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NS MAYPORT
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LIMITED TANK CLOSURE REPORT FOR ABOVEGROUND STORAGE TANK NUMBER 201
NS MAYPORT FL
1/19/2001
AEROSTAR ENVIRONMENTAL SERVICES

LIMITED TANK CLOSURE REPORT
ABOVEGROUND STORAGE TANK NO. 201
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
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

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

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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 ID	Date Collected	Depth to Water (ft)	Sample Interval (fbs)	OVA 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

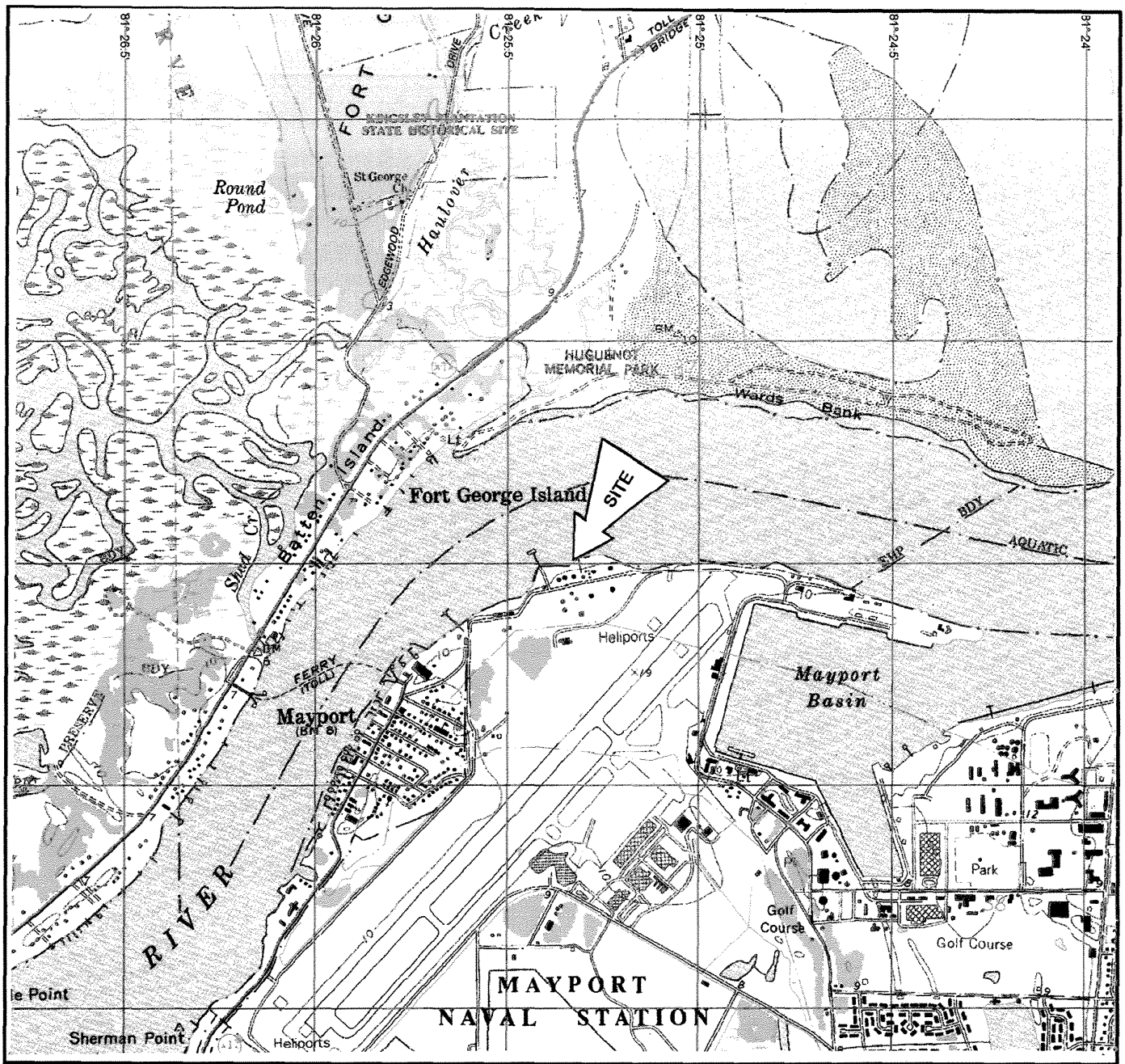
Facility Name: Reliable Mech./Mayport #2464 **Facility ID No: 168626008**

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]	49[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

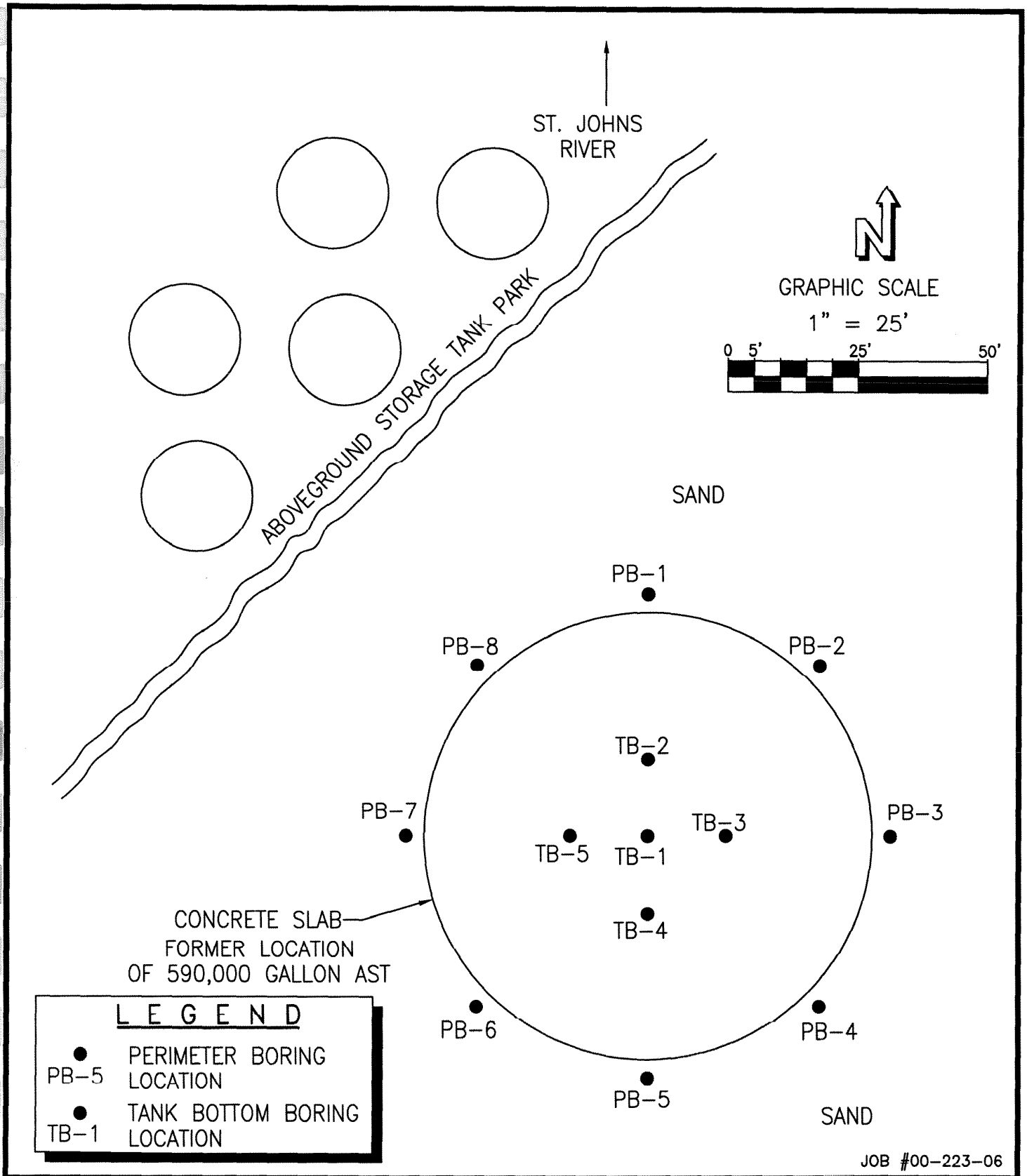


FIGURE 2. SITE PLAN AND SAMPLING LOCATIONS

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

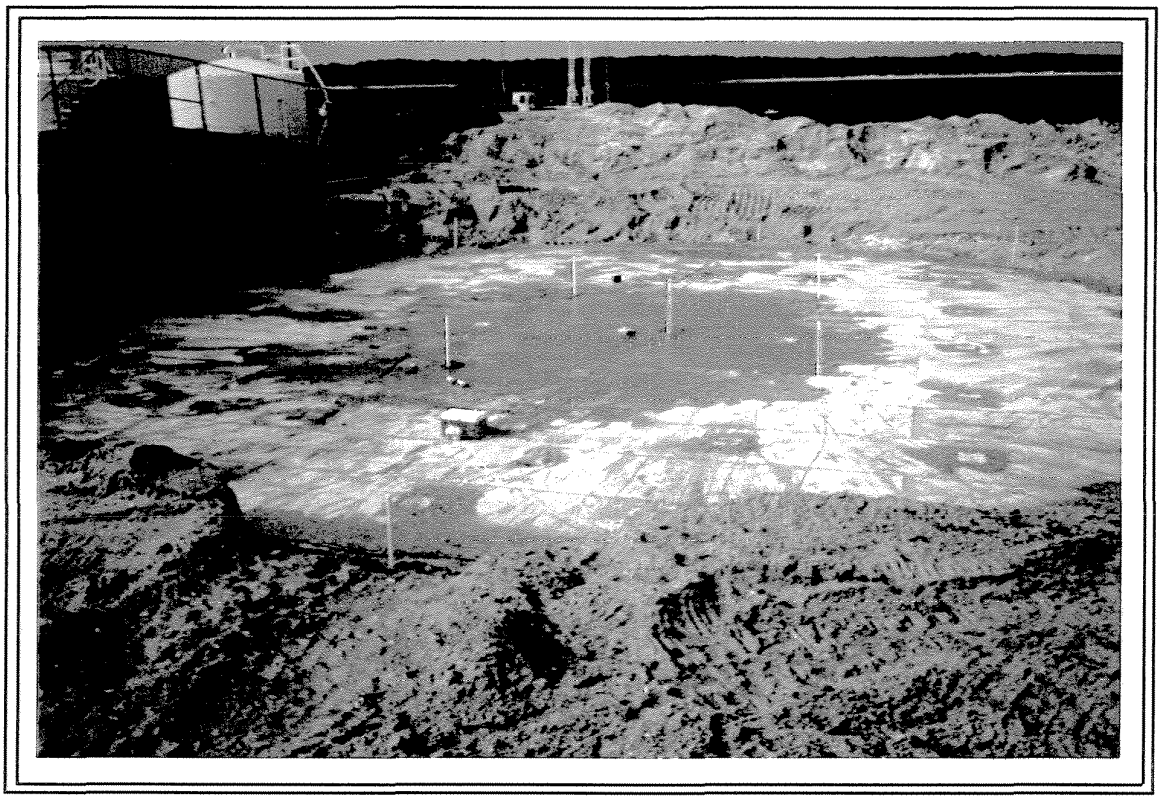
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619
813-744-6100

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

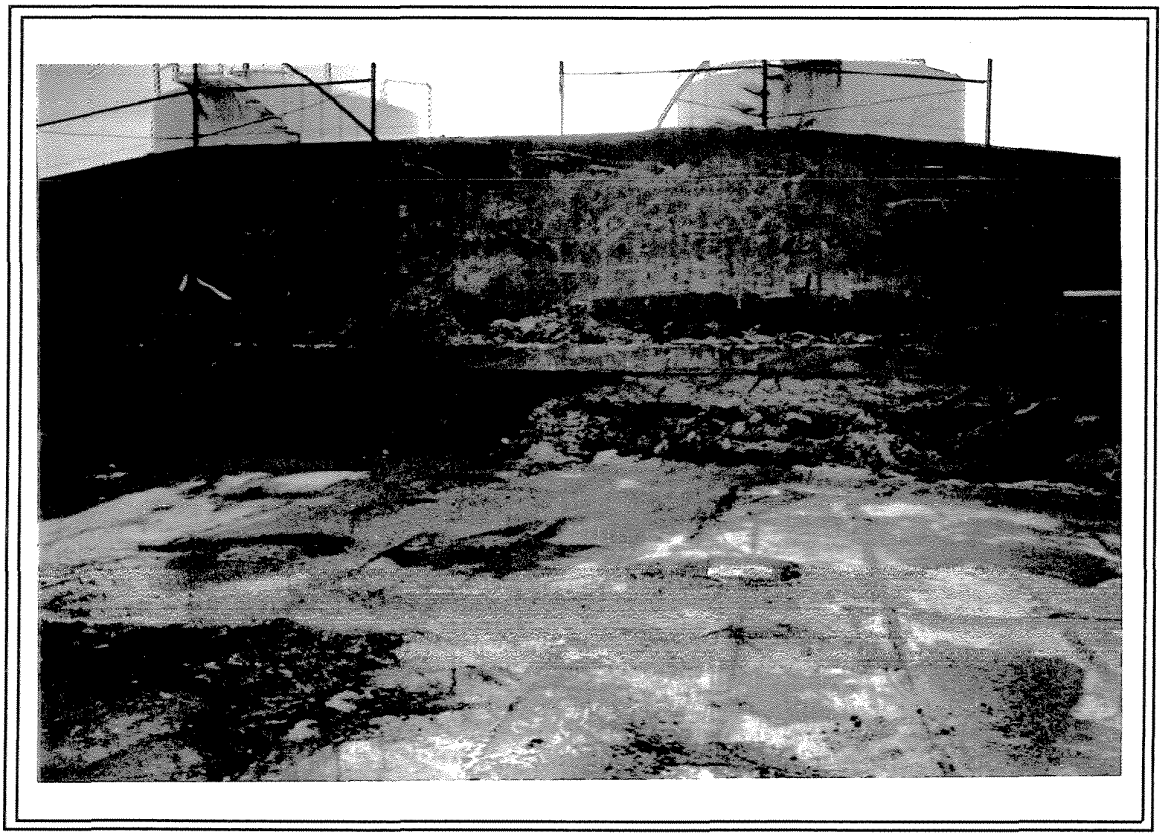
South District
2295 Victoria Ave.,
Suite 364
Fort Myers, FL 33901
941-332-6975

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

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



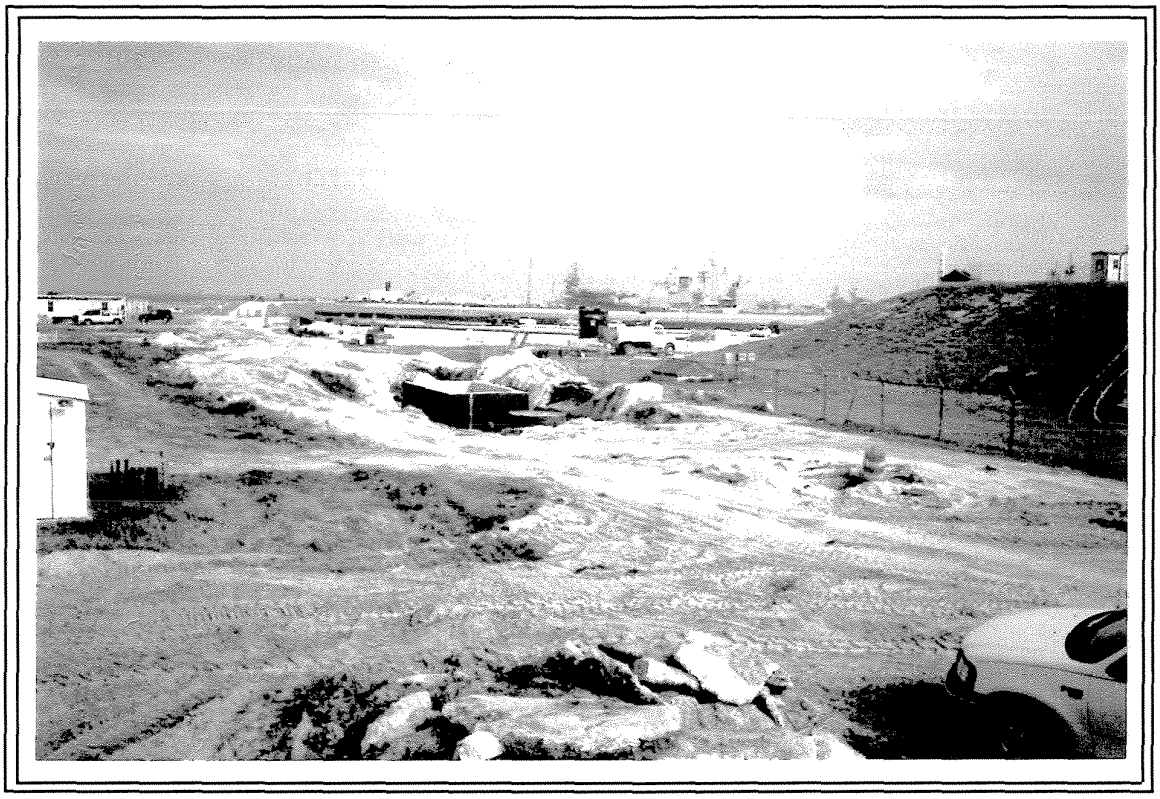
1) Looking north across tank bottom showing soil/groundwater sampling points.



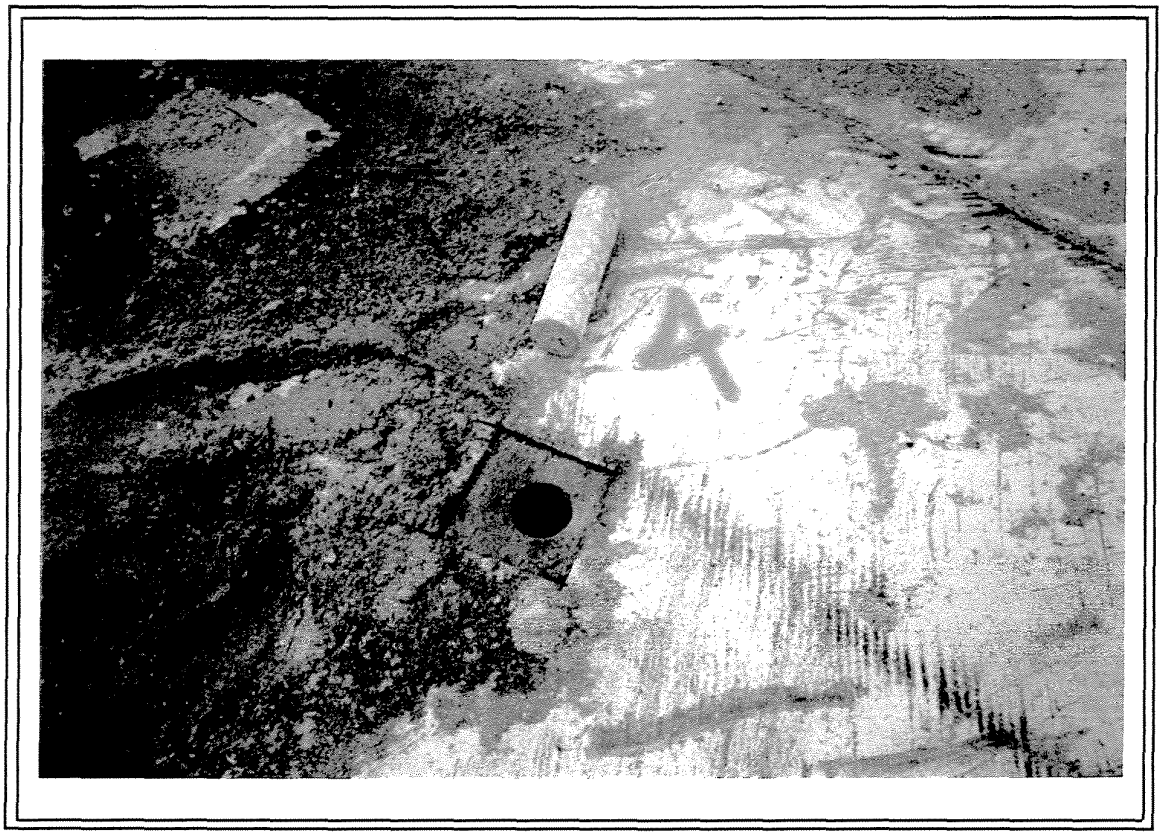
2) Looking northwest at 20,000-gallon ASTs containing lube oil.

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.

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

RESULTS OF ANALYSIS

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.

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

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).

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-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.

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

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.

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

RESULTS OF ANALYSIS

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).

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-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.

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

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	**TB-5**	**TB-6** DUP	**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.

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

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.

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

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.

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	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.

RESULTS OF ANALYSIS

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.

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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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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.

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.

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	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

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

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

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

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.

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 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.

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

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.

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 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.

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 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.

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.

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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.

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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.

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.

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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.

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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.

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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.

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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.

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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

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