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LIMITED TANK CLOSURE REPORT FOR ABOVEGROUND STORAGE TANK NUMBER 202

NS MAYPORT FL

3/5/2001

AEROSTAR ENVIRONMENTAL SERVICES

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

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

11200-1 St. Johns Industrial Parkway • Jacksonville, Florida 32246 • 904/565-2820 • FAX 904/565-2830
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LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 202
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 2828

PREPARED BY:

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

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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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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 ID	Sample Date Collected	Sample Depth to Water (ft)	Sample Interval (fbls)	OVA 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	<1.8	**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	<1.8	**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

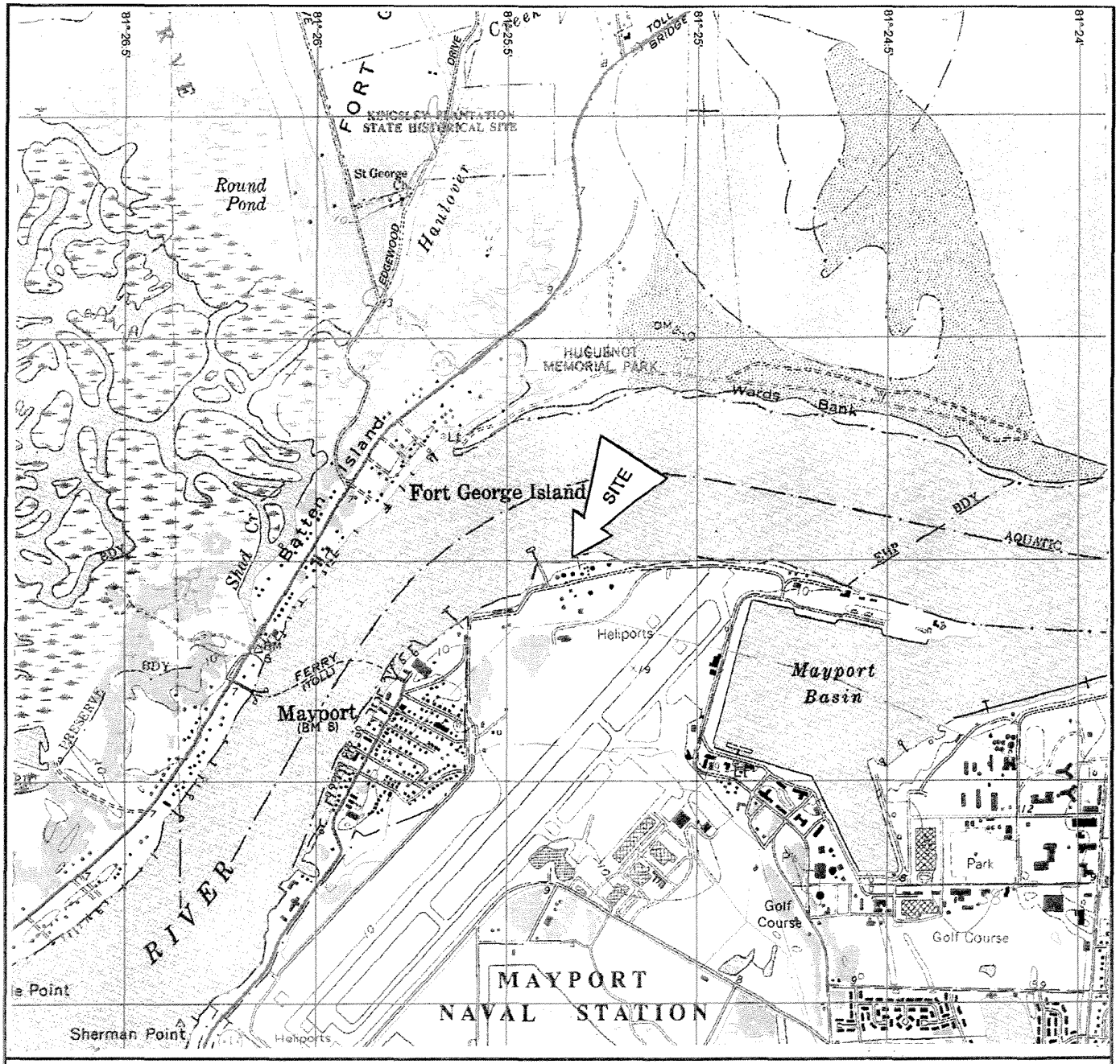
TABLE 3: GROUNDWATER LABORATORY ANALYTICAL SUMMARY

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

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

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	1-Methyl napthalene	2-Methyl napthalene	Fluorene	Fluor-anthene	Pyrene	Lead	EDB	TRPH 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

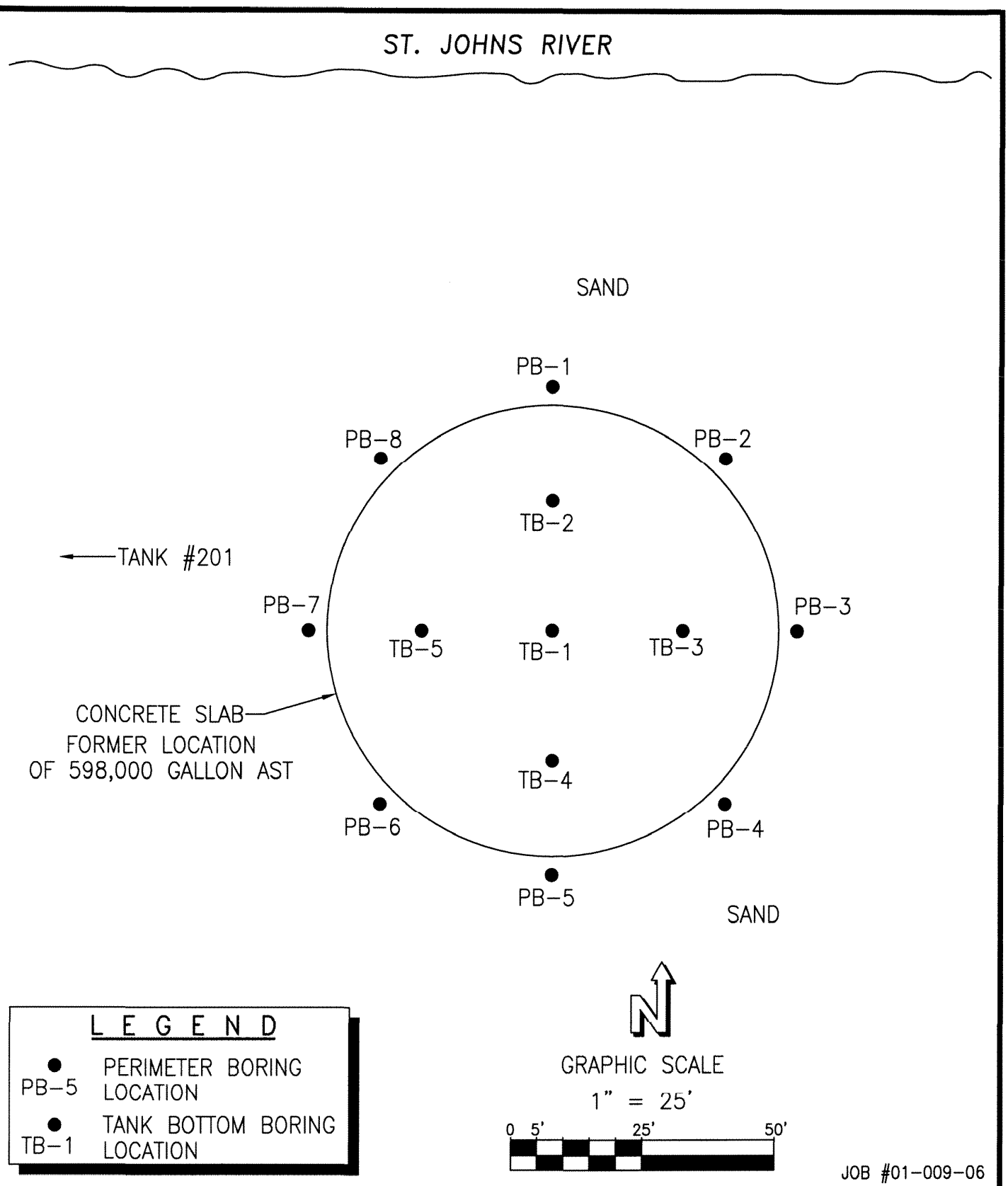
FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP

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



JOB #01-009-06

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	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.

Printed on recycled paper.

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

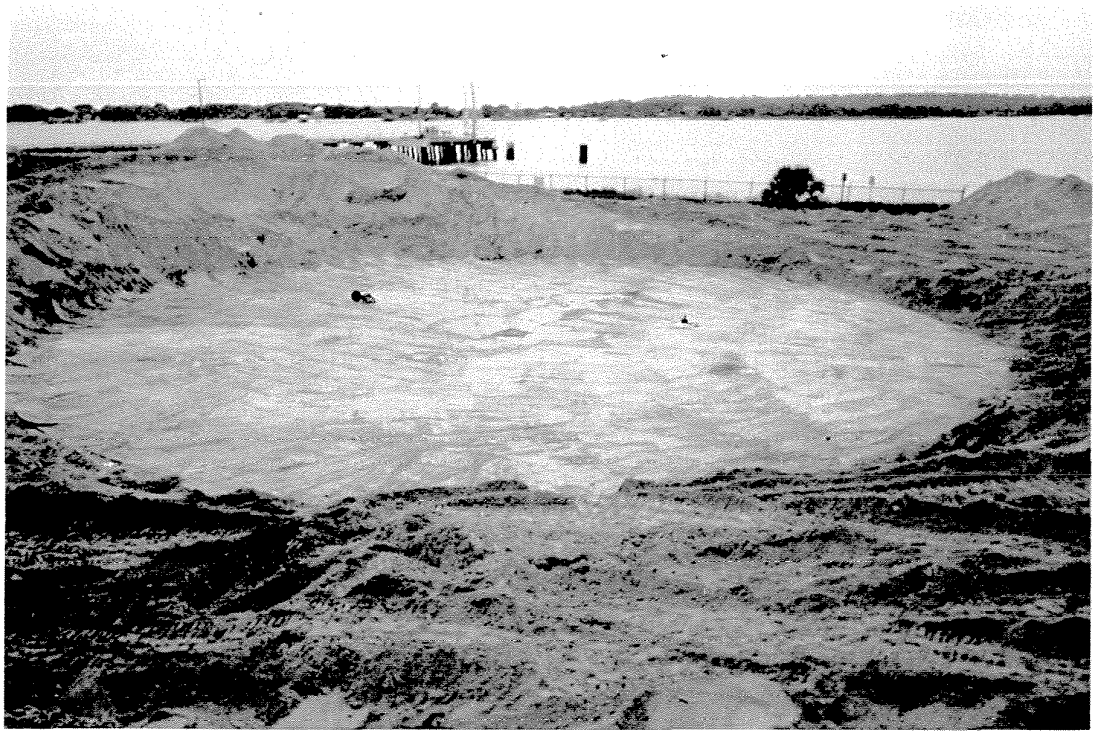
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

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

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

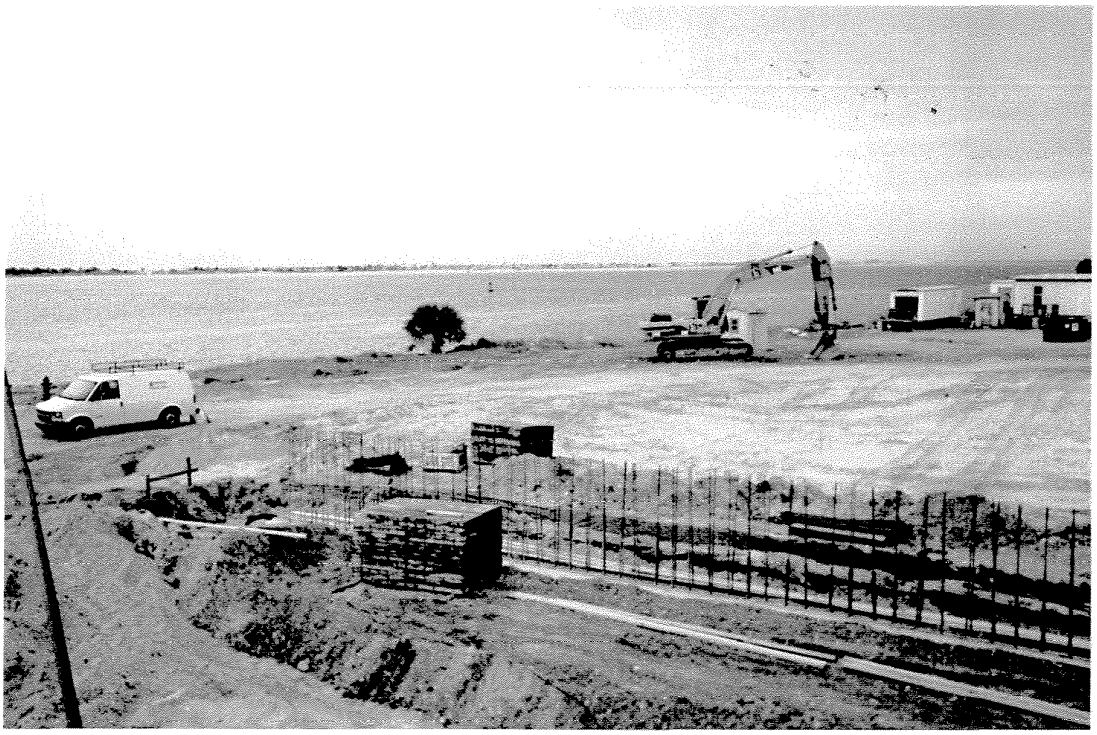
Marathon Branch Office
2796 Overseas Hwy., Suite 221
Marathon, FL 33050
305-289-2310

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



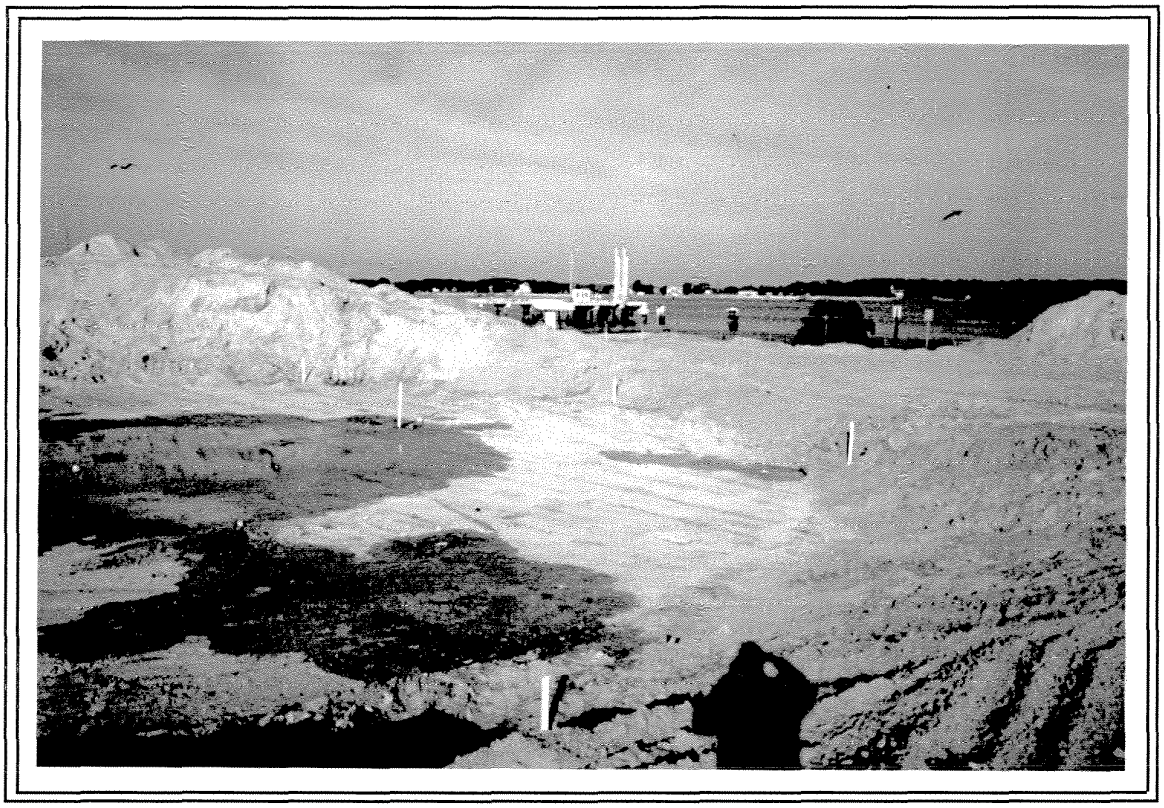
1) View facing north at Tank #202 bottom St. Johns River.

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



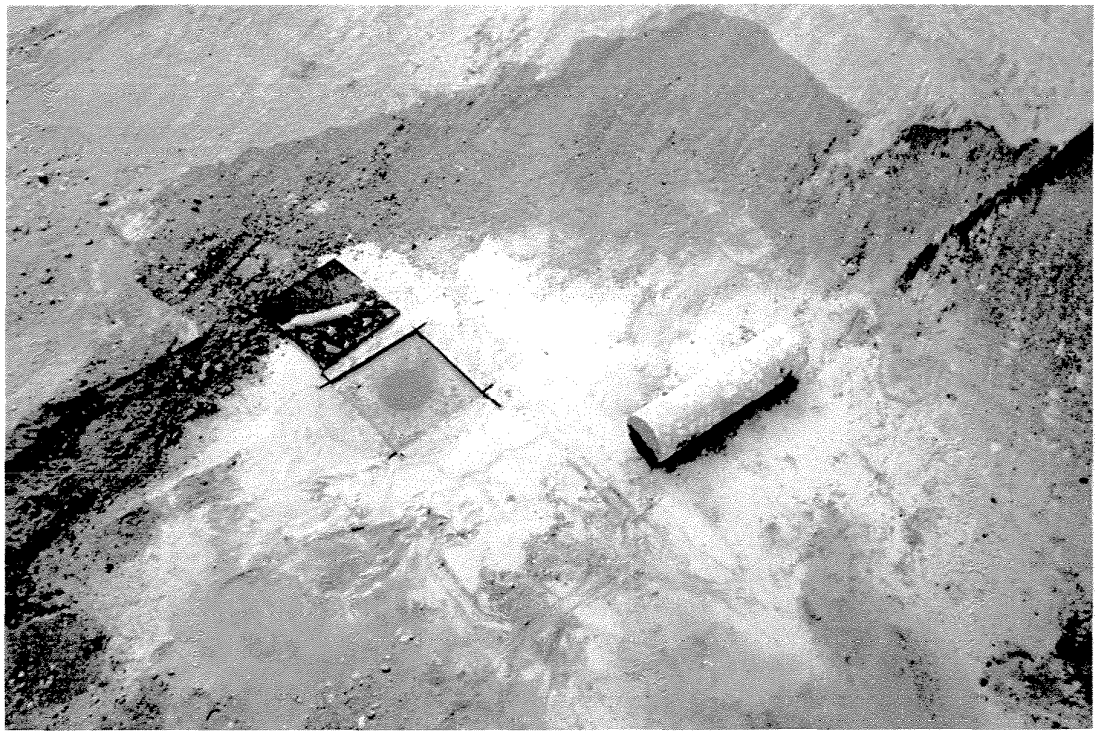
3) View facing east across newly constructed wall with St. Johns River in background.

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

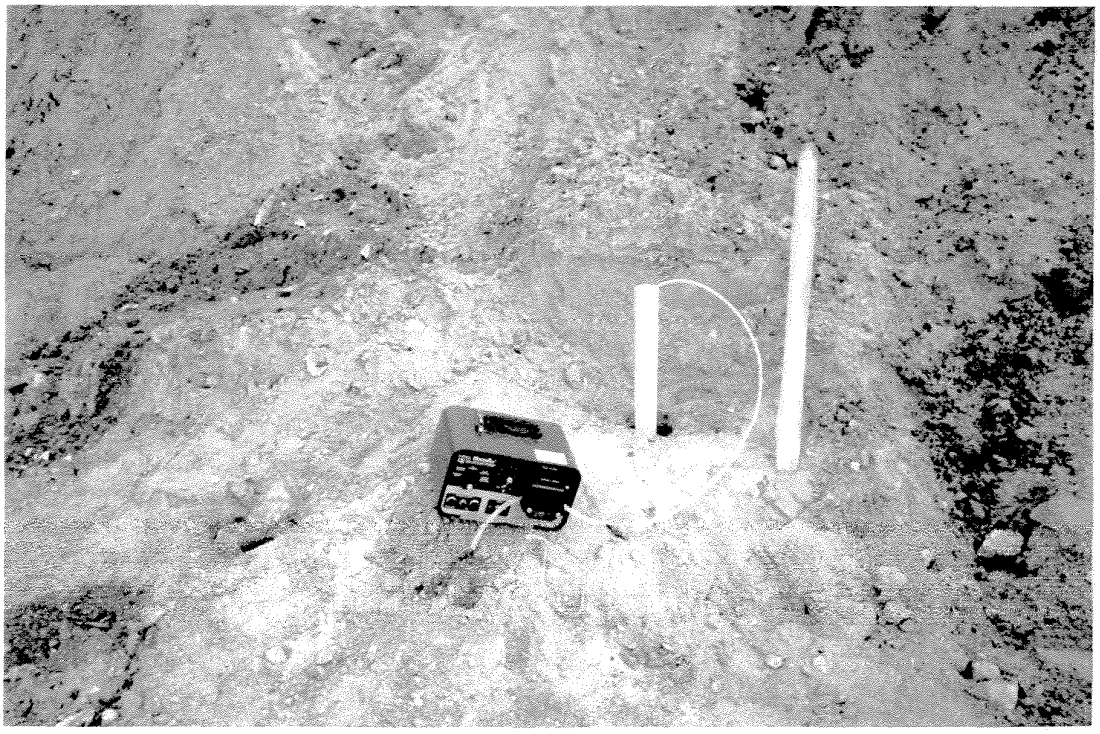


5) View facing north at soil/groundwater sampling locations in tank bottom and northern perimeter.

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

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-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.

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-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.

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-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.

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-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.

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-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.

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-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.

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	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.

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-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.

ENCO LABORATORIES
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PROJECT NAME : Tank Closure

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.

ENCO LABORATORIES
REPORT # : JAX15379
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REFERENCE : MAYPORT NAVAL ST.
PROJECT NAME : Tank Closure

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.

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	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.

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-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.

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.

ENCO LABORATORIES
REPORT # : JAX15379
DATE REPORTED: January 31, 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	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

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

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.

ENCO LABORATORIES
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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.

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

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.

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

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.

ENCO LABORATORIES
REPORT # : JAX15380
DATE REPORTED: January 31, 2001
REFERENCE : 2624
PROJECT NAME : MAYPORT AST CLOSURE

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.

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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.

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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.

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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.

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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.

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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		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.

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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.

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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.

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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		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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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	103	77	37-161
Date Analyzed	01/24/01	01/27/01	

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

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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.

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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.

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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

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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

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