dichlorobenzene	5.0 U D1	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	109	110	52-147
Date Analyzed	01/30/01	01/27/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-1		PB-2	Units
Naphthalene	0.50 U		0.50 U	µg/L
Acenaphthylene	1.0 U		1.0 U	µg/L
1-Methylnaphthalene	**76**	D2	**51**	µg/L
2-Methylnaphthalene	**31**		1.0 U	µg/L
Acenaphthene	0.50 U		0.50 U	µg/L
Fluorene	0.10 U		0.10 U	µg/L
Phenanthrene	1.0 U		1.0 U	µg/L
Anthracene	0.20 U		0.20 U	µg/L
Fluoranthene	**1.8**		**2.8**	µg/L
Pyrene	**1.5**		**2.4**	µg/L
Benzo(a)anthracene	**0.30**		**0.40**	µg/L
Chrysene	**0.42**		**0.49**	µg/L
Benzo(b)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(a)pyrene	0.10 U		0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U		0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U		0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		0.10 U	µg/L
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	83		101	43-148
Date Prepared	01/22/01		01/22/01	
Date Analyzed	01/23/01		01/24/01	

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-1	PB-2	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-1	PB-2	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-1	PB-2	Units
Hydrocarbons (C8-C40)	4.2	4.7	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	104	118	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-3		PB-4		Units
Dichlorodifluoromethane	1000 U	D3	500 U	D4	µg/L
Chloromethane	1000 U	D3	500 U	D4	µg/L
Vinyl Chloride	1000 U	D3	500 U	D4	µg/L
Bromomethane	1000 U	D3	500 U	D4	µg/L
Chloroethane	1000 U	D3	500 U	D4	µg/L
Trichlorofluoromethane	2000 U	D3	1000 U	D4	µg/L
1,1-Dichloroethene	1000 U	D3	500 U	D4	µg/L
Methylene Chloride	5000 U	D3	2500 U	D4	µg/L
t-1,2-Dichloroethene	1000 U	D3	500 U	D4	µg/L
1,1-Dichloroethane	1000 U	D3	500 U	D4	µg/L
c-1,2-Dichloroethene	1000 U	D3	500 U	D4	µg/L
Chloroform	1000 U	D3	500 U	D4	µg/L
1,1,1-Trichloroethane	1000 U	D3	500 U	D4	µg/L
Carbon Tetrachloride	1000 U	D3	500 U	D4	µg/L
1,2-Dichloroethane	1000 U	D3	500 U	D4	µg/L
Trichloroethene	1000 U	D3	500 U	D4	µg/L
1,2-Dichloropropane	1000 U	D3	500 U	D4	µg/L
Bromodichloromethane	1000 U	D3	500 U	D4	µg/L
c-1,3-Dichloropropene	1000 U	D3	500 U	D4	µg/L
t-1,3-Dichloropropene	1000 U	D3	500 U	D4	µg/L
1,1,2-Trichloroethane	1000 U	D3	500 U	D4	µg/L
Tetrachloroethene	1000 U	D3	500 U	D4	µg/L
Dibromochloromethane	1000 U	D3	500 U	D4	µg/L
Chlorobenzene	1000 U	D3	500 U	D4	µg/L
Bromoform	1000 U	D3	500 U	D4	µg/L
1,1,2,2-Tetrachloroethane	1000 U	D3	500 U	D4	µg/L
1,3-Dichlorobenzene	1000 U	D3	500 U	D4	µg/L
1,4-Dichlorobenzene	1000 U	D3	500 U	D4	µg/L
1,2-Dichlorobenzene	1000 U	D3	500 U	D4	µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Bromofluorobenzene	105		98		37-161
Date Analyzed	01/24/01		01/24/01		

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:1000 dilution.
D4 = Analyte value determined from a 1:500 dilution.

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB-3**	**PB-4**	**Units**
Methyl tert-butyl ether	2000 U D3	1000 U D4	µg/L
Benzene	1000 U D3	500 U D4	µg/L
Toluene	1000 U D3	500 U D4	µg/L
Chlorobenzene	1000 U D3	500 U D4	µg/L
Ethylbenzene	1000 U D3	500 U D4	µg/L
m-Xylene & p-Xylene	1000 U D3	500 U D4	µg/L
o-Xylene	1000 U D3	500 U D4	µg/L
1,3-Dichlorobenzene	1000 U D3	500 U D4	µg/L
1,4-Dichlorobenzene	1000 U D3	500 U D4	µg/L
1,2-Dichlorobenzene	1000 U D3	500 U D4	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	110	106	52-147
Date Analyzed	01/24/01	01/24/01	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:1000 dilution.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-3		PB-4		Units
Naphthalene	**1.1**		**220**	D5	µg/L
Acenaphthylene	1.0 U		1.0 U		µg/L
1-Methylnaphthalene	**740**	D5	**580**	D5	µg/L
2-Methylnaphthalene	**870**	D5	**640**	D5	µg/L
Acenaphthene	0.50 U		0.50 U		µg/L
Fluorene	0.10 U		0.10 U		µg/L
Phenanthrene	1.0 U		1.0 U		µg/L
Anthracene	0.20 U		0.20 U		µg/L
Fluoranthene	**17**		**2.4**		µg/L
Pyrene	**16**		**8.3**		µg/L
Benzo(a)anthracene	**3.4**		0.10 U		µg/L
Chrysene	**2.5**		0.10 U		µg/L
Benzo(b)fluoranthene	**0.98**		0.10 U		µg/L
Benzo(k)fluoranthene	**0.67**		0.10 U		µg/L
Benzo(a)pyrene	0.10 U		0.10 U		µg/L
Dibenzo(a,h)anthracene	0.10 U		0.10 U		µg/L
Benzo(g,h,i)perylene	**0.47**		0.10 U		µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		0.10 U		µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
p-terphenyl	135		106		43-148
Date Prepared	01/22/01		01/22/01		
Date Analyzed	01/24/01		01/24/01		

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-3	PB-4	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-3	PB-4	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-3	PB-4	Units
Hydrocarbons (C8-C40)	**94** D2	**66** D2	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	*	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/25/01	01/26/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-5		PB-6		Units
Dichlorodifluoromethane	10 U	D2	5.0 U	D1	µg/L
Chloromethane	10 U	D2	5.0 U	D1	µg/L
Vinyl Chloride	10 U	D2	5.0 U	D1	µg/L
Bromomethane	10 U	D2	5.0 U	D1	µg/L
Chloroethane	10 U	D2	5.0 U	D1	µg/L
Trichlorofluoromethane	20 U	D2	10 U	D1	µg/L
1,1-Dichloroethene	10 U	D2	5.0 U	D1	µg/L
Methylene Chloride	50 U	D2	25 U	D1	µg/L
t-1,2-Dichloroethene	10 U	D2	5.0 U	D1	µg/L
1,1-Dichloroethane	10 U	D2	5.0 U	D1	µg/L
c-1,2-Dichloroethene	10 U	D2	5.0 U	D1	µg/L
Chloroform	10 U	D2	5.0 U	D1	µg/L
1,1,1-Trichloroethane	10 U	D2	5.0 U	D1	µg/L
Carbon Tetrachloride	10 U	D2	5.0 U	D1	µg/L
1,2-Dichloroethane	10 U	D2	5.0 U	D1	µg/L
Trichloroethene	10 U	D2	5.0 U	D1	µg/L
1,2-Dichloropropane	10 U	D2	5.0 U	D1	µg/L
Bromodichloromethane	10 U	D2	5.0 U	D1	µg/L
c-1,3-Dichloropropene	10 U	D2	5.0 U	D1	µg/L
t-1,3-Dichloropropene	10 U	D2	5.0 U	D1	µg/L
1,1,2-Trichloroethane	10 U	D2	5.0 U	D1	µg/L
Tetrachloroethene	10 U	D2	5.0 U	D1	µg/L
Dibromochloromethane	10 U	D2	5.0 U	D1	µg/L
Chlorobenzene	10 U	D2	5.0 U	D1	µg/L
Bromoform	10 U	D2	5.0 U	D1	µg/L
1,1,2,2-Tetrachloroethane	10 U	D2	5.0 U	D1	µg/L
1,3-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L
1,4-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L
1,2-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L

Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	79	80	37-161
Date Analyzed	01/27/01	01/27/01	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB-5		PB-6		Units
Methyl tert-butyl ether	20 U	D2	10 U	D1	µg/L
Benzene	10 U	D2	5.0 U	D1	µg/L
Toluene	10 U	D2	5.0 U	D1	µg/L
Chlorobenzene	10 U	D2	5.0 U	D1	µg/L
Ethylbenzene	10 U	D2	5.0 U	D1	µg/L
m-Xylene & p-Xylene	10 U	D2	5.0 U	D1	µg/L
o-Xylene	10 U	D2	5.0 U	D1	µg/L
1,3-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L
1,4-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L
1,2-Dichlorobenzene	10 U	D2	5.0 U	D1	µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Bromofluorobenzene	116		115		52-147
Date Analyzed	01/27/01		01/27/01		

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-5		PB-6	Units
Naphthalene	**4.0**		**5.8**	µg/L
Acenaphthylene	1.0 U		1.0 U	µg/L
1-Methylnaphthalene	**130**	D2	**45**	µg/L
2-Methylnaphthalene	**17**		1.0 U	µg/L
Acenaphthene	0.50 U		0.50 U	µg/L
Fluorene	0.10 U		0.10 U	µg/L
Phenanthrene	1.0 U		1.0 U	µg/L
Anthracene	0.20 U		0.20 U	µg/L
Fluoranthene	**0.29**		0.10 U	µg/L
Pyrene	**0.58**		0.10 U	µg/L
Benzo(a)anthracene	0.10 U		0.10 U	µg/L
Chrysene	0.10 U		0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(a)pyrene	0.10 U		0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U		0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U		0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		0.10 U	µg/L
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	99		91	43-148
Date Prepared	01/22/01		01/22/01	
Date Analyzed	01/24/01		01/24/01	

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-5	PB-6	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-5	PB-6	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-5	PB-6	Units
Hydrocarbons (C8-C40)	5.7	1.8	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	48	106	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-7	PB-8	Units
Dichlorodifluoromethane	500 U D4	1.0 U	µg/L
Chloromethane	500 U D4	1.0 U	µg/L
Vinyl Chloride	500 U D4	1.0 U	µg/L
Bromomethane	500 U D4	1.0 U	µg/L
Chloroethane	500 U D4	1.0 U	µg/L
Trichlorofluoromethane	1000 U D4	2.0 U	µg/L
1,1-Dichloroethene	500 U D4	1.0 U	µg/L
Methylene Chloride	2500 U D4	5.0 U	µg/L
t-1,2-Dichloroethene	500 U D4	1.0 U	µg/L
1,1-Dichloroethane	500 U D4	1.0 U	µg/L
c-1,2-Dichloroethene	500 U D4	1.0 U	µg/L
Chloroform	500 U D4	1.0 U	µg/L
1,1,1-Trichloroethane	500 U D4	1.0 U	µg/L
Carbon Tetrachloride	500 U D4	1.0 U	µg/L
1,2-Dichloroethane	500 U D4	1.0 U	µg/L
Trichloroethene	500 U D4	1.0 U	µg/L
1,2-Dichloropropane	500 U D4	1.0 U	µg/L
Bromodichloromethane	500 U D4	1.0 U	µg/L
c-1,3-Dichloropropene	500 U D4	1.0 U	µg/L
t-1,3-Dichloropropene	500 U D4	1.0 U	µg/L
1,1,2-Trichloroethane	500 U D4	1.0 U	µg/L
Tetrachloroethene	500 U D4	1.0 U	µg/L
Dibromochloromethane	500 U D4	1.0 U	µg/L
Chlorobenzene	500 U D4	1.0 U	µg/L
Bromoform	500 U D4	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	500 U D4	1.0 U	µg/L
1,3-Dichlorobenzene	500 U D4	1.0 U	µg/L
1,4-Dichlorobenzene	500 U D4	1.0 U	µg/L
1,2-Dichlorobenzene	500 U D4	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	106	107	37-161
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB-7	PB-8	Units
Methyl tert-butyl ether	1000 U D4	2.0 U	µg/L
Benzene	500 U D4	1.0 U	µg/L
Toluene	500 U D4	1.0 U	µg/L
Chlorobenzene	500 U D4	1.0 U	µg/L
Ethylbenzene	500 U D4	1.0 U	µg/L
m-Xylene & p-Xylene	500 U D4	1.0 U	µg/L
o-Xylene	500 U D4	1.0 U	µg/L
1,3-Dichlorobenzene	500 U D4	1.0 U	µg/L
1,4-Dichlorobenzene	500 U D4	1.0 U	µg/L
1,2-Dichlorobenzene	500 U D4	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	111	111	52-147
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-7		PB-8	Units
Naphthalene	**96**	D6	0.50 U	µg/L
Acenaphthylene	1.0 U		1.0 U	µg/L
1-Methylnaphthalene	**390**	D6	1.0 U	µg/L
2-Methylnaphthalene	**530**	D6	1.0 U	µg/L
Acenaphthene	0.50 U		0.50 U	µg/L
Fluorene	0.10 U		0.10 U	µg/L
Phenanthrene	1.0 U		1.0 U	µg/L
Anthracene	0.20 U		0.20 U	µg/L
Fluoranthene	**20**		**0.19**	µg/L
Pyrene	**5.8**		**0.14**	µg/L
Benzo(a)anthracene	**0.62**		0.10 U	µg/L
Chrysene	**0.55**		0.10 U	µg/L
Benzo(b)fluoranthene	**0.26**		0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U		0.10 U	µg/L
Benzo(a)pyrene	0.10 U		0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U		0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U		0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		0.10 U	µg/L
Surrogate:	**% RECOV**		**% RECOV**	**LIMITS**
p-terphenyl	94		84	43-148
Date Prepared	01/22/01		01/22/01	
Date Analyzed	01/24/01		01/24/01	

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-7	PB-8	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D6 = Analyte value determined from a 1:20 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-7	PB-8	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-7	PB-8	Units
Hydrocarbons (C8-C40)	130 D5	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	*	107	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/26/01	01/25/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB-9	TB-1	Units
Dichlorodifluoromethane	500 U D4	500 U D4	µg/L
Chloromethane	500 U D4	500 U D4	µg/L
Vinyl Chloride	500 U D4	500 U D4	µg/L
Bromomethane	500 U D4	500 U D4	µg/L
Chloroethane	500 U D4	500 U D4	µg/L
Trichlorofluoromethane	1000 U D4	1000 U D4	µg/L
1,1-Dichloroethene	500 U D4	500 U D4	µg/L
Methylene Chloride	2500 U D4	2500 U D4	µg/L
t-1,2-Dichloroethene	500 U D4	500 U D4	µg/L
1,1-Dichloroethane	500 U D4	500 U D4	µg/L
c-1,2-Dichloroethene	500 U D4	500 U D4	µg/L
Chloroform	500 U D4	500 U D4	µg/L
1,1,1-Trichloroethane	500 U D4	500 U D4	µg/L
Carbon Tetrachloride	500 U D4	500 U D4	µg/L
1,2-Dichloroethane	500 U D4	500 U D4	µg/L
Trichloroethene	500 U D4	500 U D4	µg/L
1,2-Dichloropropane	500 U D4	500 U D4	µg/L
Bromodichloromethane	500 U D4	500 U D4	µg/L
c-1,3-Dichloropropene	500 U D4	500 U D4	µg/L
t-1,3-Dichloropropene	500 U D4	500 U D4	µg/L
1,1,2-Trichloroethane	500 U D4	500 U D4	µg/L
Tetrachloroethene	500 U D4	500 U D4	µg/L
Dibromochloromethane	500 U D4	500 U D4	µg/L
Chlorobenzene	500 U D4	500 U D4	µg/L
Bromoform	500 U D4	500 U D4	µg/L
1,1,2,2-Tetrachloroethane	500 U D4	500 U D4	µg/L
1,3-Dichlorobenzene	500 U D4	500 U D4	µg/L
1,4-Dichlorobenzene	500 U D4	500 U D4	µg/L
1,2-Dichlorobenzene	500 U D4	500 U D4	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	103	100	37-161
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB-9	TB-1	Units
Methyl tert-butyl ether	1000 U D4	1000 U D4	µg/L
Benzene	500 U D4	500 U D4	µg/L
Toluene	500 U D4	500 U D4	µg/L
Chlorobenzene	500 U D4	500 U D4	µg/L
Ethylbenzene	500 U D4	500 U D4	µg/L
m-Xylene & p-Xylene	500 U D4	500 U D4	µg/L
o-Xylene	500 U D4	500 U D4	µg/L
1,3-Dichlorobenzene	500 U D4	500 U D4	µg/L
1,4-Dichlorobenzene	500 U D4	500 U D4	µg/L
1,2-Dichlorobenzene	500 U D4	500 U D4	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	108	108	52-147
Date Analyzed	01/25/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-9		TB-1		Units
Naphthalene	**3.3**		0.50 U		µg/L
Acenaphthylene	1.0 U		1.0 U		µg/L
1-Methylnaphthalene	**780**	D5	**860**	D5	µg/L
2-Methylnaphthalene	**1000**	D5	**1300**	D5	µg/L
Acenaphthene	0.50 U		0.50 U		µg/L
Fluorene	0.10 U		0.10 U		µg/L
Phenanthrene	1.0 U		1.0 U		µg/L
Anthracene	0.20 U		0.20 U		µg/L
Fluoranthene	**16**		**12**		µg/L
Pyrene	**20**		**7.2**		µg/L
Benzo(a)anthracene	**3.0**		**0.43**		µg/L
Chrysene	**2.5**		**0.10**		µg/L
Benzo(b)fluoranthene	**0.93**		0.10 U		µg/L
Benzo(k)fluoranthene	**0.71**		0.10 U		µg/L
Benzo(a)pyrene	**0.67**		0.10 U		µg/L
Dibenzo(a,h)anthracene	**0.26**		0.10 U		µg/L
Benzo(g,h,i)perylene	**0.53**		0.10 U		µg/L
Indeno(1,2,3-cd)pyrene	**0.78**		0.10 U		µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
p-terphenyl	140		96		43-148
Date Prepared	01/22/01		01/22/01		
Date Analyzed	01/24/01		01/24/01		

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB-9	TB-1	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB-9	TB-1	Units
Lead	200.7	0.0050 U	**0.0060** I	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-9	TB-1	Units
Hydrocarbons (C8-C40)	**170** D5	**190** D5	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	*	*	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/26/01	01/26/01	

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TB-2	TB-3	Units
Dichlorodifluoromethane	1.0 U	500 U D4	µg/L
Chloromethane	1.0 U	500 U D4	µg/L
Vinyl Chloride	1.0 U	500 U D4	µg/L
Bromomethane	1.0 U	500 U D4	µg/L
Chloroethane	1.0 U	500 U D4	µg/L
Trichlorofluoromethane	2.0 U	1000 U D4	µg/L
1,1-Dichloroethene	1.0 U	500 U D4	µg/L
Methylene Chloride	5.0 U	2500 U D4	µg/L
t-1,2-Dichloroethene	1.0 U	500 U D4	µg/L
1,1-Dichloroethane	1.0 U	500 U D4	µg/L
c-1,2-Dichloroethene	1.0 U	500 U D4	µg/L
Chloroform	1.0 U	500 U D4	µg/L
1,1,1-Trichloroethane	1.0 U	500 U D4	µg/L
Carbon Tetrachloride	1.0 U	500 U D4	µg/L
1,2-Dichloroethane	1.0 U	500 U D4	µg/L
Trichloroethene	1.0 U	500 U D4	µg/L
1,2-Dichloropropane	1.0 U	500 U D4	µg/L
Bromodichloromethane	1.0 U	500 U D4	µg/L
c-1,3-Dichloropropene	1.0 U	500 U D4	µg/L
t-1,3-Dichloropropene	1.0 U	500 U D4	µg/L
1,1,2-Trichloroethane	1.0 U	500 U D4	µg/L
Tetrachloroethene	1.0 U	500 U D4	µg/L
Dibromochloromethane	1.0 U	500 U D4	µg/L
Chlorobenzene	1.0 U	500 U D4	µg/L
Bromoform	1.0 U	500 U D4	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	500 U D4	µg/L
1,3-Dichlorobenzene	1.0 U	500 U D4	µg/L
1,4-Dichlorobenzene	1.0 U	500 U D4	µg/L
1,2-Dichlorobenzene	1.0 U	500 U D4	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	88	108	37-161
Date Analyzed	01/30/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TB-2	TB-3	Units
Methyl tert-butyl ether	2.0 U	1000 U D4	µg/L
Benzene	1.0 U	500 U D4	µg/L
Toluene	1.0 U	500 U D4	µg/L
Chlorobenzene	1.0 U	500 U D4	µg/L
Ethylbenzene	1.0 U	500 U D4	µg/L
m-Xylene & p-Xylene	1.0 U	500 U D4	µg/L
o-Xylene	1.0 U	500 U D4	µg/L
1,3-Dichlorobenzene	1.0 U	500 U D4	µg/L
1,4-Dichlorobenzene	1.0 U	500 U D4	µg/L
1,2-Dichlorobenzene	1.0 U	500 U D4	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	110	108	52-147
Date Analyzed	01/30/01	01/25/01	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:500 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB-2	TB-3	Units
Naphthalene	**0.65**	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	**5.0**	**820** D5	µg/L
2-Methylnaphthalene	**6.9**	**1200** D5	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**0.30**	**5.9**	µg/L
Pyrene	**0.27**	**6.4**	µg/L
Benzo(a)anthracene	0.10 U	**0.43**	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	100	86	43-148
Date Prepared	01/22/01	01/22/01	
Date Analyzed	01/24/01	01/24/01	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TB-2	TB-3	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/23/01	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TB-2	TB-3	Units
Lead	200.7	**0.010**	0.0050 U	mg/L
Date Analyzed		01/23/01	01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-2	TB-3	Units
Hydrocarbons (C8-C40)	0.20 U	**160** D5	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	111	0 U	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/25/01	01/26/01	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TB-4		TB-5		Units
Dichlorodifluoromethane	5.0 U	D1	10 U	D2	µg/L
Chloromethane	5.0 U	D1	10 U	D2	µg/L
Vinyl Chloride	5.0 U	D1	10 U	D2	µg/L
Bromomethane	5.0 U	D1	10 U	D2	µg/L
Chloroethane	5.0 U	D1	10 U	D2	µg/L
Trichlorofluoromethane	10 U	D1	20 U	D2	µg/L
1,1-Dichloroethene	5.0 U	D1	10 U	D2	µg/L
Methylene Chloride	25 U	D1	50 U	D2	µg/L
t-1,2-Dichloroethene	5.0 U	D1	10 U	D2	µg/L
1,1-Dichloroethane	5.0 U	D1	10 U	D2	µg/L
c-1,2-Dichloroethene	5.0 U	D1	10 U	D2	µg/L
Chloroform	5.0 U	D1	10 U	D2	µg/L
1,1,1-Trichloroethane	5.0 U	D1	10 U	D2	µg/L
Carbon Tetrachloride	5.0 U	D1	10 U	D2	µg/L
1,2-Dichloroethane	5.0 U	D1	10 U	D2	µg/L
Trichloroethene	5.0 U	D1	10 U	D2	µg/L
1,2-Dichloropropane	5.0 U	D1	10 U	D2	µg/L
Bromodichloromethane	5.0 U	D1	10 U	D2	µg/L
c-1,3-Dichloropropene	5.0 U	D1	10 U	D2	µg/L
t-1,3-Dichloropropene	5.0 U	D1	10 U	D2	µg/L
1,1,2-Trichloroethane	5.0 U	D1	10 U	D2	µg/L
Tetrachloroethene	5.0 U	D1	10 U	D2	µg/L
Dibromochloromethane	5.0 U	D1	10 U	D2	µg/L
Chlorobenzene	5.0 U	D1	10 U	D2	µg/L
Bromoform	5.0 U	D1	10 U	D2	µg/L
1,1,2,2-Tetrachloroethane	5.0 U	D1	10 U	D2	µg/L
1,3-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
1,4-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
1,2-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Bromofluorobenzene	108		94		37-161
Date Analyzed	01/30/01		01/30/01		

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TB-4		TB-5		Units
Methyl tert-butyl ether	10 U	D1	20 U	D2	µg/L
Benzene	5.0 U	D1	10 U	D2	µg/L
Toluene	5.0 U	D1	10 U	D2	µg/L
Chlorobenzene	5.0 U	D1	10 U	D2	µg/L
Ethylbenzene	5.0 U	D1	10 U	D2	µg/L
m-Xylene & p-Xylene	5.0 U	D1	10 U	D2	µg/L
o-Xylene	5.0 U	D1	10 U	D2	µg/L
1,3-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
1,4-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
1,2-Dichlorobenzene	5.0 U	D1	10 U	D2	µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Bromofluorobenzene	122		113		52-147
Date Analyzed	01/30/01		01/30/01		

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.
D2 = Analyte value determined from a 1:10 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB-4		TB-5		Units
Naphthalene	**40**		50 U	D7	µg/L
Acenaphthylene	1.0 U		100 U	D7	µg/L
1-Methylnaphthalene	**190**	D2	**4800**	D7	µg/L
2-Methylnaphthalene	**240**	D2	**7200**	D3	µg/L
Acenaphthene	0.50 U		50 U	D7	µg/L
Fluorene	0.10 U		10 U	D7	µg/L
Phenanthrene	1.0 U		100 U	D7	µg/L
Anthracene	0.20 U		20 U	D7	µg/L
Fluoranthene	**3.8**		**280**	D7	µg/L
Pyrene	**2.2**		**89**	D7	µg/L
Benzo(a)anthracene	**0.16**		10 U	D7	µg/L
Chrysene	**0.20**		10 U	D7	µg/L
Benzo(b)fluoranthene	0.10 U		10 U	D7	µg/L
Benzo(k)fluoranthene	0.10 U		10 U	D7	µg/L
Benzo(a)pyrene	0.10 U		10 U	D7	µg/L
Dibenzo(a,h)anthracene	0.10 U		10 U	D7	µg/L
Benzo(g,h,i)perylene	0.10 U		10 U	D7	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U		10 U	D7	µg/L
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
p-terphenyl	92		0 U		43-148
Date Prepared	01/22/01		01/22/01		
Date Analyzed	01/24/01		01/24/01		

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.
D3 = Analyte value determined from a 1:1000 dilution.
D7 = Analyte value determined from a 1:100 dilution.

RESULTS OF ANALYSIS

EPA METHOD 504 - ETHYLENE DIBROMIDE	TB-4	TB-5	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/23/01	01/24/01	

TOTAL METALS	METHOD	TB-4	TB-5	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		01/23/01	01/24/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB-4	TB-5	Units
Hydrocarbons (C8-C40)	9.9	430 D5	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	94	*	38-133
Date Prepared	01/23/01	01/23/01	
Date Analyzed	01/25/01	01/26/01	

* = Surrogate recvoery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:50 dilution.

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	103	77	37-161
Date Analyzed	01/24/01	01/27/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	112	101	52-147
Date Analyzed	01/24/01	01/27/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	85	43-148
Date Prepared	01/22/01	
Date Analyzed	01/23/01	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Prepared	01/23/01	
Date Analyzed	01/23/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		01/23/01	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	84	38-133
Date Prepared	01/23/01	
Date Analyzed	01/25/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	1.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	104	37-161
Date Analyzed	01/30/01	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	98	52-147
Date Analyzed	01/30/01	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	98/120/132	45-161	20	29
Chloroform	118/112/117	64-154	5	16
Carbon Tetrachloride	108/104/126	71-165	4	21
Trichloroethene	90/ 92/ 97	69-158	2	24
Tetrachloroethene	102/ 93/121	63-166	9	21
Chlorobenzene	88/ 94/103	67-147	6	19
EPA Method 602				
Benzene	103/100/101	60-138	3	17
Toluene	106/103/ 99	57-138	3	16
Ethylbenzene	112/109/106	49-144	3	17
o-Xylene	112/104/128	50-151	7	17
EPA Method 8310				
Naphthalene	68/ 75/ 64	59-111	10	12
Acenaphthene	74/ 88/ 74	58-128	#17	13
Benzo(a)pyrene	78/ 80/ 83	78-134	2	15
Benzo(g,h,i)perylene	88/ 95/ 81	62-115	8	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

\# = One or more of the associated value failed to meet laboratory established limits for precision.
< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 504				
Ethylene Dibromide	96/ 96/104	57-130	<1	18
Dibromochloropropane	104/104/ 80	60-130	<1	20
TOTAL METALS				
Lead, 200.7	100/ 99/ 99	68-126	1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	93/ 87/ 72	51-163	7	27

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tank # 203
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Prepared for:

Environmental Recovery, Inc.
251 Levy Road
Atlantic Beach, Florida 32233

Prepared by:

Environmental Science Associates, Inc.
35 Jefferson Avenue
Ponte Vedra, Florida 32802
CompQAP #970173

August 2000

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BY:

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ATTACHMENT A - Laboratory Reports

ATTACHMENT B - Well Sampling Field Logs

Department of Environmental Protection

TwTwin Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report
Effective Date: 7/13/98

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date 6/01/00	FDEP Facility ID Number 8626008	County Duval
Facility Name Mayport Naval Station, Tank #203		Facility Telephone #: ( )
Facility Address: Mayport Naval Station, Mayport, Florida		
Owner or Operator Name: U.S. Navy		Owner/Operator phone #: ( )
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

• Aboveground	• Underground ✓

2. General System Information

Types of Products Stored: Vehicular Diesel	Number of Tanks Closed one	Age(s) of Tanks 35 yrs

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

• Tank Systems Removal? ✓	• Spill Containment Installation?	• Change in Storage to a Non-Regulated Substance?
• Tank Systems Closed in Place?	• Dispenser Liners Installation?	• Release Prevention Barrier Installation?
• Piping Sump Installation?	• Secondary Containment Installation?	• Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	• Yes	• No
1. A Discharge Report Form submitted to the County?	• Yes	• No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	• Yes	• No
b. Is the depth to groundwater less than 20 feet?	• Yes ✓	• No
c. Are there monitoring wells on site? If yes, were they	• Yes ✓	• No
1. Groundwater monitoring wells?	• Yes ✓	• No
2. Vapor monitoring wells?	• Yes	• No ✓
3. Used for closure assessment sampling?	• Yes	• No ✓
4. Properly closed?	• Yes	• No ✓
5. Retained for site assessment purposes?	• Yes ✓	• No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	• Yes	• No ✓

Signature of owner or operator	Signature of person performing Limited Closure Assessment	Name of person performing Limited Closure Assessment
(date)	(date) 6/1/00	Affiliation ESE, Inc.

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tank # 203
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Summary of Field Activities

Environmental Science Associates, Inc. (ESA) was contracted by Environmental Recovery, Inc. (ERI) of Atlantic Beach, Florida (PSSSC #PC-C050751) to perform limited closure assessment services following the removal of a diesel fuel Underground Storage Tank (UST) from the Fuel Depot facility (Facility ID #8626008) located on Mayport Naval Station in Duval County, Florida (refer to Figure 1., Site Location Map). The purpose of the limited closure summary was to evaluate current subsurface site conditions in the vicinity of the tank. Field activities for the limited closure assessment were conducted on May 30, 31 and June 1, 2000.

Tank 203 is identified on the FDEP Storage Tank registration information as a 1,555,000-gallon bulk vehicular diesel fuel UST, with a reported installation date of 7/1964. The tank had been previously dismantled and removed from the site, with the circular concrete tank pad, measuring 100 ft in diameter, remaining in place. The limited closure assessment activities were conducted following the removal of the tank, and was performed in accordance with the requirements of Chapter 62-761 F.A.C. and the Florida Department of Environmental Protection (FDEP) guidance document "Pollutant Storage Tank Closure Assessment Requirements"(April 1998) for sites with previously documented contamination. The methods and procedures used during the closure assessment were conducted in accordance with the FDEP "Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Assessments".

As part of the limited closure assessment, total of thirteen (13) confirmatory soil and groundwater were collected from soil borings conducted at the base of the former tank location. A total of eight (8) soil borings (soil boring locations # SB-P1 through SB-P8, with the 'P' designator used to identify sampling locations selected at the perimeter of the tank pad) were conducted at equidistant locations around the perimeter of the concrete tank pad; a total of four (4) additional soil borings (SB-9 through SB-12) were conducted at equidistant locations at the midpoint between the center of the concrete tank pad and the center point of the tank pad; and the remaining soil boring (SB-13) was conducted at the center of the tank pad. Site preparation activities included the use of a concrete core drill to remove a 5-inch diameter core from the 6-inch thick concrete tank pad at those sampling locations selected directly beneath the former tank location. Soil boring locations were selected around the perimeter of the tank pad using a compass heading of North for soil boring location SB-P1, and continuing at uniform intervals in a clockwise direction around the perimeter of the tank pad for soil boring locations #SB-P2 through SB-P8.

The soil borings were conducted using a stainless steel hand auger. Each of the borings were advanced to the depth of the water table, which was encountered at a depth of approximately 4 to 5 ft below surface grade in each of the soil borings. Soil samples were collected from each soil boring at the ground surface and at one foot intervals until the water table was encountered. These soil samples were screened for the presence of volatile organic hydrocarbon vapors by organic vapor headspace analysis field screening procedures using a Foxboro 128 Organic Vapor Analyzer/Flame Ionization Detector (OVA/FID). In this procedure, a clean 16-ounce, wide mouth glass jar is half-filled with the soil to be tested. The jar is then sealed with aluminum foil and allowed to equilibrate at ambient temperatures for a period of approximately five minutes. The probe of the OVA/FID is then inserted through the foil seal, and the concentration of volatile organic compounds in the headspace of the jar is read in parts per million (ppm). The instrument was calibrated in the field prior to sample collection using a standard of 95 parts per million (ppm) methane, and the samples were analyzed both with and without carbon filtration in order to detect and correct for the presence of naturally occurring organic vapors (i.e., methane). The results of the field screening were below 1 part per million total (corrected) volatile petroleum hydrocarbon vapors in each of the soil sampling locations.

A total of thirteen (13) confirmatory soil samples were collected, with one (1) soil sample collected from each of the thirteen soil borings conducted in proximity of the former tank location. Based on the results of the OVA soil screening, which indicated a lack of indications of volatile petroleum hydrocarbon vapors in the soil samples, as well as on a lack of apparent visual indications of the presence of contamination, each of the confirmatory soil samples were collected from a depth of approximately 1 foot above the water table, which was encountered at a depth of approximately 4.0 to 5.0 feet below the concrete base of the of the former tank.

Each of the confirmatory soil samples were collected using a stainless steel hand auger and Encore® brand samplers. Sampling equipment was decontaminated between sampling locations to prevent the possibility of cross-contamination. The samples were placed into pre-cleaned, laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for transport, and hand-delivered to a FDEP-approved laboratory (ENCO Laboratories, Jacksonville) for analysis by the following methods:

EPA Method 8021	Volatile Organic Compounds
EPA Method 8310	Polynuclear Aromatic Hydrocarbons
Fla-PRO	Total Petroleum Hydrocarbons

The results of the laboratory analysis of the soil samples detected the presence of petroleum hydrocarbon compounds in seven (7) of the thirteen (13) confirmatory soil samples collected, including sample #'s CS-P4, CS-P6, CS-P7, CS-P8, CS-11, CS-12, and CS-13, with the highest concentrations detected in CS-P4. The soil contaminant concentrations detected in each of the soil samples were below the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTL) as specified in Chapter 62-775, F.A.C., Table II, in all samples, with the exception of soil sample #CS-P4. Concentrations of Polynuclear Aromatic Hydrocarbons detected

in confirmatory soil sample #CS-P4 exhibited concentrations of Benzo(a)anthracene (2.2mg/Kg) in excess of the Direct Exposure, Residential Soil Cleanup Target Level of 1.5mg/Kg, and Benzo(a)pyrene (1.0mg/Kg) in excess of the Direct Exposure, Residential Soil Cleanup Target Level of 0.1mg/Kg, as well as the Direct Exposure, Industrial Soil Cleanup Target Level of 0.5mg/Kg. All concentrations detected were below the applicable Leachability exposure guidelines specified by 62-775. The results of the soil analysis are summarized in Table 2, and soil sampling locations are illustrated in Figure 3. Copies of the laboratory reports of the confirmatory soil analysis are provided in Attachment A.

Following confirmatory soil sample collection, each of the thirteen (13) soil borings were advanced below the top of the water table and temporary monitor wells were installed and sampled. Each of the temporary wells (TMW-1 through TMW-13) were constructed of 2-inch PVC with 5 ft of 0.01.-inch slotted well screen, and was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of approximately 4 to 5 ft below the concrete base of the tank. The annular space around the well screen was filled with clean 6/20 grade sand pack. Prior to sample collection, each temporary well was purged a total of five (5) standing volumes using a portable peristaltic pump utilizing the quiescent purging technique. Groundwater samples were collected from each temporary well using a Teflon bailer. Sample containers, which had been provided by the designated laboratory, were appropriately labeled, preserved, sealed in zip-lock type bags, placed on wet ice, and hand-delivered, under standard chain of custody procedures, to an FDEP-approved environmental laboratory (ENCO Laboratories, Jacksonville) for analysis for those parameters specified in the Kerosene Analytical Group, as follows:

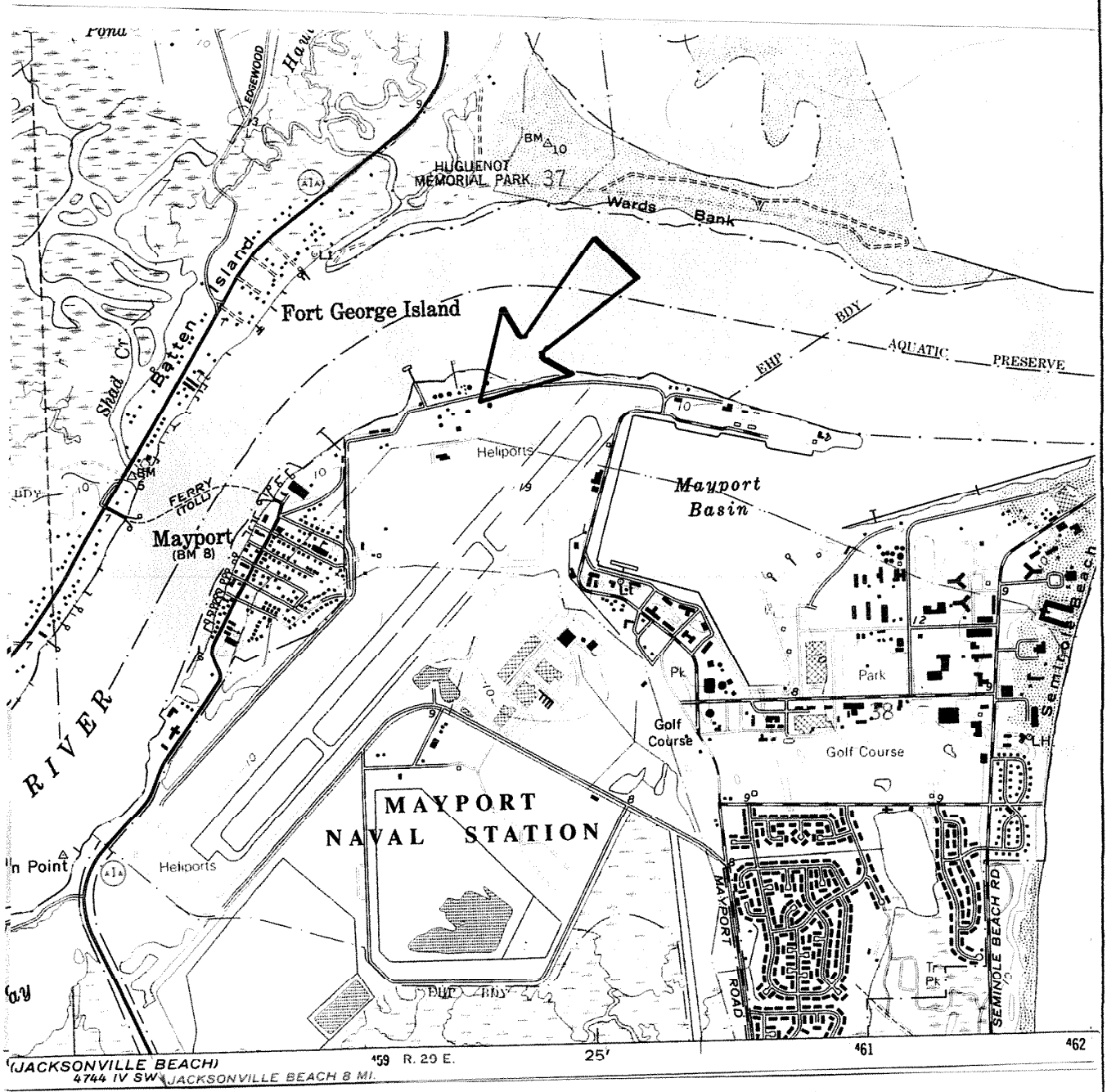
EPA Method 8021	Volatile Organic Compounds
EPA Method 8310	Polynuclear Aromatic Hydrocarbons
Fla-PRO	Total Petroleum Hydrocarbons
EPA Method 504	Ethylene dibromide (EDB)
EPA Method 200.7	Total Lead

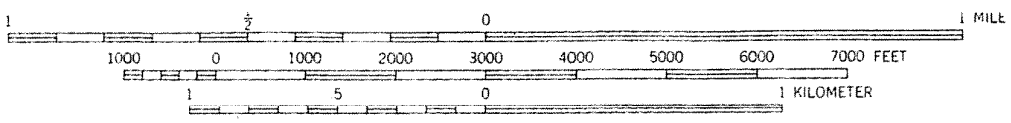
The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells indicated concentrations of petroleum product chemicals of concern, including Polynuclear Aromatic Hydrocarbons, Lead, and/or Volatile Organic Compounds in five (5) of the thirteen (13) wells sampled; however, the concentrations of all contaminants of concern were detected at concentrations below the applicable groundwater guidance concentration as specified in Chapter 62-775, Table I (refer to Table 3). Polynuclear Aromatic Hydrocarbons were detected in temporary monitor wells #TMW-P1, TMW-P2, TMW-P3, TMW-P4, and TMW P5; Lead was detected in temporary monitor wells # TMW-1 (10μg/L), TMW-2 (11μg/L), and in TMW-P3 (8μg/L), and Tetrachloroethene was detected in Temporary monitor well # TMW-P3 (only), at a concentration of 2.0 μg/L. The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells are summarized in Table 3, and the temporary well locations are illustrated in Figure 2. Copies of the laboratory reports of the groundwater analysis are provided in Attachment A, and copies of the well sampling field logs are provided in Attachment B.

Included in this limited closure summary report are copies of the laboratory reports of the soil and groundwater analysis, which are provided as Attachment A. Also included in the report is a site location map, a site sketch indicating soil and groundwater sampling locations relative to the former tank locations, as well as the results of the laboratory analysis in table form.

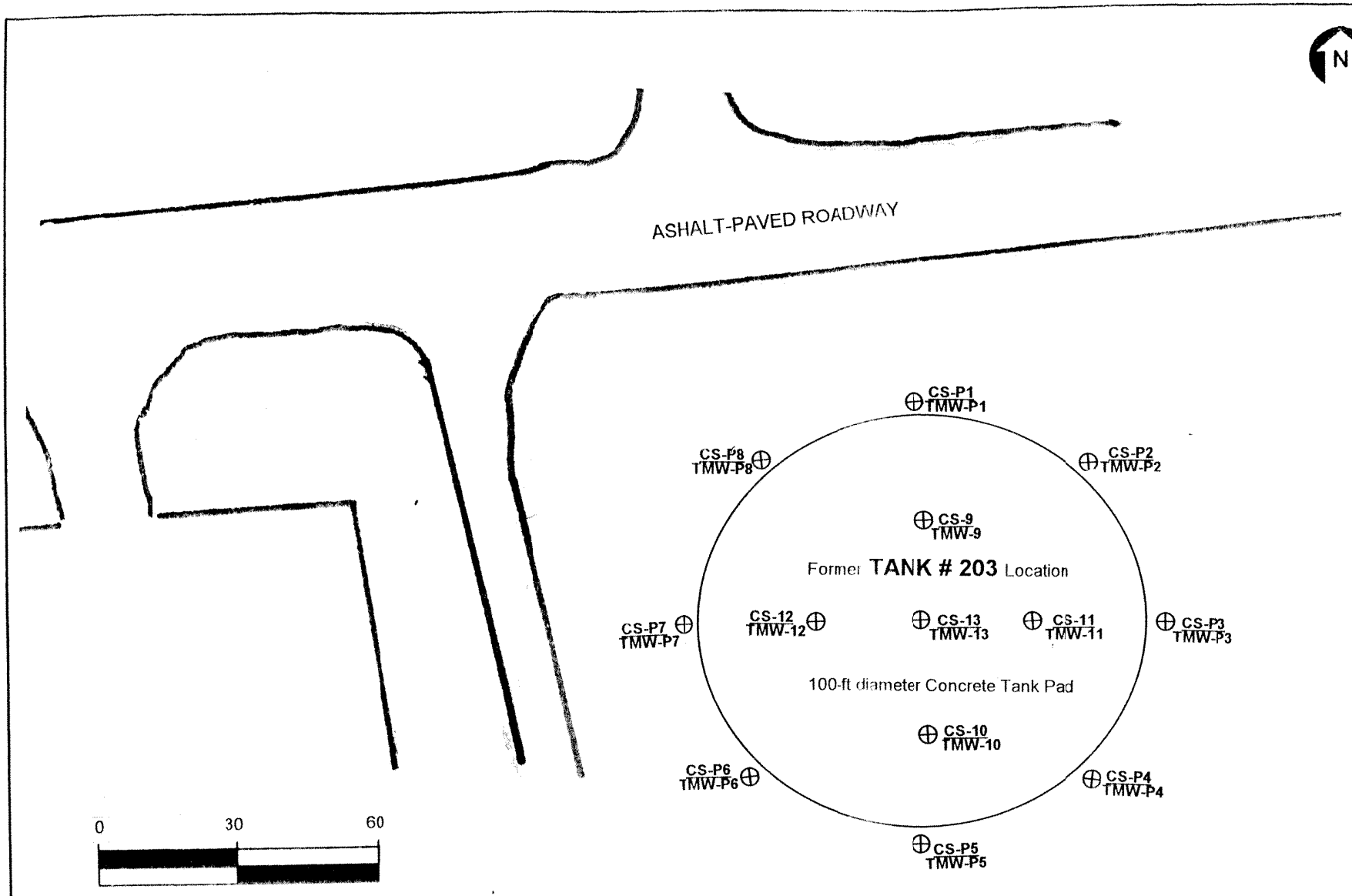
Respectfully Submitted,
Environmental Science Associates, Inc.

Richard Moriarty
Environmental Scientist





Environmental Science Associates, Inc.	**Site Location Map** **Limited Closure Summary, Tank #203**	FIGURE **1**
	Mayport Naval Station Fuel Depot Mayport Naval Station, Duval County, Florida; Facility ID #8626008	PROJECT NO.



Environmental Science Associates, Inc.

Site Map Indicating Soil and Groundwater Sampling Locations

Mayport Naval Station Fuel Depot, Tank #203

Mayport Naval Station, Duval County, Florida

Facility ID # 8626008

	INITIAL	DATE
DRAWN BY:		
REVIEWED BY:		
PROJECT MANAGER:		

FIGURE

2

PROJECT NO.

Table 1. SUMMARY of OVA SOIL SCREENING RESULTS
Limited Closure Summary
Tank #203
Mayport Naval Station
Mayport, Duval County, Florida
Facility ID # 8626008

Sample I.D.	Sample Depth (below grade)	ORGANIC VAPOR CONCENTRATION (in parts per million) Unfiltered	Filtered	Total	Remarks
SB-1:					**North side of concrete tank pad, perimeter.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-2:					**Perimeter of concrete tank pad, NE.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-3:					**Perimeter of concrete tank pad, East.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0		
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-4:					**Perimeter of concrete tank pad, SE.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-5:					**Perimeter of concrete tank pad, South.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-6:					**Perimeter of concrete tank pad, SW.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG

Table 1., OVA Soil Screening Results, continued

Sample I.D.	Sample Depth (below grade)	ORGANIC VAPOR CONCENTRATION (in parts per million) Unfiltered	Filtered	Total	Remarks
SB-7:					**Perimeter of concrete tank pad, West.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-8:					**Perimeter of concrete tank pad, NW.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-9:					**Midpoint, north**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-10:					**Midpoint, south.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-11:					**Midpoint, east.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-12:					**Midpoint, west.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-13:					**Center of concrete tank pad.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG

Field Meter: Foxboro 128 OVA/FID
Field Calibration Check: 5/30/00;10:50/ 5/31/00;08:50/6/1/00;09:15
Description of Procedures: OVA Soil Headspace Analysis

Table 2.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P1	CS-P2	CS-P3	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	2900	48000	1200
Pyrene	BDL	BDL	BDL	2200	37000	880
Benzo(a)anthracene	BDL	BDL	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	140	450	77
Dibenzo(a,h)anthracene	BDL	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

Table 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P4	CS-P5	CS-P6	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	0.740	BDL	BDL	40	270	1.7
Flourene	0.290	BDL	BDL	2200	28000	160
Phenanthrene	3.9	BDL	BDL	2000	30000	250
Flouranthrene	9.9	BDL	0.052	2900	48000	1200
Pyrene	6.9	BDL	0.045	2200	37000	880
Benzo(a)anthracene	**2.2**	BDL	0.015	**1.5**	5	3.2
Benzo(b)flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	1.0	BDL	BDL	**0.1**	**0.5**	8
Benzo(g,h,i,)perylene	0.410	BDL	BDL	2300	41000	32000
Chrysene	2.8	BDL	0.014	140	450	77
Dibenzo(a,h)anthracene	0.200	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	0.560	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

Table 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P7	CS-P8	CS-9	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	0.0027	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	2900	48000	1200
Pyrene	0.010	0.011	BDL	2200	37000	880
Benzo(a)anthracene	0.0053	0.053	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	140	450	77
Dibenzo(a,h)anthracene	BDL	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

Table 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID				FDEP Soil Cleanup Target Levels*		
	CS-10	CS-11	CS-12	CS-13	Residential	Industrial	Leachability
Volatile Organic Compounds:							
(EPA Method 8021)							
Benzene	BDL	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	0.014	0.014	0.005	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	0.006	0.006	0.001	5900	40000	0.2
MTBE	BDL	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:							
(EPA Method 8310)							
Naphthalene	BDL	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	BDL	2900	48000	1200
Pyrene	BDL	BDL	BDL	BDL	2200	37000	880
Benzo(a)anthracene	BDL	BDL	BDL	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	BDL	140	450	77
Dibenzo(a.h)anthracene	BDL	BDL	0.013	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	0.0085	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

Table 3.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID # TMW-P1	TMW-P2	TMW-P3	TMW-P4	TMW-P5	FDEP GWCTL*
Volatile Organic Compounds:						
(EPA Method 601/602)						
Benzene	BDL	BDL	BDL	BDL	BDL	1µg/L
Toluene	BDL	BDL	BDL	BDL	BDL	40µg/L
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	30µg/L
Xylenes	BDL	BDL	BDL	BDL	BDL	20µg/L
MTBE	BDL	BDL	BDL	BDL	BDL	50µg/L
Tetrachloroethene	BDL	BDL	2.0µg/L	BDL	BDL	3.0µg/L
All other 601/602 Compounds:	BDL	BDL	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:						
(EPA Method 8270)						
1-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20µg/L
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20µg/L
Naphthalene	BDL	BDL	BDL	BDL	BDL	20µg/L
Acenaphthene	BDL	BDL	0.62µg/L	0.63µg/L	1.6µg/L	20µg/L
Anthracene	BDL	BDL	BDL	BDL	BDL	2100µg/L
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	0.2µg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	BDL	0.2µg/L
Chrysene	BDL	BDL	BDL	BDL	BDL	4.8µg/L
Flourene	BDL	0.25µg/L	0.40µg/L	0.16µg/L	0.61µg/L	280µg/L
Phenanthrene	BDL	1.8µg/L	1.4 µg/L	BDL	3.0µg/L	210µg/L
Flouranthene	BDL	0.35µg/L	0.75µg/L	0.41µg/L	1.9µg/L	280µg/L
Pyrene	BDL	0.35µg/L	0.59µg/L	0.45µg/L	1.4µg/L	210µg/L
All other 8310 Compounds	BDL	BDL	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	BDL	BDL	0.02µg/L
Total Lead:	10µg/L	11µg/L	8µg/L	BDL	BDL	15µg/L

BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

Table 3, Continued.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID # TMW-P6	TMW-P7	TMW-P8	TMW-9	TMW-10	FDEP GWCTL*
Volatile Organic Compounds:						
(EPA Method 601/602)						
Benzene	BDL	BDL	BDL	BDL	BDL	1μg/L
Toluene	BDL	BDL	BDL	BDL	BDL	40μg/L
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	30μg/L
Xylenes	BDL	BDL	BDL	BDL	BDL	20μg/L
MTBE	BDL	BDL	BDL	BDL	BDL	50μg/L
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	3.0μg/L
All other 601/602 Compounds:	BDL	BDL	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:						
(EPA Method 8270)						
1-Methylnaphthalene	3.1μg/L	BDL	BDL	BDL	BDL	20μg/L
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Naphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Acenaphthene	6.9μg/L	BDL	BDL	BDL	BDL	20μg/L
Anthracene	BDL	BDL	BDL	BDL	BDL	2100μg/L
Benzo(a)anthracene	0.16μg/L	BDL	BDL	BDL	BDL	0.2μg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	BDL	0.2μg/L
Chrysene	0.16μg/L	BDL	BDL	BDL	BDL	4.8μg/L
Flourene	1.2μg/L	BDL	BDL	BDL	BDL	280μg/L
Phenanthrene	BDL	BDL	BDL	BDL	BDL	210μg/L
Flouranthene	1.7μg/L	BDL	BDL	BDL	BDL	280μg/L
Pyrene	1.1μg/L	BDL	BDL	BDL	BDL	210μg/L
All other 8310 Compounds	BDL	BDL	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	BDL	BDL	0.02μg/L
Total Lead:	BDL	BDL	BDL	BDL	BDL	15μg/L

BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

Table 3, Continued.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID # TMW-11	TMW-12	TMW-13	FDEP GWCTL*
Volatile Organic Compounds:				
(EPA Method 601/602)				
Benzene	BDL	BDL	BDL	1μg/L
Toluene	BDL	BDL	BDL	40μg/L
Ethylbenzene	BDL	BDL	BDL	30μg/L
Xylenes	BDL	BDL	BDL	20μg/L
MTBE	BDL	BDL	BDL	50μg/L
Tetrachloroethene	BDL	BDL	BDL	3.0μg/L
All other 601/602 Compounds:	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
1-Methylnaphthalene	BDL	BDL	BDL	20μg/L
2-Methylnaphthalene	BDL	BDL	BDL	20μg/L
Naphthalene	BDL	BDL	BDL	20μg/L
Acenaphthene	BDL	BDL	BDL	20μg/L
Anthracene	BDL	BDL	BDL	2100μg/L
Benzo(a)anthracene	BDL	BDL	BDL	0.2μg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	0.2μg/L
Chrysene	BDL	BDL	BDL	4.8μg/L
Flourene	BDL	BDL	BDL	280μg/L
Phenanthrene	BDL	BDL	BDL	210μg/L
Flouranthene	BDL	BDL	BDL	280μg/L
Pyrene	BDL	BDL	BDL	210μg/L
All other 8310 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	0.02μg/L
Total Lead:	BDL	BDL	BDL	15μg/L

BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

1. Photograph facing generally northwest, overlooking former location of Tank #203, with circular concrete tank pad evident.

2. Photograph facing generally northeast, overlooking former location of Tank #203, with circular concrete tank pad evident.

Photodocumntation: Limited Closure Summary, Tank #203
Mayport Maval Station, Mayport, Florida
Facility ID # 8626008

ATTACHMENT A

Laboratory Reports

Confirmatory Soil Analysis (CS-P1 through CS-13)
Groundwater nalysis (TMW-P1 through TMW-13)

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
Fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX11524
DATE SUBMITTED: May 30, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

05/30/00

#1 - CS-P1 @ 11:15
#2 - CS-P2 @ 12:25
#3 - CS-P3 @ 13:30
#4 - TMW-P1 @ 14:10
#5 - TMW-P2 @ 14:55
#6 - TMW-P3 @ 15:50

PROJECT MANAGER Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P1	Units
Methyl tert-butyl ether	4.0 U D1	µg/Kg
Benzene	2.1 U D1	µg/Kg
Toluene	2.1 U D1	µg/Kg
Chlorobenzene	2.1 U D1	µg/Kg
Ethylbenzene	2.1 U D1	µg/Kg
m-Xylene & p-Xylene	4.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	28-165
Date Analyzed	06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P1	Units
Hydrocarbons (C8-C40)	8.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	82	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.72 dilution.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P1	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.2 U	µg/Kg
Fluoranthene	4.1 U	µg/Kg
Pyrene	4.1 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.1 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	92	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P1	Units
Percent Solids	SM2540G	80	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P2	Units
Methyl tert-butyl ether	3.0 U D1	µg/Kg
Benzene	1.8 U D1	µg/Kg
Toluene	1.8 U D1	µg/Kg
Chlorobenzene	1.8 U D1	µg/Kg
Ethylbenzene	1.8 U D1	µg/Kg
m-Xylene & p-Xylene	3.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	85	28-165
Date Analyzed	06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P2	Units
Hydrocarbons (C8-C40)	7.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.72 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P2	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	36 U	µg/Kg
1-Methylnaphthalene	36 U	µg/Kg
2-Methylnaphthalene	36 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.6 U	µg/Kg
Phenanthrene	36 U	µg/Kg
Anthracene	7.2 U	µg/Kg
Fluoranthene	3.6 U	µg/Kg
Pyrene	3.6 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.6 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	µg/Kg
Benzo(a)pyrene	3.6 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P2	Units
Percent Solids	SM2540G	92	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P3	Units
Methyl tert-butyl ether	2.0 U D2	µg/Kg
Benzene	1.4 U D2	µg/Kg
Toluene	1.4 U D2	µg/Kg
Chlorobenzene	1.4 U D2	µg/Kg
Ethylbenzene	1.4 U D2	µg/Kg
m-Xylene & p-Xylene	2.0 U D2	µg/Kg
o-Xylene	1.0 U D2	µg/Kg
1,3-Dichlorobenzene	1.0 U D2	µg/Kg
1,4-Dichlorobenzene	1.0 U D2	µg/Kg
1,2-Dichlorobenzene	1.0 U D2	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	88	28-165
Date Analyzed	06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P3	Units
Hydrocarbons (C8-C40)	8.4 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	72	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.09 dilution.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P3	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	42 U	µg/Kg
1-Methylnaphthalene	42 U	µg/Kg
2-Methylnaphthalene	42 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.2 U	µg/Kg
Phenanthrene	42 U	µg/Kg
Anthracene	8.4 U	µg/Kg
Fluoranthene	4.2 U	µg/Kg
Pyrene	4.2 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.2 U	µg/Kg
Benzo(b)fluoranthene	4.2 U	µg/Kg
Benzo(k)fluoranthene	4.2 U	µg/Kg
Benzo(a)pyrene	4.2 U	µg/Kg
Dibenzo(a,h)anthracene	4.2 U	µg/Kg
Benzo(g,h,i)perylene	4.2 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.2 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	84	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P3	Units
Percent Solids	SM2540G	79	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P1	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	102	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P1	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	121	59-132
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P1	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	88	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P1	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P1	Units
Lead	200.7	0.010 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P1	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P2	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	92	37-161
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P2	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P2	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.25	µg/L
Phenanthrene	1.8	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.35	µg/L
Pyrene	0.35	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P2	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P2	Units
Lead	200.7	0.011 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P2	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	66	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P3	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	2.0	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	91	37-161
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P3	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P3	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	**0.62**	µg/L
Fluorene	**0.40**	µg/L
Phenanthrene	**1.4**	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	**0.75**	µg/L
Pyrene	**0.59**	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	103	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P3	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P3	Units
Lead	200.7	0.0080 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P3	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	65	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	2.0 U	2.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	2.0 U	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	95	37-161
Date Analyzed	06/03/00	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	94	28-165
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	101	39-141
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	87	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	84	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	129	59-132
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	84/ 82/ 84	48-130	2	20
Acenaphthene	98/ 98/ 97	36-127	<1	17
Benzo(a)pyrene	94/106/ 79	64-141	12	22
Benzo(g,h,i)perylene	99/ 98/112	58-168	1	21
EPA Method 504				
Ethylene Dibromide	86/ 91/ 84	58-135	6	22
TOTAL METALS				
Lead, 200.7	96/ 98/102	68-126	2	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	79/ 85/ 83	51-163	7	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 81	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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Christine T. Resto

From: Christine T. Resto <cresto@encolabs.com>
To: Matthew Foti, Ph.D. <mfoti@encolabs.com>
Sent: Friday, June 09, 2000 3:27 PM
Subject: 8021/arom for ELLIS (Bayard Water Line)

We are sending the five soil samples to ORL tonight--they break hold tomorrow afternoon. Per our conversation, the client wants results by EOB on Thursday. Thanks for your help. Have fun tonight.

QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

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1015 Passport Way
Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station Tank #203
PROJECT NO.: #2339
P.O. NUMBER:
PAGE 1 OF 1
PROJECT LOC. (State): Fl
SAMPLER(S) NAME: Richard Moriarty
PHONE: (904) 241-2200
FAX: (904) 241-4732
CLIENT NAME: Environmental Recovery, Inc
CLIENT PROJECT MANAGER: Mr Chuck Nevin
CLIENT ADDRESS (CITY, STATE, ZIP): 251 Levy Road, Atlantic Beach, Fla 32233

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

MATRIX TYPE: SURFACE WATER, GROUND WATER, WASTEWATER, DRINKING WATER, SOIL/SOLID/SEDIMENT, NONAQUEOUS LIQUID (oil, solvent, etc.), AIR, SLUDGE, OTHER

REQUIRED ANALYSIS / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	601/602 (VOC'S) HCL 3	8310 (PAH'S) UN 1	EDB UN 2	FL-PRO H_2SO_4 2	LEAD HNO_3 1	8020 (BTEX w/ MTBE) UN 3	8310 (PAH'S) UN 1	FL-PRO UN 1	REMARKS
#1	5/30/00	11:15	X		CS-P1					X										X	X	X	Sample kits consist of:
2 #2	5/30/00	12:25	X		CS-P2					X										X	X	X	Soil: 3x5gm Encore
3 #3	5/30/00	13:30	X		CS-P3					X										X	X	X	1x4oz Glass UN
4																							
5																							GW: 2x40ml vials HCL (VOC's
6 #1	5/30/00	14:10	X		TMW-P1		X								X	X	X	X	X				2x40ml vials UN (EDB)
7 #2	5/30/00	14:55	X		TMW-P2		X								X	X	X	X	X				1x1000ml glass UN (PAH)
8 #3	5/30/00	15:50	X		TMW-P3		X								X	X	X	X	X				2x1000ml glass H_2SO_4 (Fl-Pr)
9																							1x500ml poly HNO_3 (Pb)
10																							
11																							Sample containers sealed in
12																							poly BAGS and placed
13																							on wet ice for transport.
14																							Samples hand delivered to ENCO FAX 5/30/00

SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
X	5:30:00	820	[signature]			Sample containers received from ERI by RM @ 08:30 5/30/00 with custody seals intact [signature]	5/30/00	0930
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE) [signature]	DATE 5/30/00	TIME 18:40	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	5/30/00	1840	X YES ☐ NO	JAX11524	

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
Fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX11568
DATE SUBMITTED: May 31, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

05/31/00

#1 - CS-P4 @ 09:30
#2 - CS-P5 @ 10:05
#3 - CS-P6 @ 10:40
#4 - CS-P7 @ 11:10
#5 - CS-P8 @ 11:40
#6 - TMW-P4 @ 14:40
#7 - TMW-P5 @ 15:20
#8 - TMW-P6 @ 16:00
#9 - TMW-P7 @ 16:40
#10 - TMW-P8 @ 17:15

PROJECT MANAGER Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P4	Units
Methyl tert-butyl ether	5.0 U D1	µg/Kg
Benzene	2.2 U D1	µg/Kg
Toluene	2.2 U D1	µg/Kg
Chlorobenzene	2.2 U D1	µg/Kg
Ethylbenzene	2.2 U D1	µg/Kg
m-Xylene & p-Xylene	5.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	28-165
Date Analyzed	06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P4	Units
Hydrocarbons (C8-C40)	7.7 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	90	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.89 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P4		Units
Naphthalene	740	D2	µg/Kg
Acenaphthylene	380 U	D2	µg/Kg
1-Methylnaphthalene	380 U	D2	µg/Kg
2-Methylnaphthalene	380 U	D2	µg/Kg
Acenaphthene	190 U	D2	µg/Kg
Fluorene	290	D2	µg/Kg
Phenanthrene	3900	D2	µg/Kg
Anthracene	77 U	D2	µg/Kg
Fluoranthene	9900	D2	µg/Kg
Pyrene	6900	D2	µg/Kg
Benzo(a)anthracene	2200	D2	µg/Kg
Chrysene	2800	D2	µg/Kg
Benzo(b)fluoranthene	38 U	D2	µg/Kg
Benzo(k)fluoranthene	38 U	D2	µg/Kg
Benzo(a)pyrene	1000	D2	µg/Kg
Dibenzo(a,h)anthracene	200	D2	µg/Kg
Benzo(g,h,i)perylene	410	D2	µg/Kg
Indeno(1,2,3-cd)pyrene	560	D2	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	74	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P4	Units
Percent Solids	SM2540G	86	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P5	Units
Methyl tert-butyl ether	5.0 U D3	µg/Kg
Benzene	2.3 U D3	µg/Kg
Toluene	2.3 U D3	µg/Kg
Chlorobenzene	2.3 U D3	µg/Kg
Ethylbenzene	2.3 U D3	µg/Kg
m-Xylene & p-Xylene	5.0 U D3	µg/Kg
o-Xylene	2.0 U D3	µg/Kg
1,3-Dichlorobenzene	2.0 U D3	µg/Kg
1,4-Dichlorobenzene	2.0 U D3	µg/Kg
1,2-Dichlorobenzene	2.0 U D3	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	50	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P5	Units
Hydrocarbons (C8-C40)	11 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:1.35 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P5	Units
Naphthalene	27 U	µg/Kg
Acenaphthylene	54 U	µg/Kg
1-Methylnaphthalene	54 U	µg/Kg
2-Methylnaphthalene	54 U	µg/Kg
Acenaphthene	27 U	µg/Kg
Fluorene	5.4 U	µg/Kg
Phenanthrene	54 U	µg/Kg
Anthracene	11 U	µg/Kg
Fluoranthene	5.4 U	µg/Kg
Pyrene	5.4 U	µg/Kg
Benzo(a)anthracene	16 U	µg/Kg
Chrysene	5.4 U	µg/Kg
Benzo(b)fluoranthene	5.4 U	µg/Kg
Benzo(k)fluoranthene	5.4 U	µg/Kg
Benzo(a)pyrene	5.4 U	µg/Kg
Dibenzo(a,h)anthracene	5.4 U	µg/Kg
Benzo(g,h,i)perylene	5.4 U	µg/Kg
Indeno(1,2,3-cd)pyrene	5.4 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	81	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P5	Units
Percent Solids	SM2540G	61	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P6	Units
Methyl tert-butyl ether	4.0 U D4	µg/Kg
Benzene	1.8 U D4	µg/Kg
Toluene	1.8 U D4	µg/Kg
Chlorobenzene	1.8 U D4	µg/Kg
Ethylbenzene	1.8 U D4	µg/Kg
m-Xylene & p-Xylene	4.0 U D4	µg/Kg
o-Xylene	2.0 U D4	µg/Kg
1,3-Dichlorobenzene	2.0 U D4	µg/Kg
1,4-Dichlorobenzene	2.0 U D4	µg/Kg
1,2-Dichlorobenzene	2.0 U D4	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	66	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P6	Units
Hydrocarbons (C8-C40)	8.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:1.52 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P6	Units
Naphthalene	20 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	20 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.1 U	µg/Kg
Fluoranthene	52	µg/Kg
Pyrene	45	µg/Kg
Benzo(a)anthracene	15	µg/Kg
Chrysene	14	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	90	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P6	Units
Percent Solids	SM2540G	81	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P7	Units
Methyl tert-butyl ether	6.0 U D5	µg/Kg
Benzene	3.0 U D5	µg/Kg
Toluene	**3.0** I D5	µg/Kg
Chlorobenzene	3.0 U D5	µg/Kg
Ethylbenzene	3.0 U D5	µg/Kg
m-Xylene & p-Xylene	6.0 U D5	µg/Kg
o-Xylene	3.0 U D5	µg/Kg
1,3-Dichlorobenzene	3.0 U D5	µg/Kg
1,4-Dichlorobenzene	3.0 U D5	µg/Kg
1,2-Dichlorobenzene	3.0 U D5	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	53	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P7	Units
Hydrocarbons (C8-C40)	7.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	85	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D5 = Analyte value determined from a 1:2.78 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P7	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	35 U	µg/Kg
1-Methylnaphthalene	35 U	µg/Kg
2-Methylnaphthalene	35 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.5 U	µg/Kg
Phenanthrene	35 U	µg/Kg
Anthracene	7.1 U	µg/Kg
Fluoranthene	10	µg/Kg
Pyrene	5.3	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.5 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	µg/Kg
Benzo(a)pyrene	3.5 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P7	Units
Percent Solids	SM2540G	93	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P8	Units
Methyl tert-butyl ether	4.0 U D6	µg/Kg
Benzene	**2.7** I D6	µg/Kg
Toluene	2.2 U D6	µg/Kg
Chlorobenzene	2.2 U D6	µg/Kg
Ethylbenzene	2.2 U D6	µg/Kg
m-Xylene & p-Xylene	4.0 U D6	µg/Kg
o-Xylene	2.0 U D6	µg/Kg
1,3-Dichlorobenzene	2.0 U D6	µg/Kg
1,4-Dichlorobenzene	2.0 U D6	µg/Kg
1,2-Dichlorobenzene	2.0 U D6	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	63	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P8	Units
Hydrocarbons (C8-C40)	7.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	88	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D6 = Analyte value determined from a 1:2.08 dilution.

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P8	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	35 U	µg/Kg
1-Methylnaphthalene	35 U	µg/Kg
2-Methylnaphthalene	35 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.5 U	µg/Kg
Phenanthrene	35 U	µg/Kg
Anthracene	7.1 U	µg/Kg
Fluoranthene	11	µg/Kg
Pyrene	5.3	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.5 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	µg/Kg
Benzo(a)pyrene	3.5 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	98	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P8	Units
Percent Solids	SM2540G	93	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11568
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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P4	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	90	37-161
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P4	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	106	59-132
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

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REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P4	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	**0.63**	µg/L
Fluorene	**0.16**	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	**0.41**	µg/L
Pyrene	**0.45**	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	109	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P4	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P4	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P4	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	75	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P5	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P5	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	59-132
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P5	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	1.6	µg/L
Fluorene	0.61	µg/L
Phenanthrene	3.0	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	1.9	µg/L
Pyrene	1.4	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	103	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P5	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P5	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P5	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	80	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P6	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	103	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P6	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	59-132
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8310 - PAH BY HPLC	TMW-P6	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	**3.1**	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	**6.9**	µg/L
Fluorene	**1.2**	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	**1.7**	µg/L
Pyrene	**1.1**	µg/L
Benzo(a)anthracene	**0.16**	µg/L
Chrysene	**0.16**	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P6	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P6	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P6	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	89	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P7	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P7	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	117	59-132
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P7	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	105	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P7	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P7	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P7	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	83	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P8	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	92	37-161
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P8	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	107	59-132
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8310 - PAH BY HPLC	TMW-P8	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	98	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P8	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P8	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P8	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	74	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	89	28-165
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	101	39-141
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	75	65-140
Nonatriacontane	62	71-139
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	% RECOV	LIMITS
o-Terphenyl	99	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	95	37-161
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	129	59-132
Date Analyzed	06/04/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	94	28-165
Date Analyzed	06/05/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	99	37-161
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	84/ 82/ 84	48-130	2	20
Acenaphthene	98/ 98/ 97	36-127	<1	17
Benzo(a)pyrene	94/106/ 79	64-141	12	22
Benzo(g,h,i)perylene	99/ 98/112	58-168	1	21
EPA Method 504				
Ethylene Dibromide	120/110/112	58-135	9	22
TOTAL METALS				
Lead, 200.7	102/102/103	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	81/ 81/ 79	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 84	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

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Jacksonville, Florida 32216-6039
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Orlando, Florida 32824-8529
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1015 Passport Way
Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station Task #203 | PROJECT NO.: ERI #22309 | P.O. NUMBER:

PROJECT LOC. (State): FL | SAMPLER(s) NAME: Richard Moriarty | PHONE: (904) 241-2700 | FAX: (904) 249-4732

CLIENT NAME: Environmental Recovery Inc | CLIENT PROJECT MANAGER: Mr. Chuck Nevin

CLIENT ADDRESS (CITY, STATE, ZIP): 251 Levy Road Atlantic Beach, FL 32233

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: _____

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	MATRIX: SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (Oil, Solvent, etc.)	AIR	SLUDGE	OTHER	PRESERVATIVE: HCl	UN	UN	H2SO4	HNO3	UN	UN	UN	REMARKS
															NUMBER OF CONTAINERS SUBMITTED: 2	1	2			3	1	1	
1 #1	5/31/00	0930	X		CS-P4					X										X	X	X	Each sample kit consists of:
2 #2	5/31/00	10:05	X		CS-P5					X										X	X	X	Soil: 3x5gm Encore
3 #3	5/31/00	10:40	X		CS-P6					X										X	X	X	1x4oz Glass (unp)
4 #4	5/31/00	11:10	X		CS-P7					X										X	X	X	
5 #5	5/31/00	11:40	X		CS-P8					X										X	X	X	GW: 2x40ml Vials (HCl) (VOA's
6																							2x40ml Vials (unp) (EDB)
7 #1	5/31/00	14:40	X		TMW-P4		X								X	X	X	X	X				1x1000ml Glass (unp) (PAH)
8 #2	5/31/00	15:20	X		TMW-P5		X								X	X	X	X	X				2x1000ml Glass (H2SO4) (TPH)
9 #3	5/31/00	16:00	X		TMW-P6		X								X	X	X	X	X				1x500ml Poly (HNO3) (Pb
10 #4	5/31/00	16:40	X		TMW-P7		X								X	X	X	X	X				
11 #5	5/31/00	17:15	X		TMW-P8		X								X	X	X	X	X				Sample containers sealed in poly bags and placed on wet ice (RM)
12																							Samples HAND-Delivered to Enco Jax 5/31/00 (RM)
13																							
14																							

SAMPLE KIT PREPARED BY:	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
X ☐JACKSONVILLE ☐ORLANDO	53000	820				Sample containers received from ERI by RM @ 0830 5/31/00 with Custody Intact - Richard Moriarty	5/31/00	0830
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) Richard Moriarty	DATE 5/31/00	TIME 18:50	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RECEIVED FOR LABORATORY BY: (SIGNATURE) ☑Jacksonville ☐Orlando	DATE 5/31/00	TIME 18:50	CUSTODY INTACT X ☐YES ☐NO	ENCO LOG NO. JAX 11568		REMARKS		

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
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www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX11582
DATE SUBMITTED: June 1, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

06/01/00

#1 - CS-9 @ 09:35
#2 - CS-10 @ 10:00
#3 - CS-11 @ 10:30
#4 - CS-12 @ 10:50
#5 - CS-13 @ 12:55
#6 - TMW-9 @ 13:45
#7 - TMW-10 @ 14:30
#8 - TMW-11 @ 15:05
#9 - TMW-12 @ 15:45
#10 - TMW-13 @ 16:20

PROJECT MANAGER Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-9	Units
Methyl tert-butyl ether	5.0 U D1	µg/Kg
Benzene	2.8 U D1	µg/Kg
Toluene	2.8 U D1	µg/Kg
Chlorobenzene	2.8 U D1	µg/Kg
Ethylbenzene	2.8 U D1	µg/Kg
m-Xylene & p-Xylene	5.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 I D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	126	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-9	Units
Hydrocarbons (C8-C40)	8.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D1 = Analyte value determined from a 1:2.17 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-9	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.2 U	µg/Kg
Fluoranthene	4.1 U	µg/Kg
Pyrene	4.1 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.1 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	91	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-9	Units
Percent Solids	SM2540G	80	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-10	Units
Methyl tert-butyl ether	5.0 U D2	µg/Kg
Benzene	2.2 U D2	µg/Kg
Toluene	2.2 U D2	µg/Kg
Chlorobenzene	2.2 U D2	µg/Kg
Ethylbenzene	2.2 U D2	µg/Kg
m-Xylene & p-Xylene	5.0 U D2	µg/Kg
o-Xylene	2.0 U D2	µg/Kg
1,3-Dichlorobenzene	2.0 U D2	µg/Kg
1,4-Dichlorobenzene	2.0 U D2	µg/Kg
1,2-Dichlorobenzene	2.0 U D2	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	108	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-10	Units
Hydrocarbons (C8-C40)	7.7 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	89	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.92 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-10	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	38 U	µg/Kg
1-Methylnaphthalene	38 U	µg/Kg
2-Methylnaphthalene	38 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.8 U	µg/Kg
Phenanthrene	38 U	µg/Kg
Anthracene	7.7 U	µg/Kg
Fluoranthene	3.8 U	µg/Kg
Pyrene	3.8 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	3.8 U	µg/Kg
Benzo(b)fluoranthene	3.8 U	µg/Kg
Benzo(k)fluoranthene	3.8 U	µg/Kg
Benzo(a)pyrene	3.8 U	µg/Kg
Dibenzo(a,h)anthracene	3.8 U	µg/Kg
Benzo(g,h,i)perylene	3.8 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.8 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	80	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-10	Units
Percent Solids	SM2540G	86	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-11	Units
Methyl tert-butyl ether	3.0 U D3	µg/Kg
Benzene	1.7 U D3	µg/Kg
Toluene	**14** D3	µg/Kg
Chlorobenzene	1.7 U D3	µg/Kg
Ethylbenzene	1.7 U D3	µg/Kg
m-Xylene & p-Xylene	**4.0** I D3	µg/Kg
o-Xylene	**2.0** I D3	µg/Kg
1,3-Dichlorobenzene	2.0 U D3	µg/Kg
1,4-Dichlorobenzene	2.0 U D3	µg/Kg
1,2-Dichlorobenzene	2.0 U D3	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	103	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-11	Units
Hydrocarbons (C8-C40)	7.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D3 = Analyte value determined from a 1:1.61 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-11	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	36 U	µg/Kg
1-Methylnaphthalene	36 U	µg/Kg
2-Methylnaphthalene	36 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.6 U	µg/Kg
Phenanthrene	36 U	µg/Kg
Anthracene	7.2 U	µg/Kg
Fluoranthene	3.6 U	µg/Kg
Pyrene	3.6 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.6 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	µg/Kg
Benzo(a)pyrene	3.6 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	97	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-11	Units
Percent Solids	SM2540G	92	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-12		Units
Methyl tert-butyl ether	4.0 U	D2	µg/Kg
Benzene	2.2 U	D2	µg/Kg
Toluene	14	D2	µg/Kg
Chlorobenzene	2.2 U	D2	µg/Kg
Ethylbenzene	2.2 U	D2	µg/Kg
m-Xylene & p-Xylene	4.0 I	D2	µg/Kg
o-Xylene	2.0 I	D2	µg/Kg
1,3-Dichlorobenzene	2.0 U	D2	µg/Kg
1,4-Dichlorobenzene	2.0 U	D2	µg/Kg
1,2-Dichlorobenzene	2.0 U	D2	µg/Kg
Surrogate:	**% RECOV**		**LIMITS**
Bromofluorobenzene	85		28-165
Date Analyzed	06/04/00		

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-12	Units
Hydrocarbons (C8-C40)	7.5 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	88	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D2 = Analyte value determined from a 1:1.92 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-12	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	38 U	µg/Kg
1-Methylnaphthalene	38 U	µg/Kg
2-Methylnaphthalene	38 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.8 U	µg/Kg
Phenanthrene	38 U	µg/Kg
Anthracene	7.5 U	µg/Kg
Fluoranthene	3.8 U	µg/Kg
Pyrene	3.8 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.8 U	µg/Kg
Benzo(b)fluoranthene	3.8 U	µg/Kg
Benzo(k)fluoranthene	3.8 U	µg/Kg
Benzo(a)pyrene	3.8 U	µg/Kg
Dibenzo(a,h)anthracene	13	µg/Kg
Benzo(g,h,i)perylene	3.8 U	µg/Kg
Indeno(1,2,3-cd)pyrene	8.5	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	92	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-12	Units
Percent Solids	SM2540G	88	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8021 - VOLATILE ORGANICS	CS-13	Units
Methyl tert-butyl ether	2.0 U D4	µg/Kg
Benzene	1.0 U D4	µg/Kg
Toluene	**5.0** I D4	µg/Kg
Chlorobenzene	1.4 U D4	µg/Kg
Ethylbenzene	1.4 U D4	µg/Kg
m-Xylene & p-Xylene	2.0 U D4	µg/Kg
o-Xylene	**1.0** I D4	µg/Kg
1,3-Dichlorobenzene	1.0 U D4	µg/Kg
1,4-Dichlorobenzene	1.0 U D4	µg/Kg
1,2-Dichlorobenzene	1.0 U D4	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	86	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-13	Units
Hydrocarbons (C8-C40)	7.8 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	72	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D4 = Analyte value determined from a 1:1.25 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-13	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	39 U	µg/Kg
1-Methylnaphthalene	39 U	µg/Kg
2-Methylnaphthalene	39 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.9 U	µg/Kg
Phenanthrene	39 U	µg/Kg
Anthracene	7.8 U	µg/Kg
Fluoranthene	3.9 U	µg/Kg
Pyrene	3.9 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	3.9 U	µg/Kg
Benzo(b)fluoranthene	3.9 U	µg/Kg
Benzo(k)fluoranthene	3.9 U	µg/Kg
Benzo(a)pyrene	3.9 U	µg/Kg
Dibenzo(a,h)anthracene	3.9 U	µg/Kg
Benzo(g,h,i)perylene	3.9 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.9 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	101	39-141
Date Extracted	06/07/00	
Date Analyzed	06/10/00	

MISCELLANEOUS	METHOD	CS-13	Units
Percent Solids	SM2540G	85	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-9	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	102	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-9	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	132	59-132
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-9	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	107	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-9	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-9	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-9	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	90	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-10	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 I	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	68	37-161
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-10	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	95	59-132
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-10	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	86	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-10	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-10	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-10	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	90	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-11	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	90	37-161
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-11	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	109	59-132
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-11	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	108	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-11	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-11	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-11	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	59	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-12	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	69	37-161
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 602 - VOLATILE AROMATICS	TMW-12	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	97	59-132
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-12	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	107	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-12	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-12	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-12	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	68	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-13	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	91	37-161
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-13	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-13	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	105	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-13	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-13	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-13	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	85	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	89	28-165
Date Analyzed	06/04/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	90	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	99	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	99	37-161
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	76	37-161
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/07/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	80/ 83/ 77	48-130	4	20
Acenaphthene	91/ 95/ 86	36-127	4	17
Benzo(a)pyrene	91/ 93/ 79	64-141	2	22
Benzo(g,h,i)perylene	96/101/ 85	58-168	5	21
EPA Method 504				
Ethylene Dibromide	120/110/112	58-135	9	22
TOTAL METALS				
Lead, 200.7	105/104/106	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	81/ 81/ 79	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 84	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

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MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
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Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

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

PROJECT LOC.	Mayport Naval Station TANK # 203
PROJECT NO.	ERI #2339
P.O. NUMBER	
SAMPLER(s) NAME	Richard Moriarty
PHONE	(904) 241-2200
FAX	(904) 241-4732
CLIENT NAME	Environmental Recovery, Inc
CLIENT PROJECT MANAGER	Mr Chuck Nevin
CLIENT ADDRESS (CITY, STATE, ZIP)	251 Levy Road, Atlantic Beach, Florida 32233

MATRIX TYPE: SURFACE WATER, GROUND WATER, WASTEWATER, DRINKING WATER, SOIL/SOLID/SEDIMENT, NONAQUEOUS LIQUID (oil, solvent, etc.), AIR, SLUDGE, OTHER

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SOIL/SOLID/SEDIMENT	601/602 (VOC'S) HCL 2	8310 (PAH'S) UN 1	EDB UN 2	FL-PRO (TPH) H_2SO_4 2	LEAD HNO_3 1	8020 (BTEX+MTBE) UN 3	8310 (PAH) UN 1	FL-PRO (TPH) UN 1	REMARKS
#1	6/1/00	09:35	X		CS-9	X						X	X	X	Each Sample Kit consists of
#2	6/1/00	10:00	X		CS-10	X						X	X	X	Soil: 3x5gm Encore
#3	6/1/00	10:30	X		CS-11	X						X	X	X	1x 4oz Glass (unp)
#4	6/1/00	10:50	X		CS-12	X						X	X	X	
#5	6/1/00	12:55	X		CS-13	X						X	X	X	GW: 2x40ml vials (HCL) (VOC
															2x40ml vials (unp) (EDB)
#1	6/1/00	13:45	X		TMW-9	X	X	X	X	X	X				1x1000ml glass (unp) (PAH
#2	6/1/00	14:30	X		TMW-10	X	X	X	X	X	X				2x1000ml glass (H_2SO_4) (TPH
#3	6/1/00	15:05	X		TMW-11	X	X	X	X	X	X				1x500ml poly (HNO_3) (P
#4	6/1/00	15:45	X		TMW-12	X	X	X	X	X	X				
#5	6/1/00	16:20	X		TMW-13	X	X	X	X	X	X				Sample Containers Sealed in poly BAGS AND placed on wet KE - (RM)

	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
SAMPLE KIT PREPARED BY: JACKSONVILLE ☐ ORLANDO	5/30/00	0820	Sample Containers Hand Delivered From Enco JAX to ERI, Atlantic Beach in coolers with custody seals (RM)			Sample Containers Received From ERI by RM on 5/30/00 with custody intact - Richard Moriarty	5/30/00	0930
RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)		
RECEIVED BY: (SIGNATURE) Richard Moriarty	6/1/00	18:40	RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)		

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
[signature] ☐ Jacksonville ☐ Orlando	6/1/00	18:40	☒ YES ☐ NO	JAX11582	Samples Hand Delivered to Enco, JAX (RM) 6/1/00

ATTACHMENT B

Well Sampling Field Logs

esa Well Sampling Log

Date: 5/30/00 Time: 13:45 Project Number: ER1 #2339

Site Location: Transport Fuel Farm - Tank #203

Well I.D. TMW - P1 Depth of well (from TOC) 8.10 ft Depth to water 5.97 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft. 0.01 in. slotted screen Casing Material PVC

Well Volume 1.4 gal Well Vol= 2.13 /H x ____ /r² x 0.163= 0.34 gal/vol

H= 8.10 /TD - 5.97 /DTW= 2.13 ft

Well Type: ___upgradient ___downgradient ___ hot spot ____ other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump

Purge Start Time: 13:56 Purge rate: 0.2 gal/min.

Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.4					
2	.8					
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.31	606	25.4	415	

Purge Stop Time: 14:00

Sample Information: Total gallons purged: 2.2

Sample Collection Time: 14:10 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	6[illegible]	[illegible]	(metals)		
Sample Containers	[illegible]	[illegible]	2 [illegible]	[illegible]		
pH of Preserved Samples	[illegible]	[illegible]	[illegible]	[illegible]		
Additional Preservative						

Product noted: None Odor noted: None Color: mostly clear Turbidity: moderate

Comments:

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ____ 7.0 ____ 10.0 ____ Conductivity: ____ Time/Date: [illegible]

Ambient Conditions: [illegible]

Field Personnel (name/title): [illegible]

Sample delivered to laboratory by: [illegible]

esa Well Sampling Log

Date: 5/30/00 Time: 14:15 Project Number: ERI # 2339

Site Location: Mapport Fuel Farm - Tank #203

Well I.D. TMW-PZ Depth of well (from TOC) 10.50 ft Depth to water 8.37 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material pvc

Well Volume 0.45 (0.5) gal Well Vol= 2.13 /H × 1 /r² × 0.163= 0.45 gal/vol

H= 10.50 /TD - 8.37 /DTW= 2.13 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 14:39 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.5					
2	1.0					
3	1.5					
4	2.0					
5	2.5					
Field Parameters		7.75	249	25.6		

Purge Stop Time: 14:53 Total gallons purged: 2.5

Sample Information:

Sample Collection Time: 14:55 Sample Collected Using: Tail Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	EDB	610	Fl Pro	Metals	
Sample Containers	2x40ml Vials	2x40ml Vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: [illegible] Color: [illegible] Turbidity: [illegible]

Comments: [illegible] Turbid - [illegible]

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 conductivity [illegible] ATC [illegible]

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 447 ✓ Time/Date: 5/30/00

Ambient Conditions: Warm (50's)

Field Personnel (name/title): [illegible] / Emmanuel Sunshine

Sample delivered to laboratory by: _____

P-5

esa Well Sampling Log

Date: 5/30/00 Time: 15:15 Project Number: 2339

Site Location: Mayport Fuel Farm - Tank #230

Well I.D. MW-P3 Depth of well (from TOC) 7.60 ft Depth to water 5.66 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter ____ in. Well Construction ____ ft. ____ in. slotted screen Casing Material PVC

Well Volume 0.33 - 1.9 gal Well Vol= 1.94 /H × 1 /r² × 0.163 = 0.326 gal/vol

H= 7.60 /TD - 5.66 /DTW= 1.94 ft

Well Type: ____ upgradient ____ downgradient ____ hot spot ____ other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 1527 Well Recharge Rate: Slow

163 / 326

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8					
3	1.2		Purged well 5 Volumes			
4	1.6					
5	2.0					
Field Parameters		9.70	446	26.0		

Purge Stop Time: 15:47 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 15:50 Sample Collected Using: Teflon B.

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	EDB	610	Fl Pro	metals	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x1000ml poly	
pH of Preserved Samples	HCL	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Turbid, Cloudy w/ purging Mostly Clear Turbidity: Moderate

Comments:

Field Instrument Information:

Instruments Used: Drum #260 pH; #150 Conductivity w/ Drum Temp at 25°C

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 5.47 ✓ Time/Date: 5.30.00

Ambient Conditions: Warm (80°F) Partly Cloudy (Sunny)

Field Personnel (name/title): Robert Moment / Jay Newt

Sample delivered to laboratory by: [signature]

esa

Well Sampling Log

Date: 5/31/00 Time: 14:20 Project Number: #2339

Site Location: Playport Fuel Farm Tank #203

Well I.D. TMW-P4 Depth of well (from TOC) 7.51 ft Depth to water 5.68 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.32 (0.4) gal Well Vol= ____ /H × ____ /r² × 0.163= .32 gal/vol

H= 7.51 /TD - 5.68 /DTW= 1.83 ft

Well Type: ____upgradient ____downgradient ____ hot spot Temporary other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump

Purge Start Time: 14:25

Purge rate: 0.15 gal/min.

Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8					
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.43	488	25.9	14:45	

Purged well 5 volumes

Purge Stop Time: 14:30

Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 14:40

Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey Turbidity: Hi (clearing w/ purging)

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 447 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions:

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: [signature]

P-5

esa Well Sampling Log

Date: 5/31/00 Time: 15:00 Project Number: ERI # 2339

Site Location: Mayfair Fuel Farm Tank # 203

Well I.D. MW-P5 Depth of well (from TOC) 7.12 ft Depth to water 5.52 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction 5 ft. 0.010 in. slotted screen Casing Material PVC

Well Volume .025 gal Well Vol= _____ /H x _____ /r^2 x 0.163= .25 gal/vol

H= 7.12 /TD - 5.52 /DTW= 1.60 ft

Well Type: ___upgradient ___downgradient ___ hot spot Property ___ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 15:02 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.25					
2	0.5					
3	0.75					
4	1.0					
5	1.25					
Field Parameters		7.48	441	27.0	1524	

Purge Stop Time: 15:15 Total gallons purged: 1.5

Sample Information:

Sample Collection Time: 15:20 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	EPA	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO3	
Additional Preservative						

Product noted: None Odor noted: _____ Color: Grey Turbidity: Hi (cleared w/ purge)

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 1413 Time/Date: 5/31/00 14:15

Ambient Conditions: _____

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand Delivered

X-6

esa Well Sampling Log

Date: 5/31/00 Time: 15:40 Project Number: 7339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-P6 Depth of well (from TOC) 7.35 ft Depth to water 5.54 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material pvc

Well Volume 0.3 gal Well Vol= 1.81 /H × 1 /r² × 0.163= 0.3 gal/vol

H= 7.35 /TD - 5.54 /DTW= 1.81 ft

Well Type: ___upgradient ___downgradient ___ hot spot Temporary other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 1544 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6					
3	0.9					
4	1.2					
5	1.5					
Field Parameters		7.27	394	26.8	1604	

Purge Stop Time: 1558 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 16:00 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PH (8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Mostly Clear Turbidity: Low to moderate (Turning Gray w/ Sampling)

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 747 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions:

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: [signature]

1-1

esa Well Sampling Log

Date: 5/31/00 Time: 16:15 Project Number: 2339

Site Location: Mayfair Food Farm Tank # 203

Well I.D. TMW-P7 Depth of well (from TOC) 7.20 ft Depth to water 5.76 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.25 gal Well Vol= 1.44 /H × 1 /r² × 0.163= 0.23 gal/vol

H= 7.20 /TD - 5.76 /DTW= 1.44 ft

Well Type: ____upgradient ____downgradient ____ hot spot ~~Purgeable~~ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 15:20 Well Recharge Rate: Slow

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.25					
2	0.50		purged well 5 volumes			
3	0.75					
4	1.0					
5	1.25					
Field Parameters		7.47	498	26.4	16:45	

Purge Stop Time: 1635 Total gallons purged: 1.5

Sample Information:

Sample Collection Time: 16:40 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	EI Pb	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO3	
Additional Preservative						

Product noted: None Odor noted: None Color: Mostly Clear Turbidity: Moderate

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 1413 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions: _____

Field Personnel (name/title): Richard Mowday / Environmental Scientist

Sample delivered to laboratory by: Hand Delivered (RM)

9L40

esa Well Sampling Log

Date: 5/31/00 Time: 16:45 Project Number: # ERI 2339

Site Location: Maytag Fuel Farm Tank # 203

Well I.D. MW-P8 Depth of well (from TOC) 7.20 ft Depth to water 5.78 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material pvc

Well Volume 0.3 gal Well Vol= 1.42 /H x 1 /r^2 x 0.163= 0.3 gal/vol

H= 7.20 /TD - 5.78 /DTW= 1.42 ft

Well Type: ___upgradient ___downgradient ___ hot spot ~~Temporary~~ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 1652 Well Recharge Rate: Slow

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6					
3	0.9		Purged well 5 Volumes			
4	1.2					
5	1.5					
Field Parameters		7.48	488	76.6	17:18	

Purge Stop Time: 17:12 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 17:15 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	EPA	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VA	VA	H_2SO_4	HNO3	
Additional Preservative						

Product noted: No Odor noted: No Color: Grey (cleared up during purging) Turbidity: Hi

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: YSI ✓ Time/Date: _____

Ambient Conditions: _____

Field Personnel (name/title): Richard Mowery / Environmental Scientist

Sample delivered to laboratory by: Hand Delivered

TMW - 9 [illegible]

esa Well Sampling Log

Date: 6/1/00 Time: 13:20 Project Number: ERI #2379

Site Location: Mayport Fuel Farm Tank #203

Well I.D. TMW-9 Depth of well (from TOC) 7.67 ft Depth to water 5.29 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.4 gal Well Vol= 2.38 /H × 1 /r² × 0.163= 0.4 gal/vol

H= 7.67 /TD - 5.29 /DTW= 2.38 ft

Well Type: ___upgradient ___downgradient ___ hot spot Temporary other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 13:27 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8		Purged 5 Volumes			
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.23	566	27.1	13:50	

Purge Stop Time: 13:43 Total gallons purged: 2.2

Sample Information:

Sample Collection Time: 13:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PH (8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey, cleaning w/ purging Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 747 ✓ Time/Date: 6/1/00 1278

Ambient Conditions:

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand Delivered

TMW-10 (South) Cent

esa Well Sampling Log

Date: 6/01/00 Time: 13:05 Project Number: ERI #2339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-10 Depth of well (from TOC) 7.47 ft Depth to water 4.52 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.48 (4.5) gal Well Vol= 2.95 /H × 1 /r² × 0.163= .48 gal/vol

H= 7.47 /TD - 4.52 /DTW= 2.95 ft

Well Type: ___upgradient ___downgradient ___ hot spot Temporary other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 13:08 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.5					
2	1.0					
3	1.5					
4	2.0					
5	2.5					
Field Parameters		7.43	518	27.1	1434	

Purged well 5 volumes

Purge Stop Time: 14:26 Total gallons purged: 2.7

Sample Information:

Sample Collection Time: 14:30 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PH (8310)	Fl Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: ____ Color: Grey, Clearing w/ purges Turbidity: ____

Comments: ____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 7.47 ✓ Time/Date: 6/1/00 1218

Ambient Conditions: ____

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: [signature]

JMW-11 (East Center)

esa Well Sampling Log

Date: 6/1/00 Time: 14:40 Project Number: ERI #2339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. JMW-11 Depth of well (from TOC) 7.11 ft Depth to water 4.91 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume ↑0.4 gal Well Vol= ____ /H × ____ /r² × 0.163= 0.36 gal/vol

H= 7.11 /TD - 4.91 /DTW= ____ ft

Well Type: ____upgradient ____downgradient ____ hot spot Temporary other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 14:47 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8		purged well 5			
3	1.2		volumes			
4	1.6					
5	2.0					
Field Parameters		7.41	557	27.8		

Purge Stop Time: 15:02 Total gallons purged: 2.25

Sample Information:

Sample Collection Time: 15:05 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PH (8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey, clear w/ purge Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 447 ✓ Time/Date: 6/1/00 12:18

Ambient Conditions: Warm (85°F) Sunny, Clear Wind 5/10 NE

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: [signature]

TMW-12 (west)

esa **Well Sampling Log**

Date: 6/1/00 Time: 15:35 Project Number: ERI # 2379

Site Location: Munger

Well I.D. TMW-12 Depth of well (from TOC) 7.40 ft Depth to water 4.49 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction 5 ft. 10 in. slotted screen Casing Material PVC

Well Volume 9.5 gal Well Vol= 2.99 /H x 1 /r² x 0.163= 0.49 gal/vol

H= 7.40 /TD - 4.49 /DTW= 2.99 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 15:12 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.5					
2	1.0					
3	1.5		Purge Until 5 Volumes			
4	2.0					
↓	2.1					
Field Parameters		7.46	561	23.0	1550	

Purge Stop Time: 1547 Total gallons purged: 2.6

Sample Information:

Sample Collection Time: 15:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	B310	F/Pro	Lead	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey (Cleared during Purging) Turbidity: Hi

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH, #130 Conductivity w/ ATC + Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 _____ Conductivity: 447 ✓ Time/Date: 6/1/00 17:18

Ambient Conditions: Warm (85°F) Sunny, Clear Wind 5-10 NE

Field Personnel (name/title): Richard Munday Environmental Scientist

Sample delivered to laboratory by: Hand Delivered

CENTER

esa Well Sampling Log

Date: 6/1/00 Time: 1555 Project Number: ERI # 2359

Site Location: Mayport Naval Station Fuel Farm

Well I.D. TMW-13 Depth of well (from TOC) 7.40 ft Depth to water 4.9 ft

Relative to Mean Sea Level: Top of Casing (TOC) ____ ft Static Water Level ____ ft

Well Diameter 2 in. Well Construction 5 ft. 0.010 in. slotted screen Casing Material pvc

Well Volume 0.4 gal Well Vol= 2.4 /H × 1 /r² × 0.163= 0.39 gal/vol

H= 7.40 /TD - 4.99 /DTW= 2.41 ft

Well Type: ___upgradient ___downgradient ___ hot spot ____ other

Longitude ____ Latitude ____

Purge Information: Stabilizing 1.47

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 16:00 Well Recharge Rate: moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.4					
2	0.8					
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.45	553	26.4		

Purged well 5 volumes

Purge Stop Time: 16:15 Total gallons purged: 2.2

Sample Information:

Sample Collection Time: 1620 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	8310	A Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey, Clearing w/ purging Turbidity: Moderate

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 conductivity w/ ATC + Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 447 ✓ Time/Date: 6/1/00 12:18

Ambient Conditions: WARM (85°F) Sunny, Clear, WIND 5-10 NE

Field Personnel (name/title): Richard Moriarty - Environmental Scientist

Jay Nevin - Environmental Technician

Sample delivered to laboratory by: Hans Delany

LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 204
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

11200-1 St. Johns Industrial Parkway • Jacksonville, Florida 32246 • 904/565-2820 • FAX 904/565-2830
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e-mail www.aerostar.net

LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 204
RELIABLE MECHANICAL JOB
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

PREPARED FOR:

Environmental Recovery Group, Inc.
251 Levy Road
Atlantic Beach, Florida 32233-0569
ERG Job Number 3369

PREPARED BY:

Aerostar Environmental Services, Inc.
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RECEIVED
JAN 0 8 2002
BY:

Richard D. McCann, Project Manager — 10/10/01 Date

Leon J. Carrero, P.G.; Manager, Environmental Services — 10/16/01 Date

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APPENDIX B	Storage Tank Facility Registration Form
APPENDIX C	Photographic Documentation
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1.0 INTRODUCTION

Aerostar Environmental Services, Inc. (AEROSTAR) provided environmental services during closure of an aboveground storage tank (AST) system (hereafter referred to as Tank #204), located at the Mayport Naval Station, Mayport, Duval County, Florida, Florida Department of Environmental Protection (FDEP) facility ID #168626008; hereafter referred to as the site. According to Navy records, the AST was used to store diesel fuel. A topographic map showing the location of the site is included as Figure 1. Demolition and AST closure activities were conducted by Realco Wrecking and Recycling under the management of Reliable Mechanical, Inc. (RMI) of Louisville, Kentucky. Environmental assessment activities were conducted by AEROSTAR personnel in accordance with the guidelines established in the Storage Tank System Closure Assessment Requirements and following closure specifications provided by RMI. Based on the results of this investigation, further assessment is recommended for the area of the former AST system. The following sections present the AST system location and description, closure procedures and results of the environmental monitoring activities.

2.0 STORAGE TANK REMOVAL PROCEDURES

The former AST system was located approximately 350 feet south of the St. Johns River on the Mayport Naval Station, and consisted of a 1.5 million gallon steel tank containing diesel fuel. The AST was constructed of welded steel sheets and placed on a one-foot thick round concrete pad, approximately 100 feet in diameter. Information obtained by AEROSTAR from the Navy indicated that the AST was installed in 1964. A site plan showing the location of the former AST system is included as Figure 2.

The AST system was removed between August 14 and August15, 2001 by Realco Recycling and Wrecking Company, a subcontractor to RMI. Prior to demolition, the remaining contents of Tank #204 were transferred to another tank located at the site. The interior of the tank was cleaned by Environmental Recovery Group, Inc. (ERG). The rinse water was transported by ERG to Waste Recovery, Incorporated (WRI) in Jacksonville, Florida for proper disposal. The steel roof and walls of the tank were demolished and properly disposed of, leaving only the steel tank bottom (approximately 0.5-inches thick) and the one-foot thick concrete pad. Copies of the Limited Closure

Summary Report and the Storage Tank Facility Registration Form are included in Appendices A and B, respectively. Photographic documentation of the site conditions during soil and groundwater sampling activities is included in Appendix C.

3.0 ENVIRONMENTAL MONITORING ACTIVITIES

On August 16 and August 17, 2001, soil borings PB-1 through PB-8 were advanced around the perimeter of the former AST. On August 17, 2001, additional soil borings TB-1 through TB-5 were advanced through the concrete pad to further evaluate soil quality. Soil samples were collected during boring advancement at one-foot intervals from approximately one foot below land surface (BLS) to approximately four feet BLS using a three-inch diameter, stainless steel hand auger. The soil samples from the perimeter borings PB-1 through PB-8 were screened with a calibrated portable Heath Tech Porta-FID III™ Organic Vapor Analyzer with a Flame Ionization Detector (OVA-FID). Each sample was also screened with a charcoal filter to differentiate the instrument's response to naturally occurring methane vapors. The difference between the readings is the vapor concentration attributed to petroleum hydrocarbons. In addition to the OVA-FID screening, each sample was inspected for signs of hydrocarbon staining and unusual odors. All soil samples collected from the tank bottom borings TB-1 through TB-5 were saturated and therefore were not field screened for organic vapors. Soil sample collection and screening activities were conducted in accordance with AEROSTAR's FDEP-approved Comprehensive Quality Assurance Project Plan (ComQAPP) #940023G.

Hydrocarbon vapors were detected above the State target level of 10 parts per million (ppm), established as a "positive field screening result" in Chapter 62-770, Florida Administrative Code (FAC). Maximum vapor concentrations detected in soil samples collected from the vadose zone ranged from 12 ppm to 1660 ppm. Results of the soil vapor screening are included in Table 1. The soil sample locations are shown in Figure 2.

Soil samples exhibiting the highest OVA responses from each borehole were collected for laboratory analyses. A soil sample was collected for laboratory analyses from each boring location with no "positive field screening result." The sample was collected approximately one foot above the static

water table. The samples were submitted to Environmental Conservation Laboratories, Inc. (Enco) in Jacksonville, Florida for analyses of the parameters listed in EPA Method 8260 for Volatile Organic Aromatics (VOAs), EPA Method 8310 for Polynuclear Aromatic Hydrocarbons (PAHs), and Total Recoverable Petroleum Hydrocarbons (TRPHs) by the FL-PRO Method. Soil sampling activities were conducted in accordance with AEROSTAR's FDEP-approved ComQAPP #940023G.

Results of the soil laboratory analyses indicated TRPH concentrations above State Cleanup Target Levels (SCTLs) in soil samples collected from the area of the former AST. Soil analytical results are summarized in Table 2. The laboratory analytical reports are included in Appendix D.

On August 16 and August 17, 2001, thirteen temporary wells (PB-1 through PB-8 and TB-1 through TB-5) were installed at the locations of the soil borings, as shown in Figure 2. The temporary wells were installed approximately eight feet BLS using a three-inch diameter, stainless steel hand auger. The water table surface was encountered at approximately 4.5 feet BLS during the assessment activities. The temporary well construction details are summarized in Table 3.

Groundwater samples were collected from the temporary wells for analyses of the parameters listed in EPA Method 601 for Volatile Organic Hydrocarbons (VOHs), EPA Method 602 for VOAs, EPA Method 610 for PAHs, EPA Method 504 for Ethylene Dibromide, TRPH by the FL-PRO Method, and EPA Method 200.7 for Total Lead by the quiescent sampling method using an adjustable-flow peristaltic pump to minimize sample turbidity. The remaining samples were collected using disposable bailers after purging each well of five well volumes to ensure representative samples of actual aquifer conditions. Groundwater sampling activities were conducted in accordance with AEROSTAR's FDEP-approved ComQAPP #940023G.

Results of the groundwater analyses showed hydrocarbons concentrations above SCTLs in the samples collected in the area of the AST. Groundwater analytical results with corresponding State target levels are summarized in Table 4. Laboratory analytical reports are included in Appendix D.

4.0 RECOMMENDATIONS

Hydrocarbon concentrations were detected above the State target levels established in Chapter 62-777, FAC, in the groundwater and soil samples collected for this investigation. Based on the results of the tank closure, further assessment activities are recommended for the area of the former AST.

TABLES

TABLE 1: SOIL SCREENING SUMMARY

Facility Name: Mayport AST Closure /Tank #204 **Facility ID No: 168626008**

SAMPLE				OVA SCREENING RESULTS			
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
TB-1	8/17/01	~0.5	1	NS	NS	NS	TB-1 = Tank Bottom Sampling Location 1
			2	NS	NS	NS	
			3	NS	NS	NS	
TB-2	8/17/01	~0.5	1	NS	NS	NS	Concrete Bottom ~16-in. Thick
			2	NS	NS	NS	
			3	NS	NS	NS	
TB-3	8/17/01	~0.5	1	NS	NS	NS	Concrete Bottom ~16-in. Thick
			2	NS	NS	NS	
			3	NS	NS	NS	
TB-4	8/17/01	~0.5	1	NS	NS	NS	Concrete Bottom ~16-in. Thick
			2	NS	NS	NS	
			3	NS	NS	NS	
TB-5	8/17/01	~0.5	1	NS	NS	NS	Concrete Bottom ~16-in. Thick
			2	NS	NS	NS	
			3	NS	NS	NS	
PB-1	8/16/01	~4.5	1	3	0	3	PB-1 = Perimeter Boring 1
			2	12	0	12	
			3	0	0	0	
			4	0	0	0	
PB-2	8/16/01	~4.5	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
PB-3	8/16/01	~4.5	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	0	0	0	
PB-4	8/16/01	~4.5	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
			4	2000	340	1660	
PB-5	8/16/01	~4.0	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
PB-6	8/17/01	~4.0	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
PB-7	8/17/01	~3.0	1	0	0	0	
			2	0	0	0	
			3	0	0	0	
PB-8	8/17/01	~3.0	1	0	0	0	
			2	0	0	0	
			3	0	0	0	

NS = Not Screened-All samples were saturated

TABLE 2: SOIL ANALYTICAL SUMMARY

Facility Name: Mayport Tank Closure/Tank #204 **Facility ID Number: 168626008**

Sample				OVA										
Sample ID	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naph-thalene (mg/kg)	1-Methyl-napthalene (mg/kg)	2-Methyl-napthalene (mg/kg)	TRPH (mg/kg)
Residenital Direct Exposure Limits					1.1	380	1100	5900	3200	40	68	80	340
Commercial Direct Exposure Limits					1.6	2600	8400	40000	22000	270	470	560	2500
Leachability Groundwater Limits					0.007	0.5	0.6	0.2	0.2	1.7	2.2	6.1	340
TB-1	8/17/01	~0.5	3	NS	<0.0011	<0.0011	<0.0011	0.001	<0.0011	<0.020	<0.040	<0.040	<8.0
TB-2	8/17/01	~0.5	2.5	NS	<0.001	0.0015	<0.001	0.0022	<0.001	<0.021	<0.041	<0.041	<8.2
TB-3	8/17/01	~0.5	3.5	NS	<0.0012	0.002	<0.001	0.0018	<0.001	<0.020	<0.040	<0.040	<8.0
TB-4	8/17/01	~0.5	3	NS	<0.0012	0.0056	0.0021	0.0129	<0.001	<0.020	<0.041	<0.041	<8.1
TB-5	8/17/01	~0.5	2.5	NS	<0.0012	<0.001	<0.001	0.001	<0.001	<0.020	<0.041	<0.041	<8.1
PB-1	8/16/01	~4.5	2	12	<0.0013	<0.0013	<0.0013	<0.0037	<0.0013	<0.019	<0.038	<0.038	<7.6
PB-2	8/16/01	~4.5	4	0	<0.0015	<0.0015	<0.0015	<0.0046	<0.0015	<0.022	<0.044	<0.044	<8.8
PB-3	8/16/01	~4.5	4	0	<0.0014	<0.0014	<0.0014	<0.0042	<0.0014	<0.021	<0.042	<0.042	**350**
PB-4	8/16/01	~4.5	4	1660	<0.13	<0.13	<0.13	<0.39	<0.13	<0.21	<0.43	<0.43	**5200**
PB-5	8/16/01	~4.0	3	0	<0.0014	<0.0014	<0.0014	<0.0041	<0.0014	<0.021	<0.042	<0.042	14
PB-6	8/17/01	~4.0	3	0	<0.0013	<0.0013	<0.0013	0.0014	<0.0013	<0.020	<0.039	<0.039	<7.8
PB-7	8/17/01	~3.0	2	0	<0.002	<0.002	<0.002	0.0017	<0.002	<0.025	<0.051	<0.051	<10
PB-8	8/17/01	~3.0	2	0	<0.001	<0.001	<0.001	0.0012	<0.001	<0.018	<0.036	<0.036	<7.2

NS = Not Screened-All samples were saturated

TABLE 2: SOIL ANALYTICAL SUMMARY

Facility Name: Mayport Tank Closure/Tank #204 **Facility ID Number: 168626008**

Sample				OVA															
Sample ID	Date Collected	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluor-anthene (mg/kg)	Pyrene (mg/kg)	Benzo (a)-anthracene (mg/kg)	Chrysene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a)-pyrere (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Benzo(g,h,I,)-perylene (mg/kg)	Ideno(1,2,3-cc)-pyrene (mg/kg)
Direct Exposure Limits					1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	0.1	2300	1.5
Direct Exposure Limits					18000	28000	30000	260000	48000	37000	5	450	4.8	52	0.5	0.5	41000	5.3
Groundwater Limits					2.1	160	250	2500	1200	880	32	77	10	25	8	30	32000	28
TB-1	8/17/01	~0.5	3	NS	<0.020	<0.004	<0.040	<0.020	<0.004	<0.004	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
TB-2	8/17/01	~0.5	2.5	NS	<0.021	<0.0041	<0.041	<0.021	<0.0041	<0.0041	<0.021	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
TB-3	8/17/01	~0.5	3.5	NS	<0.020	<0.004	<0.040	<0.020	0.008	0.0099	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
TB-4	8/17/01	~0.5	3	NS	<0.020	<0.0041	<0.041	<0.020	<0.0041	<0.0041	<0.020	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
TB-5	8/17/01	~0.5	2.5	NS	<0.020	<0.0041	<0.041	<0.020	<0.0041	<0.0041	<0.020	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
PB-1	8/16/01	~4.5	2	12	0.097	<0.0038	0.2	<0.019	0.42	0.43	0.16	0.15	0.056	0.04	0.052	0.017	0.02	0.038
PB-2	8/16/01	~4.5	4	0	<0.022	<0.0044	<0.044	<0.022	0.074	0.084	0.039	0.04	0.017	0.011	0.014	0.0047	0.0056	0.029
PB-3	8/16/01	~4.5	4	0	<0.021	<0.0042	<0.042	<0.021	0.023	0.042	<0.021	0.01	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
PB-4	8/16/01	~4.5	4	1660	<0.21	0.043	<0.43	<0.21	0.058	0.093	<0.21	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
PB-5	8/16/01	~4.0	3	0	0.31	<0.0042	0.76	<0.021	1.2	1.3	0.49	0.46	0.16	0.12	0.17	0.049	0.059	0.11
PB-6	8/17/01	~4.0	3	0	<0.020	<0.0039	<0.039	<0.020	0.012	0.015	<0.020	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039
PB-7	8/17/01	~3.0	2	0	<0.025	<0.0051	<0.051	<0.025	0.0069	0.0078	<0.025	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
PB-8	8/17/01	~3.0	2	0	<0.018	<0.0036	<0.036	<0.018	<0.013	<0.016	<0.018	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036

NS = Not Screened-All samples were saturated

TABLE 3: TEMPORARY WELL CONSTRUCTION DETAILS

Facility Name: Mayport Tank Closure/Tank #204 Facility ID No: 168626008

WELL NO.	DATE INSTALLED	INSTALLATION METHOD	TOP OF CASING ELEVATION	A/G RISER LENGTH, IF APPLICABLE	TOTAL WELL DEPTH (FEET)	SCREENED INTERVAL (FBLS)	WELL DIAMETER (IN.)	LITHOLOGY OF SCREENED INTERVAL
TB-1	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
TB-2	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
TB-3	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
TB-4	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
TB-5	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-1	8/16/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-2	8/16/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-3	8/16/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-4	8/16/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-5	8/16/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-6	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-7	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments
PB-8	8/17/01	HAND AUGER	NA	NA	~8	0-8	2	light tan-gray, sand with trace shell fragments

TABLE 4: GROUNDWATER LABORATORY ANALYTICAL SUMMARY

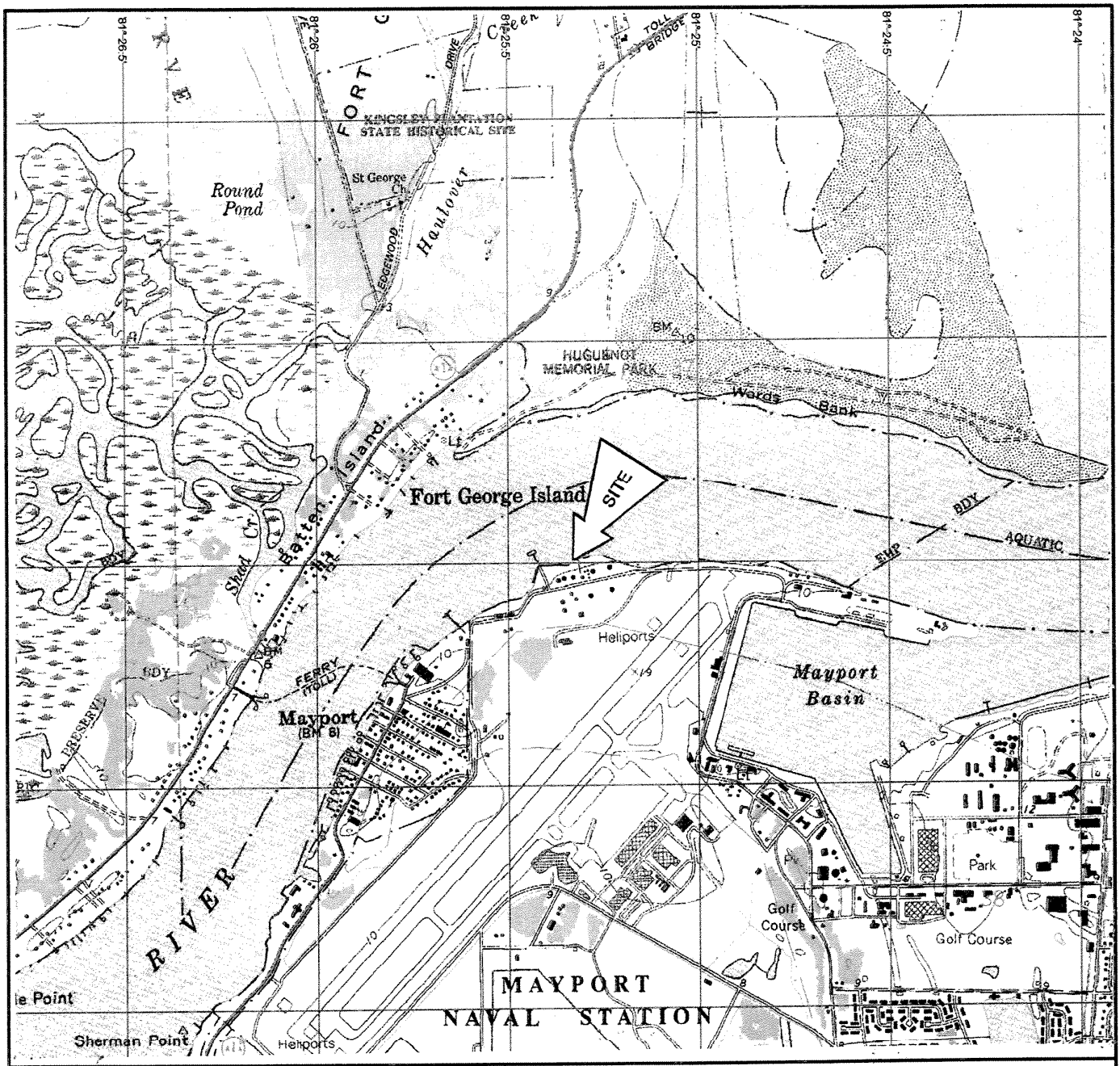
Facility Name: Mayport Tank Closure/Tank #204

Facility ID No: 168626008

Not Analyzed = NA
All results in micrograms per liter (ug/L)

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1-Methyl napthalene	2-Methyl napthalene	Chloro-methane	Acenaph-thene	Fluorene	Fluor-anthene	Pyrene	Benzo(a)-anthracene	Chrysene	Lead	EDB	TRPH mg/L
SCTL		1	40	30	20	50	20	20	20	2.7	20	280	280	210	0.2	4.8	15	0.02	5000
TB-1	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	3.1	3.9	3.8	<1.0	<0.50	<0.10	0.94	1.1	<0.10	<0.10	<5.0	<0.020	1.2
TB-2	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	1.2	<1.0	<1.0	<1.0	<0.50	1.2	1.7	1.6	<0.10	<0.10	<5.0	<0.020	0.87
TB-3	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	2.5	2.7	**0.64**	0.76	<5.0	<0.020	1.1
TB-4	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	**3.8**	<0.50	<0.10	2.4	2.3	**0.30**	0.33	6.0	<0.020	1.2
TB-5	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	**6.1**	<0.50	<0.10	2.1	1.9	**0.26**	0.28	8.0	<0.020	0.91
PB-1	08/16/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	**4.7**	<0.50	<0.10	0.95	0.69	<0.10	<0.10	<5.0	<0.020	0.69
PB-2	08/16/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	0.14	0.35	<0.10	<0.10	<5.0	<0.020	<0.20
PB-3	08/16/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	0.17	0.57	<0.10	<0.10	<5.0	<0.020	0.28
PB-4	08/16/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	0.46	1.1	<0.10	<0.10	<5.0	<0.020	7.7
PB-5	08/16/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	<0.10	0.21	<0.10	<0.10	<5.0	<0.020	<0.20
PB-6	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	<0.10	0.26	<0.10	<0.10	<5.0	<0.020	<0.20
PB-7	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	0.51	<0.10	0.83	1.3	<0.10	<0.10	<5.0	<0.020	3.3
PB-8	08/17/01	<1.0	<1.0	<1.0	<2.0	<2.0	<0.50	<1.0	<1.0	<1.0	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<5.0	<0.020	<0.20

FIGURES



MAYPORT QUADRANGLE

30081-B5-TF-024

PHOTOREVISED 1982

DMA 4744 IV NW-SERIES V847

7.5 MINUTE SERIES
(TOPOGRAPHIC)

CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

SCALE:
1:24,000

NATIONAL GEODETIC VERTICAL DATUM OF 1929

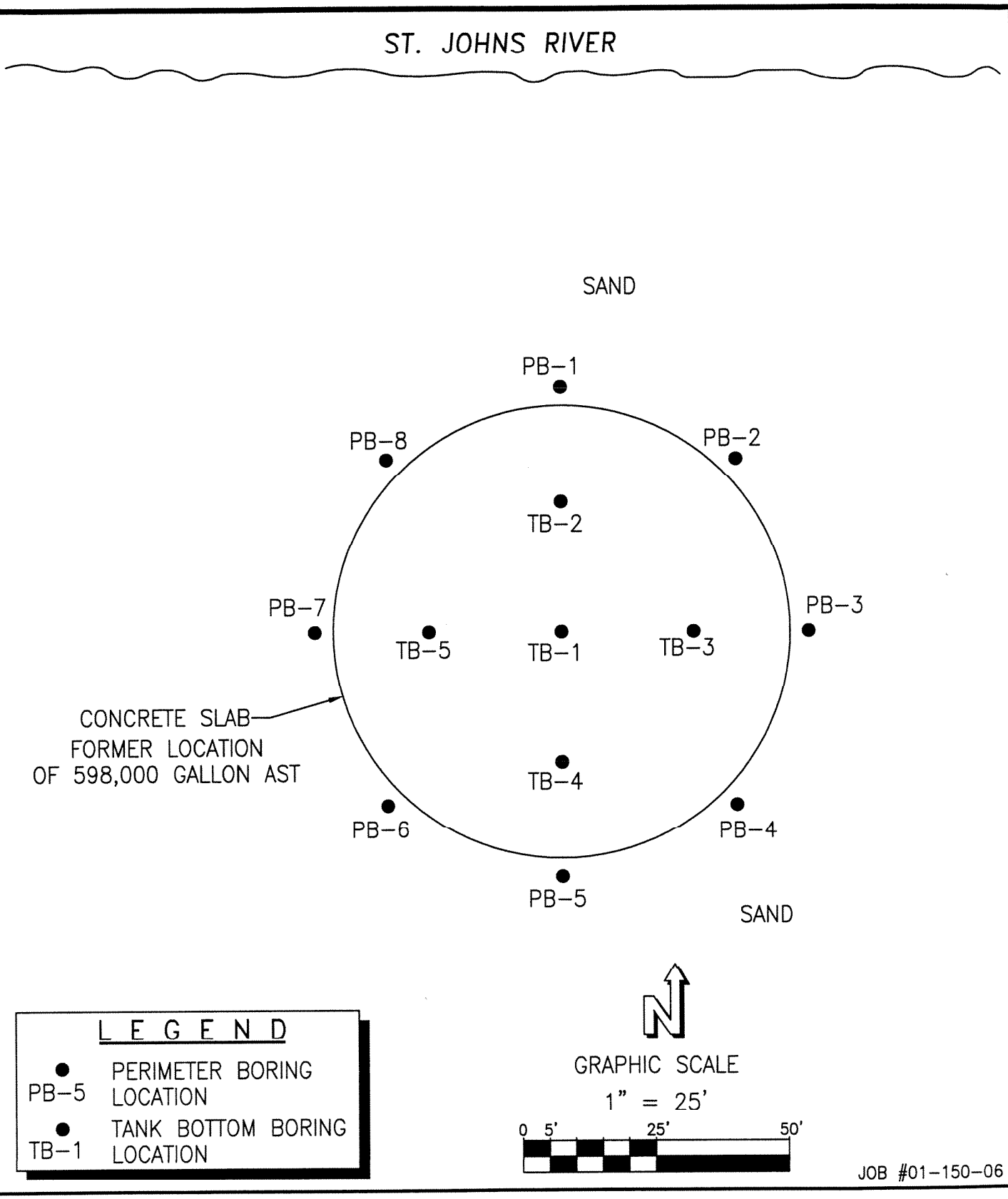
FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

MAYPORT TANK CLOSURE/TANK #204
MAYPORT NAVAL STATION

DRAWN BY: JJR

REFERENCE: MAP OF MAYPORT, FLORIDA
PREPARED BY: U. S. GEOLOGICAL SURVEY



JOB #01–150–06

FIGURE 2. SITE PLAN & SAMPLING LOCATIONS

AEROSTAR ENVIRONMENTAL SERVICES, INC.

MAYPORT AST CLOSURE/TANK #204
MAYPORT NAVAL AIR STATION
JACKSONVILLE, FLORIDA

DRAWN BY: KJS

DATE: 10/8/01

APPENDIX A
LIMITED CLOSURE SUMMARY REPORT

Department of Environmental Protection

1 Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report
Effective Date: July 13, 1998

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date: 08/17/01	FDEP Facility ID Number: 168626008	County: DUVAL
Facility Name MAYPORT NAVAL STATION		Facility Telephone #: ( )
Facility Address:		
Owner or Operator Name:		Owner/Operator phone #: ( )
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

☑ Aboveground	☐ Underground

2. General System Information

Types of Products Stored: Diesel Fuel	Number of Tanks: ONE (1)	Age(s) of Tanks: ~40 yrs.

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

☑ Tank Systems Removal?	☐ Spill Containment Installation?	☐ Change in Storage to a Non-Regulated Substance?
☐ Tank Systems Closed in Place?	☐ Dispenser Liners Installation?	☐ Release Prevention Barrier Installation?
☐ Piping Sump Installation?	☐ Secondary Containment Installation?	☐ Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	☐ Yes	☑ No
1. A Discharge Report Form submitted to the County?	☐ Yes	☐ No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	☐ Yes	☐ No
b. Is the depth to groundwater less than 20 feet?	☑ Yes	☐ No
c. Are there monitoring wells on site? If yes, were they	☐ Yes	☑ No
1. Groundwater monitoring wells?	☐ Yes	☐ No
2. Vapor monitoring wells?	☐ Yes	☐ No
3. Used for closure assessment sampling?	☐ Yes	☐ No
4. Properly closed?	☐ Yes	☐ No
5. Retained for site assessment purposes?	☐ Yes	☐ No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	☐ Yes	☐ No

Signature of owner or operator

Richard D. McCann
Signature of person performing Limited Closure Assessment

Richard D. McCann
Name of person performing Limited Closure Assessment

(date) _____ (date) 8/17/01 Affiliation Aerostar Env. Svcs, Inc.

APPENDIX B
STORAGE TANK FACILITY REGISTRATION FORM

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

Storage Tank Facility Registration Form

DEP Form # 62-761.900(2)
Form Title Storage Tank Registration Form
Effective Date: July 13, 1998
DEP Application No. _____ (Filled in by DEP)

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[✓] Tank Info Update/Correction

A. FACILITY INFORMATION

County: DUVAL	**DEP Facility ID:**	**168626008**

Facility Name: MAYPORT NAVAL STATION
Facility Address: _____ City: Jacksonville Zip: _____
Facility Contact: _____ Business Phone: (____)___
Facility Type(s): _____ NAICS Code: _____ Financial Responsibility: _____

24 Hour Emergency Contact: _____ **Emergency Phone:(____)___**

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name:	Facility - Responsible Person Relation Type:	Effective Date
Mail address:	[√] **Facility Account Owner (pays fees)**	
City, ST, Zip:	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact:		
Telephone:	**STCM Account Number (if known)**	
Identify other appropriate facility relationships for this party: [ ] Facility Owner/Operator [ ] Property Owner [ ] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
1	T	A	1.5 m gal	1964	D	B	08/01	C		

Certified Contractor (performing tank installation or removal): _____ DBPR License No.: _____

Registration Certification: **To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.**

Printed Name & Title **Signature** **Date**

Northwest District
160 Governmental Center Blvd.
Pensacola, FL 32501
850-595-8360

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803
407-894-7555

Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

Southeast District
400 North Congress Ave.,
W Palm Beach, FL 33416
561-681-6600

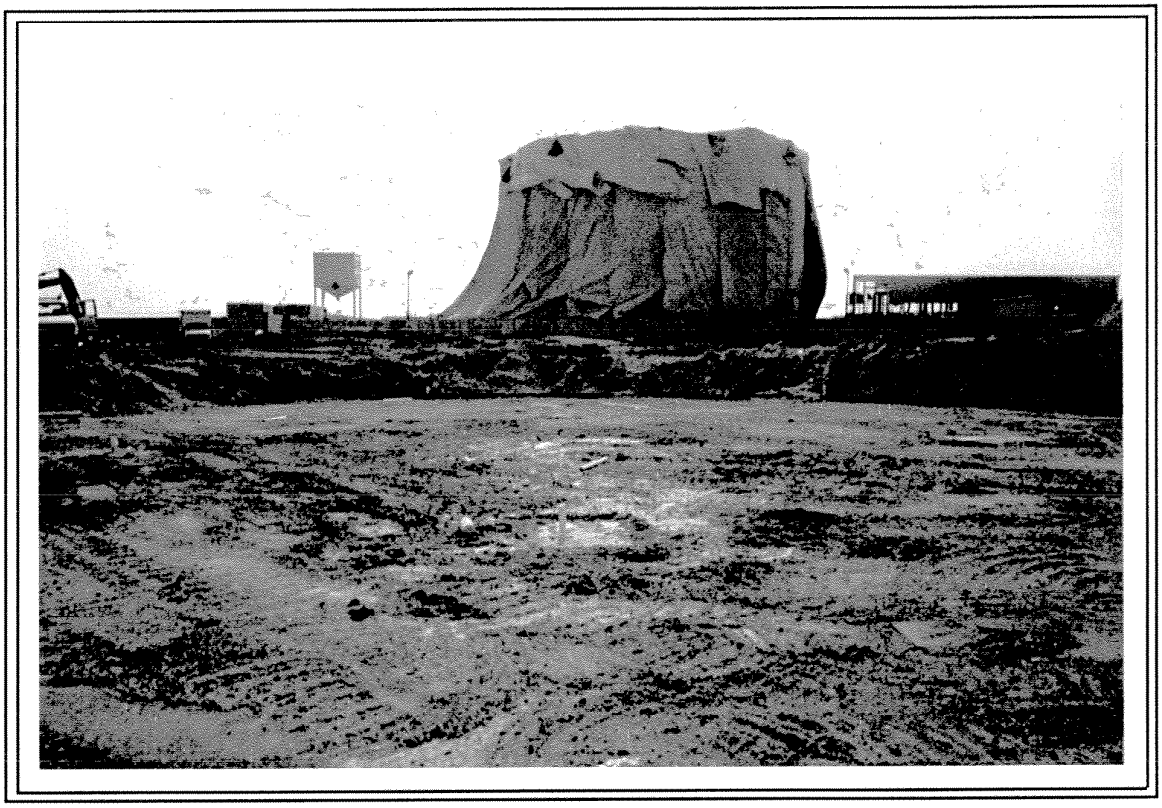
South District
2295 Victoria Ave., Suite 364
Fort Myers, FL 33901
941-332-6975

Marathon Branch Office
2796 Overseas Hwy., Suite 221
Marathon, FL 33050
305-289-2310

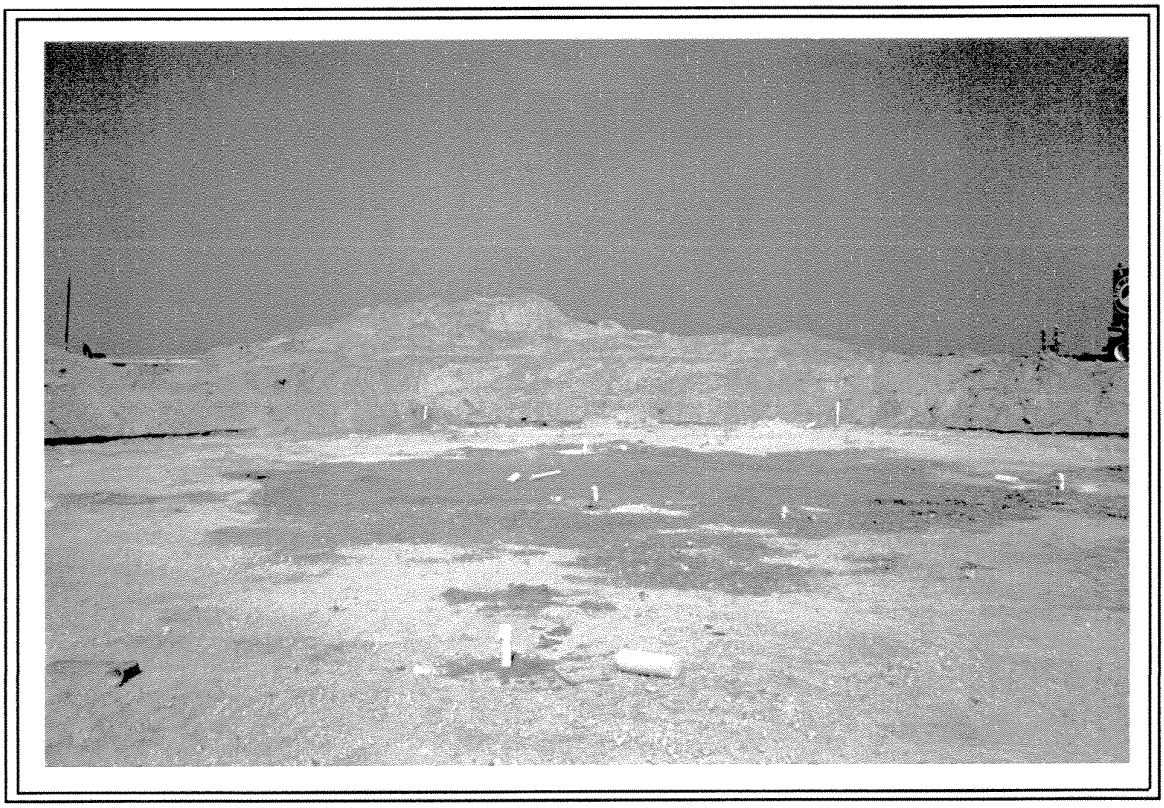
APPENDIX C
PHOTOGRAPHIC DOCUMENTATION

1) View facing north across the bottom of former Tank #204, St. Johns River in the background.

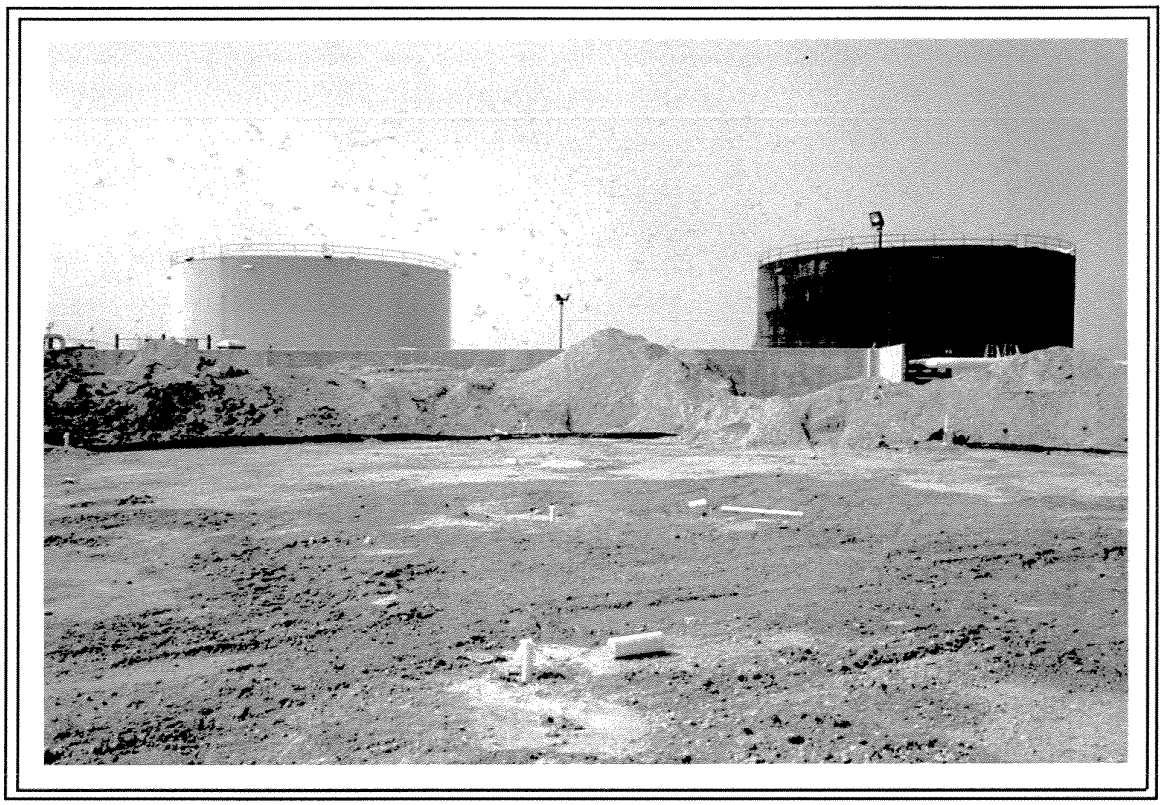
2) View facing west across the bottom former Tank #204, new tank and St. Johns River in the background.



3) View facing south with new tank construction in the background.



4) View facing east across bottom of former Tank #204.



5) View facing northwest at soil/groundwater sampling locations in the former tank bottom and northwestern perimeter.

6) View facing southeast at soil/groundwater sampling locations in the former tank bottom and southeastern perimeter.

APPENDIX D
LABORATORY ANALYTICAL REPORTS

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX19195
DATE SUBMITTED: August 21, 2001
DATE REPORTED : August 30, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

08/20/01

#1 - PB4 @ 10:10
#2 - PB6 @ 10:35
#3 - PB5 @ 11:00
#4 - PB7 @ 11:20
#5 - PB8 @ 11:35
#6 - TB1 @ 13:20
#7 - TB2 @ 14:00
#8 - TB3 @ 14:45
#9 - TB4 @ 15:00
#10 - TB5 @ 13:40

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**PB4**	**PB6**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	57	56	37-161
Date Analyzed	08/24/01 16:44	08/24/01 17:45	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB4**	**PB6**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	117	52-147
Date Analyzed	08/24/01 16:44	08/24/01 17:45	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB4**	**PB6**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**0.46**	0.10 U	µg/L
Pyrene	**1.1**	**0.26**	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	77	77	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 11:12	08/27/01 12:04	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB4**	**PB6**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 12:40	08/24/01 12:58	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB4	PB6	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/26/01 10:34	08/26/01 10:42	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB4	PB6	Units
Hydrocarbons (C8-C40)	**7.7**	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	84	86	65-140
Date Prepared	08/24/01 11:30	08/22/01 10:00	
Date Analyzed	08/29/01 13:02	08/23/01 13:43	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**PB5**	**PB7**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	58	56	37-161
Date Analyzed	08/24/01 18:47	08/24/01 19:47	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB5**	**PB7**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	117	118	52-147
Date Analyzed	08/24/01 18:47	08/24/01 19:47	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB5**	**PB7**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	**0.51**	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.10 U	**0.83**	µg/L
Pyrene	**0.21**	**1.3**	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	82	83	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 15:31	08/27/01 16:22	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB5**	**PB7**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 13:16	08/24/01 13:43	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB5	PB7	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/26/01 10:50	08/26/01 10:59	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB5	PB7	Units
Hydrocarbons (C8-C40)	0.20 U	**3.3**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	97	78	65-140
Date Prepared	08/22/01 10:00	08/24/01 12:00	
Date Analyzed	08/23/01 14:23	08/29/01 13:43	

U = Compound was analyzed for but not detected to the level shown.

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PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**PB8**	**TB1**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	61	58	37-161
Date Analyzed	08/24/01 20:46	08/24/01 21:45	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**PB8**	**TB1**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	121	116	52-147
Date Analyzed	08/24/01 20:46	08/24/01 21:45	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**PB8**	**TB1**	**Units**
Naphthalene	0.50 U	**3.1**	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	**3.9**	µg/L
2-Methylnaphthalene	1.0 U	**3.8**	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.10 U	**0.94**	µg/L
Pyrene	0.10 U	**1.1**	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	84	75	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 17:14	08/27/01 18:06	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**PB8**	**TB1**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 14:19	08/24/01 14:37	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB8	TB1	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/26/01 11:07	08/26/01 11:15	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB8	TB1	Units
Hydrocarbons (C8-C40)	0.20 U	**1.2**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	97	97	65-140
Date Prepared	08/24/01 12:00	08/24/01 12:00	
Date Analyzed	08/29/01 14:24	08/29/01 15:05	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**TB2**	**TB3**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2 Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	53	62	37-161
Date Analyzed	08/24/01 22:43	08/24/01 23:41	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB2**	**TB3**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	117	52-147
Date Analyzed	08/24/01 22:43	08/24/01 23:41	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB2**	**TB3**	**Units**
Naphthalene	**1.2**	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	**1.2**	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**1.7**	**2.5**	µg/L
Pyrene	**1.6**	**2.7**	µg/L
Benzo(a)anthracene	0.10 U	**0.64**	µg/L
Chrysene	0.10 U	**0.76**	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	74	73	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 18:57	08/27/01 19:49	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**TB2**	**TB3**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 14:55	08/24/01 15:14	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TB2	TB3	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/26/01 11:24	08/26/01 11:49	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB2	TB3	Units
Hydrocarbons (C8-C40)	**0.87**	**1.1**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	99	113	65-140
Date Prepared	08/24/01 12:00	08/24/01 12:00	
Date Analyzed	08/29/01 15:46	08/29/01 17:09	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**TB4**	**TB5**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	**3.8**	**6.1**	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c 1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	57	56	37-161
Date Analyzed	08/25/01 04:29	08/25/01 05:26	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB4**	**TB5**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	129	118	52-147
Date Analyzed	08/25/01 04:29	08/25/01 05:26	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**TB4**	**TB5**	**Units**
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	**2.3**	**1.6**	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	**2.4**	**2.1**	µg/L
Pyrene	**2.3**	**1.9**	µg/L
Benzo(a)anthracene	**0.30**	**0.26**	µg/L
Chrysene	**0.33**	**0.28**	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	91	103	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 20:41	08/27/01 21:32	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**TB4**	**TB5**	**Units**
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 15:32	08/24/01 15:50	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TB4	TB5	Units
Lead	200.7	**0.0060** I	**0.0080** I	mg/L
Date Analyzed		08/26/01 11:57	08/26/01 12:05	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB4	TB5	Units
Hydrocarbons (C8-C40)	**1.2**	**0.91**	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	104	96	65-140
Date Prepared	08/24/01 12:00	08/24/01 12:00	
Date Analyzed	08/29/01 17:50	08/29/01 18:31	

I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	**LAB BLANK**	**LAB BLANK**	**Units**
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	60	60	37-161
Date Analyzed	08/24/01 08:40	08/24/01 08:40	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**LAB BLANK**	**LAB BLANK**	**Units**
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	118	52-147
Date Analyzed	08/24/01 08:40	08/24/01 08:40	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	**LAB BLANK**	**Units**
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	79	43-148
Date Prepared	08/23/01 22:30	
Date Analyzed	08/26/01 23:08	

EPA METHOD 504 - ETHYLENE DIBROMIDE	**LAB BLANK**	**Units**
Ethylene Dibromide	0.020 U	µg/L
Date Prepared	08/23/01 09:30	
Date Analyzed	08/23/01 11:58	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	LAB BLANK	Units
Lead	200.7	0.0050 U	NA	mg/L
Date Analyzed		08/24/01 11:19		

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	84	100	65-140
Date Prepared	08/22/01 10:00	08/24/01 11:30	
Date Analyzed	08/22/01 16:54	08/29/01 11:41	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	112/116/111	45-161	4	29
Chloroform	114/136/111	64-154	#18	16
Carbon Tetrachloride	124/136/116	71-165	9	21
Trichloroethene	117/126/114	69-158	7	24
Tetrachloroethene	125/128/119	63-166	2	21
Chlorobenzene	116/118/108	67-147	2	19
EPA Method 601				
Methylene Chloride	110/122/102	45-161	10	29
Chloroform	124/125/105	64-154	<1	16
Carbon Tetrachloride	120/124/111	71-165	3	21
Trichloroethene	118/126/109	69-158	6	24
Tetrachloroethene	120/122/104	63-166	2	21
Chlorobenzene	110/114/101	67-147	4	19
EPA Method 602				
Benzene	130/130/120	60-138	<1	17
Toluene	126/123/116	57-138	2	16
Ethylbenzene	136/132/121	49-144	3	17
o-Xylene	120/119/108	50-151	<1	17
EPA Method 602				
Benzene	118/126/119	60-138	6	17
Toluene	116/122/116	57-138	5	16
Ethylbenzene	122/124/118	49-144	2	17
o-Xylene	133/138/107	50-151	4	17

Environmental Conservation Laboratories Comprehensive QA Plan #910190
< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference
# = One or more of the associated values failed to meet laboratory established limits for precision.

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ENCO LABORATORIES
REPORT # : JAX19195
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	75/ 65/ 75	59-111	#14	12
Acenaphthene	72/ 69/ 79	58-128	4	13
Benzo(a)pyrene	89/ 84/ 88	78-134	6	15
Benzo(g,h,i)perylene	91/ 85/ 89	62-115	7	30
EPA Method 504				
Ethylene Dibromide	68/ 64/ 96	57-130	6	18
Dibromochloropropane	72/ 76/104	60-130	5	20
TOTAL METALS				
Lead, 200.7	106/105/101	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	100/100/ 97	49-162	<1	28
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	100/100/ 90	49-162	<1	28

Environmental Conservation Laboratories Comprehensive QA Plan #910190
< = Less Than
MS = Matrix Spike
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# = One or more of the associated values failed to meet laboratory established limits for precision.
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01-150-06

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX19140
DATE SUBMITTED: August 16, 2001
DATE REPORTED : August 28, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

08/16/01

#1 - PB-1-2' @ 11:45
#2 - PB-2-4' @ 14:05
#3 - PB-3-4' @ 15:20
#4 - PB-4-4' @ 16:05
#5 - PB-5-3' @ 17:15

PROJECT MANAGER _____
Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-1-2'		PB-2-4'		Units
Methyl tert-butyl ether	1.3 U	D1	1.5 U	D2	µg/Kg
Benzene	1.3 U	D1	1.5 U	D2	µg/Kg
Toluene	1.3 U	D1	1.5 U	D2	µg/Kg
Chlorobenzene	1.3 U	D1	1.5 U	D2	µg/Kg
Ethylbenzene	1.3 U	D1	1.5 U	D2	µg/Kg
m-Xylene & p-Xylene	2.4 U	D1	3.1 U	D2	µg/Kg
o-Xylene	1.3 U	D1	1.5 U	D2	µg/Kg
1,3-Dichlorobenzene	1.3 U	D1	1.5 U	D2	µg/Kg
1,4-Dichlorobenzene	1.3 U	D1	1.5 U	D2	µg/Kg
1,2-Dichlorobenzene	1.3 U	D1	1.5 U	D2	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	97		97		70-134
D8-Toluene	98		95		60-144
Bromofluorobenzene	101		101		71-127
Date Prepared	08/17/01 17:45		08/17/01 17:45		
Date Analyzed	08/22/01 12:33		08/22/01 13:05		

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.07 dilution.
D2 = Analyte value determined from a 1:1.14 dilution.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-1-2'	PB-2-4'	Units
Naphthalene	19 U	22 U	µg/Kg
Acenaphthylene	38 U	44 U	µg/Kg
1-Methylnaphthalene	38 U	44 U	µg/Kg
2-Methylnaphthalene	38 U	44 U	µg/Kg
Acenaphthene	97	22 U	µg/Kg
Fluorene	3.8 U	4.4 U	µg/Kg
Phenanthrene	200	44 U	µg/Kg
Anthracene	19 U	22 U	µg/Kg
Fluoranthene	420	74	µg/Kg
Pyrene	430	84	µg/Kg
Benzo(a)anthracene	160	39	µg/Kg
Chrysene	150	40	µg/Kg
Benzo(b)fluoranthene	56	17	µg/Kg
Benzo(k)fluoranthene	40	11	µg/Kg
Benzo(a)pyrene	52	14	µg/Kg
Dibenzo(a,h)anthracene	17	4.7	µg/Kg
Benzo(g,h,i)perylene	20	5.6	µg/Kg
Indeno(1,2,3-cd)pyrene	38	29	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	89	80	39-141
Date Prepared	08/21/01 22:00	08/21/01 22:00	
Date Analyzed	08/24/01 15:47	08/24/01 16:38	

MISCELLANEOUS	METHOD	PB-1-2'	PB-2-4'	Units
Percent Solids	SM2540G	87	75	%
Date Analyzed		08/20/01 10:00	08/20/01 10:00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-1-2'	PB-2-4'	Units
Hydrocarbons (C8-C40)	7.6 U	8.8 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	65	51	51-148
Date Prepared	08/21/01 23:00	08/21/01 23:00	
Date Analyzed	08/22/01 16:12	08/22/01 15:32	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-3-4'		PB-4-4'		Units
Methyl tert-butyl ether	1.4 U	D3	130 U	D4	µg/Kg
Benzene	1.4 U	D3	130 U	D4	µg/Kg
Toluene	1.4 U	D3	130 U	D4	µg/Kg
Chlorobenzene	1.4 U	D3	130 U	D4	µg/Kg
Ethylbenzene	1.4 U	D3	130 U	D4	µg/Kg
m-Xylene & p-Xylene	2.8 U	D3	260 U	D4	µg/Kg
o-Xylene	1.4 U	D3	130 U	D4	µg/Kg
1,3-Dichlorobenzene	1.4 U	D3	130 U	D4	µg/Kg
1,4-Dichlorobenzene	1.4 U	D3	130 U	D4	µg/Kg
1,2-Dichlorobenzene	1.4 U	D3	130 U	D4	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	99		95		70-134
D8-Toluene	96		95		60-144
Bromofluorobenzene	97		95		71-127
Date Prepared	08/17/01 17:45				
Date Analyzed	08/22/01 13:37		08/20/01 22:39		

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:1.1 dilution.
D4 = Analyte value determined from a 1:100 dilution.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-3-4'	PB-4-4'	Units
Naphthalene	21 U	210 U D5	µg/Kg
Acenaphthylene	42 U	430 U D5	µg/Kg
1-Methylnaphthalene	42 U	430 U D5	µg/Kg
2-Methylnaphthalene	42 U	430 U D5	µg/Kg
Acenaphthene	21 U	210 U D5	µg/Kg
Fluorene	4.2 U	43 U D5	µg/Kg
Phenanthrene	42 U	430 U D5	µg/Kg
Anthracene	21 U	210 U D5	µg/Kg
Fluoranthene	23	58 D5	µg/Kg
Pyrene	42	93 D5	µg/Kg
Benzo(a)anthracene	21 U	210 U D5	µg/Kg
Chrysene	10	43 U D5	µg/Kg
Benzo(b)fluoranthene	4.2 U	43 U D5	µg/Kg
Benzo(k)fluoranthene	4.2 U	43 U D5	µg/Kg
Benzo(a)pyrene	4.2 U	43 U D5	µg/Kg
Dibenzo(a,h)anthracene	4.2 U	43 U D5	µg/Kg
Benzo(g,h,i)perylene	4.2 U	43 U D5	µg/Kg
Indeno(1,2,3-cd)pyrene	4.2 U	43 U D5	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	88	77	39-141
Date Prepared	08/21/01 22:00	08/21/01 22:00	
Date Analyzed	08/24/01 17:30	08/27/01 13:47	

MISCELLANEOUS	METHOD	PB-3-4'	PB-4-4'	Units
Percent Solids	SM2540G	79	77	%
Date Analyzed		08/20/01 10:00	08/20/01 10:00	

U = Compound was analyzed for but not detected to the level shown.
D5 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-3-4'	PB-4-4'		Units
Hydrocarbons (C8-C40)	350	5200	D6	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**		**LIMITS**
o-Terphenyl	78	*		51-148
Date Prepared	08/21/01 23:00	08/21/01 23:00		
Date Analyzed	08/22/01 15:42	08/22/01 16:52		

* = Surrogate recovery unavailable due to sample dilution.
U = Compound was analyzed for but not detected to the level shown.
D6 = Analyte value determined from a 1:20 dilution.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB-5-3'	LAB BLANK	Units
Methyl tert-butyl ether	1.4 U D2	100 U D4	µg/Kg
Benzene	1.4 U D2	100 U D4	µg/Kg
Toluene	1.4 U D2	100 U D4	µg/Kg
Chlorobenzene	1.4 U D2	100 U D4	µg/Kg
Ethylbenzene	1.4 U D2	100 U D4	µg/Kg
m-Xylene & p-Xylene	2.9 U D2	200 U D4	µg/Kg
o-Xylene	1.4 U D2	100 U D4	µg/Kg
1,3-Dichlorobenzene	1.4 U D2	100 U D4	µg/Kg
1,4-Dichlorobenzene	1.4 U D2	100 U D4	µg/Kg
1,2-Dichlorobenzene	1.4 U D2	100 U D4	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	90	92	70-134
D8-Toluene	115	91	60-144
Bromofluorobenzene	98	94	71-127
Date Prepared	08/17/01 17:45		
Date Analyzed	08/22/01 14:16	08/20/01 13:36	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.14 dilution.
D4 = Analyte value determined from a 1:100 dilution.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB-5-3'	LAB BLANK	Units
Naphthalene	21 U	16 U	µg/Kg
Acenaphthylene	42 U	33 U	µg/Kg
1-Methylnaphthalene	42 U	33 U	µg/Kg
2-Methylnaphthalene	42 U	33 U	µg/Kg
Acenaphthene 1900/18000/2.1	310	16 U	µg/Kg
Fluorene 2200/22000/160	4.2 U	3.3 U	µg/Kg
Phenanthrene 2000/30000/250	760	33 U	µg/Kg
Anthracene 18000/260000/2500	21 U	16 U	µg/Kg
Fluoranthene 2900/48000/1200	1200	3.3 U	µg/Kg
Pyrene 2200/37000/880	1300	3.3 U	µg/Kg
Benzo(a)anthracene 1.4/5/32	490	16 U	µg/Kg
Chrysene 140/450/77	460	3.3 U	µg/Kg
Benzo(b)fluoranthene 1.4/4.8/10	160	3.3 U	µg/Kg
Benzo(k)fluoranthene 15/52/25	120	3.3 U	µg/Kg
Benzo(a)pyrene 0.1/0.5/8	170	3.3 U	µg/Kg
Dibenzo(a,h)anthracene 0.1/0.5/30	49	3.3 U	µg/Kg
Benzo(g,h,i)perylene 230/4100/32000	59	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene 1.5/5.3/28	110	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	122	91	39-141
Date Prepared	08/21/01 22:00	08/21/01 22:00	
Date Analyzed	08/24/01 18:22	08/23/01 01:15	

MISCELLANEOUS	METHOD	PB-5-3'	LAB BLANK	Units
Percent Solids	SM2540G	79	NA	%
Date Analyzed		08/20/01 10:00		

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB-5-3'	LAB BLANK	Units
Hydrocarbons (C8-C40)	14	6.6 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	60	68	51-148
Date Prepared	08/21/01 23:00	08/21/01 23:00	
Date Analyzed	08/22/01 16:02	08/22/01 12:58	

J = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	1.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	97	70-134
D8-Toluene	94	60-144
Bromofluorobenzene	97	71-127
Date Analyzed	08/22/01 07:21	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19140
DATE REPORTED: August 28, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	99/101/ 98	44-169	2	19
Benzene	102/103/101	50-140	<1	23
Trichloroethene	92/ 94/ 92	75-125	2	17
Toluene	93/ 93/ 91	56-139	<1	22
Chlorobenzene	100/100/101	73-123	<1	24
EPA Method 8260				
1,1-Dichloroethene	92/ 92/ 98	44-169	<1	19
Benzene	96/ 95/108	50-140	1	23
Trichloroethene	88/ 89/103	75-125	1	17
Toluene	90/ 87/ 95	56-139	3	22
Chlorobenzene	90/ 90/ 99	73-123	<1	24
EPA Method 8310				
Naphthalene	53/ 55/ 60	48-130	4	20
Acenaphthene	58/ 59/ 60	36-127	2	17
Benzo(a)pyrene	71/ 67/ 72	64-141	6	22
Benzo(g,h,i)perylene	71/ 70/ 78	58-168	1	21
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	101/ 77/101	62-204	#27	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference
# = One or more of the associated values failed to meet laboratory established limits for precision.

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX19158
DATE SUBMITTED: August 17, 2001
DATE REPORTED : August 29, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

08/17/01

#1 - PB6-3' @ 09:10
#2 - PB7-2' @ 09:35
#3 - PB8-2' @ 10:05
#4 - TB1-3' @ 11:10
#5 - TB2-2.5' @ 11:50
#6 - TB3-3.5' @ 12:45
#7 - TB4-3' @ 14:00
#8 - TB5-2.5' @ 15:30

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB6-3'		PB7-2'		Units
Methyl tert-butyl ether	1.3 U	D1	2.0 U	D2	µg/Kg
Benzene	1.3 U	D1	2.0 U	D2	µg/Kg
Toluene	1.3 U	D1	2.0 U	D2	µg/Kg
Chlorobenzene	1.3 U	D1	2.0 U	D2	µg/Kg
Ethylbenzene	1.3 U	D1	2.0 U	D2	µg/Kg
m-Xylene & p-Xylene	2.7 U	D1	3.0 U	D2	µg/Kg
o-Xylene	1.4	D1	1.7	D2	µg/Kg
1,3-Dichlorobenzene	1.3 U	D1	2.0 U	D2	µg/Kg
1,4-Dichlorobenzene	1.3 U	D1	2.0 U	D2	µg/Kg
1,2-Dichlorobenzene	1.3 U	D1	2.0 U	D2	µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	97		99		70-134
D8-Toluene	97		98		60-144
Bromofluorobenzene	100		98		71-127
Date Prepared	08/18/01 13:00		08/18/01 13:00		
Date Analyzed	08/21/01 23:49		08/22/01 00:20		

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.13 dilution.
D2 = Analyte value determined from a 1:1.02 dilution.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB6-3'	PB7-2'	Units
Naphthalene	20 U	25 U	µg/Kg
Acenaphthylene	39 U	51 U	µg/Kg
1-Methylnaphthalene	39 U	51 U	µg/Kg
2-Methylnaphthalene	39 U	51 U	µg/Kg
Acenaphthene	20 U	25 U	µg/Kg
Fluorene	3.9 U	5.1 U	µg/Kg
Phenanthrene	39 U	51 U	µg/Kg
Anthracene	20 U	25 U	µg/Kg
Fluoranthene	12	6.9	µg/Kg
Pyrene	15	7.8	µg/Kg
Benzo(a)anthracene	20 U	25 U	µg/Kg
Chrysene	3.9 U	5.1 U	µg/Kg
Benzo(b)fluoranthene	3.9 U	5.1 U	µg/Kg
Benzo(k)fluoranthene	3.9 U	5.1 U	µg/Kg
Benzo(a)pyrene	3.9 U	5.1 U	µg/Kg
Dibenzo(a,h)anthracene	3.9 U	5.1 U	µg/Kg
Benzo(g,h,i)perylene	3.9 U	5.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.9 U	5.1 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
p-terphenyl	78	53	39-141
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/28/01 03:35	08/28/01 04:26	

MISCELLANEOUS	METHOD	PB6-3'	PB7-2'	Units
Percent Solids	SM2540G	84	65	%
Date Prepared		08/20/01 10:15	08/20/01 10:15	
Date Analyzed		08/21/01 11:30	08/21/01 11:30	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB6-3'	PB7-2'	Units
Hydrocarbons (C8-C40)	7.8 U	10 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	111	57	51-148
Date Prepared	08/27/01 14:00	08/22/01 20:00	
Date Analyzed	08/28/01 09:30	08/24/01 09:53	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	PB8-2'		TB1-3'		Units
Methyl tert-butyl ether	1.0 U	D3	1.1 U		µg/Kg
Benzene	1.0 U	D3	1.1 U		µg/Kg
Toluene	1.0 U	D3	1.1 U		µg/Kg
Chlorobenzene	1.0 U	D3	1.1 U		µg/Kg
Ethylbenzene	1.0 U	D3	1.1 U		µg/Kg
m-Xylene & p-Xylene	2.3 U	D3	2.2 U		µg/Kg
o-Xylene	1.2	D3	1.0		µg/Kg
1,3-Dichlorobenzene	1.0 U	D3	1.1 U		µg/Kg
1,4-Dichlorobenzene	1.0 U	D3	1.1 U		µg/Kg
1,2-Dichlorobenzene	1.0 U	D3	1.1 U		µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	95		86		70-134
D8-Toluene	97		96		60-144
Bromofluorobenzene	99		104		71-127
Date Prepared	08/18/01 13:00		08/18/01 13:00		
Date Analyzed	08/22/01 00:50		08/22/01 01:21		

U = Compound was analyzed for but not detected to the level shown.
D3 = Analyte value determined from a 1:1.04 dilution.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB8-2'	TB1-3'	Units
Naphthalene	18 U	< 0.020 U	µg/Kg
Acenaphthylene	36 U	40 U	µg/Kg
1-Methylnaphthalene	36 U	40 U	µg/Kg
2-Methylnaphthalene	36 U	40 U	µg/Kg
Acenaphthene	18 U	20 U	µg/Kg
Fluorene	3.6 U	4.0 U	µg/Kg
Phenanthrene	36 U	40 U	µg/Kg
Anthracene	18 U	20 U	µg/Kg
Fluoranthene	13	4.0 U	µg/Kg
Pyrene	16	4.0 U	µg/Kg
Benzo(a)anthracene	18 U	20 U	µg/Kg
Chrysene	3.6 U	4.0 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	4.0 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	4.0 U	µg/Kg
Benzo(a)pyrene	3.6 U	4.0 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	4.0 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	4.0 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	4.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	82	85	39-141
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/28/01 05:18	08/28/01 07:02	

MISCELLANEOUS	METHOD	PB8-2'	TB1-3'	Units
Percent Solids	SM2540G	91	82	%
Date Prepared		08/20/01 10:15	08/20/01 10:15	
Date Analyzed		08/21/01 11:30	08/21/01 11:30	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB8-2'	TB1-3'	Units
Hydrocarbons (C8-C40)	7.2 U	8.0 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	54	61	51-148
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/24/01 10:03	08/24/01 10:12	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TB2-2.5'		TB3-3.5'		Units
Methyl tert-butyl ether	1.0 U	D2	1.0 U		µg/Kg
Benzene	1.0 U	D2	1.2 U		µg/Kg
Toluene	1.5	D2	2.0		µg/Kg
Chlorobenzene	1.0 U	D2	1.0 U		µg/Kg
Ethylbenzene	1.0 U	D2	1.0 U		µg/Kg
m-Xylene & p-Xylene	2.0 U	D2	2.0 U		µg/Kg
o-Xylene	2.2	D2	1.8		µg/Kg
1,3-Dichlorobenzene	1.0 U	D2	1.0 U		µg/Kg
1,4-Dichlorobenzene	1.0 U	D2	1.0 U		µg/Kg
1,2-Dichlorobenzene	1.0 U	D2	1.0 U		µg/Kg
Surrogate:	**% RECOV**		**% RECOV**		**LIMITS**
Dibromofluoromethane	47		54		70-134
D8-Toluene	98		96		60-144
Bromofluorobenzene	101		100		71-127
Date Prepared	08/18/01 13:00		08/18/01 13:00		
Date Analyzed	08/22/01 01:52		08/22/01 02:22		

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.02 dilution.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB2-2.5'	TB3-3.5'	Units
Naphthalene	21 U	20 U	µg/Kg
Acenaphthylene	41 U	40 U	µg/Kg
1-Methylnaphthalene	41 U	40 U	µg/Kg
2-Methylnaphthalene	41 U	40 U	µg/Kg
Acenaphthene	21 U	20 U	µg/Kg
Fluorene	4.1 U	4.0 U	µg/Kg
Phenanthrene	41 U	40 U	µg/Kg
Anthracene	21 U	20 U	µg/Kg
Fluoranthene	4.1 U	8.0	µg/Kg
Pyrene	4.1 U	9.9	µg/Kg
Benzo(a)anthracene	21 U	20 U	µg/Kg
Chrysene	4.1 U	4.0 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	4.0 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	4.0 U	µg/Kg
Benzo(a)pyrene	4.1 U	4.0 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	4.0 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	4.0 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	4.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	82	79	39-141
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/28/01 07:53	08/28/01 08:45	

MISCELLANEOUS	METHOD	TB2-2.5'	TB3-3.5'	Units
Percent Solids	SM2540G	80	82	%
Date Prepared		08/20/01 10:15	08/20/01 10:15	
Date Analyzed		08/21/01 11:30	08/21/01 11:30	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB2-2.5'	TB3-3.5'	Units
Hydrocarbons (C8-C40)	8.2 U	8.0 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	64	51	51-148
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/24/01 10:40	08/24/01 10:50	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	TB4-3'	TB5-2.5'	Units
Methyl tert-butyl ether	1.0 U	1.0 U	µg/Kg
Benzene	1.2 U	1.2 U	µg/Kg
Toluene	5.6	1.0 U	µg/Kg
Chlorobenzene	1.0 U	1.0 U	µg/Kg
Ethylbenzene	2.1	1.0 U	µg/Kg
m-Xylene & p-Xylene	7.0	2.3 U	µg/Kg
o-Xylene	5.9	1.0	µg/Kg
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	42	96	70-134
D8-Toluene	98	101	60-144
Bromofluorobenzene	99	101	71-127
Date Prepared	08/18/01 13:00	08/18/01 13:00	
Date Analyzed	08/22/01 02:53	08/22/01 03:23	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TB4-3'	TB5-2.5'	Units
Naphthalene	20 U	20 U	µg/Kg
Acenaphthylene	41 U	41 U	µg/Kg
1-Methylnaphthalene	41 U	41 U	µg/Kg
2-Methylnaphthalene	41 U	41 U	µg/Kg
Acenaphthene	20 U	20 U	µg/Kg
Fluorene	4.1 U	4.1 U	µg/Kg
Phenanthrene	41 U	41 U	µg/Kg
Anthracene	20 U	20 U	µg/Kg
Fluoranthene	4.1 U	4.1 U	µg/Kg
Pyrene	4.1 U	4.1 U	µg/Kg
Benzo(a)anthracene	20 U	20 U	µg/Kg
Chrysene	4.1 U	4.1 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	62	81	39-141
Date Prepared	08/22/01 20:00	08/22/01 20:00	
Date Analyzed	08/28/01 09:37	08/28/01 10:29	

MISCELLANEOUS	METHOD	TB4-3'	TB5-2.5'	Units
Percent Solids	SM2540G	81	81	%
Date Prepared		08/20/01 10:15	08/20/01 10:15	
Date Analyzed		08/21/01 11:30	08/21/01 11:30	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TB4-3'	TB5-2.5'	Units
Hydrocarbons (C8-C40)	8.1 U	8.1 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	52	59	51-148
Date Prepared	08/27/01 14:00	08/22/01 20:00	
Date Analyzed	08/28/01 09:41	08/24/01 11:09	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	1.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	95	70-134
D8-Toluene	98	60-144
Bromofluorobenzene	98	71-127
Date Analyzed	08/21/01 18:04	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	16 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	16 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-terphenyl	91	39-141
Date Prepared	08/22/01 20:00	
Date Analyzed	08/27/01 23:16	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	58	59	51-148
Date Prepared	08/22/01 20:00	08/27/01 14:00	
Date Analyzed	08/24/01 08:58	08/28/01 09:10	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19158
DATE REPORTED: August 29, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	84/ 85/ 96	44-169	1	19
Benzene	89/ 87/100	50-140	2	23
Trichloroethene	74/ 74/100	75-125	<1	17
Toluene	*/ */ 92	56-139	*	22
Chlorobenzene	71/ 68/ 96	73-123	4	24
EPA Method 8310				
Naphthalene	73/ 77/ 68	48-130	5	20
Acenaphthene	70/ 78/ 67	36-127	11	17
Benzo(a)pyrene	71/ 76/ 71	64-141	7	22
Benzo(g,h,i)perylene	74/ 78/ 88	58-168	5	21
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	71/ 70/ 67	62-204	1	25
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	71/ 70/ 76	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference
* = MS/MSD/RPD unavailable due to high original sample concentration.

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX19159
DATE SUBMITTED: August 17, 2001
DATE REPORTED : August 30, 2001

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : MAYPORT NAVAL ST.

Tank Closure

08/17/01

#1 - PB1 @ 15:00
#2 - PB2 @ 15:20
#3 - PB3 @ 15:40

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB1	PB2	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	4.7	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	54	50	37-161
Date Analyzed	08/26/01 10:23	08/26/01 11:21	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB1	PB2	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	127	114	52-147
Date Analyzed	08/26/01 10:23	08/26/01 11:21	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB1	PB2	Units
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.95	0.14	µg/L
Pyrene	0.69	0.35	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	89	83	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 03:26	08/27/01 04:18	

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB1	PB2	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 11:46	08/24/01 12:04	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB1	PB2	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/24/01 12:25	08/24/01 12:34	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB1	PB2	Units
Hydrocarbons (C8-C40)	0.69	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	95	92	65-140
Date Prepared	08/22/01 10:00	08/22/01 10:00	
Date Analyzed	08/23/01 10:24	08/23/01 11:43	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	PB3	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	1.0 U	1.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon Tetrachloride	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	56	56	37-161
Date Analyzed	08/26/01 12:20	08/26/01 07:41	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	PB3	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	2.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	1.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	% RECOV	% RECOV	LIMITS
Bromofluorobenzene	120	127	52-147
Date Analyzed	08/26/01 12:20	08/26/01 07:41	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	PB3	LAB BLANK	Units
Naphthalene	0.50 U	0.50 U	µg/L
Acenaphthylene	1.0 U	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	1.0 U	µg/L
Acenaphthene	0.50 U	0.50 U	µg/L
Fluorene	0.10 U	0.10 U	µg/L
Phenanthrene	1.0 U	1.0 U	µg/L
Anthracene	0.20 U	0.20 U	µg/L
Fluoranthene	0.17	0.10 U	µg/L
Pyrene	0.57	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	0.10 U	µg/L
Chrysene	0.10 U	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	0.10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-terphenyl	79	79	43-148
Date Prepared	08/23/01 22:30	08/23/01 22:30	
Date Analyzed	08/27/01 06:53	08/26/01 23:08	

EPA METHOD 504 - ETHYLENE DIBROMIDE	PB3	LAB BLANK	Units
Ethylene Dibromide	0.020 U	0.020 U	µg/L
Date Prepared	08/23/01 09:30	08/23/01 09:30	
Date Analyzed	08/24/01 12:22	08/23/01 11:58	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	PB3	LAB BLANK	Units
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		08/24/01 12:58	08/24/01 11:19	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	PB3	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.28	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	92	84	65-140
Date Prepared	08/22/01 10:00	08/22/01 10:00	
Date Analyzed	08/23/01 12:23	08/22/01 16:54	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX19159
DATE REPORTED: August 30, 2001
REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	110/122/102	45-161	10	29
Chloroform	124/125/105	64-154	<1	16
Carbon Tetrachloride	120/124/111	71-165	3	21
Trichloroethene	118/126/109	69-158	6	24
Tetrachloroethene	120/122/104	63-166	2	21
Chlorobenzene	110/114/101	67-147	4	19
EPA Method 602				
Benzene	118/126/119	60-138	6	17
Toluene	116/122/116	57-138	5	16
Ethylbenzene	122/124/118	49-144	2	17
o-Xylene	133/138/107	50-151	4	17
EPA Method 8310				
Naphthalene	75/ 65/ 75	59-111	#14	12
Acenaphthene	72/ 69/ 79	58-128	4	13
Benzo(a)pyrene	89/ 84/ 88	78-134	6	15
Benzo(g,h,i)perylene	91/ 85/ 89	62-115	7	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

= One or more of the associated values failed to meet laboratory established limits for precision.
< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 504				
Ethylene Dibromide	68/ 64/ 96	57-130	6	18
Dibromochloropropane	72/ 76/104	60-130	5	20
TOTAL METALS				
Lead, 200.7	106/105/101	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	100/100/ 97	49-162	<1	28

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted

APPENDIX B

GROUNDWATER SAMPLING FIELD DATA SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAVSTA Mayport
Project No.: 112G00412
Location: FBTF
Personnel: J. Gibson
Weather Conditions: Clear & warm
Measuring Device: electronic tape
Tidally Influenced: Yes X No ___
Remarks: —

Well or Piezometer Number MPT-	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	PID (ppm) BK/BH
MPT-08-MW12S	4/23/2008	1245	—	18.00	10.72	NP	—	—
MPT-09-MW01S	4/23/2008	1240	—	18.00	11.35	NP	—	—
MPT-09-MW02S	4/23/2008	1235	—	15.00	11.40	NP	—	—
MPT-09-MW03S	4/23/2008	1230	—	15.00	9.60	NP	—	—
MPT-16-MW03S	4/23/2008	1219	—	15.00	10.90	NP	—	—
MPT-FF-MW07	4/23/2008	1228	—	15.00	10.50	NP	—	—
MPT-FF-MW08	4/23/2008	1227	—	14.46	10.54	NP	—	—

ppm=parts per million; BK=background; and BH=borehole of the well.

* All measurements to the nearest 0.01 foot

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-08-MW12S	SAMPLE ID: MPT-08-MW12S-0408	DATE: 4/23/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 8 to 18 feet	STATIC DEPTH TO WATER (feet): 10.72	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

1.2 gallons 18 − (10.72) x 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.7	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1300	0	0	0.04	10.74	—	—	—	—	—	—	—
1330	1.2	1.2	0.04	10.75	7.23	23.69	0.500	0.35	4.08	-71.1	NONE
1335	0.2	1.4	0.04	10.75	7.21	23.52	0.494	0.24	4.48	-67.1	NONE
1340	0.2	1.6	0.04	10.75	7.22	23.48	0.489	0.31	4.22	-77.2	NONE
1345	0.2	1.8	0.04	10.75	7.21	23.48	0487	0.33	4.20	-79.8	NONE
1350	0.2	2.0	0.04	10.75	7.21	2343	0.484	0.32	4.18	-82.2	NONE

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES: Joe Gibson	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 12.7	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-09-MW01S	SAMPLE ID: MPT-09-MW01S-0408	DATE: 4/23/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 8 to 18 feet	STATIC DEPTH TO WATER (feet): 11.35	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
_____gallons (18 - 11.35) x 0.16 = 1

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.3	PURGING INITIATED AT: 1426	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1426	0	0	0.04	11.35	—	—	—	—	—	—	—
1451	1.0	1.0	0.04	11.35	7.24	24.36	0.565	0.69	0.74	37.7	none
1454	0.12	1.12	0.04	11.35	7.19	24.34	0.566	0.71	0.68	36.0	none
1457	0.12	1.24	0.04	11.35	7.10	24.37	0.566	0.71	0.70	35.8	none
1500	0.12	1.36	0.04	11.35	7.10	24.42	0.568	0.70	0.72	35.7	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 13.3	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-16-MW02S	SAMPLE ID: MPT- FF-MW07-0408	DATE: 4/24/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 5 to 15 feet	STATIC DEPTH TO WATER (feet): 10.50	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

0.7 gallons (15-10.50) X 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1000	0	0	0.04	10.49	—	—	—	—	—	—	—
1020	0.8	0.8	0.04	10.49	7.45	22.22	0.351	3.44	3.38	40.8	NONE
1025	0.2	1.0	0.04	10.49	7.41	22.24	0.349	3.45	3.01	43.1	NONE
1028	0.12	1.12	0.04	10.49	7.40	22.26	0.348	3.30	2.84	45.0	NONE
1031	0.12	1.24	0.04	10.49	7.40	22.26	0.347	3.32	2.88	46.7	NONE
1034	0.12	1.36	0.04	10.49	7.43	22.23	0.346	3.29	2.82	50.3	NONE
1037	0.12	1.48	0.04	10.49	7.42	22.20	0.345	3.30	2.84	51.6	NONE
1040	0.12	1.60	0.04	10.49	7.44	22.20	0.344	3.29	2.80	52.4	NONE

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES: Joe Gibson	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-16-MW03S	SAMPLE ID: MPT-16-MW03S-0408	DATE: 4/24/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 5 to 15 feet	STATIC DEPTH TO WATER (feet): 10.90	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

0.7 gallons (15 - 10.90) x .16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1129	TOTAL VOLUME PURGED (gallons): 1.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1100	0	0	0.04	10.90	7.10	23.09	0.600	0.79	0.99	48.5	none
1120	0.8	0.8	0.04	10.90	7.09	23.25	0.603	0.57	0.80	33.1	none
1123	0.12	0.92	0.04	10.90	7.09	23.29	0.605	0.60	0.62	28.7	none
1126	0.12	1.04	0.04	10.90	7.09	23.34	0.605	0.63	0.56	29.2	none
1129	0.12	1.16	0.04	10.90	7.09	23.38	0.605	0.62	0.47	28.0	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES: Joe Gibson	SAMPLING INITIATED AT: 1129	SAMPLING ENDED AT: 1150
PUMP OR TUBING DEPTH IN WELL (feet): 13	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:
Collected MS/MSD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: FF-MW-08	SAMPLE ID: FF-MW-08-0408	DATE: 4/24/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 4.96 to 14.46 feet	STATIC DEPTH TO WATER (feet): 10.54	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
0.6 gallons (14.46 − 10.54) X 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 1110	PURGING ENDED AT: 1134	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1110	0	0	0.04	10.54	—	—	—	—	—	—	—
1125	0.6	0.6	0.04	10.54	6.97	22.76	0.666	0.23	1.84	-135.9	none
1128	0.12	0.72	0.04	10.54	6.97	22.68	0.666	0.23	1.82	-133.6	none
1131	0.12	0.84	0.04	10.54	6.95	22.65	0.665	0.21	1.29	-131.9	none
1134	0.12	0.96	0.04	10.54	6.95	22.63	0.665	0.20	1.13	-130.8	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1134	SAMPLING ENDED AT: 1155
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-09-MW02S	SAMPLE ID: MPT-09-MW02S-0408	DATE: 4/24/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 5 to 15 feet	STATIC DEPTH TO WATER (feet): 11.40	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
0.6 gallons (15 - 11.40) x 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.5	PURGING INITIATED AT: 12:30	PURGING ENDED AT: 1254	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1230	0	0	0.04	11.40	6.87	24.40	1.125	0.84	2.85	-92.6	none
1245	0.6	0.6	0.04	11.41	6.77	24.31	1.108	0.88	2.02	-106.9	none
1248	0.12	0.72	0.04	11.41	6.77	24.05	1.097	0.66	1.68	-107.7	none
1251	0.12	0.84	0.04	11.41	6.76	23.99	1.095	0.59	1.09	-108.3	none
1254	0.12	0.96	0.04	11.41	6.76	23.96	1.093	0.56	1.01	-108.6	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES: Joe Gibson	SAMPLING INITIATED AT: 1254	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 13.5	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Former Bulk Tank Facilities (FBTF)	SITE LOCATION: NAVSTA Mayport	
WELL NO: MPT-09-MW03S	SAMPLE ID: MPT-09-MW03S-0408	DATE: 4/24/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet 5 to 15 feet	STATIC DEPTH TO WATER (feet): 9.60	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

0.9 gallons (15 - 9.60) x 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

_____ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.6	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1347	TOTAL VOLUME PURGED (gallons): 1.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	ODOR (describe)
1315	0	0	0.04	9.60	—	—	—	—	—	—	—
1338	0.92	0.92	0.04	9.60	6.96	23.38	0.654	0.26	2.89	-0.4	none
1341	0.12	1.04	0.04	9.60	6.96	23.36	0.653	0.28	2.69	-1.3	none
1344	0.12	1.16	0.04	9.60	6.97	23.32	0.653	0.25	2.42	-2.4	none
1347	0.12	1.28	0.04	9.60	6.96	23.34	0.653	0.24	2.38	-2.4	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Gibson / TtNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1347	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 11.6	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
1	3	CG	40 ml	HCL	NONE	<2	VOCs (BTEX + MTBE)/8260B	RFPP
2	1	AG	1 L	NONE	NONE	-	PAHs/8270C	VT
3	2	AG	1 L	H_2SO_4	NONE	-	TRPH/FL-PRO	VT

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 26342 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00412	Mayport - FBTF	Mark Peterson	(904) 636-6125	ENCO
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Joe Gibson		Joe Gibson	(904) 636-6125	4810 Executive Park Ct. St. 211
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		Drop Off		Jacksonville, FL. 32216

STANDARD TAT ☑
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									PRESERVATIVE USED									TYPE OF ANALYSIS									COMMENTS
									G	G	G							HCL	-	H2SO4							BTEX + MTBE (8260B)	PAH (8270C)	TRPH (FL-PRO)						
4/23	0000	MPT-FF-Tripblank				QC	G	3	X																								Cool to 4°C
"	1350	MPT-08-MW12S-0408				GW	G	6	X	X	X																						
"	1500	MPT-09-MW01S-0408				GW	G	6	X	X	X																						
4/24	1040	MPT-FF-MW07-0408				GW	G	6	X	X	X																						
"	1129	MPT-16-MW03S-0408				GW	G	6	X	X	X																						
"	1129	MPT-16-MW03S-0408-MS				GW	G	6	X	X	X																						MS
"	1129	MPT-16-MW03S-0408-MSD				GW	G	6	X	X	X																						MSD
"	1134	MPT-FF-MW08-0408				GW	G	6	X	X	X																						
"	1254	MPT-09-MW02S-0408				GW	G	6	X	X	X																						
"	1347	MPT-09-MW03S-0408				GW	G	6	X	X	X																						
"	1435	MPT-16-FB1-0408				QC	G	6	X	X	X																						Job # CTO 31 Fuel Farm

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Joe Gibson	4/24/08	1644	1. RECEIVED BY	4/24/08	1644
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

Tetra Tech NUS, Inc.

DOCUMENTATION OF FIELD CALIBRATION

PROJECT NAME : NAVSTA Mayport

SITE NAME: FBTF

PROJECT No.: 112G00412

INSTRUMENT NAME/MODEL: YSI 556 / LaMotte 2020

MANUFACTURER: YSI / LaMotte

SERIAL NUMBER: 04J15531 / ME-11937

Date of Calibration	Instrument Name and Model	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
				Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
4/23/08	YSI	04J15531	J.G.			6.98	7.0	4803516	pH 7
"	"	"	"			9.86	10.0	2708587	pH 10
"	"	"	"			1.302	1.413	6126	Cond.
"	"	"	"			238.2	240	62643	ORP
"	LaMotte 2020	ME-11937	"			9.8	10.0	—	10 NTU
"	"	"	"			0.28	0.00	—	0.0 NTU
4/24/08	YSI	04J15531	"			6.99	7.0	4807516	pH 7
"	"	"	"			9.96	10.0	2708587	pH 10
"	"	"	"			1.398	1.413	6126	Cond
"	"	"	"			239.4	240	62643	ORP
"	[redacted]	ME-11937	"			9.9	10.0	—	10 NTU
						0.0	0.0	—	0 NTU

APPENDIX C

LABORATORY ANALYTICAL REPORT

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville FL, 32216-6069
Phone: 904.296.3007 FAX: 904.296.6210

www.encolabs.com

Thursday, May 1, 2008

Tetra Tech NUS (BR006)

Attn: Mark Peterson

8640 Philips Highway Suite 16

Jacksonville, FL 32256

RE: Laboratory Results for
Project Number: 112G00412, Project Name/Desc: Mayport Fuel Farm
ENCO Workorder: B802812

Dear Mark Peterson,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 24, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Jacksonville. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Lorraine Strong

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 38.

www.encolabs.com

CASE NARRATIVE

Tetra Tech NUS, Inc/Mayport Fuel Farm, CTO 031
Project Manger Mr. Mark Peterson
SDG BR006-031

Lab Sample ID	Client Sample ID
B802812-01	MPT-FF-Trip Blank Cooler J199
B802812-02	MPT-FF-Trip Blank Cooler LB5
B802812-03	MPT-FF-Trip Blank Cooler C3
B802812-04	MPT-08-MW12S-0408
B802812-05	MPT-09-MW01S-0408
B802812-06	MPT-FF-MW07-0408
B802812-07	MPT-16-MW03S-0408MS/MSD
B802812-08	MPT-FF-MW08-0408
B802812-09	MPT-09-MW02S-0408
B802812-10	MPT-09-MW03S-0408
B802812-11	MPT-16-FBI-0408

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Sample MPT-16-MW03S-0408 [B802812-07] was the designated matrix spike/matrix spike duplicate. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

EPA Method 8260B

The laboratory received two additional Trip blanks with this project; however, these samples were not listed on the chain of custody.

Lorraine Strong
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	MPT-FF-Trip Blank Cooler J199	Lab ID:	B802812-01	Sampled:	04/23/08 00:00	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/07/08		04/30/08	09:42	4/30/2008	15:42	

Client ID:	MPT-FF-Trip Blank Cooler LB5	Lab ID:	B802812-02	Sampled:	04/23/08 00:00	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/07/08		04/30/08	09:42	4/30/2008	16:15	

Client ID:	MPT-FF-Trip Blank Cooler C3	Lab ID:	B802812-03	Sampled:	04/23/08 00:00	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/07/08		04/30/08	09:42	4/30/2008	16:48	

Client ID:	MPT-08-MW12S-0408	Lab ID:	B802812-04	Sampled:	04/23/08 13:50	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/07/08		04/30/08	09:42	4/30/2008	17:21	
EPA 8270C	04/30/08	06/07/08	04/28/08	12:34	4/29/2008	00:19	
FLPRO	04/30/08	06/07/08	04/28/08	12:36	4/28/2008	18:55	

Client ID:	MPT-09-MW01S-0408	Lab ID:	B802812-05	Sampled:	04/23/08 15:00	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/07/08		04/30/08	09:42	4/30/2008	17:54	
EPA 8270C	04/30/08	06/07/08	04/28/08	12:34	4/29/2008	00:40	
FLPRO	04/30/08	06/07/08	04/28/08	12:36	4/28/2008	19:19	

Client ID:	MPT-FF-MW07-0408	Lab ID:	B802812-06	Sampled:	04/24/08 10:40	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008	18:27	
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008	01:01	
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008	20:28	

Client ID:	MPT-16-MW03S-0408MS/MSD	Lab ID:	B802812-07	Sampled:	04/24/08 11:29	Received:	04/24/08 16:44
Parameter	**Hold Date/Time(s)**		**Prep Date/Time(s)**		**Analysis Date/Time(s)**		
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008	15:08	
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008	01:22	
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008	18:32	

Client ID:	MPT-FF-MW08-0408	Lab ID:	B802812-08	Sampled:	04/24/08 11:34	Received:	04/24/08 16:44

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008 19:00
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008 01:43
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008 20:51

Client ID:	MPT-09-MW02S-0408	Lab ID:	B802812-09	Sampled:	04/24/08 12:54	Received:	04/24/08 16:44

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008 19:33
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008 02:04
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008 21:14

Client ID:	MPT-09-MW03S-0408	Lab ID:	B802812-10	Sampled:	04/24/08 13:47	Received:	04/24/08 16:44

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008 20:06
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008 02:25
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008 21:37

Client ID:	MPT-16-FB1-0408	Lab ID:	B802812-11	Sampled:	04/24/08 14:35	Received:	04/24/08 16:44

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	05/08/08		04/30/08	09:42	4/30/2008 20:39
EPA 8270C	05/01/08	06/07/08	04/28/08	12:34	4/29/2008 02:46
FLPRO	05/01/08	06/07/08	04/28/08	12:36	4/28/2008 22:00

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SAMPLE DETECTION SUMMARY

Client ID: MPT-08-MW12S-0408 **Lab ID:** B802812-04

Analyte	Results	Flag	PQL	Units	Method	Notes
TPH (C8-C40)	0.057	I	0.170	mg/L	FLPRO	

Client ID: MPT-09-MW01S-0408 **Lab ID:** B802812-05

Analyte	Results	Flag	PQL	Units	Method	Notes
TPH (C8-C40)	0.056	I	0.170	mg/L	FLPRO	

Client ID: MPT-FF-MW07-0408 **Lab ID:** B802812-06

Analyte	Results	Flag	PQL	Units	Method	Notes
TPH (C8-C40)	0.050	I	0.170	mg/L	FLPRO	

Client ID: MPT-16-MW03S-0408MS/MSD **Lab ID:** B802812-07

Analyte	Results	Flag	PQL	Units	Method	Notes
TPH (C8-C40)	0.059	I	0.170	mg/L	FLPRO	

Client ID: MPT-FF-MW08-0408 **Lab ID:** B802812-08

Analyte	Results	Flag	PQL	Units	Method	Notes
Acenaphthene	0.03	I	0.10	ug/L	EPA 8270C	
Fluorene	0.03	I	0.10	ug/L	EPA 8270C	
Naphthalene	0.04	I	0.10	ug/L	EPA 8270C	
TPH (C8-C40)	0.155	I	0.170	mg/L	FLPRO	

Client ID: MPT-09-MW02S-0408 **Lab ID:** B802812-09

Analyte	Results	Flag	PQL	Units	Method	Notes
1-Methylnaphthalene	0.13		0.10	ug/L	EPA 8270C	
Acenaphthene	0.08	I	0.10	ug/L	EPA 8270C	
Fluorene	0.08	I	0.10	ug/L	EPA 8270C	
Naphthalene	0.10	I	0.10	ug/L	EPA 8270C	
TPH (C8-C40)	0.962		0.170	mg/L	FLPRO	

Client ID: MPT-09-MW03S-0408 **Lab ID:** B802812-10

Analyte	Results	Flag	PQL	Units	Method	Notes
TPH (C8-C40)	0.103	I	0.170	mg/L	FLPRO	

Client ID: MPT-16-FB1-0408 **Lab ID:** B802812-11

Analyte	Results	Flag	PQL	Units	Method	Notes
Naphthalene	0.03	I	0.10	ug/L	EPA 8270C	
Toluene	0.34	I	1.0	ug/L	EPA 8260B	
TPH (C8-C40)	0.143	I	0.170	mg/L	FLPRO	

ANALYTICAL RESULTS

Description: MPT-FF-Trip Blank Cooler J199
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-01
Sampled: 04/23/08 00:00
Sampled By:

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 15:42	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 15:42	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 15:42	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 15:42	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 15:42	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 15:42*	*JAL*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 15:42*	*JAL*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 15:42*	*JAL*	

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Description: MPT-FF-Trip Blank Cooler LB5 | **Lab Sample ID:** B802812-02 | **Received:** 04/24/08 16:44
Matrix: Ground Water | **Sampled:** 04/23/08 00:00 | **Work Order:** B802812
Project: Mayport Fuel Farm | **Sampled By:**

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 16:15	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 16:15	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 16:15	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 16:15	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 16:15	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 16:15*	*JAL*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 16:15*	*JAL*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 16:15*	*JAL*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: MPT-FF-Trip Blank Cooler C3
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-03
Sampled: 04/23/08 00:00
Sampled By:

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 16:48	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 16:48	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 16:48	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 16:48	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 16:48	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 16:48*	*JAL*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 16:48*	*JAL*	
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 16:48*	*JAL*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MPT-08-MW12S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-04
Sampled: 04/23/08 13:50
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 17:21	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 17:21	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 17:21	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 17:21	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 17:21	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 17:21*	*JAL*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 17:21*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 17:21*	*JAL*	

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Description: MPT-08-MW12S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-04
Sampled: 04/23/08 13:50
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Naphthalene [91-20-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:19	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.2*	*1*	*5.00*	*84 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 00:19*	*PL*	

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Description: MPT-08-MW12S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-04
Sampled: 04/23/08 13:50
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.057	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 18:55	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0410*	*1*	*0.0500*	*82 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 18:55*	*PL*	
o-Terphenyl	*0.0884*	*1*	*0.100*	*88 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 18:55*	*PL*	

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Description: MPT-09-MW01S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-05
Sampled: 04/23/08 15:00
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 17:54	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 17:54	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 17:54	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 17:54	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 17:54	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 17:54*	*JAL*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 17:54*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 17:54*	*JAL*	

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Description: MPT-09-MW01S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-05
Sampled: 04/23/08 15:00
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Naphthalene [91-20-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 00:40	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.3*	*1*	*5.00*	*86 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 00:40*	*PL*	

Description:	MPT-09-MW01S-0408	**Lab Sample ID:**	B802812-05	**Received:**	04/24/08 16:44
Matrix:	Ground Water	**Sampled:**	04/23/08 15:00	**Work Order:**	B802812
Project:	Mayport Fuel Farm	**Sampled By:**	Joe Gibson		

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.056	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 19:19	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0448*	*1*	*0.0500*	*90 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 19:19*	*PL*	
o-Terphenyl	*0.0942*	*1*	*0.100*	*94 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 19:19*	*PL*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MPT-FF-MW07-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-06
Sampled: 04/24/08 10:40
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 18:27	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 18:27	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 18:27	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 18:27	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 18:27	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 18:27*	*JAL*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 18:27*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 18:27*	*JAL*	

Description: MPT-FF-MW07-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-06
Sampled: 04/24/08 10:40
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Naphthalene [91-20-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:01	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.1*	*1*	*5.00*	*82 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 01:01*	*PL*	

Description: MPT-FF-MW07-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-06
Sampled: 04/24/08 10:40
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.050	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 20:28	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0447*	*1*	*0.0500*	*89 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 20:28*	*PL*	
o-Terphenyl	*0.0894*	*1*	*0.100*	*89 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 20:28*	*PL*	

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Description: MPT-16-MW03S-0408MS/MSD
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-07
Sampled: 04/24/08 11:29
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 15:08	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 15:08	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 15:08	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 15:08	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 15:08	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 15:08*	*JAL*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 15:08*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 15:08*	*JAL*	

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Description: MPT-16-MW03S-0408MS/MSD
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-07
Sampled: 04/24/08 11:29
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Naphthalene [91-20-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:22	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.1*	*1*	*5.00*	*83 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 01:22*	*PL*	

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Description: MPT-16-MW03S-0408MS/MSD
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-07
Sampled: 04/24/08 11:29
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.059	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 18:32	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0423*	*1*	*0.0500*	*85 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 18:32*	*PL*	
o-Terphenyl	*0.0919*	*1*	*0.100*	*92 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 18:32*	*PL*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MPT-FF-MW08-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-08
Sampled: 04/24/08 11:34
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 19:00	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 19:00	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 19:00	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 19:00	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 19:00	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 19:00*	*JAL*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 19:00*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 19:00*	*JAL*	

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Description: MPT-FF-MW08-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-08
Sampled: 04/24/08 11:34
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Acenaphthene [83-32-9] ^	**0.03**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Fluorene [86-73-7] ^	**0.03**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Naphthalene [91-20-3] ^	**0.04**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 01:43	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.0*	*1*	*5.00*	*81 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 01:43*	*PL*	

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Description: MPT-FF-MW08-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-08
Sampled: 04/24/08 11:34
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.155	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 20:51	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0461*	*1*	*0.0500*	*92 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 20:51*	*PL*	
o-Terphenyl	*0.0868*	*1*	*0.100*	*87 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 20:51*	*PL*	

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Description: MPT-09-MW02S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-09
Sampled: 04/24/08 12:54
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 19:33	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 19:33	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 19:33	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 19:33	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 19:33	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*105 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 19:33*	*JAL*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 19:33*	*JAL*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 19:33*	*JAL*	

Description: MPT-09-MW02S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-09
Sampled: 04/24/08 12:54
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	**0.13**		ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Acenaphthene [83-32-9] ^	**0.08**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Fluorene [86-73-7] ^	**0.08**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Naphthalene [91-20-3] ^	**0.10**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:04	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*3.7*	*1*	*5.00*	*74 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 02:04*	*PL*	

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Description:	MPT-09-MW02S-0408	**Lab Sample ID:**	B802812-09	**Received:**	04/24/08 16:44
Matrix:	Ground Water	**Sampled:**	04/24/08 12:54	**Work Order:**	B802812
Project:	Mayport Fuel Farm	**Sampled By:**	Joe Gibson		

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.962		mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 21:14	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0468*	*1*	*0.0500*	*94 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 21:14*	*PL*	
o-Terphenyl	*0.0905*	*1*	*0.100*	*91 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 21:14*	*PL*	

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Description: MPT-09-MW03S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-10
Sampled: 04/24/08 13:47
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 20:06	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 20:06	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 20:06	JAL	
Toluene [108-88-3] ^	0.28	U	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 20:06	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 20:06	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 20:06*	*JAL*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 20:06*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 20:06*	*JAL*	

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Description: MPT-09-MW03S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-10
Sampled: 04/24/08 13:47
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Naphthalene [91-20-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:25	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.2*	*1*	*5.00*	*83 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 02:25*	*PL*	

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Description: MPT-09-MW03S-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-10
Sampled: 04/24/08 13:47
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.103	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 21:37	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0553*	*1*	*0.0500*	*111 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 21:37*	*PL*	
o-Terphenyl	*0.108*	*1*	*0.100*	*108 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 21:37*	*PL*	

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Description: MPT-16-FB1-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-11
Sampled: 04/24/08 14:35
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Volatile Organic Compounds by GCMS

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzene [71-43-2] ^	0.23	U	ug/L	1	0.23	1.0	8D30017	EPA 8260B	04/30/08 20:39	JAL	
Ethylbenzene [100-41-4] ^	0.34	U	ug/L	1	0.34	1.0	8D30017	EPA 8260B	04/30/08 20:39	JAL	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.21	U	ug/L	1	0.21	1.0	8D30017	EPA 8260B	04/30/08 20:39	JAL	
Toluene [108-88-3] ^	**0.34**	I	ug/L	1	0.28	1.0	8D30017	EPA 8260B	04/30/08 20:39	JAL	
Xylenes (Total) [NA] ^	0.38	U	ug/L	1	0.38	1.0	8D30017	EPA 8260B	04/30/08 20:39	JAL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*106 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 20:39*	*JAL*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*70-135*	*8D30017*	*EPA 8260B*	*04/30/08 20:39*	*JAL*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*80-120*	*8D30017*	*EPA 8260B*	*04/30/08 20:39*	*JAL*	

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Description: MPT-16-FB1-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-11
Sampled: 04/24/08 14:35
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

Semivolatile Organic Compounds by GCMS SIM

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0]	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
2-Methylnaphthalene [91-57-6] ^	0.03	U	ug/L	1	0.03	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Acenaphthene [83-32-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Acenaphthylene [208-96-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Anthracene [120-12-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Benzo(a)anthracene [56-55-3] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Benzo(a)pyrene [50-32-8] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Benzo(b)fluoranthene [205-99-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Benzo(g,h,i)perylene [191-24-2] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Benzo(k)fluoranthene [207-08-9] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Chrysene [218-01-9] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Dibenzo(a,h)anthracene [53-70-3] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Fluoranthene [206-44-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Fluorene [86-73-7] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Naphthalene [91-20-3] ^	**0.03**	I	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Phenanthrene [85-01-8] ^	0.02	U	ug/L	1	0.02	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	
Pyrene [129-00-0] ^	0.01	U	ug/L	1	0.01	0.10	8D28003	EPA 8270C	04/29/08 02:46	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
p-Terphenyl	*4.1*	*1*	*5.00*	*82 %*	*53-132*	*8D28003*	*EPA 8270C*	*04/29/08 02:46*	*PL*	

Description: MPT-16-FB1-0408
Matrix: Ground Water
Project: Mayport Fuel Farm

Lab Sample ID: B802812-11
Sampled: 04/24/08 14:35
Sampled By: Joe Gibson

Received: 04/24/08 16:44
Work Order: B802812

FL Petroleum Range Organics

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	POL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [NA] ^	0.143	I	mg/L	1	0.042	0.170	8D28004	FLPRO	04/28/08 22:00	PL	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
n-Nonatriacontane	*0.0486*	*1*	*0.0500*	*97 %*	*37-189*	*8D28004*	*FLPRO*	*04/28/08 22:00*	*PL*	
o-Terphenyl	*0.0940*	*1*	*0.100*	*94 %*	*68-118*	*8D28004*	*FLPRO*	*04/28/08 22:00*	*PL*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8D30017 - EPA 5030B_MS

Blank (8D30017-BLK1) Prepared: 04/30/2008 09:42 Analyzed: 04/30/2008 12:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl-tert-Butyl Ether	0.21	U	1.0	ug/L							
Benzene	0.23	U	1.0	ug/L							
Toluene	0.28	U	1.0	ug/L							
Ethylbenzene	0.34	U	1.0	ug/L							
Xylenes (Total)	0.38	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*70-135*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*107*	*80-120*			

LCS (8D30017-BS1) Prepared: 04/30/2008 09:42 Analyzed: 04/30/2008 12:56

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl-tert-Butyl Ether	17		1.0	ug/L	20.0		84	67-125			
Benzene	19		1.0	ug/L	20.0		95	80-130			
Toluene	19		1.0	ug/L	20.0		94	80-124			
Ethylbenzene	20		1.0	ug/L	20.0		99	80-127			
m,p-Xylenes	38		2.0	ug/L	40.0		96	80-132			
o-Xylene	19		1.0	ug/L	20.0		96	80-120			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*70-135*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*110*	*80-120*			

Matrix Spike (8D30017-MS1) Prepared: 04/30/2008 09:42 Analyzed: 04/30/2008 13:29

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl-tert-Butyl Ether	20		1.0	ug/L	20.0	0.21 U	100	67-125			
Benzene	22		1.0	ug/L	20.0	0.23 U	110	80-130			
Toluene	22		1.0	ug/L	20.0	0.28 U	109	80-124			
Ethylbenzene	22		1.0	ug/L	20.0	0.34 U	111	80-127			
m,p-Xylenes	46		2.0	ug/L	40.0	0.38 U	116	80-132			
o-Xylene	22		1.0	ug/L	20.0	0.22 U	110	80-120			
Surrogate: Dibromofluoromethane	*55*			*ug/L*	*50.0*		*109*	*70-135*			
Surrogate: Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*55*			*ug/L*	*50.0*		*109*	*80-120*			

Matrix Spike Dup (8D30017-MSD1) Prepared: 04/30/2008 09:42 Analyzed: 04/30/2008 14:02

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl-tert-Butyl Ether	19		1.0	ug/L	20.0	0.21 U	94	67-125	6	36	
Benzene	21		1.0	ug/L	20.0	0.23 U	105	80-130	5	26	
Toluene	21		1.0	ug/L	20.0	0.28 U	103	80-124	6	26	
Ethylbenzene	21		1.0	ug/L	20.0	0.34 U	106	80-127	5	30	
m,p-Xylenes	42		2.0	ug/L	40.0	0.38 U	104	80-132	10	32	
o-Xylene	20		1.0	ug/L	20.0	0.22 U	102	80-120	7	26	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8D30017 - EPA 5030B_MS

Matrix Spike Dup (8D30017-MSD1) Continued Prepared: 04/30/2008 09:42 Analyzed: 04/30/2008 14:02

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*109*	*70-135*			
Surrogate: Toluene-d8	*56*			*ug/L*	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*80-120*			

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 8D28003 - EPA 3510C_MS

Blank (8D28003-BLK1) Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 22:56

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Naphthalene	0.02	U	0.10	ug/L							
2-Methylnaphthalene	0.03	U	0.10	ug/L							
1-Methylnaphthalene	0.02	U	0.10	ug/L							
Acenaphthylene	0.01	U	0.10	ug/L							
Acenaphthene	0.02	U	0.10	ug/L							
Fluorene	0.02	U	0.10	ug/L							
Phenanthrene	0.02	U	0.10	ug/L							
Anthracene	0.02	U	0.10	ug/L							
Fluoranthene	0.01	U	0.10	ug/L							
Pyrene	0.01	U	0.10	ug/L							
Benzo(a)anthracene	0.02	U	0.10	ug/L							
Chrysene	0.01	U	0.10	ug/L							
Benzo(b)fluoranthene	0.02	U	0.10	ug/L							
Benzo(k)fluoranthene	0.02	U	0.10	ug/L							
Benzo(a)pyrene	0.01	U	0.10	ug/L							
Indeno[1,2,3-cd)pyrene	0.02	U	0.10	ug/L							
Dibenzo(a,h)anthracene	0.01	U	0.10	ug/L							
Benzo(g,h,i)perylene	0.02	U	0.10	ug/L							
Surrogate: p-Terphenyl	*4.6*			*ug/L*	*5.00*		*92*	*53-132*			

LCS (8D28003-BS1) Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 23:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Naphthalene	1.3		0.10	ug/L	2.00		64	44-120			
2-Methylnaphthalene	1.4		0.10	ug/L	2.00		68	39-121			
1-Methylnaphthalene	1.4		0.10	ug/L	2.00		69	41-120			
Acenaphthylene	1.5		0.10	ug/L	2.00		73	40-120			
Acenaphthene	1.4		0.10	ug/L	2.00		71	49-120			
Fluorene	1.6		0.10	ug/L	2.00		78	49-120			
Phenanthrene	1.5		0.10	ug/L	2.00		77	56-120			
Anthracene	1.6		0.10	ug/L	2.00		78	48-120			
Fluoranthene	1.9		0.10	ug/L	2.00		95	59-128			
Pyrene	1.8		0.10	ug/L	2.00		89	57-124			
Benzo(a)anthracene	1.6		0.10	ug/L	2.00		79	53-120			
Chrysene	1.5		0.10	ug/L	2.00		74	59-128			
Benzo(b)fluoranthene	1.8		0.10	ug/L	2.00		90	59-120			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 8D28003 - EPA 3510C_MS

LCS (8D28003-BS1) Continued Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 23:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzo(k)fluoranthene	1.6		0.10	ug/L	2.00		82	53-128			
Benzo(a)pyrene	1.7		0.10	ug/L	2.00		86	44-120			
Indeno(1,2,3-cd)pyrene	1.1		0.10	ug/L	2.00		54	34-120			
Dibenzo(a,h)anthracene	1.1		0.10	ug/L	2.00		56	35-122			
Benzo(g,h,i)perylene	0.96		0.10	ug/L	2.00		48	41-120			
Surrogate: p-Terphenyl	*4.4*			*ug/L*	*5.00*		*89*	*53-132*			

Matrix Spike (8D28003-MS1) Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 23:38

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Naphthalene	1.4		0.10	ug/L	2.00	0.02 U	68	44-120			
2-Methylnaphthalene	1.4		0.10	ug/L	2.00	0.03 U	71	39-121			
1-Methylnaphthalene	1.4		0.10	ug/L	2.00	0.02 U	71	41-120			
Acenaphthylene	1.5		0.10	ug/L	2.00	0.01 U	74	40-120			
Acenaphthene	1.4		0.10	ug/L	2.00	0.02 U	72	49-120			
Fluorene	1.6		0.10	ug/L	2.00	0.02 U	80	49-120			
Phenanthrene	1.5		0.10	ug/L	2.00	0.02 U	77	56-120			
Anthracene	1.6		0.10	ug/L	2.00	0.02 U	81	48-120			
Fluoranthene	1.9		0.10	ug/L	2.00	0.01 U	93	59-128			
Pyrene	1.8		0.10	ug/L	2.00	0.01 U	88	57-124			
Benzo(a)anthracene	1.6		0.10	ug/L	2.00	0.02 U	78	53-120			
Chrysene	1.5		0.10	ug/L	2.00	0.01 U	76	59-128			
Benzo(b)fluoranthene	1.8		0.10	ug/L	2.00	0.02 U	90	59-120			
Benzo(k)fluoranthene	1.7		0.10	ug/L	2.00	0.02 U	86	53-128			
Benzo(a)pyrene	1.7		0.10	ug/L	2.00	0.01 U	85	44-120			
Indeno(1,2,3-cd)pyrene	1.1		0.10	ug/L	2.00	0.02 U	54	34-120			
Dibenzo(a,h)anthracene	1.1		0.10	ug/L	2.00	0.01 U	56	35-122			
Benzo(g,h,i)perylene	0.88		0.10	ug/L	2.00	0.02 U	44	41-120			
Surrogate: p-Terphenyl	*4.3*			*ug/L*	*5.00*		*87*	*53-132*			

Matrix Spike Dup (8D28003-MSD1) Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 23:59

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Naphthalene	1.4		0.10	ug/L	2.00	0.02 U	68	44-120	0.1	31	
2-Methylnaphthalene	1.4		0.10	ug/L	2.00	0.03 U	69	39-121	2	30	
1-Methylnaphthalene	1.4		0.10	ug/L	2.00	0.02 U	69	41-120	3	30	
Acenaphthylene	1.4		0.10	ug/L	2.00	0.01 U	71	40-120	5	21	
Acenaphthene	1.4		0.10	ug/L	2.00	0.02 U	70	49-120	4	24	
Fluorene	1.5		0.10	ug/L	2.00	0.02 U	76	49-120	5	19	
Phenanthrene	1.5		0.10	ug/L	2.00	0.02 U	74	56-120	4	14	
Anthracene	1.6		0.10	ug/L	2.00	0.02 U	79	48-120	3	13	
Fluoranthene	1.8		0.10	ug/L	2.00	0.01 U	88	59-128	5	10	
Pyrene	1.7		0.10	ug/L	2.00	0.01 U	83	57-124	6	10	
Benzo(a)anthracene	1.5		0.10	ug/L	2.00	0.02 U	76	53-120	3	11	
Chrysene	1.4		0.10	ug/L	2.00	0.01 U	72	59-128	5	10	

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 8D28003 - EPA 3510C_MS

Matrix Spike Dup (8D28003-MSD1) Continued Prepared: 04/28/2008 12:34 Analyzed: 04/28/2008 23:59

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzo(b)fluoranthene	1.7		0.10	ug/L	2.00	0.02 U	85	59-120	6	17	
Benzo(k)fluoranthene	1.6		0.10	ug/L	2.00	0.02 U	81	53-128	6	13	
Benzo(a)pyrene	1.6		0.10	ug/L	2.00	0.01 U	82	44-120	4	12	
Indeno(1,2,3-cd)pyrene	1.1		0.10	ug/L	2.00	0.02 U	54	34-120	0.6	13	
Dibenzo(a,h)anthracene	1.1		0.10	ug/L	2.00	0.01 U	54	35-122	3	19	
Benzo(g,h,i)perylene	0.88		0.10	ug/L	2.00	0.02 U	44	41-120	0.3	16	
Surrogate: p-Terphenyl	*4.1*			*ug/L*	*5.00*		*83*	*53-132*			

FL Petroleum Range Organics - Quality Control

Batch 8D28004 - EPA 3510C

Blank (8D28004-BLK1) Prepared: 04/28/2008 12:36 Analyzed: 04/28/2008 16:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	0.042	U	0.170	mg/L							
Surrogate: n-Nonatriacontane	*0.0300*			*mg/L*	*0.0500*		*60*	*37-189*			
Surrogate: o-Terphenyl	*0.0885*			*mg/L*	*0.100*		*88*	*68-118*			

LCS (8D28004-BS1) Prepared: 04/28/2008 12:36 Analyzed: 04/28/2008 17:22

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.79		0.170	mg/L	1.70		105	55-118			
Surrogate: n-Nonatriacontane	*0.0481*			*mg/L*	*0.0500*		*96*	*42-193*			
Surrogate: o-Terphenyl	*0.0972*			*mg/L*	*0.100*		*97*	*82-142*			

Matrix Spike (8D28004-MS1) Prepared: 04/28/2008 12:36 Analyzed: 04/28/2008 17:45

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.63		0.170	mg/L	1.70	0.0592	93	65-126			
Surrogate: n-Nonatriacontane	*0.0440*			*mg/L*	*0.0500*		*88*	*37-189*			
Surrogate: o-Terphenyl	*0.0886*			*mg/L*	*0.100*		*89*	*68-118*			

Matrix Spike Dup (8D28004-MSD1) Prepared: 04/28/2008 12:36 Analyzed: 04/28/2008 18:08

Source: B802812-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
TPH (C8-C40)	1.76		0.170	mg/L	1.70	0.0592	100	65-126	8	15	
Surrogate: n-Nonatriacontane	*0.0491*			*mg/L*	*0.0500*		*98*	*37-189*			
Surrogate: o-Terphenyl	*0.0938*			*mg/L*	*0.100*		*94*	*68-118*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value. The associated sample note or project narrative indicate the causative reason.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.

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TETRA TECH NUS, INC. — CHAIN OF CUSTODY — NUMBER 26342 B802812 PAGE 1 OF 1

PROJECT NO: 112G00412	FACILITY: Mayport - FBIF	PROJECT MANAGER: Mark Peterson	PHONE NUMBER: (904) 636-6125	LABORATORY NAME AND CONTACT: ENCO
SAMPLERS (SIGNATURE): Joe Gibson		FIELD OPERATIONS LEADER: Joe Gibson	PHONE NUMBER: (904) 636-6125	ADDRESS: 4810 Executive Park Ct Ste 211
		CARRIER/WAYBILL NUMBER: Drop off		CITY, STATE: Jacksonville, FL 32216

STANDARD TAT ☑ RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G
PRESERVATIVE USED: HCL, -, H_2SO_4

TYPE OF ANALYSIS: BTEX + MTBE (8260B); PAH (8270C); TRPH (FL PRO)

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	BTEX + MTBE (8260B)	PAH (8270C)	TRPH (FL PRO)	COMMENTS
4/23	0000	MPT-FF-Tripblank				QC	G	3	X			Cool to 4°C
〃	1350	MPT-08-MW12S-0408				GW	G	6	X	X	X	
〃	1500	MPT-09-MW01S-0408				GW	G	6	X	X	X	
4/24	1040	MPT-FF-MW07-0408				GW	G	6	X	X	X	
〃	1129	MPT-16-MW03S-0408				GW	G	6	X	X	X	
〃	1129	MPT-16-MW03S-0408-MS				QC	G	6	X	X	X	MS
〃	1129	MPT-16-MW03S-0408-MSD				QC	G	6	X	X	X	MSD
〃	1134	MPT-FF-MW08-0408				GW	G	6	X	X	X	
〃	1254	MPT-09-MW02S-0408				GW	G	6	X	X	X	
〃	1347	MPT-09-MW03S-0408				GW	G	6	X	X	X	
〃	1435	MPT-16-FB1-0408				QC	G	6	X	X	X	Job # CTO 31 Fuel Farm

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Joe Gibson	4/24/08	1644	1. RECEIVED BY: [signature]	4/24/08	1644
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: (199 2.6°C) (LBS 1.3°C) (C3 1.9°C)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R FORM NO. TtNUS-001

APPENDIX D

FIELD FORMS

Tetra Tech NUS, Inc.

EQUIPMENT CALIBRATION LOG

PROJECT NAME : ______________________ INSTRUMENT NAME/MODEL: ______________________

SITE NAME: ______________________ MANUFACTURER: ______________________

PROJECT No.: ______________________ SERIAL NUMBER: ______________________

Date of Calibration	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
			Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: _____
Project No.: _____

[] Domestic Well Data
[] Monitoring Well Data
[] Other Well Type: _____
[] QA Sample Type: _____

Sample ID No.: _____
Sample Location: _____
Sampled By: _____
C.O.C. No.: _____
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: / Time:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method:								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: _____ **Project No.:** _____

Location: _____ **Personnel:** _____

Weather Conditions: _____ **Measuring Device:** _____

Tidally Influenced: Yes ___ No ___ **Remarks:** _____

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments

* All measurements to the nearest 0.01 foot

Standard Operating Procedure for Investigative Derived Waste

1. At Naval Station Mayport (NAVSTA), Investigative Derived Waste is defined as soil or water that is generated from the remedial investigation of contaminated sites. IDW can include, but not be limited to, drill cuttings, purge water, soil, sediment or decontamination water. Operations usually associated with IDW include soil and groundwater sampling, monitoring well installation and decontamination of equipment used for sampling and installation.

2. IDW will be containerized when generated and kept at the site of generation as coordinated with the tenant occupying the area. Drums can be moved to other locations in the general area to accommodate NAVSTA personnel movement or requirements within reason. A central location can be identified prior to the sampling event if in the best interest of the government.

3. IDW drums shall be clearly identified with "Awaiting Analytical" sticker visible containing contractor name and phone number, generation location, date of generation, NAVSTA point of contact, and contents of drum. A drum log using the format of Enclosure (1) shall be completed for each drum and provided to the NAVSTA point of contact when drum is generated. Drums shall be inspected weekly until disposal using Enclosure (2) and inspection form shall be faxed to NAVSTA Environmental Department. When sample results have been received, the analytical shall be provided to the NAVSTA point of contact for waste and disposal determination. The contractor shall be responsible for disposal of all IDW. IDW with analytical results less than Cleanup Target Levels identified in 62-777 Florida Administrative Code may be disposed onsite if sufficient soil is at location. IDW may not be disposed in storm drain or on an impervious surface. In certain conditions, non-hazardous IDW may be disposed through a sewer lift station to the Wastewater Treatment Plant with prior written approval by the Utility Engineer at Public Works Center Jacksonville.

4. If the IDW is identified as hazardous waste, the contractor shall manage drums per the NAVSTA Hazardous Waste Management Plan (SOPA(ADMIN) MYPTINST 5090.1F) and shall be disposed through the NAVSTA Hazardous Waste Storage Facility with the contractor paying disposal cost to PWC (2005 cost approximately $1.75/pound). IDW that is not hazardous waste but does not meet the Target Levels to be disposed onsite, the contractor shall arrange for the IDW to be legally transported and disposed at an approved facility. The contractor will coordinate with NAVSTA personnel to sign the non-hazardous manifest as generator.

Revised 1/24/2006

Naval Station Mayport Investigative Derived Waste Drum Log

Contractor Company Name: _____

Individual Name: _____

Location Name: _____
(i.e. SWMU number, Bldg number)

Date of generation: _____

Expected date of results: _____

Drum Number: __various (See Table Below for additional info.)_____
(Use site # and unique drum number)

Drum No.	**Type of Waste** (i.e. drill cuttings, purge water)	**Quantity of Waste** (gals/lbs)	**Date**	**Individual's Initials/ Name**

Enclosure (1)

Revised 1/24/2006

WEEKLY INVESTIGATIVE DERIVED WASTE INSPECTION CHECKLIST
NAVAL STATION MAYPORT

This form is to be completed legibly by the contractor when conducting weekly inspections of IDW drums.

All discrepancies shall be corrected immediately. Failure to correct discrepancy(s) shall result in contractual action.

Date: _____

Inspector: _____

Company Name: _____

		YES	NO
1.	Are all containers properly labeled/dated?		
2.	Are containers compatible with contents?		
3.	Are all containers in good condition?		
4.	Are containers closed?		
5.	Are lids/caps/bolts/rings tight?		
6.	Are any containers dated longer than 60 days?		
7.	Number of containers inspected. _____		
Comments:			
Date/nature of repairs or remedial actions:			
Copy to: NAVSTA Mayport N4E FAX: 270-7398 (EACH FRIDAY)			

Enclosure (2)

Revised 1/24/2006