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LETTER REPORT REGARDING ANNUAL INTERIM MEASURE MONITORING REPORT FOR SOLID WASTE MANAGEMENT UNITS 6 AND 7 NS MAYPORT FL
2/25/2000
HARDING LAWSON ASSOCIATES

Harding Lawson Associates

February 25, 2000

Commanding Officer
Attn: Adrienne Wilson, Code 1852
Southern Division Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston SC 29418

SUBJECT: Annual Monitoring Report for Solid Waste Management Units 6 and 7 U.S. Naval Station, Mayport, Florida Contract No. N62467-89-D-0317/028

Dear Adrienne:

This annual Interim Measure (IM) Monitoring Report presents quarterly field and laboratory analytical data acquired during 1999 at Solid Waste Management Units (SWMUs) 6 and 7, which are located along the St. Johns River at U.S. Naval Station (NAVSTA) Mayport, Florida (Figures 1 and 2, Attachment A). These quarterly monitoring data will be part of the information used to assess whether or not the IM at SWMUs 6 and 7 was successful in meeting its objectives.

The objectives for the IM at SWMUs 6 and 7 are as follows:

1) The IM must remove light non-aqueous phase liquid (LNAPL) to a thickness of less than 0.01 foot.

2) The IM must minimize the lateral migration of the LNAPL, thereby preventing the discharge of LNAPL into the St. Johns River.

3) The IM must reduce the concentration of petroleum hydrocarbons and related organic chemicals in the vadose zone such that they do not exceed human health and leachability criteria, if applicable, specified in Chapter 62-770, Florida Administrative code (FAC), Petroleum Contaminated Site Cleanup Criteria (effective September 23, 1997).

4) The IM must remove LNAPL so that it is not a source of dissolved petroleum-related constituents in groundwater that exceed Florida Department of Environmental Protection's (FDEP) groundwater (Chapter 62-777 FAC) and surface water (Chapter 62-302, FAC) quality criteria and/or present a threat to human and ecological receptors (ABB-ES, 1996; and Harding Lawson Associates, Inc. [HLA], 1998).

LNAPL thickness, groundwater-level measurements, and chemical analysis of soil and groundwater samples will be evaluated to assess the effectiveness of the IM with respect to the four objectives.

Chemical analysis of the soil samples will be used to assess whether or not the bioventing has resulted in bioremediation of total recoverable petroleum hydrocarbons (TRPH) and petroleum-related volatile organic compounds (VOCs) and semivolatile organic compounds (Objective 3). The chemical analysis of soil samples was not included in the annual groundwater monitoring program conducted in 1999. In addition, LNAPL thickness and groundwater level measurements were made monthly by Bechtel Environmental, Inc., (Bechtel) and Battelle in 1999 (Objectives 1 and 2). The LNAPL and water level data was reported to the NAVSTA Mayport Partnering Team by Bechtel and Battelle during 1999.

This report provides field and laboratory analytical results for quarterly groundwater samples that were collected in 1999. The 1999 analytical results are be part of the SWMU 6 & 7 monitoring program data that will be used to assess whether or not biodegradation is occurring, whether or not dissolved petroleum-related constituents are present in groundwater, and/or the need for conducting a human health and/or ecological risk assessment (Objectives 1 and 4).

Groundwater Sample Collection and Analysis. Groundwater samples were collected using low-flow purging (typically a rate less than 1 liter per minute) and sampling with a peristaltic pump and disposable Teflon™ tubing dedicated to each well (U.S. Environmental Protection Agency [USEPA], 1996). The Teflon™ tubing was placed in the middle of the well screen interval. Groundwater samples were not collected from a well(s) that contains LNAPL.

Prior to groundwater sample collection, the monitoring wells were purged to remove stagnant water in the well casing without causing the suspension of silts and clays. The purging and sampling were conducted at flow rates that attempted to obtain a turbidity of 10 nephelometric turbidity units or less.

The purging was considered complete when a minimum of three well volumes of water was removed, and the groundwater parameters (temperature, pH, specific conductance, salinity, dissolved oxygen, oxidation potential, and turbidity) have stabilized (within 10 percent of three previous measurements). The purpose of the purging process was to ensures good conductance between the well and the surrounding aquifer matrix, and that the groundwater sample was representative of the well screen zone.

Groundwater samples were collected before it contacted the peristaltic pump, and were placed in precleaned containers supplied by the analytical laboratory. Sample aliquots were filled in the order of TRPH first, polynuclear aromatic hydrocarbons (PAHs) second, and then VOCs. VOCs were collected last by slowly pulling the Teflon™ tubing out of the well to minimize agitation of the water in the monitoring well and then carefully transferring the contents of the tube to a VOC vial with a Teflon™ septa cap. The groundwater samples were placed in a cooler, refrigerated with ice, and sent overnight under chain-of-custody protocol to an off-site laboratory for analysis.

During each quarter the groundwater samples were analyzed by an offsite laboratory for methane (ethane and ethene were also included in this analysis) and sulfide, and field measurements were made for the following:

- carbon dioxide
- nitrate
- sulfate
- ferrous iron
- pH
- dissolved oxygen and
- oxidation-reduction potential.

During two of the sampling events the groundwater samples were also analyzed for the following:

- volatile organic compounds (USEPA Method 8021B),
- PAHs (USEPA Method 8100), and
- TRPH (FL-PRO method).

Groundwater Sampling Results. The field measurements made during each of the four quarterly sampling events are provided in Table 1 (Attachment B). The analytical results are provided in Attachment C, and a summary of the laboratory analytical results for the biannual quarterly sampling events is provided in Table 2 (Attachment B). Regulatory (promulgated and unpromulgated) screening criteria are presented in Table 3 (Attachment B). Monitoring well locations are shown on Figure 3 (Attachment A).

Monitoring well MPT-S-MW01S could not be located, and is presumed to have been destroyed during renovation of the Resource Conservation and Recovery Act 90-Day Hazardous Waste Storage area (SWMU 10). Monitoring wells MPT-8-MW07S and MPT-8-MW11S were not sampled in 1999 because they were being used as extraction wells.

Groundwater samples were not collected from wells that contained LNAPL. LNAPL was present at monitoring well locations MPT-8-MW02S, MPT-8-MW03S, and MPT-8-MW04S (Table 1).

It appears that bioremediation of the dissolved hydrocarbon related compounds is occurring as evidenced by the anaerobic conditions (e.g., negative Oxidation/Reduction [Redox] and low dissolved oxygen concentrations) and the presence of nitrite, ferrous iron, sulfide and/or methane at monitoring well locations MPT-8-MW01S, MPT-8-MW04S, MPT-8-MW12S, MPT-8-MW13S, MPT-8-MW13I, MPT-8-MW14S, MPT-8-MW15I, MPT-8-MW17S, and MPT-S-MW03S (Tables 1 and 2). Additional evidence supporting biodegradation of the dissolved hydrocarbons is the presence of carbon dioxide from respiration (Table 1).

Seven PAHs, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, anthracene, fluorene, naphthalene, and phenanthrene were detected in groundwater samples (Tables 2). 1-Methylnaphthalene and 2-methylnaphthalene were detected at concentrations that exceed their respective Chapter 62-777 FAC groundwater criteria (Tables 2 and 3). 2-Methylnaphthalene was detected at a concentration that exceeds its Chapter 62-777 FAC criteria for marine surface water. Naphthalene was detected at a concentration that exceeds its USEPA Region III risk based concentration. The groundwater samples contained PAHs at concentrations that would exceed the Florida surface water quality criteria for total PAHs (Table 3).

Based on the findings from the quarterly monitoring activities conducted by HLA in 1999, IM objectives 1, and 4 have not been met. Because source removal activities are in progress (e.g., the bioventing and bioslurping IM) at SWMUs 6 and 7, human and/or ecological risk assessment activities are not recommended at this time.

The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted protocols and procedures. If conditions are discovered or determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment and recommendations in this document. This document was prepared to provide information for evaluating the IM at SWMUs 6 and 7 at U.S. Naval Station, Mayport, Florida, and should not be construed to apply for any other purpose or site.

If you have any comments or questions concerning this report, or should any additional information become available for this site that would affect the conclusions or recommendations, please contact us.

Respectfully,

HARDING LAWSON ASSOCIATES

Francis K. Lesesne, P.G..
Technical Lead

Attachments:

A – Figures
B – Tables
C – Laboratory Analytical Results

cc: Mr. Randy Bishop, NAVSTA Mayport
Ms. Craig Benedikt, USEPA
Mr. Jim Cason, FDEP

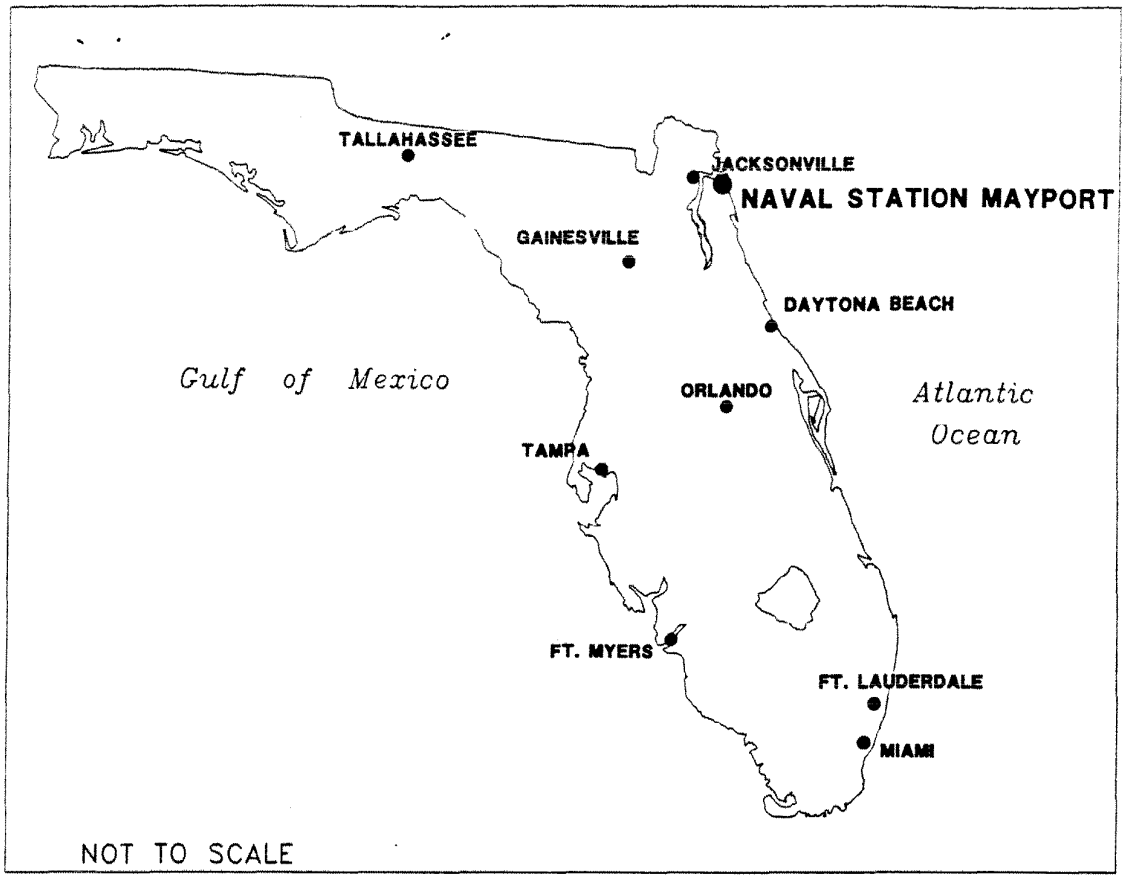
References

ABB-ES. 1996. Corrective Measure Study Group II Solid Waste Management Units, U.S, Naval Station (NAVSTA), Mayport, Florida. Prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (January).

Harding Lawson Associates, Inc. 1998. Interim Measure Monitoring Plan for Bioventing and Bioslurping at Solid Waste Management Units 6 and 7, NAVSTA, Mayport, Florida. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (June).

USEPA. 1996. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region IV, USEPA, Athens Georgia (May).

Attachment A
Figures



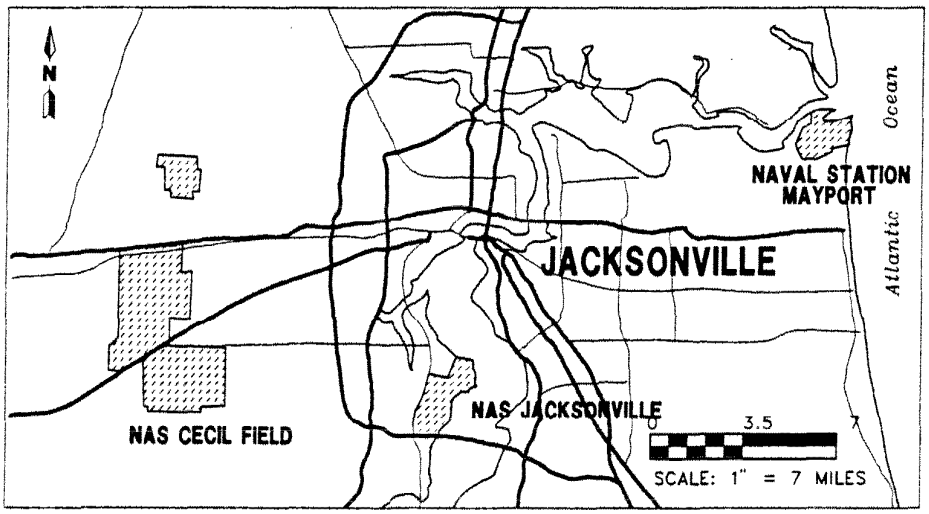


FIGURE 1
FACILITY LOCATION MAP

MAYPORT\MAYLOCAT\KGP-WDW-NP-GLC-JMK-SB\05-24-95

SWMU 6 & 7 QUARTERLY MONITORING PROGRAM

U.S. NAVAL STATION MAYPORT, FLORIDA

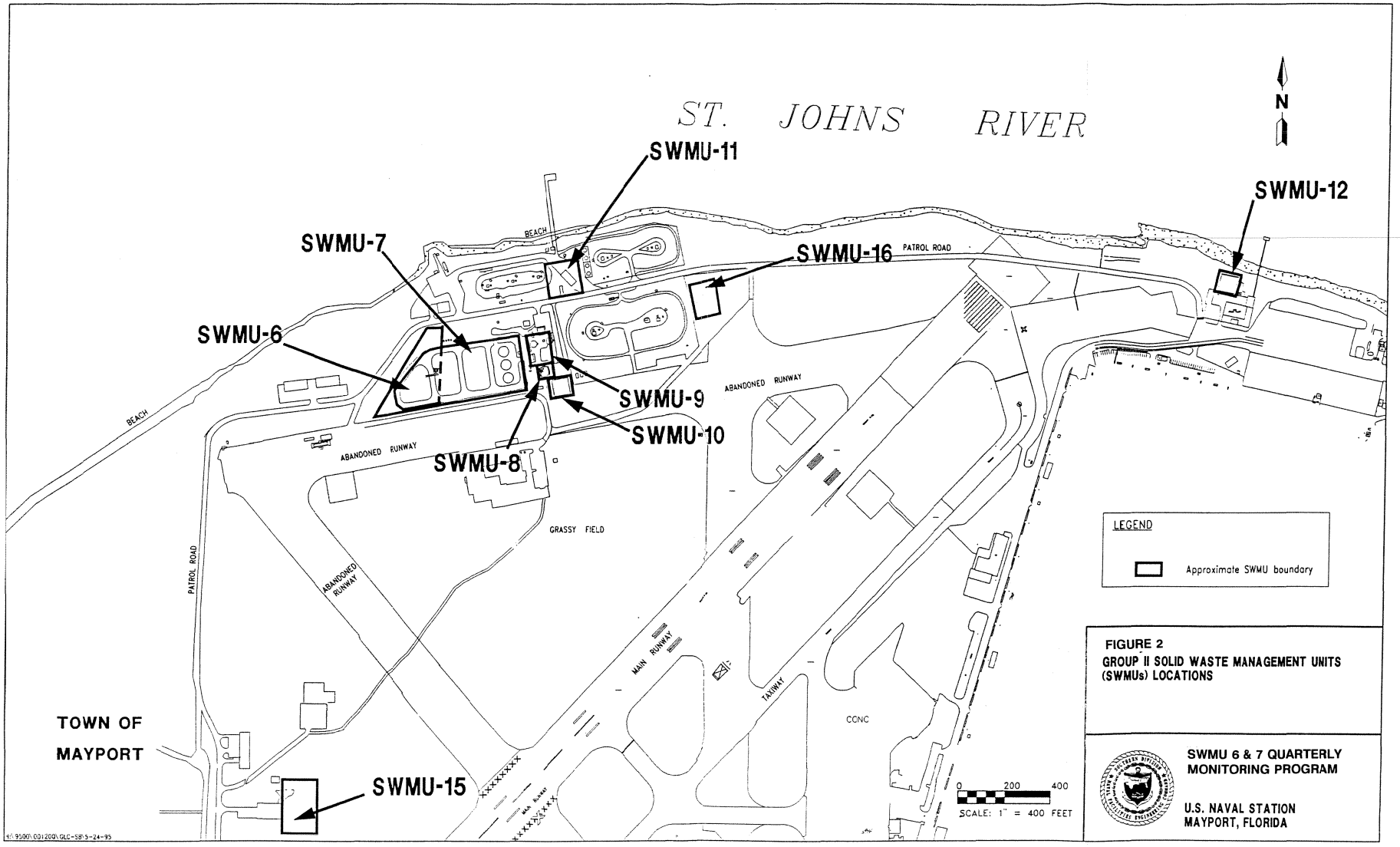


FIGURE 2
GROUP II SOLID WASTE MANAGEMENT UNITS (SWMUs) LOCATIONS

SWMU 6 & 7 QUARTERLY MONITORING PROGRAM

U.S. NAVAL STATION MAYPORT, FLORIDA

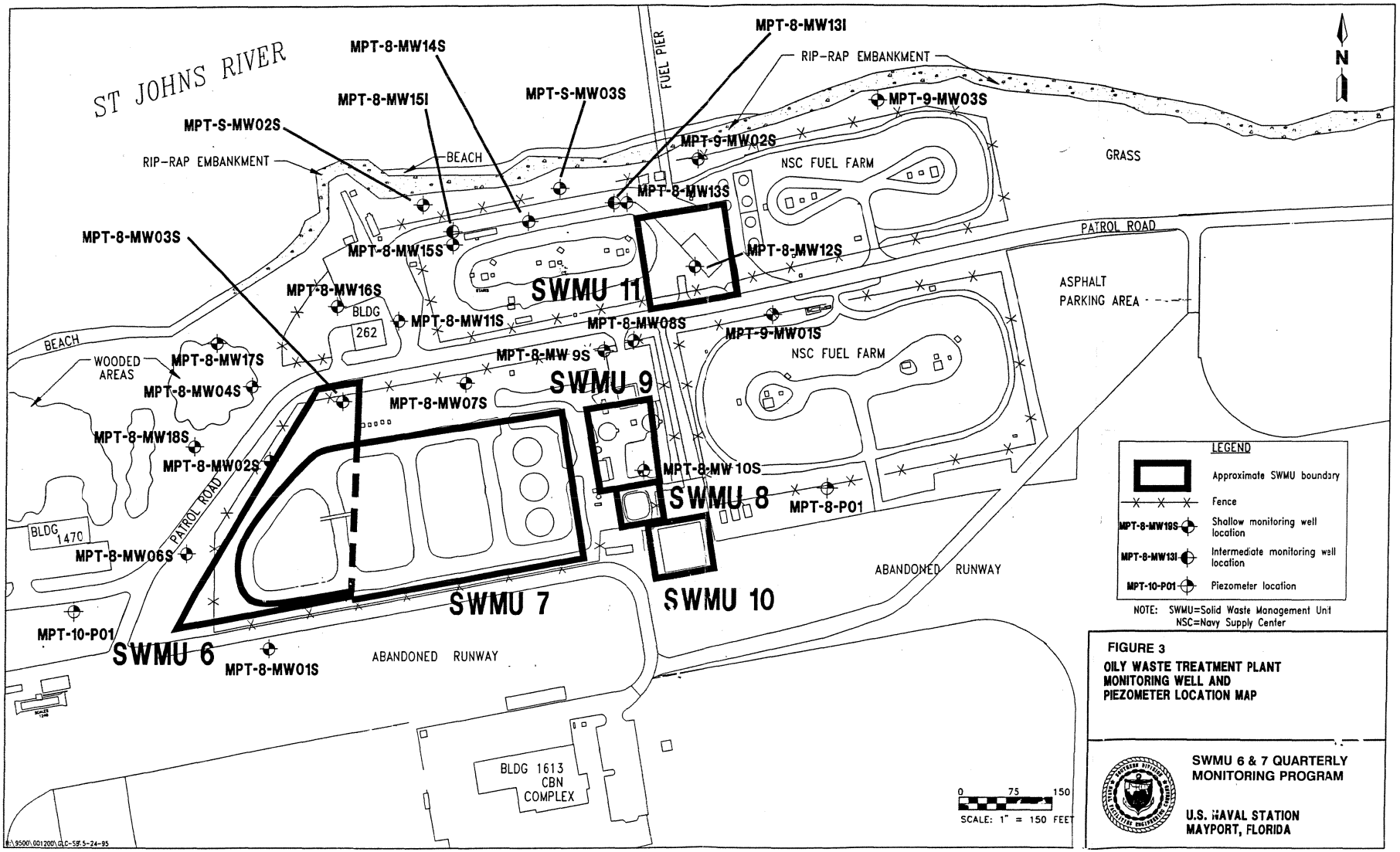


FIGURE 3
OILY WASTE TREATMENT PLANT MONITORING WELL AND PIEZOMETER LOCATION MAP

SWMU 6 & 7 QUARTERLY MONITORING PROGRAM

U.S. NAVAL STATION MAYPORT, FLORIDA

Attachment B
Tables

Table 1
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	**MPT-8-MW01S**	**MPT-8-MW01S**	**MPT-8-MW01S**	**MPT-8-MW01S**	**MPT-8-MW02S**	**MPT-8-MW02S**	**MPT-8-MW02S**	**MPT-8-MW02S**
Date	**3/5/1999**	**7/7/1999**	**9/29/1999**	**12/6/1999**	**3/5/1999**	**7/9/1999**	**9/28/1999**	**12/6/1999**
Total Depth (feet)	16.3	16.3	16.3	16.3	NM	NM	15.22	NM
Water Level (top of casing)	10.03	11.19	6.23	9.51	NM	NM	6.65	11.71
Temperature (°C)	21.7	30	28	24.4	NM	NM	29	NM
pH (standard units)	6.95	7.32	7.27	6.62	NM	NM	8.24	NM
Conductivity (umhos/cm)	370	380	270	260	NM	NM	1025	NM
Turbidity (ntu)	2.32	7.52	0.05	0.6	NM	NM	8	NM
Redox potential (millivolts)	-10.3	-89.8	26.8	-10.9	NM	NM	15.1	NM
Ferrous Iron (mg/l)	0.45	1.46	0.08	0.11	NM	NM	--	NM
Sulfate (mg/l)	34	--	24	25	NM	NM	>80	NM
Nitrate (mg/l)	0.04	--	--	--	NM	NM	--	NM
Nitrite (mg/l)	0.004	0.002	--	--	NM	NM	--	NM
Dissolved Oxygen (mg/l)	3.0	0.5	0.1	0.8	NM	NM	1.4	NM
Carbon dioxide (mg/l)	15	1.2	35	30	NM	NM	10	NM
Comment				Sulfide Odor	LNAPL (0.15 ft)			LNAPL (0.5 ft)

Location ID	**MPT-8-MW03S**	**MPT-8-MW03S**	**MPT-8-MW03S**	**MPT-8-MW03S**	**MPT-8-MW04S**	**MPT-8-MW04S**	**MPT-8-MW04S**	**MPT-8-MW04S**
Date	**5-Mar-1999**	**9-Jul-1999**	**27-Sep-1999**	**6-Dec-1999**	**5-Mar-1999**	**8-Jul-1999**	**27-Sep-1999**	**8-Dec-1999**
Total Depth (feet)	NM	NM	15.4	15.4	15.5	NM	15	15.5
Water Level (top of casing)	NM	NM	8.67	NM	9.92	NM	8.60	9.89
Temperature (°C)	NM	NM	28	NM	23.5	NM	30	25.9
pH (standard units)	NM	NM	6.97	NM	6.13	NM	6.53	6.48
Conductivity (umhos/cm)	NM	NM	400	NM	850	NM	445	370
Turbidity (ntu)	NM	NM	6.39	NM	2.74	NM	8.45	4.3
Redox potential (millivolts)	NM	NM	129.7	NM	-83.4	NM	-48.2	-22.5
Ferrous Iron (mg/l)	NM	NM	--	NM	--	NM	--	3.3
Sulfate (mg/l)	NM	NM	35	NM	--	NM	--	--
Nitrate (mg/l)	NM	NM	--	NM	0.02	NM	--	0.9
Nitrite (mg/l)	NM	NM	--	NM	--	NM	--	--
Dissolved Oxygen (mg/l)	NM	NM	0.1	NM	2.6	NM	0.6	1
Carbon dioxide (mg/l)	NM	NM	90	NM	120	NM	>100	>1000
Comment	LNAPL (0.02 ft)	LNAPL (0.01 ft)		LNAPL (0.03 ft)	Petroleum odor and sheen	LNAPL (0.01 ft)		

See notes at end of table

Table 1 (Continued)
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	**MPT-8-MW07S**	**MPT-8-MW07S**	**MPT-8-MW07S**	**MPT-8-MW07S**	**MPT-8-MW08S**	**MPT-8-MW08S**	**MPT-8-MW08S**	**MPT-8-MW08S**
Date	**Mar-99**	**Jul-99**	**Sep-99**	**Dec-99**	**5-Mar-99**	**7-Jul-99**	**9/29./99**	**8-Dec-99**
Total Depth (feet)	NM	NM	NM	NM	14.6	14.6	14.6	14.6
Water Level (top of casing)	NM	NM	NM	NM	10.04	10.62	6.64	9.72
Temperature (°C)	NM	NM	NM	NM	22.7	30	28.5	24.3
pH (standard units)	NM	NM	NM	NM	7.19	7.57	7.17	7.36
Conductivity (umhos/cm)	NM	NM	NM	NM	580	400	340	315
Turbidity (ntu)	NM	NM	NM	NM	2.35	5.73	0.01	2.75
Redox potential (millivolts)	NM	NM	NM	NM	103.9	124.5	238.7	46.8
Ferrous Iron (mg/l)	NM	NM	NM	NM	0.11	--	--	--
Sulfate (mg/l)	NM	NM	NM	NM	80	80	80	80
Nitrate (mg/l)	NM	NM	NM	NM	0.12	0.7	4.6	2.6
Nitrite (mg/l)	NM	NM	NM	NM	0.062	0.005	0.014	0.021
Dissolved Oxygen (mg/l)	NM	NM	NM	NM	5.5	2.1	4.8	2.3
Carbon dioxide (mg/l)	NM	NM	NM	NM	20	40	40	25
Comment	Extraction well	Extraction well	Extraction well	Extraction well				
Location ID	**MPT-8-MW09S**	**MPT-8-MW09S**	**MPT-8-MW09S**	**MPT-8-MW09S**	**MPT-8-MW11S**	**MPT-8-MW11S**	**MPT-8-MW11S**	**MPT-8-MW11S**
Date	**05-Mar-99**	**07-Jul-99**	**29-Sep-99**	**08-Dec-99**	**Mar-99**	**Jul-99**	**Sep-99**	**Dec-99**
Total Depth (feet)	14.85	14.85	14.85	14.85	NM	NM	NM	NM
Water Level (top of casing)	9.81	10.41	6.64	9.48	NM	NM	NM	NM
Temperature (°C)	22	27	28	23.7	NM	NM	NM	NM
PH (standard units)	6.31	6.70	7.24	6.74	NM	NM	NM	NM
Conductivity (umhos/cm)	700	450	285	410	NM	NM	NM	NM
Turbidity (ntu)	2.14	5.12	0.01	1.1	NM	NM	NM	NM
Redox potential (millivolts)	102.6	59.4	246.9	29.8	NM	NM	NM	NM
Ferrous Iron (mg/l)	0.29	0.88	--	1.81	NM	NM	NM	NM
Sulfate (mg/l)	1	19	--	80	NM	NM	NM	NM
Nitrate (mg/l)	0.06	0.5	0.1	0.2	NM	NM	NM	NM
Nitrite (mg/l)	0.021	0.01	0.008	0.07	NM	NM	NM	NM
Dissolved Oxygen (mg/l)	2.2	0.7	6.4	2.1	NM	NM	NM	NM
Carbon dioxide (mg/l)	45	110	35	95	NM	NM	NM	NM
Comment		Water clear yellow tint			Extraction well	Extraction well	Extraction well	Extraction well

See notes at end of table.

Table 1 (Continued)
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	**MPT-8-MW12S**	**MPT-8-MW12S**	**MPT-8-MW12S**	**MPT-8-MW12S**	**MPT-8-MW13S**	**MPT-8-MW13S**	**MPT-8-MW13S**	**MPT-8-MW13S**
Date	**03-Mar-99**	**09-Jul-99**	**28-Sep-99**	**07-Dec-99**	**03-Mar-99**	**08-Jul-99**	**27-Sep-99**	**07-Dec-99**
Total Depth (feet)	18.1	18.1	18.1	18.1	15.25	15.25	15.25	15.25
Water Level (top of casing)	11.30	11.58	9.55	10.6	9.40	10.16	7.80	9.09
Temperature (°C)	20.5	24.5	30	24	21	27	29	24.3
pH (standard units)	7.21	6.87	6.58	6.83	7.12	7.10	7.00	6.86
Conductivity (umhos/cm)	660	400	420	310	600	430	590	320
Turbidity (ntu)	2.43	4.81	4.72	0.24	1.34	5.98	5.22	0.32
Redox potential (millivolts)	-109.5	-118.4	60.8	30.1	238.3	-158.8	129	87.9
Ferrous Iron (mg/l)	1.03	0.54	--	1.01	0.21	--	0.07	--
Sulfate (mg/l)	25	20	80	14	40	73	--	39
Nitrate (mg/l)	0.04	1.4	4.5	--	0.12	4.3	7.4	4.4
Nitrite (mg/l)	0.014	0.002	--	0.01	0.37	0.009	0.026	0.06
Dissolved Oxygen (mg/l)	3.8	1.5	0.2	1.9	3.6	0.5	2.9	2.7
Carbon dioxide (mg/l)	65	75	95	45	60	40	90	60
Comment	Water clear No odor	Water clear			Water clear No odor			

Location ID	**MPT-8-MW13I**	**MPT-8-MW13I**	**MPT-8-MW13I**	**MPT-8-MW13I**	**MPT-8-MW14S**	**MPT-8-MW14S**	**MPT-8-MW14S**	**MPT-8-MW14S**
Date	**3-Mar-99**	**8-Jul-99**	**27-Sep-99**	**7-Dec-99**	**5-Mar-99**	**9-Jul-99**	**28-Sep-99**	**7-Dec-99**
Total Depth (feet)	39.45	39.45	39.45	39.45	15.5	15.5	15.5	15.5
Water Level (top of casing)	9.54	10.61	7.85	9.11	9.44	9.52	7.55	8.97
Temperature (°C)	21	27	28	23.1	19	26	30	23.6
pH (standard units)	7.48	7.64	7.60	7.22	5.52	6.62	6.51	6.37
Conductivity (umhos/cm)	1,440	800	610	525	1,000	600	495	440
Turbidity (ntu)	1.23	5.72	5.14	0.23	2.88	7.85	8.26	0.98
Redox potential (millivolts)	-59.4	-301.3	-293.6	-219.6	-98.5	-104.4	-70.9	-56
Ferrous Iron (mg/l)	0.04	--	--	--	--	--	>3.3	--
Sulfate (mg/l)	--	--	--	67	--	--	--	--
Nitrate (mg/l)	0.02	22.3	10.8	12.4	--	0.6	--	--
Nitrite (mg/l)	0.008	0.005	--	--	--	--	--	--
Dissolved Oxygen (mg/l)	5.7	0.1	1.8	3.7	2.1	2.3	2.1	2.3
Carbon dioxide (mg/l)	30	40	40	30	190	>100 (off-scale)	>400	>100
Comment	Sulfur odor	Water Clear			Petroleum odor	Water clear Petroleum odor		

See notes at end of table.

Table 1 (Continued)
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	**MPT-8-MW15S**	**MPT-8-MW15S**	**MPT-8-MW15S**	**MPT-8-MW15S**	**MPT-8-MW15I**	**MPT-8-MW15I**	**MPT-8-MW15I**	**MPT-8-MW15I**
Date	**Mar-99**	**Jul-99**	**Sep-99**	**Dec-99**	**3-Mar-99**	**8-Jul-99**	**28-Sep-99**	**7-Dec-99**
Total Depth (feet)	14.8	NM	NM	NM	37.5	37.5	37.5	37.5
Water Level (top of casing)	8.50	NM	NM	NM	8.17	9.23	6.30	8.25
Temperature (°C)	20	NM	NM	NM	20	27	28	23
pH (standard units)	8.73	NM	NM	NM	9.93	7.39	7.32	7.48
Conductivity (umhos/cm)	810	NM	NM	NM	3,400	2,550	1,880	1,700
Turbidity (ntu)	1.73	NM	NM	NM	0.89	5.0	5.82	NM
Redox potential (millivolts)	-7.8	NM	NM	NM	-308.1	-330.5	-323	-286
Ferrous Iron (mg/l)	--	NM	NM	NM	--	--	--	--
Sulfate (mg/l)	0	NM	NM	NM	69	280	--	92
Nitrate (mg/l)	0.02	NM	NM	NM	0.03	5.4	13.6	12.3
Nitrite (mg/l)	0.007	NM	NM	NM	0.002	--	--	--
Dissolved Oxygen (mg/l)	0.5	NM	NM	NM	0.3	0.5	0.8	--
Carbon dioxide (mg/l)	85	NM	NM	NM	75	80	55	75
Comment	Petroleum odor and sheen	LNAPL (0.8 ft)	NM	LNAPL (0.06 foot)	Water color is pale green			
Location ID	**MPT-8-MW16S**	**MPT-8-MW16S**	**MPT-8-MW16S**	**MPT-8-MW16S**	**MPT-8-MW17S**	**MPT-8-MW17S**	**MPT-8-MW17S**	**MPT-8-MW17S**
Date	**02-Mar-99**	**Jul-99**	**Sep-99**	**Dec-99**	**Mar-99**	**08-Jul-99**	**27-Sep-99**	**07-Dec-99**
Total Depth (feet)	15	NM	NM	NM	NM	14.89	14.89	14.89
Water Level (top of casing)	NM	NM	NM	NM	NM	9.41	7.95	9.35
Temperature (°C)	21.5	NM	NM	NM	NM	27	29	24
pH (standard units)	6.33	NM	NM	NM	NM	7.09	7.00	6.73
Conductivity (umhos/cm)	1,100	NM	NM	NM	NM	400	360	430
Turbidity (ntu)	3.02	NM	NM	NM	NM	9.38	5.49	0.92
Redox potential (millivolts)	-10.5	NM	NM	NM	NM	-107	-38.8	-150
Ferrous Iron (mg/l)	--	NM	NM	NM	NM	--	1.96	--
Sulfate (mg/l)	--	NM	NM	NM	NM	21	--	--
Nitrate (mg/l)	--	NM	NM	NM	NM	1.6	--	0.5
Nitrite (mg/l)	--	NM	NM	NM	NM	0.001	--	--
Dissolved Oxygen (mg/l)	NM	NM	NM	NM	NM	0.5	0.4	2.3
Carbon dioxide (mg/l)	NM	NM	NM	NM	NM	85	55	80
Comment	Water clear No odor	Could not locate well	Could not locate well	Could not locate well	Could not locate well	Water clear, some suspended particles		

See notes at end of table.

Table 1 (Continued)
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	**MPT-8-MW18S**	**MPT-8-MW18S**	**MPT-8-MW18S**	**MPT-8-MW18S**	**MPT-S-MW01S**	**MPT-S-MW01S**	**MPT-S-MW01S**	**MPT-S-MW01S**
Date	**05-Mar-99**	**09-Jul-99**	**28-Sep-99**	**08-Dec-99**	**Mar-99**	**Jul-99**	**Sep-99**	**Dec-99**
Total Depth (feet)	15.02	15.02	15.02	15.02	NM	NM	NM	NM
Water Level (top of casing)	8.14	7.43	4.94	6.86	NM	NM	NM	NM
Temperature (°C)	20.6	26.5	26	24.5	NM	NM	NM	NM
pH (standard units)	7.51	7.43	6.99	6.97	NM	NM	NM	NM
Conductivity (umhos/cm)	310	430	320	250	NM	NM	NM	NM
Turbidity (ntu)	2.00	7.31	0.62	1.12	NM	NM	NM	NM
Redox potential (millivolts)	158	40.2	25.3	51.1	NM	NM	NM	NM
Ferrous Iron (mg/l)	0.03	0.44	0.05	0.56	NM	NM	NM	NM
Sulfate (mg/l)	11	23	11	38	NM	NM	NM	NM
Nitrate (mg/l)	0.23	1.3	--	--	NM	NM	NM	NM
Nitrite (mg/l)	0.001	0.011	--	0.01	NM	NM	NM	NM
Dissolved Oxygen (mg/l)	5.8	1.3	0.8	1.1	NM	NM	NM	NM
Carbon dioxide (mg/l)	15	40	45	45	NM	NM	NM	NM
Comment	Water clear No odor	Water clear, algae growth initially			Could not locate well	Could not locate well	Could not locate well	Could not locate well

Location ID	**MPT-S-MW02S**	**MPT-S-MW02S**	**MPT-S-MW02S**	**MPT-S-MW02S**	**MPT-S-MW03S**	**MPT-S-MW03S**	**MPT-S-MW03S**	**MPT-S-MW03S**
Date	**05-Mar-99**	**09-Jul-99**	**28-Sep-99**	**08-Dec-99**	**03-Mar-99**	**08-Jul-99**	**27-Sep-99**	**08-Dec-99**
Total Depth (feet)	15.22	15.22	15.22	15.22	15.4	15.4	15.4	15.4
Water Level (top of casing)	8.39	9.49	6.65	8.01	10.33	11.10	8.67	9.99
Temperature (°C)	22.4	28	29	24.1	20	25	28	23.6
pH (standard units)	6.52	7.09	8.24	6.8	7.10	7.00	6.97	6.81
Conductivity (umhos/cm)	10,000	12,000	1,025	600	870	700	400	425
Turbidity (ntu)	2.02	7.6	8.05	0.94	1.44	4.61	6.39	0.24
Redox potential (millivolts)	106.6	168	15.1	61.4	29.5	-22.3	129.7	-51
Ferrous Iron (mg/l)	0.02	0.03	--	0.05	0.19	1.27	--	0.03
Sulfate (mg/l)	--	--	--	22	2	30	35	--
Nitrate (mg/l)	NM	1.8	--	1.4	0.03	1.1	0.9	0.3
Nitrite (mg/l)	0.037	0.013	--	0.11	0.004	0.001	0.007	0.023
Dissolved Oxygen (mg/l)	4.3	1.3	1.4	1.4	3.1	1.8	0.1	1.8
Carbon dioxide (mg/l)	55	>100 (off-scale)	10	70	95	100	90	65
Comment	Slight petroleum odor	Water clear			Water clear No odor	Water clear		

See notes at end of table.

Table 1 (Continued)
Field Measurements for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units (SWMUs) 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Notes:
ft = feet
°C = degrees Centigrade
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
Redox = oxidation – reduction
mg/l = milligrams per liter
-- = not detected
NM = not measured
> = greater than
LNAPL = light nonaqueous phase liquid

Table 2
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID Sample ID Sample Date	MPT-8-MW01S 08G00101 3/5/99	MPT-8-MW01S 08G00101 7/7/99	MPT-8-MW01S 08G00101 9/29/99	MPT-8-MW01S 08G00101 12/6/99
1-Methylnaphthalene (ug/l)	--	NR	--	NR
2-Methylnaphthalene (ug/l)	--	NR	--	NR
Acenaphthene (ug/l)	--	NR	--	NR
Anthracene (ug/l)	--	NR	--	NR
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	--	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	NR
Methane (mg/l)	0.002	0.006	0.012	0.049
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	0.05 I	NR	--	NR
Sulfide, Total (ug/l)	--	170	--	--

Location ID Sample ID Sample Date	MPT-8-MW02S 0SG00201 3/5/99	MPT-8-MW02S 0SG00201 7/9/99	MPT-8-MW02S 0SG00201 9/28/99	MPT-8-MW03S 08G00301 3/3/99
1-Methylnaphthalene (ug/l)	0.98	NR	--	--
2-Methylnaphthalene (ug/l)	0.56 I	NR	--	--
Acenaphthene (ug/l)	--	NR	--	--
Anthracene (ug/l)	--	NR	--	--
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	0.12 I	NR	--	--
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	--
Methane (mg/l)	0.16	2.4	0.0049	0.056
Naphthalene (ug/l)	--	NR	--	--
Phenanthrene (ug/l)	--	NR	--	--
Sulfide, Total (ug/l)	--	140	--	140

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	MPT-8-MW03S	MPT-8-MW03S	MPT-8-MW03S	MPT-8-MW04S
Sample ID	05G00301	0SG00301	0SG00301D	08G00401
Sample Date	7/8/99	9/27/99	9/27/99	3/5/99
1-Methylnaphthalene (ug/l)	NR	--	--	140
2-Methylnaphthalene (ug/l)	NR	--	--	120
Acenaphthene (ug/l)	NR	--	--	--
Anthracene (ug/l)	NR	--	--	--
Ethane (ug/l)	NR	--	--	--
Ethene (ug/l)	NR	--	--	--
Fluorene (ug/l)	NR	--	--	17
Hydrocarbons (C8-C40) (mg/l)	NR	--	--	1.3
Methane (mg/l)	0.02	0.0017	0.0025	5.1
Naphthalene (ug/l)	NR	--	--	--
Phenanthrene (ug/l)	NR	--	--	6.3
Sulfide, Total (ug/l)	300	--	--	--

Location ID	MPT-8-MW04S	MPT-8-MW04S	MPT-8-MW08S	MPT-8-MW08S
Sample ID	08G00401	08G00401	08G00801	08G00801
Sample Date	9/27/99	12/6/99	3/5/99	7/7/99
1-Methylnaphthalene (ug/l)	61	NR	--	NR
2-Methylnaphthalene (ug/l)	43	NR	--	NR
Acenaphthene (ug/l)	6	NR	--	NR
Anthracene (ug/l)	0.6	NR	--	NR
Ethane (ug/l)	--	--	--	NR
Ethene (ug/l)	--	--	--	NR
Fluorene (ug/l)	6.4	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	1.4	NR	--	NR
Methane (mg/l)	4	6.7	0.016	0.07
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	--	NR	--	NR
Sulfide, Total (ug/l)	--	--	--	160

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID Sample ID Sample Date	MPT-8-MW08S 08G00801 9/29/99	MPT-8-MW08S 08G00801 12/6/99	MPT-8-MW09S 08G00901 3/5/99	MPT-8-MW09S DUP 1B 3/5/99
1-Methylnaphthalene (ug/l)	--	NR	0.85	0.81
2-Methylnaphthalene (ug/l)	--	NR	0.81	1.3
Acenaphthene (ug/l)	--	NR	--	--
Anthracene (ug/l)	--	NR	--	--
Ethane (ug/l)	--	--	--	--
Ethene (ug/l)	--	--	--	--
Fluorene (ug/l)	--	NR	--	--
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	--
Methane (mg/l)	0.005	0.05	1.5	1.9
Naphthalene (ug/l)	--	NR	--	--
Phenanthrene (ug/l)	--	NR	--	--
Sulfide, Total (ug/l)	--	--	--	--

Location ID Sample ID Sample Date	MPT-8-MW09S 08G00901 7/7/1999	MPT-8-MW09S 08G00901 9/29/1999	MPT-8-MW09S DUPLICATE 12/6/99	MPT-8-MW09S O8G00901 12/6/99
1-Methylnaphthalene (ug/l)	NR	--	NR	NR
2-Methylnaphthalene (ug/l)	NR	--	NR	NR
Acenaphthene (ug/l)	NR	--	NR	NR
Anthracene (ug/l)	NR	--	NR	NR
Ethane (ug/l)	NR	--	--	--
Ethene (ug/l)	NR	--	--	--
Fluorene (ug/l)	NR	--	NR	NR
Hydrocarbons (C8-C40) (mg/l)	NR	--	NR	NR
Methane (mg/l)	1.1	0.005	0.057	0.073
Naphthalene (ug/l)	NR	--	NR	NR
Phenanthrene (ug/l)	--	--	NR	NR
Sulfide, Total (ug/l)	180	--	--	--

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	MPT-8-MW12S	MPT-8-MW12S	MPT-8-MW12S	MPT-8-MW12S
Sample ID	08G01201	08G01201	08G01201	08G01201
Sample Date	3/3/99	7/9/99	9/28/99	12/6/99
1-Methylnaphthalene (ug/l)	--	NR	--	NR
2-Methylnaphthalene (ug/l)	--	NR	--	NR
Acenaphthene (ug/l)	--	NR	--	NR
Anthracene (ug/l)	--	NR	--	NR
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	--	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	NR
Methane (mg/l)	0.28	0.47	0.043	3
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	--	NR	--	NR
Sulfide, Total (ug/l)	270	180	--	--

Location ID	MPT-8-MW13I	MPT-8-MW13I	MPT-8-MW13I	MPT-8-MW13I
Sample ID	08G01302	08G01302	08G01302	08G01302
Sample Date	3/3/99	7/8/99	9/27/99	12/6/99
1-Methylnaphthalene (ug/l)	--	NR	--	NR
2-Methylnaphthalene (ug/l)	--	NR	--	NR
Acenaphthene (ug/l)	--	NR	--	NR
Anthracene (ug/l)	--	NR	--	NR
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	--	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	NR
Methane (mg/l)	0.011	0.53	0.23	0.22
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	--	NR	--	NR
Sulfide, Total (ug/l)	290	79	3. I	4

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	MPT-8-MW13S	MPT-8-MW13S	MPT-8-MW13S	MPT-8-MW13S
Sample ID	08G01301	08G01301	08G01301D	08G01301
Sample Date	3/3/99	7/8/99	7/8/99	12/6/99
1-Methylnaphthalene (ug/l)	--	NR	NR	NR
2-Methylnaphthalene (ug/l)	--	NR	NR	NR
Acenaphthene (ug/l)	--	NR	NR	NR
Anthracene (ug/l)	--	NR	NR	NR
Ethane (ug/l)	--	NR	NR	--
Ethene (ug/l)	--	NR	NR	--
Fluorene (ug/l)	--	NR	NR	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	NR	NR
Methane (mg/l)	--	0.01	0.004	0.0029
Naphthalene (ug/l)	--	NR	NR	NR
Phenanthrene (ug/l)	--	NR	NR	NR
Sulfide, Total (ug/l)	350	150	140	--

Location ID	MPT-8-MW14S	MPT-8-MW14S	MPT-8-MW14S	MPT-8-MW14S
Sample ID	08G01401	08G01401	08G01401	08G01401
Sample date	3/5/99	7/9/99	9/28/99	12/6/99
1-Methylnaphthalene (ug/l)	--	NR	--	NR
2-Methylnaphthalene (ug/l)	--	NR	--	NR
Acenaphthene (ug/l)	--	NR	--	NR
Anthracene (ug/l)	--	NR	--	NR
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	--	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	--	NR
Methane (mg/l)	7.9	8.6	2.6	8.4
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	--	NR	--	NR
Sulfide, Total (ug/l)	--	170	--	--

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	MPT-8-MW15I	MPT-8-MW15I	MPT-8-MW15I	MPT-8-MW15I
Sample ID	08G01502	08G01502	08G01502	08G01502
Sample date	3/3/99	7/8/99	9/28/99	12/6/99
1-Methylnaphthalene (ug/l)	2.5	NR	--	NR
2-Methylnaphthalene (ug/l)	1.3	NR	--	NR
Acenaphthene (ug/l)	--	NR	--	NR
Anthracene (ug/l)	--	NR	--	NR
Ethane (ug/l)	--	NR	--	--
Ethene (ug/l)	--	NR	--	--
Fluorene (ug/l)	--	NR	--	NR
Hydrocarbons (C8-C40) (mg/l)	--	NR	1.7	NR
Methane (mg/l)	0.035	2.8	2	3.6
Naphthalene (ug/l)	--	NR	--	NR
Phenanthrene (ug/l)	--	NR	--	NR
Sulfide, Total (ug/l)	33	280	6	3.1

Location ID	MPT-8-MW15S	MPT-8-MW15S	MPT-8-MW16S	MPT-8-MW17S
Sample ID	08G01501	DUP1A	08G01601	08G01701
Sample date	3/3/99	3/3/99	3/2/99	7/8/99
1-Methylnaphthalene (ug/l)	26	31	47	NR
2-Methylnaphthalene (ug/l)	20	28	25	NR
Acenaphthene (ug/l)	--	--	--	NR
Anthracene (ug/l)	--	--	--	NR
Ethane (ug/l)	--	--	--	NR
Ethene (ug/l)	--	--	--	NR
Fluorene (ug/l)	3.6	4.6	5.5	NR
Hydrocarbons (C8-C40) (mg/l)	--	--	0.7	NR
Methane (mg/l)	3.6	3.1	3.9	4.3
Naphthalene (ug/l)	14	20	14	NR
Phenanthrene (ug/l)	1.5	2	1.7	NR
Sulfide, Total (ug/l)	33	200	--	290

See notes at end of table

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Location ID	MPT-8-MW17S	MPT-8-MW17S	MPT-8-MW18S	MPT-8-MW18S
Sample ID	08G01701	08G01701	08G01801	08G01801
Sample date	9/27/99	12/6/99	7/9/99	9/28/99
1-Methylnaphthalene (ug/l)	--	NR	NR	--
2-Methylnaphthalene (ug/l)	--	NR	NR	--
Acenaphthene (ug/l)	--	NR	NR	--
Anthracene (ug/l)	--	NR	NR	--
Ethane (ug/l)	--	--	NR	--
Ethene (ug/l)	--	--	NR	--
Fluorene (ug/l)	--	NR	NR	--
Hydrocarbons (C8-C40) (mg/l)	--	NR	NR	--
Methane (mg/l)	0.53	2.3	0.044	0.013
Naphthalene (ug/l)	--	NR	NR	--
Phenanthrene (ug/l)	--	NR	NR	--
Sulfide, Total (ug/l)	--	--	160	--

Location ID	MPT-8-MW18S	MPT-S-MW02S	MPT-S-MW03S
Sample ID	08G01801	0SG00201	0SG00301
Sample date	12/6/99	12/6/99	12/6/99
1-Methylnaphthalene (ug/l)	NR	NR	NR
2-Methylnaphthalene (ug/l)	NR	NR	NR
Acenaphthene (ug/l)	NR	NR	NR
Anthracene (ug/l)	--	NR	NR
Ethane (ug/l)	--	--	--
Ethene (ug/l)	--	--	--
Fluorene (ug/l)	NR	NR	NR
Hydrocarbons (C8-C40) (mg/l)	NR	NR	NR
Methane (mg/l)	0.041	0.34	0.039
Naphthalene (ug/l)	NR	NR	NR
Phenanthrene (ug/l)	NR	NR	NR
Sulfide, Total (ug/l)	--	--	--

See notes at end of table.

Table 2 (Continued)
Laboratory Analysis Summary for Quarterly Sampling Events Conducted During 1999
At Solid Waste Management Units 6 and 7

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Notes
ug/l = micrograms per liter.
mg/l = milligrams per liter.
-- = Analyte, if present, was at a concentration less than the detection limit.
NR = Analysis was not requested.
I = Analytical result is between the method detection limit and practical quantitation limit.

Table 3
Groundwater Analytical Results Screening Criteria

SWMU 6 & 7 Quarterly Sampling Program
U.S. Naval Station Mayport
Mayport, Florida

Parameter	FAC 62-777 Groundwater	FAC 62-777 Marine Surface Water	USEPA Region III RBCs	Florida Class III Marine Surface Water Quality[1]	Federal Ambient Water Quality Criteria (Saltwater)
1-Methylnaphthalene (ug/l)	20	95	NS	NS	NS
2-Methylnaphthalene (ug/l)	20	30	120	NS	NS
Acenaphthene (ug/l)	20	3	370	2,700	NS
Anthracene (ug/l)	2,100	0.3	1,800	110,000	NS
Fluorene (ug/l)	280	30	240	14,000	NS
Hydrocarbons (C8-C40) (mg/l)	5	5	NS	NS	NS
Naphthalene (ug/l)	20	26	6.5	NS	NS
Phenanthrene (ug/l)	210	0.031	NS	NS	NS

Notes: ug/l = micrograms per liter
Mg/l = milligrams per liter
FAC = Florida Administrative Code
USEPA = U.S. Environmental Protection Agency
RBC = risk based concentrations (human health), April 1999.

[1] = Under Florida Class III Marine Water Quality Criteria, Polynuclear Aromatic Hydrocarbons should not exceed 0.031 ug/l under annual average flow conditions.

Attachment C
Laboratory Analytical Results

First Quarter Sampling Event, Solid Waste Management Units 6 and 7, U.S. Naval Station Mayport, Florida

Location Identifier	MPT-8-MW01S	MPT-8-MW02S	MPT-8-MW03S	MPT-8-MW04S
Sample Identifier	08G00101	0SG00201	08G00301	08G00401
Sample Collect Date	3/5/99	3/5/99	3/3/99	3/5/99
1,2-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1,3-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1,4-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1-Methylnaphthalene	0.5 U ug/L (0.5)	0.98 ug/L (0.5)	0.5 U ug/L (0.5)	140. ug/L (5.)
2-Methylnaphthalene	0.5 U ug/L (0.5)	0.56 I ug/L (0.5)	0.5 U ug/L (0.5)	120. ug/L (5.)
Acenaphthene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	5. U ug/L (5.)
Acenaphthylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	10. U ug/L (10.)
Anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Benzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Benzo(a)anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Benzo(a)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Benzo(b)fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	1. U ug/L (1.)
Benzo(g,h,i)perylene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	1. U ug/L (1.)
Benzo(k)fluoranthene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Chlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Chrysene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Dibenzo(a,h)anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	1. U ug/L (1.)
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	1. U ug/L (1.)
Fluorene	0.1 U ug/L (0.1)	0.12 I ug/L (0.1)	0.1 U ug/L (0.1)	17. ug/L (1.)
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	1.3 mg/L (0.2)
Indeno(1,2,3-cd)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
m-Xylene & p-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Methane	0.002 mg/L (0.001)	0.16 mg/L (0.002)	0.056 mg/L (0.001)	5.1 mg/L (0.05)
Methyl tert-butyl ether	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)

Location Identifier	MPT-8-MW01S	MPT-8-MW02S	MPT-8-MW03S	MPT-8-MW04S
Sample Identifier	08G00101	0SG00201	08G00301	08G00401
Sample Collect Date	3/5/99	3/5/99	3/3/99	3/5/99
Naphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	5. U ug/L (5.)
o-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Phenanthrene	0.05 I ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	6.3 ug/L (0.5)
Pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.5 U ug/L (0.5)
Sulfide, Total	1. U mg/L (1.)	1. U mg/L (1.)	140. mg/L (1.)	1. U mg/L (1.)
Toluene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)

Location Identifier	MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW09S	MPT-8-MW12S
Sample Identifier	08G00801	08G00901	DUP 1B	08G01201
Sample Collect Date	3/5/99	3/5/99	3/5/99	3/3/99
1,2-Dichlorobenzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
1,3-Dichlorobenzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
1,4-Dichlorobenzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
1-Methylnaphthalene	--	0.85 ug/L (0.5)	0.81 ug/L (0.5)	--
2-Methylnaphthalene	--	0.81 ug/L (0.5)	1.3 ug/L (0.5)	--
Acenaphthene	--	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--
Acenaphthylene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Anthracene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Benzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Benzo(a)anthracene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Benzo(a)pyrene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Benzo(b)fluoranthene	--	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Benzo(g,h,i)perylene	--	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Benzo(k)fluoranthene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Chlorobenzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Chrysene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Dibenzo(a,h)anthracene	--	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Fluoranthene	--	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Fluorene	--	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Hydrocarbons (C8-C40)	--	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	--
Indeno(1,2,3-cd)pyrene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
m-Xylene & p-Xylene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Methane	0.016 mg/L (0.001)	1.5 mg/L (0.05)	1.9 mg/L (0.02)	0.28 mg/L (0.005)
Methyl tert-butyl ether	--	2. U ug/L (2.)	2. U ug/L (2.)	--
Naphthalene	--	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--
o-Xylene	--	1. U ug/L (1.)	1. U ug/L (1.)	--
Phenanthrene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--

Location Identifier	MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW09S	MPT-8-MW12S
Sample Identifier	08G00801	08G00901	DUP 1B	08G01201
Sample Collect Date	3/5/99	3/5/99	3/5/99	3/3/99
Pyrene	--	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--
Sulfide, Total	1. U mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)	270. mg/L (1.)
Toluene	--	1. U ug/L (1.)	1. U ug/L (1.)	--

Location Identifier	MPT-8-MW13I	MPT-8-MW13S	MPT-8-MW14S	MPT-8-MW15I
Sample Identifier	08G01302	08G01301	08G01401	08G01502
Sample Collect Date	3/3/99	3/3/99	3/5/99	3/3/99
1,2-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1,3-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1,4-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1-Methylnaphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	2.5 ug/L (0.5)
2-Methylnaphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	1.3 ug/L (0.5)
Acenaphthene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	0.5 U ug/L (0.5)
Acenaphthylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Benzo(a)anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzo(a)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzo(b)fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Benzo(g,h,i)perylene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Benzo(k)fluoranthene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Chlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Chrysene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Dibenzo(a,h)anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Fluorene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	--	0.2 U mg/L (0.2)
Indeno(1,2,3-cd)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
m-Xylene & p-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Methane	0.011 mg/L (0.001)	0.001 U mg/L (0.001)	7.9 mg/L (0.05)	0.035 mg/L (0.001)
Methyl tert-butyl ether	2. U ug/L (2.)	2. U ug/L (2.)	--	2. U ug/L (2.)
Naphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	0.5 U ug/L (0.5)
o-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Phenanthrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)

Location Identifier	MPT-8-MW13I	MPT-8-MW13S	MPT-8-MW14S	MPT-8-MW15I
Sample Identifier	08G01302	08G01301	08G01401	08G01502
Sample Collect Date	3/3/99	3/3/99	3/5/99	3/3/99
Pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Sulfide, Total	290. mg/L (1.)	350. mg/L (1.)	1. U mg/L (1.)	33. mg/L (1.)
Toluene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)

Location Identifier	MPT-8-MW15S	MPT-8-MW15S	MPT-8-MW16S	MPT-8-MW18S
Sample Identifier	08G01501	DUP1A	08G01601	08G01801
Sample Collect Date	3/3/99	3/3/99	3/2/99	3/5/99
1,2-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
1,3-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
1,4-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
1-Methylnaphthalene	26. ug/L (1.)	31. ug/L (1.)	47. ug/L (1.)	--
2-Methylnaphthalene	20. ug/L (1.)	28. ug/L (1.)	25. ug/L (1.)	--
Acenaphthene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Acenaphthylene	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)	--
Anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Benzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Benzo(a)anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Benzo(a)pyrene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Benzo(b)fluoranthene	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	--
Benzo(g,h,i)perylene	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	--
Benzo(k)fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Chlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Chrysene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Dibenzo(a,h)anthracene	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	--
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Fluoranthene	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	0.2 U ug/L (0.2)	--
Fluorene	3.6 ug/L (0.2)	4.6 ug/L (0.2)	5.5 ug/L (0.2)	--
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	0.7 mg/L (0.2)	--
Indeno(1,2,3-cd)pyrene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
m-Xylene & p-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Methane	3.6 mg/L (0.05)	3.1 mg/L (0.05)	3.9 mg/L (0.05)	0.001 U mg/L (0.001)
Methyl tert-butyl ether	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)	--
Naphthalene	14. ug/L (1.)	20. ug/L (1.)	14. ug/L (1.)	--
o-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--
Phenanthrene	1.5 ug/L (0.1)	2. ug/L (0.1)	1.7 ug/L (0.1)	--

Location Identifier	MPT-8-MW15S	MPT-8-MW15S	MPT-8-MW16S	MPT-8-MW18S
Sample Identifier	08G01501	DUP1A	08G01601	08G01801
Sample Collect Date	3/3/99	3/3/99	3/2/99	3/5/99
Pyrene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--
Sulfide, Total	33. mg/L (1.)	200. mg/L (1.)	--	1. U mg/L (1.)
Toluene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	--

Footnotes: Values in parentheses are detection limits

Second Quarter Sampling Event, Solid Waste Management Units 6 and 7, U.S. Naval Station Mayport, Florida

Location Identifier	MPT-8-MW01S	MPT-8-MW02S	MPT-8-MW03S	MPT-8-MW08S
Sample Identifier	08G00101	0SG00201	05G00301	08G00801
Sample Collect Date	7/7/99	7/9/99	7/8/99	7/7/99
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Methane	0.006 mg/L (0.001)	2.4 mg/L (0.02)	0.02 mg/L (0.001)	0.07 mg/L (0.001)
Sulfide, Total	170. mg/L (1.)	140. mg/L (1.)	300. mg/L (1.)	160. mg/L (1.)

Location Identifier	MPT-8-MW09S	MPT-8-MW12S	MPT-8-MW13I	MPT-8-MW13S
Sample Identifier	08G00901	08G01201	08G01302	08G01301
Sample Collect Date	7/7/99	7/9/99	7/8/99	7/8/99
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Methane	1.1 mg/L (0.02)	0.47 mg/L (0.001)	0.53 mg/L (0.001)	0.01 mg/L (0.001)
Sulfide, Total	180. mg/L (1.)	180. mg/L (1.)	79. mg/L (1.)	150. mg/L (1.)

Location Identifier	MPT-8-MW13S	MPT-8-MW14S	MPT-8-MW15I	MPT-8-MW17S
Sample Identifier	08G01301D	08G01401	08G01502	08G01701
Sample Collect Date	7/8/99	7/9/99	7/8/99	7/8/99
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Methane	0.004 mg/L (0.001)	8.6 mg/L (0.02)	2.8 mg/L (0.02)	4.3 mg/L (0.02)
Sulfide, Total	140. mg/L (1.)	170. mg/L (1.)	280. mg/L (1.)	290. mg/L (1.)

Location Identifier	MPT-8-MW18S
Sample Identifier	08G01801
Sample Collect Date	7/9/99
Ethane	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)
Methane	0.044 mg/L (0.001)
Sulfide, Total	160. mg/L (1.)

Footnotes: Values in parentheses are detection limits

Third Quarter Sampling Event, Solid Waste Management Units 6 and 7, U.S. Naval Station Mayport, Florida

Location Identifier	MPT-8-MW01S	MPT-8-MW02S	MPT-8-MW03S	MPT-8-MW03S
Sample Identifier	08G00101	0SG00201	0SG00301	0SG00301D
Sample Collect Date	9/29/99	9/28/99	9/27/99	9/27/99
1,2-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1,3-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1,4-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
1-Methylnaphthalene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
2-Methylnaphthalene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Acenaphthene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)
Acenaphthylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Benzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Benzo(a)anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Benzo(a)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Benzo(b)fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)
Benzo(g,h,i)perylene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)
Benzo(k)fluoranthene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Chlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Chrysene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Dibenzo(a,h)anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)
Ethane	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)
Fluorene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)
Indeno(1,2,3-cd)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
m-Xylene & p-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Methane	0.012 mg/L (0.001)	0.0049 mg/L (0.001)	0.0017 mg/L (0.001)	0.0025 mg/L (0.001)
Methyl tert-butyl ether	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)	2. U ug/L (2.)

Location Identifier	MPT-8-MW01S	MPT-8-MW02S	MPT-8-MW03S	MPT-8-MW03S
Sample Identifier	08G00101	0SG00201	0SG00301	0SG00301D
Sample Collect Date	9/29/99	9/28/99	9/27/99	9/27/99
Naphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)
o-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Phenanthrene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)
Pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)
Sulfide, Total	1. U mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)
Toluene	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)	1. U ug/L (1.)

Location Identifier	MPT-8-MW04S	MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW12S
Sample Identifier	08G00401	08G00801	08G00901	08G01201
Sample Collect Date	9/27/99	9/29/99	9/29/99	9/28/99
1,2-Dichlorobenzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
1,3-Dichlorobenzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
1,4-Dichlorobenzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
1-Methylnaphthalene	61. ug/L (5.)	--	1. U ug/L (1.)	--
2-Methylnaphthalene	43. ug/L (5.)	--	1. U ug/L (1.)	--
Acenaphthene	6. ug/L (2.)	--	0.5 U ug/L (0.5)	--
Acenaphthylene	5. U ug/L (5.)	--	1. U ug/L (1.)	--
Anthracene	0.6 ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Benzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
Benzo(a)anthracene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Benzo(a)pyrene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Benzo(b)fluoranthene	0.5 U ug/L (0.5)	--	0.1 U ug/L (0.1)	--
Benzo(g,h,i)perylene	0.5 U ug/L (0.5)	--	0.1 U ug/L (0.1)	--
Benzo(k)fluoranthene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Chlorobenzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
Chrysene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Dibenzo(a,h)anthracene	0.5 U ug/L (0.5)	--	0.1 U ug/L (0.1)	--
Ethane	0.02 U mg/L (0.02)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethene	0.02 U mg/L (0.02)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
Fluoranthene	0.5 U ug/L (0.5)	--	0.1 U ug/L (0.1)	--
Fluorene	6.4 ug/L (0.5)	--	0.1 U ug/L (0.1)	--
Hydrocarbons (C8-C40)	1.4 mg/L (0.2)	--	0.2 U mg/L (0.2)	--
Indeno(1,2,3-cd)pyrene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
m-Xylene & p-Xylene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
Methane	4. mg/L (0.02)	0.005 mg/L (0.001)	0.005 mg/L (0.001)	0.043 mg/L (0.001)
Methyl tert-butyl ether	2. U ug/L (2.)	--	2. U ug/L (2.)	--
Naphthalene	2. U ug/L (2.)	--	0.5 U ug/L (0.5)	--
o-Xylene	1. U ug/L (1.)	--	1. U ug/L (1.)	--
Phenanthrene	5. U ug/L (5.)	--	1. U ug/L (1.)	--

Location Identifier	MPT-8-MW04S	MPT-8-MW08S	MPT-8-MW09S	MPT-8-MW12S
Sample Identifier	08G00401	08G00801	08G00901	08G01201
Sample Collect Date	9/27/99	9/29/99	9/29/99	9/28/99
Pyrene	0.25 U ug/L (0.25)	--	0.05 U ug/L (0.05)	--
Sulfide, Total	1. U mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)
Toluene	1. U ug/L (1.)	--	1. U ug/L (1.)	--

Location Identifier	MPT-8-MW13I	MPT-8-MW13S	MPT-8-MW14S	MPT-8-MW15I
Sample Identifier	08G01302	08G01301	08G01401	08G01502
Sample Collect Date	9/27/99	9/27/99	9/28/99	9/28/99
1,2-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1,3-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1,4-Dichlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
1-Methylnaphthalene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
2-Methylnaphthalene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Acenaphthene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	0.5 U ug/L (0.5)
Acenaphthylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Benzo(a)anthracene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzo(a)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Benzo(b)fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Benzo(g,h,i)perylene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Benzo(k)fluoranthene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Chlorobenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Chrysene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Dibenzo(a,h)anthracene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Ethane	0.002 U mg/L (0.002)	0.001 U mg/L (0.001)	0.02 U mg/L (0.02)	0.02 U mg/L (0.02)
Ethene	0.002 U mg/L (0.002)	0.001 U mg/L (0.001)	0.02 U mg/L (0.02)	0.02 U mg/L (0.02)
Ethylbenzene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Fluoranthene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Fluorene	0.1 U ug/L (0.1)	0.1 U ug/L (0.1)	--	0.1 U ug/L (0.1)
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	0.2 U mg/L (0.2)	--	1.7 mg/L (0.2)
Indeno(1,2,3-cd)pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
m-Xylene & p-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Methane	0.23 mg/L (0.002)	0.001 U mg/L (0.001)	2.6 mg/L (0.02)	2. mg/L (0.02)
Methyl tert-butyl ether	2. U ug/L (2.)	2. U ug/L (2.)	--	2. U ug/L (2.)
Naphthalene	0.5 U ug/L (0.5)	0.5 U ug/L (0.5)	--	0.5 U ug/L (0.5)
o-Xylene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)
Phenanthrene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)

Location Identifier	MPT-8-MW13I	MPT-8-MW13S	MPT-8-MW14S	MPT-8-MW15I
Sample Identifier	08G01302	08G01301	08G01401	08G01502
Sample Collect Date	9/27/99	9/27/99	9/28/99	9/28/99
Pyrene	0.05 U ug/L (0.05)	0.05 U ug/L (0.05)	--	0.05 U ug/L (0.05)
Sulfide, Total	3. I mg/L (1.)	1. U mg/L (1.)	1. U mg/L (1.)	6. mg/L (1.)
Toluene	1. U ug/L (1.)	1. U ug/L (1.)	--	1. U ug/L (1.)

Location Identifier	MPT-8-MW17S	MPT-8-MW18S
Sample Identifier	08G01701	08G01801
Sample Collect Date	9/27/99	9/28/99
1,2-Dichlorobenzene	1. U ug/L (1.)	--
1,3-Dichlorobenzene	1. U ug/L (1.)	--
1,4-Dichlorobenzene	1. U ug/L (1.)	--
1-Methylnaphthalene	1. U ug/L (1.)	--
2-Methylnaphthalene	1. U ug/L (1.)	--
Acenaphthene	0.5 U ug/L (0.5)	--
Acenaphthylene	1. U ug/L (1.)	--
Anthracene	0.05 U ug/L (0.05)	--
Benzene	1. U ug/L (1.)	--
Benzo(a)anthracene	0.05 U ug/L (0.05)	--
Benzo(a)pyrene	0.05 U ug/L (0.05)	--
Benzo(b)fluoranthene	0.1 U ug/L (0.1)	--
Benzo(g,h,i)perylene	0.1 U ug/L (0.1)	--
Benzo(k)fluoranthene	0.05 U ug/L (0.05)	--
Chlorobenzene	1. U ug/L (1.)	--
Chrysene	0.05 U ug/L (0.05)	--
Dibenzo(a,h)anthracene	0.1 U ug/L (0.1)	--
Ethane	0.01 U mg/L (0.01)	0.001 U mg/L (0.001)
Ethene	0.01 U mg/L (0.01)	0.001 U mg/L (0.001)
Ethylbenzene	1. U ug/L (1.)	--
Fluoranthene	0.1 U ug/L (0.1)	--
Fluorene	0.1 U ug/L (0.1)	--
Hydrocarbons (C8-C40)	0.2 U mg/L (0.2)	--
Indeno(1,2,3-cd)pyrene	0.05 U ug/L (0.05)	--
m-Xylene & p-Xylene	1. U ug/L (1.)	--
Methane	0.53 mg/L (0.01)	0.013 mg/L (0.001)
Methyl tert-butyl ether	2. U ug/L (2.)	--
Naphthalene	0.5 U ug/L (0.5)	--
o-Xylene	1. U ug/L (1.)	--
Phenanthrene	1. U ug/L (1.)	--

Location Identifier	MPT-8-MW17S	MPT-8-MW18S
Sample Identifier	08G01701	08G01801
Sample Collect Date	9/27/99	9/28/99
Pyrene	0.05 U ug/L (0.05)	--
Sulfide, Total	1. U mg/L (1.)	1. U mg/L (1.)
Toluene	1. U ug/L (1.)	--

Footnotes: Values in parentheses are detection limits

Fourth Quarter Sampling Event, Solid Waste Management Units 6 and 7, U.S. Naval Station Mayport, Florida

Location Identifier	MPT-8-MW01S	MPT-8-MW04S	MPT-8-MW08S	MPT-8-MW09S
Sample Identifier	08G00101	08G00401	08G00801	DUPLICATE
Sample Collect Date	12/6/99	12/6/99	12/6/99	12/6/99
Ethane	0.001 U mg/L ()	0.05 U mg/L ()	0.001 U mg/L ()	0.001 U mg/L ()
Ethene	0.001 U mg/L ()	0.05 U mg/L ()	0.001 U mg/L ()	0.001 U mg/L ()
Methane	0.049 mg/L ()	6.7 mg/L ()	0.05 mg/L ()	0.057 mg/L ()
Sulfide, Total	1. U mg/L ()	1. U mg/L ()	1. U mg/L ()	1. U mg/L ()

Location Identifier	MPT-8-MW09S	MPT-8-MW12S	MPT-8-MW13I	MPT-8-MW13S
Sample Identifier	O8G00901	08G01201	08G01302	08G01301
Sample Collect Date	12/6/99	12/6/99	12/6/99	12/6/99
Ethane	0.001 U mg/L ()	0.05 U mg/L ()	0.001 U mg/L ()	0.001 U mg/L ()
Ethene	0.001 U mg/L ()	0.05 U mg/L ()	0.001 U mg/L ()	0.001 U mg/L ()
Methane	0.073 mg/L ()	3. mg/L ()	0.22 mg/L ()	0.0029 mg/L ()
Sulfide, Total	1. U mg/L ()	1. U mg/L ()	4. mg/L ()	1. U mg/L ()

Location Identifier	MPT-8-MW14S	MPT-8-MW15I	MPT-8-MW17S	MPT-8-MW18S
Sample Identifier	08G01401	08G01502	08G01701	08G01801
Sample Collect Date	12/6/99	12/6/99	12/6/99	12/6/99
Ethane	0.1 U mg/L ()	0.02 U mg/L ()	0.01 U mg/L ()	0.001 U mg/L ()
Ethene	0.1 U mg/L ()	0.02 U mg/L ()	0.01 U mg/L ()	0.001 U mg/L ()
Methane	8.4 mg/L ()	3.6 mg/L ()	2.3 mg/L ()	0.041 mg/L ()
Sulfide, Total	1. U mg/L ()	3. I mg/L ()	1. U mg/L ()	1. U mg/L ()

Location Identifier	MPT-S-MW02S	MPT-S-MW03S
Sample Identifier	0SG00201	0SG00301
Sample Collect Date	12/6/99	12/6/99
Ethane	0.005 U mg/L ()	0.001 U mg/L ()
Ethene	0.005 U mg/L ()	0.001 U mg/L ()
Methane	0.34 mg/L ()	0.039 mg/L ()
Sulfide, Total	1. U mg/L ()	1. U mg/L ()

Footnotes: Values in parentheses are detection limits