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LETTER REPORT REGARDING THIRD QUARTER 2006 GROUNDWATER MONITORING FOR BUILDING 245 NS MAYPORT FL

11/29/2006

TETRA TECH NUS

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November 29, 2006

Project Number 112G00103

Naval Facilities Engineering Command, Southeast
Attn: Beverly Washington (Code OPAEVC)
Remedial Project Manager
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN III Contract Number N62467-94-D-0888
Contract Tack Order Number 0386

Subject: Third Quarter, 2006, Groundwater Monitoring Letter Report, Building 245
For Calendar Year 2006
Naval Station Mayport, Mayport, Florida

Dear Ms. Washington:

Tetra Tech NUS Inc. (TtNUS) is pleased to submit the third quarter Groundwater Monitoring Letter Report. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under CTO 0386 for the Comprehensive Long-term Environmental Action Navy (CLEAN) III Contract Number N62467-94-D-0888. This letter report provides the result of the third quarter groundwater sampling event.

SITE LOCATION

Naval Station (NAVSTA) Mayport is located within the corporate limits of the city of Jacksonville, Duval County, Florida, approximately 12 miles to the northeast of downtown Jacksonville and adjacent to the town of Mayport. A Regional Area Map is provided as Figure 1. The Station complex is located on the northern end of a peninsula bound by the Atlantic Ocean to the east and the St. Johns River to the north. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, which is located to the west between the Station and the St. Johns River. The site is beachfront property located along the Atlantic Ocean as viewed on Figure 2.

SITE DESCRIPTION

Building 245 is the Community Center building that houses many different venues of business, which includes entertainment and dining. The groundwater monitoring wells are located in a grassy area on the northern side of the building. A site plan depicting the well locations at the site is provided as Figure 3.

PREVIOUS INVESTIGATIONS

In April 1995, an unspecified contractor removed Underground Storage Tank (UST) 245. UST 245 contained fuel oil and was removed from a grassy area approximately 7 feet (ft) east of an electrical switch room located on the northern side of Building 245. Groundwater volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) were present in groundwater collected from the tank pit area. Soil impacts were also recorded based on soil head space screened values using an organic vapor analyzer (OVA). Excessively contaminated soil was located at depths of 3 ft and 6 ft below land surface (bls). A replacement UST was installed in a new location soon after the removal approximately 20 ft north of the electrical switch room.

The initial assessment of UST 245 was completed by Bhate Environmental Associates (BEA). The results are included in a Site Assessment for Report (SAR) for UST 245 dated February 12, 1998, which was submitted to the Florida Department of Environmental Protection (FDEP). Based on findings from the SAR, the following conclusions were made:

- Excessively contaminated soil was present at depths of 1 ft to 3 ft bls based on OVA soil headspace screening.
- Laboratory analysis of soil collected from 4 ft to 6 ft bls exceeded the FDEP regulatory action limit for Florida Petroleum Range Organics (FL-PRO).
- Laboratory analysis of groundwater from one of five monitoring wells contained exceedances to the groundwater cleanup target levels (GCTLs) for benzene, naphthalene, and lead.
- Depth to groundwater is approximately 3.5 ft to 6.0 ft bls with the groundwater flow direction being northerly.

Additional assessment of the impacted soil areas and groundwater was requested by the FDEP in a letter dated June 22, 1998. Complying with the request, BEA completed a SAR Addendum dated September 10, 1999. The FDEP approved the SAR and SAR Addendum in letter dated December 1999, and requested that a Remedial Action Plan be developed.

No work was conducted at UST 245 for a period greater than 270 days and, in accordance with the Chapter 62-770, Florida Administrative Code, new analytical data were required. Ellis Environmental Group (EEG) was tasked with performing another SAR Addendum which was dated May 2002. Based on the new SAR Addendum, findings were documented as specified below:

- Free product was observed at micro well MW-8. The product thickness was 0.02 ft to 0.3 ft.
- The presence of excessively impacted soils in the vadose zone at depths of 1 to 3 ft bls was not confirmed.
- No lead exceedances of GCTLs.

In a July 18, 2002, a letter from the FDEP regarding the EEG SAR Addendum, the following was requested:

- Monitoring well MW-8 be reinstalled as a 2-inch well since it was damaged during the UST removal.
- Quarterly monitoring only by natural attenuation (MONA) should commence.
- An interim remedial action using aggressive fluid vapor recovery (AFVR) at MW-8R should be implemented.

- Soil samples should be collected for laboratory analysis from the vadose zone to confirm impacts reported by BEA.

The United States Army Corps of Engineers (USACE) was tasked with implementing the four items required by the FDEP from the July 28, 2002, letter and completed as follows:

- Monitoring well MW-8 was replaced with MW-8R on September 28, 2002.

- Three quarters of monitoring were completed. The report dates are February 2002, April 2003, and September 2003.

- AFVR was completed and removed an estimated 125 gallons of free product.

- Additional soil samples were collected for analysis by FL-PRO and PAHs on July 29, 2003, and January 26, 2004, from 2 ft to 3 ft bls. Based on the soil analytical results, no contamination was recorded in the vadose zone in excess of the soil cleanup target levels. The findings of the additional soil samples were summarized in a Soil Investigation Addendum for Site 245 dated March 2004.

On July 13, 2004, FDEP submitted a letter referencing the March 2004 Soil Investigation Addendum and the September 2003 Third Quarter Monitoring Report, it was stated that the absence of contaminated soil was confirmed through additional soil sampling. It was requested that monitoring of wells MW-1, MW-4, MW-5, MW-6, MW-7, MW-8R, and MW-9 be continued and that groundwater should be analyzed for PAHs, FL-PRO, and VOCs. A copy of the July 13, 2004 letter from the FDEP is provided as Attachment A.

Historically, groundwater impacts are only present in monitoring wells MW-1, MW-4, and MW-8R. Summary tables from the EEG SAR Addendum report, dated May 2002, and the USACE three summary tables from Third Quarter Monitoring Report, dated September 2003, are provided as Attachment B. Combined, these summary tables span a period of time from June 1997 to June 2003.

SAMPLING PROCEDURES AND METHODS

On September 28, 2006, TtNUS personnel collected groundwater samples from monitoring wells MW-1, MW-4, MW-5, MW-8R, and MW-9 as required by the revised MONA. It should be noted the MW-7 and MW-6 are part of the MONA, but were not sampled due to inaccessibility. Monitoring well MW-7 is located down and cross gradient and is currently covered by a deck. Monitoring well MW-6 is upgradient and has been covered by asphalt, and its exact location could not be determined.

Groundwater sampling was conducted in general accordance with FDEP Standard Operating Procedures (DEP-SOP-001/01) adopted in 2004. A minimum one well volume was pumped from each well (partially submerged screen) using a peristaltic pump and the low flow quiescent purging method. Field parameters pH, specific conductance and dissolved oxygen (DO) were measured periodically (minimum 3 minute interval) during purging using a YSI model 556 instrument. Turbidity was measured with a LaMotte 2020 turbidimeter. Purging was considered complete when three consecutive measurements were within the following limits:

- Temperature $\pm$ 0.2 degrees.
- pH $\pm$ 0.2 Standard Units.
- Specific conductivity $\pm$ 5 percent of previous reading(s).
- DO not greater than 20 percent of saturation at field measured temperature.
- Turbidity less than or equal to 20 Nephelometric Turbidity Units.

After collection, samples were immediately placed on ice and delivered to Environmental Conservation Laboratories (ENCO) in Jacksonville, Florida for analysis of VOCs using United States Environmental Protection Agency (USEPA) Method 8260, PAHs using USEPA Method 8270, and total recoverable petroleum hydrocarbons (TRPH) using the FL-PRO Method. Field data sheets are provided in Attachment C, and the groundwater analytical report submitted by ENCO is included as Attachment D.

GROUNDWATER FLOW

Depth to groundwater was measured from the top-of-casing (TOC) of the monitoring well using an electronic water level indicator. The TOC elevations of the monitoring wells were obtained from EEG's SAR Addendum completed in May 2002. The groundwater elevation recorded at the monitoring well was obtained by subtracting the depth-to–water measurement from the surveyed TOC elevation. Depths of groundwater were measured from the TOC on September 28, 2006. Surveyed TOC elevations and groundwater measurement data are provided in Table 1. A groundwater elevation contour map generated from depth-to-water measurements is provided as Figure 4. Groundwater flow is to the southeast.

DISCUSSION OF GROUNDWATER ANALYTICAL RESULTS

On September 28, 2006, a TtNUS representative collected groundwater for laboratory analysis by ENCO. Five monitoring wells were sampled for VOCs using USEPA Method 8260B, PAHs using USEPA Method 8270, and TRPH using the FL-PRO Method. A summary of the groundwater analytical results are presented as Table 2. Petroleum constituents were identified in monitoring wells MW-1, MW-4, MW-5, MW-8R, and MW-9 and were below method detection. One groundwater constituent exceeded GCTL in MW-8R for naphthalene [26.4 micrograms per liter (µg/L)].

THIRD QUARTER CONCLUSIONS AND RECOMMENDATIONS

Based on the most recent monitoring, only naphthalene (26.4 µg/L) in MW-8R exceeds GCTLs. Contaminant levels in MW-1 have shown a decreasing trend and are now below GCTLs. Based on groundwater analytical results, impacts continue to be limited in extent.

Based on the current petroleum impacts, the following is recommended:

- Additional quarterly monitoring sampling events should be conducted.
- Based on input received from the NAVSTA Mayport Partnering Team, it was agreed that monitoring wells MW-6 and MW-7 be removed from the monitoring program, given that they are not accessible and these wells have historically shown no detections.
- The fourth quarter sampling event should take place before December 31, 2006.

If you have any questions with regard to this submittal, please feel free to contact me at (904) 636-6125 or via e-mail at mark.peterson@ttnus.com.

Sincerely,

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

MAP/wh

Attachments (4)

pc: Mr. Jim Cason, FDEP (2 copies)
Ms. Diane Racine, NAVSTA Mayport
Mr. Mike Halil, CH2M Hill
Ms. Debra Humbert, TtNUS (cover letter only)
Mr. Mark Perry, TtNUS (unbound copy)
NAVSTA Mayport Administrative Record
CTO 0386 Project File

CERTIFICATION

The information contained is based on the geologic investigation and associated information detailed in the text and appended to this letter report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the information described in this report. This Third Quarter Groundwater Monitoring Letter Report was developed for Building 245 at the Naval Station Mayport, Mayport, Florida, and should not be construed to apply to any other site.

November 29, 2006
Mark A. Peterson, P.G.
Florida License Number PG-0001852

TABLES

TABLE 1
Top of Casing Survey Data and Depth-to-Groundwater Measurements

Third Quarter, 2006, Groundwater Monitoring Letter Report
Building 245
Naval Station Mayport
Mayport, Florida

Monitoring Well	TOC (ft)	Depth-to-Groundwater (ft)	Feet Above Mean Sea Level
1	11.57	6.73	4.84
2	10.27	5.34	4.93
3	10.15	5.14	5.01
4	10.31	5.33	4.98
5	9.76	4.76	5.00
6	9.15	NM	--
7	12.48	NM	--
8	10.07	5.31	4.76
9	NS	7.42	--

Notes:
All wells were surveyed on February 13, 2006
NS=Not surveyed, MW-9 was added after the last survey
NM = not measured, MW-6 and MW-7 were not accessable due to permanent obstructions.

TABLE 2
Summary of Laboratory Groundwater Analytical Detections
Third Quarter, 2006, Groundwater Monitoring Letter Report
Building 245
Naval Station Mayport
Mayport, Florida

Contaminant	GCTL [1]	Monitoring Well Locations								
		MPT-245-MW01			MPT-245-MW04			MPT-245-MW05		
VOCs (USEPA Method 8260B) (µg/L)		2/15/2006	6/1/2006	9/28/2006	2/15/2006	6/1/2006	9/28/2006	2/15/2006	6/1/2006	9/28/2006
BENZENE	1	4.33	**2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	0.32 J	1.7	0.3 U	0.37 J	0.3 U	0.5 J	0.3 U	0.3 U	0.3 U
TOLUENE	40	0.2 U	0.5 J	0.2 U	0.2 U	0.2 U	0.3 J	0.2 U	0.2 U	0.2 U
XYLENES, TOTAL	20	0.2 U	0.8 J	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U
PAHs (USEPA Method 8270C SIM) (µg/L)										
1-METHYLNAPHTHALENE	28	**47.4 J**	52	0.02 U	3.97 J	0.71	0.41	0.02 U	0.02 U	0.02 U
2-METHYLNAPHTHALENE	28	**32.0 J**	14.3	0.02 U	1.52 J	0.62	0.02 U	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	2.04	3.32	0.22	0.52	0.24	0.68	0.02 U	0.02 U	0.02 U
ANTHRACENE	2100	0.22	0.43	0.19	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
FLUORANTHENE	280	2.51	0.1	0.01 U	0.54	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U
FLUORENE	280		4.6	0.49		0.29	0.02 U		0.02 U	0.02 U
NAPHTHALENE	14	**53.4 J**	**34.8**	0.02 U	5.87 J	0.86	1.29	0.02 U	0.02 U	0.02 U
PHENANTHRENE	210		2.38	0.02 U		0.11	0.02 U		0.02 U	0.02 U
PYRENE	210	0.10	0.23	0.07 J	0.02 U	0.02 U	0.16	0.02 U	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)										
TPH (C08-C40)	5	**9.13**	**13.4**	0.25	0.61	0.09 U	1.74	0.09 U	0.09 U	0.09 U

Contaminant	GCTL [1]	Monitoring Well Locations					
		MPT-245-MW08R			MPT-245-MW09		
VOCs (USEPA Method 8260B) (µg/L)		2/15/2006	6/1/2006	9/28/2006	2/15/2006	6/1/2006	9/28/2006
BENZENE	1	0.35 J	0.2 J	0.3 J	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	7.53	1.9	2.8	0.3 U	0.3 U	0.3 U
TOLUENE	40	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
XYLENES, TOTAL	20	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PAHs (USEPA Method 8270C SIM) (µg/L)							
1-METHYLNAPHTHALENE	28	3.23 J	11.8	26.8	0.02 U	0.02 U	0.02 U
2-METHYLNAPHTHALENE	28	0.64 J	4.45	3.04	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	0.47	0.95	1.62	0.02 U	0.02 U	0.02 U
ANTHRACENE	2100	0.02 U	0.02 U	0.17	0.02 U	0.02 U	0.02 U
FLUORANTHENE	280	0.47	0.05 J	0.05 J	0.02 U	0.01 U	0.01 U
FLUORENE	280		1.27	2.43		0.02 U	0.06 J
NAPHTHALENE	14	5.03 J	7.55	**26.4**	0.02 U	0.02 U	0.02 U
PHENANTHRENE	210		0.83	1.08		0.02 U	0.02 U
PYRENE	210	0.02 U	0.08 J	0.12	0.02 U	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)							
TPH (C08-C40)	5	0.10	1.18	1.19	0.09 U	0.09 U	0.09 U

Notes:

[1] GCTL Level as defined by Chapter 62-777, Table I, FAC (as amended 4/17/05).

J = estimated value

U = less than laboratory method detection limit.

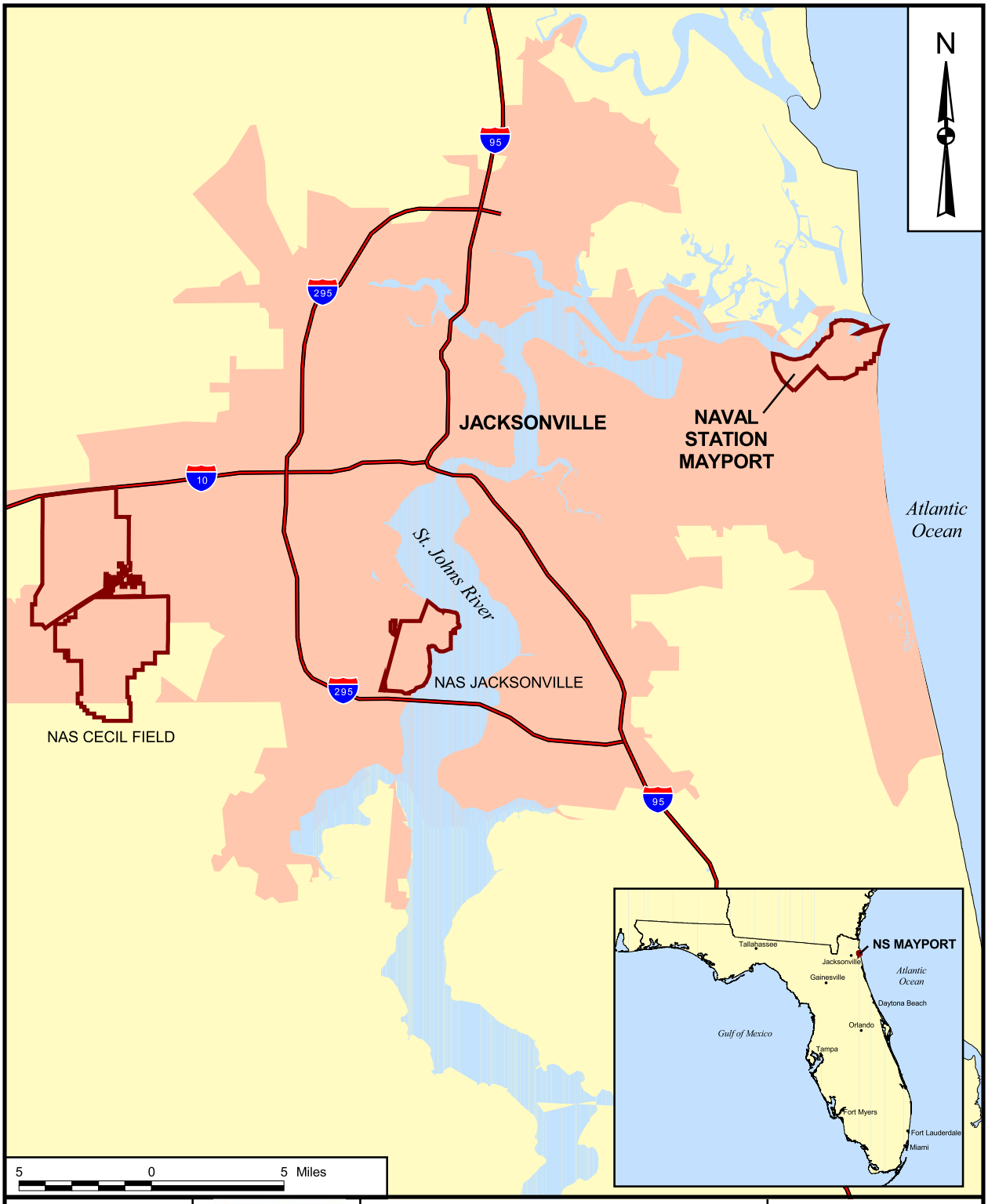
SIM = Select Ion Method

Bold font indicates a GCTL was exceeded.

µg/L = micrograms per liter

mg/L = milligrams per liter

FIGURES



DRAWN BY K. PEILA	DATE 4/17/06	REGIONAL AREA MAP NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER 0103
CHECKED BY D. SIEFKEN	DATE 5/11/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

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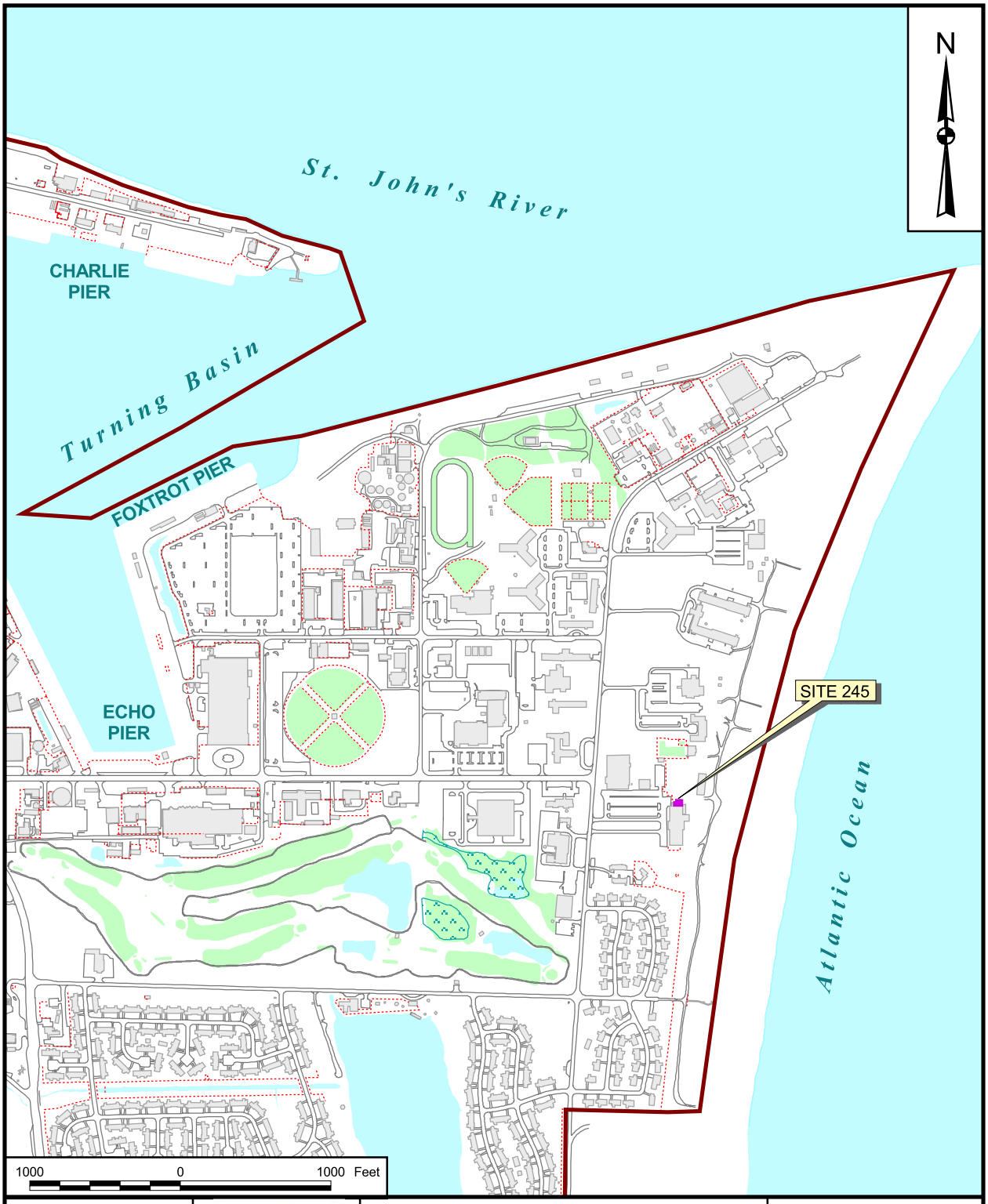
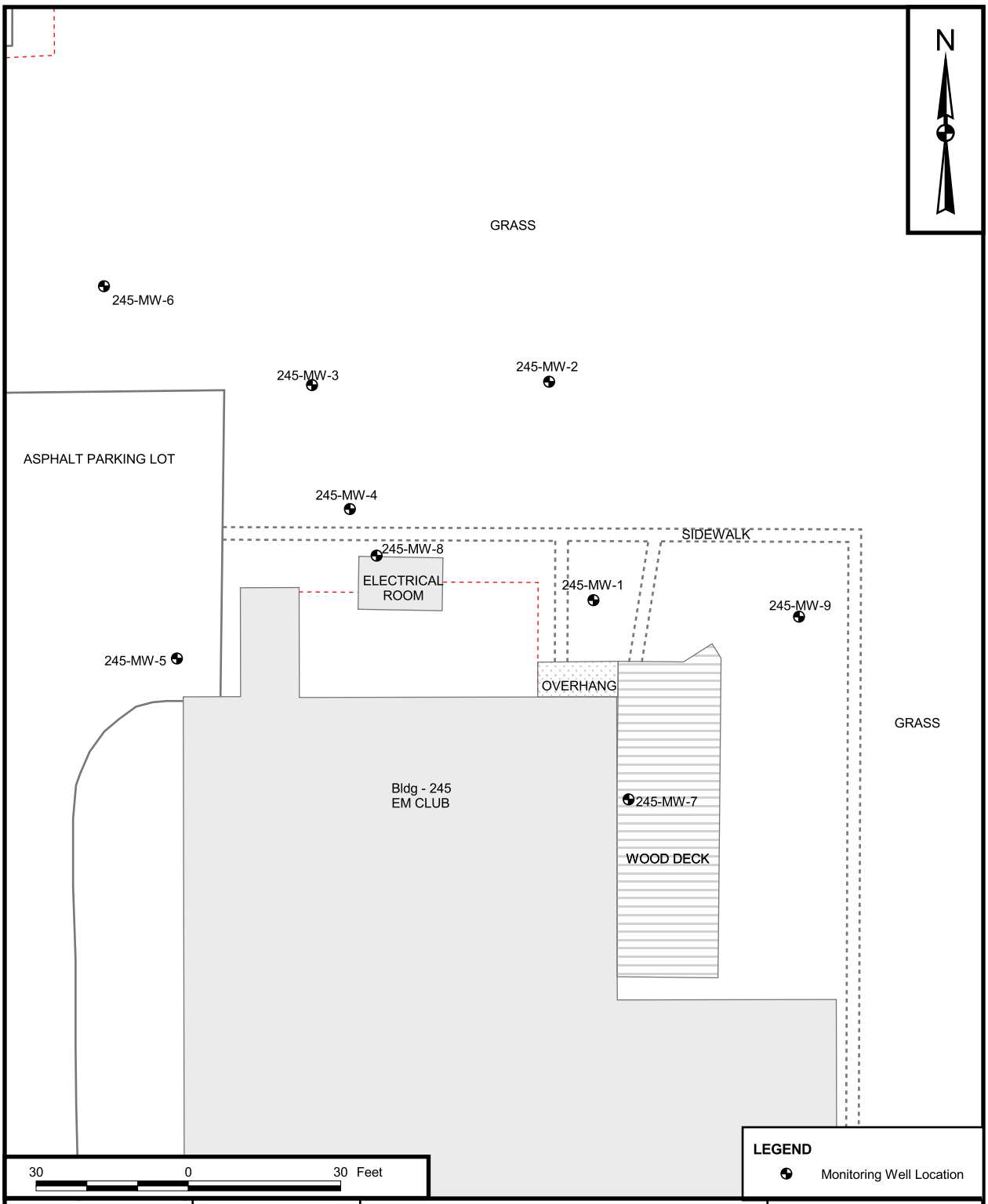


DRAWN BY K. PEILA	DATE 4/17/06	SITE LOCATION MAP SITE 245 NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER 0103
CHECKED BY D. SIEFKEN	DATE 4/17/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV 0

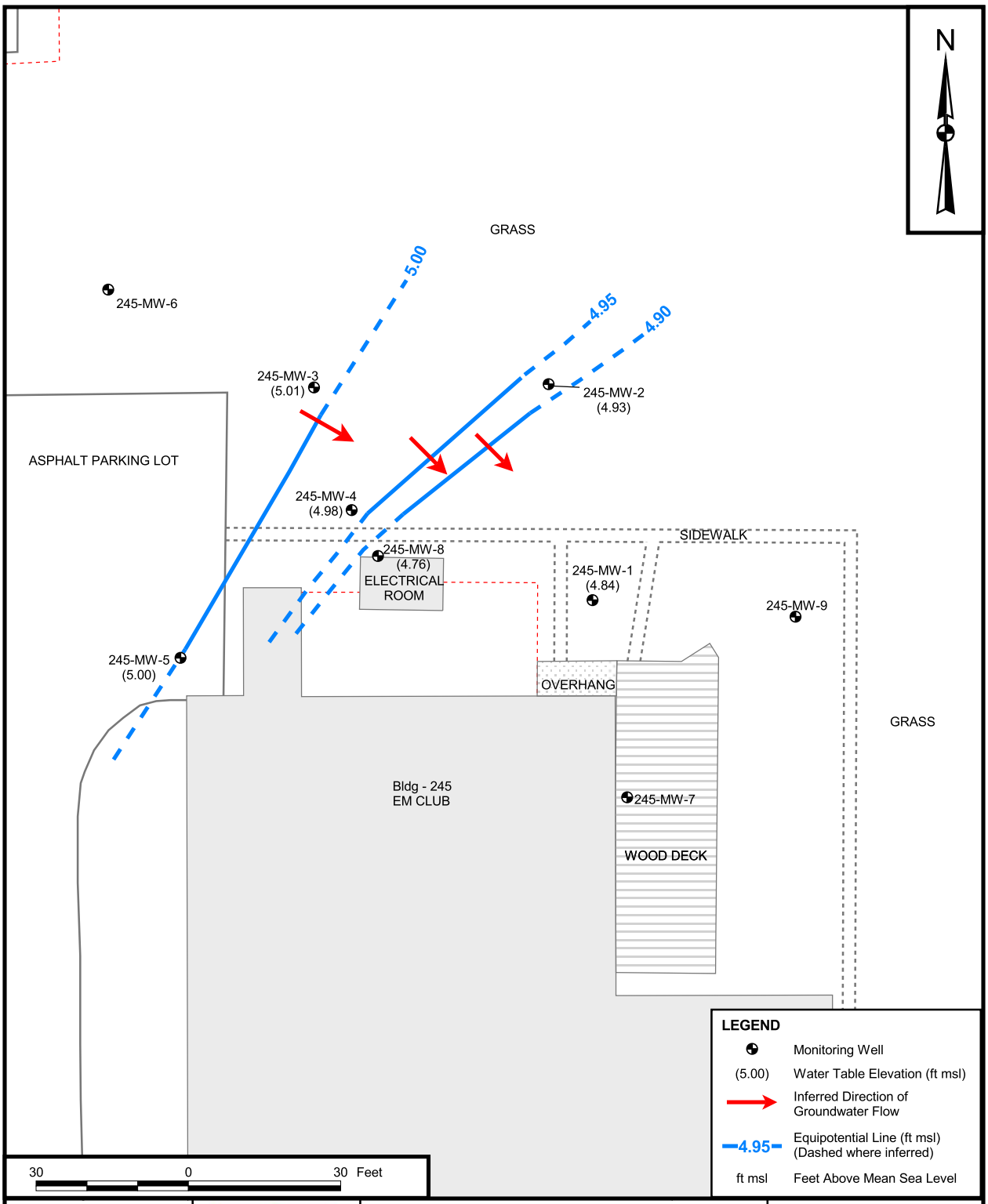
NAVFAC

P:\GIS\MAYPORT_NS\MAPDOCS\APR\STATEMENT_BASIS.APR SITE 245 SITE LOCATION 4/17/06 KMP



DRAWN BY K. PEILA	DATE 4/17/06	SITE PLAN SITE 245 NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER CTO 00103
CHECKED BY D. SIEFKEN	DATE 4/17/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 3 / REV 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\BLDG413_1585.APR BLDG 245 SITE PLAN_LAYOUT 6/5/06 MKB (KOP)



DRAWN BY K. PEILA	DATE 4/17/06	GROUNDWATER ELEVATION CONTOUR MAP, 09/28/06 SITE 245 MAYPORT NAVAL STATION MAYPORT, FLORIDA	CONTRACT NUMBER CTO 00103
CHECKED BY D. SIEFKEN	DATE 11/17/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 4 / REV 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\BLDG413_1585.APR SITE 245 POTENTIOMETRIC LAYOUT 11/17/06 SS

ATTACHMENT A

FDEP LETTER DATED JULY 13, 2004

Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

July 13, 2004

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

file: 245GWI0903.doc

RE: Site 245 Soil Investigation Addendum, Naval Station Mayport, Mayport, Florida

Third Quarter Site 245 Groundwater Monitoring Report, Naval Station Mayport, Mayport, Florida

Dear Ms. Washington:

I have reviewed the above documents dated, respectively, March 2004 (received June 8, 2004) and September 2003 (received June 8, 2004). The documents furnish a summary of the groundwater and soil investigation activities at Site 245. Recent soil borings confirm the absence of contaminated soil at the site and it is recommended that quarterly groundwater monitoring be continued. I concur with that recommendation.

Thank you for the opportunity to review this document. If you require further clarification or other assistance, please contact me at 850-245-8999.

Sincerely,

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

CC: Diane Lancaster, NAVSTA Mayport

ESN ESN JJC JJC by ESN

ATTACHMENT B

PREVIOUS INVESTIGATIONS

1st Qtr

TABLE 1

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

SITE 245

MAYPORT NAVAL STATION
MAYPORT FLORIDA
06 OCTOBER 2002

MONITOR WELL NUMBER

PARAMETER	MAY 245 - MW - 1 - 10-02	MAY 245 - MW - 4 - 10-02	MAY 245 - MW - 4 - 10-02 Duplicate	MAY 245 - MW - 5 - 10-02	MAY 245 - MW - 6 - 10-02	MAY 245 - MW - 7 - 10-02	MAY 245 - BLK - 10-02	Clean up Target Level or MCL
Florida PRO (mg/L)								
Petroleum Range Organics, mg/l	<1.7	**6.5**	**6.6**	<1.7	<1.7	<1.7	<1.7	5 mg/l
Extractable Organics (8310)								
Acenaphthene, ug/L	< 1.00	<1.00	*4.10*	< 1.00	< 1.00	< 1.00	< 1.00	20 ug/L
Acenaphthylene, ug/L	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.6	210 ug/L
Anthracene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2100 ug/L
Benzo (a) anthracene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.2 ug/L
Benzo (a) pyrene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.2 mg/l
Benzo (b) fluoranthene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.2 ug/L
Benzo (g,h,i) perylene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	210 ug/L
Benzo (k) fluoranthene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.5 ug/L
Chrysene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	5 ug/L
Dibenzo(a,h) anthracene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.2 ug/L
Fluoranthene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	280 ug/L
Fluorene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	280 ug/L
Indeno(1,2,3-cd)pyrene, ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.2 ug/L
1-Methylnaphthalene, ug/L	< 1.00	< 1.00	<1.00	<1.00	<1.00	<1.00	< 1.00	20 ug/L
2-Methylnaphthalene, ug/L	< 1.00	<1.00	<1.00	<1.00	<1.00	<1.00	< 1.00	20 ug/L
Naphthalene, ug/L	<1.00	*1.20*	*1.50*	<1.00	<1.00	<1.00	<1.00	20 ug/L
Phenanthrene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	210 ug/L
Pyrene, ug/L	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	210 ug/L

Notes: - Bold value indicates regulatory limit exceeded.
- *Italic values indicate concentration detected is below clean up target level*

TABLE 1

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

SITE 245

2nd Qtr

MAYPORT NAVAL STATION
MAYPORT FLORIDA
24 FEBRUARY 2003

MONITOR WELL NUMBER

PARAMETER	MAY 245 - MW-1 - 02-03	MAY 245 - MW-4 - 02-03	MAY 245 - MW-5 - 02-03	MAY 245 - MW-5 - 02-03 Duplicate	MAY 245 - MW-6 - 02-03	MAY 245 - MW-7 - 02-03	MAY 245 - MW-8R - 02-03	MAY 245 - BLK - 02-03	Clean up Target Level or MCL
Florida PRO (mg/L)									
Petroleum Range Organics, mg/l	*1.7*	<1.7	<1.7	<1.7	<1.7	<1.7	*2.1*	<1.7	5 mg/l
Extractable Organics (8310)									
Acenaphthene, ug/L	*0.41*	*0.57*	< 0.20	< 0.20	< 0.20	< 0.20	*1.8*	< 0.20	20 ug/L
Acenaphthylene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L
Anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*0.17(J)*	< 0.20	2100 ug/L
Benzo (a) anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Benzo (a) pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 mg/l
Benzo (b) fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Benzo (g,h,i) perylene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L
Benzo (k) fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.5 ug/L
Chrysene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	5 ug/L
Dibenzo(a,h) anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	280 ug/L
Fluorene, ug/L	*0.64*	*0.90*	< 0.20	< 0.20	< 0.20	< 0.20	*2.6*	< 0.20	280 ug/L
Indeno(1,2,3-cd)pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
1-Methylnaphthalene, ug/L	*6.3*	*3.9*	< 0.20	< 0.20	< 0.20	< 0.20	**29**	< 0.20	20 ug/L
2-Methylnaphthalene, ug/L	*4.9*	*1.5*	< 0.20	< 0.20	< 0.20	< 0.20	*14*	< 0.20	20 ug/L
Naphthalene, ug/L	*7.9*	*3.7*	< 0.20	< 0.20	< 0.20	< 0.20	*23*	< 0.20	20 ug/L
Phenanthrene, ug/L	*0.25*	*0.20*	< 0.20	< 0.20	< 0.20	< 0.20	*1.6*	< 0.20	210 ug/L
Pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L

Notes: - Bold value indicates regulatory limit exceeded.
- *Italic values indicate concentration detected is below clean up target level*

TABLE 1

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

SITE 245

3rd Qtr

MAYPORT NAVAL STATION
MAYPORT FLORIDA
09 JUNE 2003

MONITOR WELL NUMBER

PARAMETER	MAY 245 - MW - 1 - 06-03	MAY 245 - MW - 1 - 06-03 Duplicate	MAY 245 - MW - 4 - 06-03	MAY 245 - MW - 5 - 06-03	MAY 245 - MW - 6 - 06-03	MAY 245 - MW - 7 - 06-03	MAY 245 - MW - 8R - 06-03	MAY 245 - MW - 9 - 09-03	MAY 245 - BLK - 06-03	Clean up Target Level or MCL
BTEX										
Benzene ug/L	**22**	**22**	NA	NA	NA	<1.0	NA	<1.0	<1.0	1 ug/L
Ethylbenzene ug/L	*0.87*	*0.90*	NA	NA	NA	<1.0	NA	<1.0	<1.0	40 ug/L
Toluene ug/L	<1.0	<1.0	NA	NA	NA	<1.0	NA	<1.0	<1.0	30 ug/L
Xylenes (total) ug/L	<3.0	<3.0	NA	NA	NA	<3.0	NA	<3.0	<3.0	20 ug/L

Notes: - Bold value indicates regulatory limit exceeded.
- *Italic values indicate concentration detected is below clean up target level*
- J values indicate detection was below laboratory reporting limits
- B values indicate that contaminat was detected in the equipment blank.
- NA indicates compound was not analyzed for

TABLE 1

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

SITE 245

3rd Qtr

MAYPORT NAVAL STATION
MAYPORT FLORIDA
09 JUNE 2003

MONITOR WELL NUMBER

PARAMETER	MAY 245 - MW - 1 - 06-03	MAY 245- MW - 1 - 06-03 Duplicate	MAY 245 - MW - 4 - 06-03	MAY 245 - MW - 5 - 06-03	MAY 245 - MW - 6 - 06-03	MAY 245- MW - 7 - 06-03	MAY 245- MW - 8R - 06-03	MAY 245- MW - 9 - 09-03	MAY 245 - BLK - 06-03	Clean up Target Level or MCL
Florida PRO (mg/L)										
Petroleum Range Organics, mg/l	*3.9B*	*4.8B*	*2.1B*	*0.78JB*	*1.1JB*	*1.7JB*	**5.0B**	*0.82 JB*	0.76JB	5 mg/l
Extractable Organics (8310)										
Acenaphthene, ug/L	*1.3*	*1.2*	0.62	< 0.20	< 0.20	< 0.20	*0.72*	< 0.20	< 0.20	20 ug/L
Acenaphthylene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L
Anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2100 ug/L
Benzo (a) anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Benzo (a) pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 mg/l
Benzo (b) fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Benzo (g,h,i) perylene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L
Benzo (k) fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.5 ug/L
Chrysene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	5 ug/L
Dibenzo(a,h) anthracene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
Fluoranthene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	280 ug/L
Fluorene, ug/L	*1.6*	*1.5*	*0.90*	< 0.20	< 0.20	< 0.20	*1.0*	< 0.20	< 0.20	280 ug/L
Indeno(1,2,3-cd)pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.2 ug/L
1-Methylnaphthalene, ug/L	**26**	**28**	*5.9*	< 0.20	< 0.20	< 0.20	*9.5*	< 0.20	< 0.20	20 ug/L
2-Methylnaphthalene, ug/L	*18*	**21**	*3.1*	< 0.20	< 0.20	< 0.20	*3.2*	< 0.20	< 0.20	20 ug/L
Naphthalene, ug/L	**26**	**26**	*5.4*	< 0.20	< 0.20	< 0.20	*5.9*	< 0.20	< 0.20	20 ug/L
Phenanthrene, ug/L	*0.88*	*1.0*	*0.29*	< 0.20	< 0.20	< 0.20	*0.70*	< 0.20	< 0.20	210 ug/L
Pyrene, ug/L	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	210 ug/L

Table 4. Groundwater Analytical Results – Volatile Organic Compounds

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	EDB (µg/L)
MW-1	06/10/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NS	NS	NS	NS	NS	NS
	07/01/99	NS	NS	NS	NS	NS	NS
	07/31/01	**16.0**	< 1.0	< 1.0	< 1.0	NA	NA
MW-2	06/10/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NS	NS	NS	NS	NS	NS
	07/01/99	NS	NS	NS	NS	NS	NS
	07/31/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-3	06/10/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NS	NS	NS	NS	NS	NS
	07/01/99	NS	NS	NS	NS	NS	NS
	07/31/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-4	06/10/97	**6.5**	< 1.0	22.0	18.0	< 1.0	NA
	02/16/99	**1.8**	< 1.0	1.8	< 1.0	< 1.0	< 1.0
(Duplicate)	02/16/99	**1.4**	<1.0	1.2	<1.0	<1.0	<1.0
	07/01/99	NA	NA	NA	NA	NA	< 0.02
(Duplicate)	07/01/99	NA	NA	NA	NA	NA	< 0.02
	07/31/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-5	06/10/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NS	NS	NS	NS	NS	NS
	07/01/99	NS	NS	NS	NS	NS	NS
	07/31/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-6	06/10/97	NI	NI	NI	NI	NI	NI
	02/16/99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/01/99	NA	NA	NA	NA	NA	< 0.02
	08/01/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
(Duplicate)	08/01/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-7	06/10/97	NI	NI	NI	NI	NI	NI
	02/16/99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	07/01/99	NA	NA	NA	NA	NA	< 0.02
	07/31/01	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA
MW-8	06/10/97	NI	NI	NI	NI	NI	NI
	02/16/99	**17.5**	< 5.0	**59.0**	7.5	< 1.0	< 5.0
	07/01/99	NA	NA	NA	NA	NA	< 0.02
	08/01/01	FP	FP	FP	FP	FP	FP
Groundwater		1	40	30	20	50	0.02
Marine		10	400	300	200	500	0.2
NA source		100	400	300	200	500	2
NA parameter		1	40	30	20	50	0.02

Notes:
Analytical results obtained prior to July 31, 2001, were by Bhate Environmental Associates (BEA, 1997, 1999)
FP = Free-phase liquid present, groundwater sample not collected; NA = Not analyzed; NI = Not installed; NS = Not sampled
NA source = Natural attenuation source guidance concentration; NA parameter = Natural attenuation parameter guidance concentration
µg/L = Micrograms per liter

Table 5. Groundwater Analytical Results – Polynuclear Aromatics & Hydrocarbons

Sample Location	Date	1-Methyl-naphthalene (µg/L)	2-Methyl-naphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Naphthalene (µg/L)	Fluorene (µg/L)	Phenanthrene µg/L	FL-PRO (mg/L)
MW-1	06/13/97	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	NA
	02/16/99	NA	NA	NA	NA	NA	NA	NA	< 0.202
	07/31/01	4.6	2.0	< 1.0	14	8	< 1.0	< 1.0	1.0
MW-2	06/13/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NA	NA	NA	NA	NA	NA	NA	< 0.202
	07/31/01	< 1.5	< 1.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 0.10
MW-3	06/13/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NA	NA	NA	NA	NA	NA	NA	< 0.206
	07/31/01	< 1.5	< 1.5	< 1.0	< 2.0	4	< 1.0	< 1.0	< 0.10
MW-4	06/13/97	41	42	3.4	< 1.0	33	3.9	3.7	NA
	02/16/99	< 10.1 *	< 10.1 *	< 5.1 *	10.1 *	37 *	0.5	< 0.6	0.790
	07/31/01	< 1.5	< 1.5	< 1.0	< 2.0	9.9	< 1.0	< 1.0	0.44
MW-5	06/13/97	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
	02/16/99	NA	NA	NA	NA	NA	NA	NA	< 0.004
	07/31/01	< 1.5	< 1.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	0.26
MW-6	02/16/99	< 2.1	< 2.1	< 1.0	< 2.1	< 1.0	< 0.2	< 0.7	< 0.202
	08/01/01	< 1.5	< 1.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 0.10
(Duplicate)	08/01/01	< 1.5	< 1.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 0.10
MW-7	02/16/99	12.3 *	< 10.2 *	< 5.1 *	< 10.2 *	32.8 *	1.3 *	< 0.7	0.440
	07/01/99	NA	NA	< 1.1	< 2.1	< 1.1	< 0.2	< 0.7	NA
	07/31/01	< 1.5	< 1.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	0.12
MW-8	02/16/99	75.2 *	76.0 *	< 21.1 *	< 42.1 *	164 *	4.8 *	< 13.5 *	2.830
	08/01/01	FP	FP	FP	FP	FP	FP	FP	FP
Groundwater		20	20	20	210	20	280	210	5
Marine		95	30	3	0.031	26	30	0.031	5
NA source		200	200	200	2,100	200	2,800	2,100	50
NA parameter		20	20	20	210	20	280	210	5

Notes:
Analytical results obtained prior to July 30, 2001, were by Bhate Environmental Associates (BEA, 1997, 1999)
* = Dilution factor used in determining analytical reporting limits
FP = Free-phase liquid present, groundwater sample not collected; NA = Not analyzed
NA source = Natural attenuation source guidance concentration; NA parameter = Natural attenuation parameter guidance concentration
mg/L = Milligrams per liter; ug/L = Micrograms per liter

ATTACHMENT C

GROUNDWATER SAMPLE LOGS

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: MAYPORT	SITE LOCATION: SITE 245	
WELL NO: MW 8R	SAMPLE ID: MPT-245-MW08R-092806	DATE: 09-28-06

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.71	STATIC DEPTH TO WATER (ft): 5.31	WELL CAPACITY (gal/ft): 4.9

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 4.9 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 1155	PURGING ENDED AT: 1225	TOTAL VOLUME PURGED (Liters): 9.0

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR Petro
1155	0	0	300	5.31							
1215	6	6	300	5.42	6.54	27.35	0.852	0.13	7.61	–	yes
1220	1.5	7.5	300	5.42	6.55	27.33	0.833	0.11	7.54	–	–
1225	1.5	9.0	300	5.42	6.55	27.41	0.821	0.10	7.50	–	–
1225	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Dave Siefken / TtNUS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: 1245
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
	3	Cg	40 ml	HCL	40 ml		8260	SM
	2	Ag	1L	--	1 L		8270	VT
	2	ag	1L	H2SO4	1L		TRPH	VT

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: MAYPORT	SITE LOCATION: SITE 245

WELL NO: MW 4	SAMPLE ID: MPT-245-MW04-092806	DATE: 09-28-06

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 13	STATIC DEPTH TO WATER (ft): 5.33	WELL CAPACITY (gal/ft): ~4.9

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
4.9 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.3	PURGING INITIATED AT: 1105	PURGING ENDED AT: 1135	TOTAL VOLUME PURGED (Liters): 9.0

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1105	0	0	300	5.33							Rotto
1125	6	6	300	5.41	6.60	27.65	0.583	0.05	6.72	—	yes
1130	1.5	7.5	300	5.41	6.65	27.58	0.573	0.06	6.11	—	yes
1135	1.5	9.0	300	5.41	6.67	27.61	0.570	0.05	6.00	—	yes
1135	SAMPLE										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Dave Siefken / Tt NUS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT: 1155
PUMP OR TUBING DEPTH IN WELL (feet): 9.3	SAMPLE PUMP FLOW RATE (mL per minute): —	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
	3	Cg	40 ml	HCL	40 ml		8260	SM
	2	Ag	1L	--	1 L		8270	VT
	2	ag	1L	H2SO4	1L		TRPH	VT

REMARKS: Good well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: MAYPORT	SITE LOCATION: SITE 245	
WELL NO: MW1	SAMPLE ID: MPT-245-MW01-092806	DATE: 9-28-06

PURGING DATA

WELL DIAMETER (in): 2"	TOTAL WELL DEPTH (ft): 13	STATIC DEPTH TO WATER (ft): 6.73	WELL CAPACITY (gal/ft): 4.3 l

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 4.3 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) ~~4.3~~ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1015	0	0	300	6.73							
1030	4.5	4.5	300	6.80	6.74	26.92	1.014	0.90	18	—	—
1035	1.5	6.0	300	6.80	6.73	26.80	1.000	0.92	17	—	—
1040	1.5	7.5	300	6.80	6.74	26.79	0.997	0.97	14	—	—
Sample 1040											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Dave Siefken / TtNUS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1105
PUMP OR TUBING DEPTH IN WELL (feet): 10	SAMPLE PUMP FLOW RATE (mL per minute): —	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
	3	Cg	40 ml	HCL	40 ml		8260	SM
	2	Ag	1L	--	1 L		8270	VT
	2	ag	1L	H2SO4	1L		TRPH	

REMARKS: Lots of gross, filimentous algae in well.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: MAYPORT	SITE LOCATION: SITE 245	
WELL NO: MW-9	SAMPLE ID: MDT-245-MW09-092806	DATE: 9-28-06

PURGING DATA

WELL DIAMETER (in): 1.25	TOTAL WELL DEPTH (ft): 12	STATIC DEPTH TO WATER (ft): 7.42	WELL CAPACITY (gal/ft): 1.4 l

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

1.4 Liters 12 – 7.42 5.68 ft of H_2O = 1.4 l

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
0930	0	0	300	7.42							
0940	3	3	300	7.49	6.82	26.36	0.757	0.27	2.3	–	–
0945	1.5	4.5	300	7.49	6.81	26.47	0.755	0.26	2.2	–	–
0950	1.5	6.0	300	7.49	6.82	26.42	0.756	0.17	1.9	–	–
0950	sample										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Dave Sickhen / TtNUS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 10	SAMPLE PUMP FLOW RATE (mL per minute): —	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
	3	Cg	40 ml	HCL	40 ml		8260	SM
	2	Ag	1L	--	1 L		8270	VT
	2	ag	1L	H2SO4	1L		TRPH	~~APP~~ UT

REMARKS:
Good Well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: MAYPORT	SITE LOCATION: SITE 245	
WELL NO: MW-5	SAMPLE ID: MPT-245-MW05-092806	DATE: 9-28-06

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 12.85	STATIC DEPTH TO WATER (ft): 4.76	WELL CAPACITY (gal/ft): 4.9 l

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) ~8 ft of Screen = 4.9 l
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.85	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.85	PURGING INITIATED AT: 0840	PURGING ENDED AT: 0910	TOTAL VOLUME PURGED (Liters): 9 l

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
0840	0	0	300	4.76							
0900	6 l	6 l	300	4.78	7.15	27.60	0.497	0.40	4.5	—	—
0905	1.5	7.5	300	4.78	7.16	27.62	0.498	0.31	2.2		
0910	1.5	9.0	300	4.78	7.16	27.63	0.498	0.29	2.1		
0910	Sample										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TtNUS/ Dave Siefken / TtNUS	SAMPLER(S) SIGNATURES: DS	SAMPLING INITIATED AT: 0910	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 8.85	SAMPLE PUMP FLOW RATE (mL per minute): —	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
	3	Cg	40 ml	HCL	40 ml		8260	SM
	2	Ag	1L	--	1 L		8270	VT
	2	ag	1L	H2SO4	1L		TRPH	

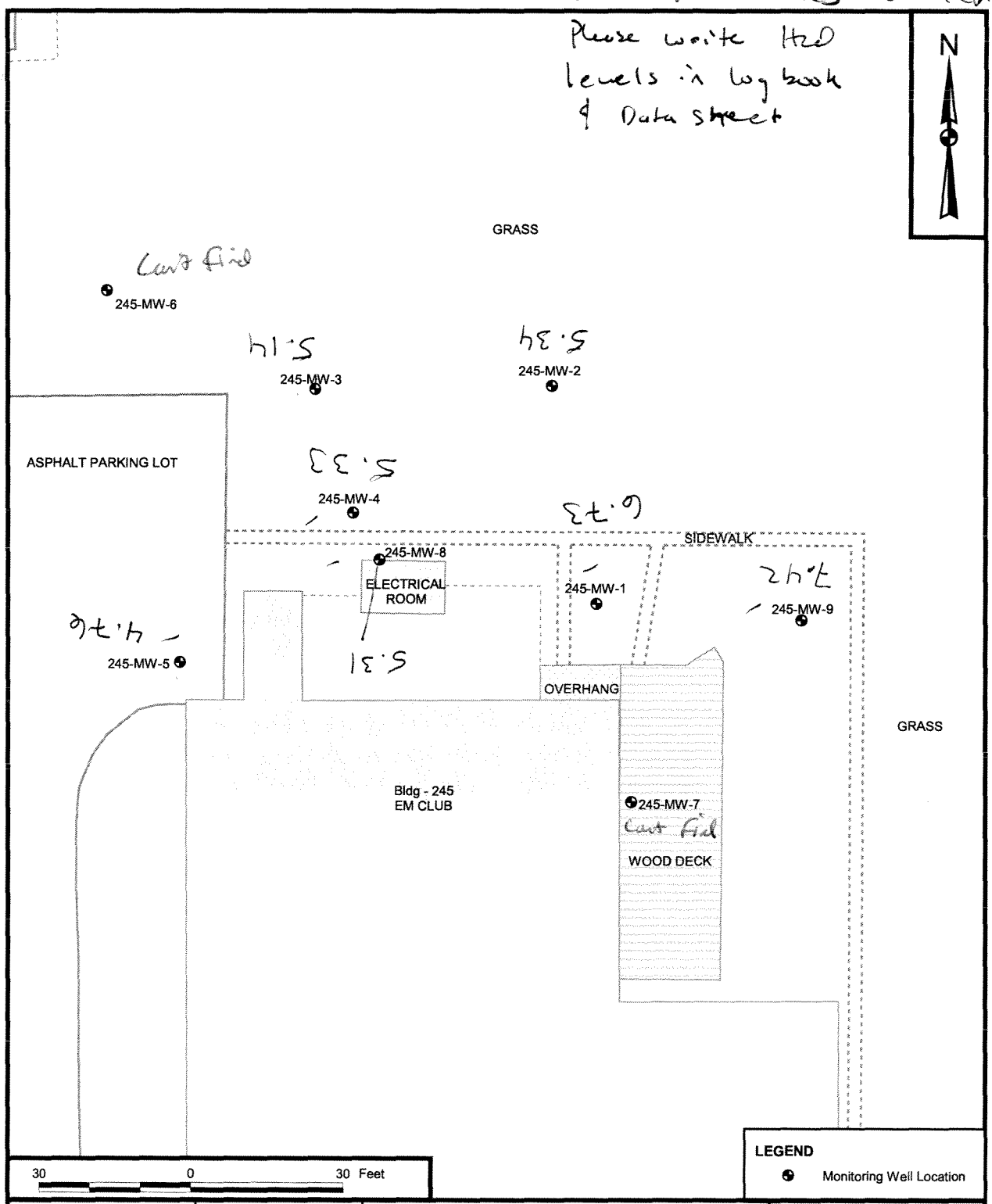
REMARKS: good well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

Get Round of H_2O levels from 7 wells - which 7

Please write H_2O levels in log book & Data sheet



DRAWN BY K. PEILA	DATE 4/17/06	SITE PLAN SITE 245 NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER CTO 00103
CHECKED BY D. SIEFKEN	DATE 4/17/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 3 / REV 0

P:\GIS\MAYPORT_NS\MAPDOCS\APR\BLDG413_1585.APR BLDG 245 SITE PLAN_LAYOUT 6/5/06 MKB (KOP)

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3344 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00103	Mayport	M. Peterson	904-636-6125	ENCO / Chris
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		D. Siefken	904-334-7260	4810 Executive Park Ct.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Drop off		Jacksonville, FL 32216

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G6 AG AG
PRESERVATIVE USED: HCL H2SO4

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260B-(BTEX + MTBE)	8270 SIM	TRPH					COMMENTS
9/28	0910	MPT-245-MW05-092806	mw 5			GW		6	3	1	2					Cool to 4°C
	0950	MPT-245-MW09-092806	mw 9													
	1040	MPT-245 MW01 092806	mw 1													
	1135	MPT-245 MW04 092806	mw 4													
	1225	MPT-245 MW08R 092806	mw 8R													
		Trip Blank				QC		2	2							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	9-28-06	1350	1. RECEIVED BY [signature] 9/28/06		1350
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

SAFE WORK PERMIT

MULTI MEDIA SAMPLING AND WELL DEVELOPMENT

NAVAL STATION MAYPORT, FLORIDA

Permit No. _____ Date: _____ Time: From _____ to _____

I. **Work limited to the following (description, area, equipment used):** Multimedia sampling including soils, Groundwater, IDW, and confirmation sampling (at Site 245 and 1585)

II. **Primary Hazards:** Potential hazards associated with this task: contact with site contaminants; transfer of cc heavy lifting; slip, trip and fall; cuts and lacerations; vehicular and foot traffic; ambient temperatureextremes; bites and stings, poisonous plants, inclement weather.

III. **Field Crew:** _____

IV. **On-site Inspection conducted** ☐ Yes ☐ No Initials of Inspector __TtNUS
Equipment Inspection required ☐ Yes ☐ No Initials of Inspector _____TtNUS

V. **Protective equipment required**
Level D ☒ Level B ☐
Level C ☐ Level A ☐

Respiratory equipment required
Yes ☐ Specify on the reverse
No ☒

Modifications/Exceptions: _____

VI. Chemicals of Concern	Hazard Monitoring	Action Level(s)	Response Mea
Fuel oil, Diesel fuel, and Petroleum related Contaminants (VOCs Including BTEX; PAHs)	PID/FID	Sustained readings in worker breathing zone above 25 ppm suppression	Evacuate area u readings subside
	Colorimetric tube analysis using Benzene 0.5/c tube	Any indication of benzene	Evacuate area - the PHSO

Primary Route(s) of Exposure/Hazard: Inhalation, contact and incidental ingestion as a result of hand to activities.

(Note to FOL and/or SSO: Each item in Sections VII, VIII, and IX must be checked Yes, No, or NA)

VII. **Additional Safety Equipment/Procedures**

Hard-hat	☐ Yes	☐ No	Hearing Protection (Plugs/Muffs)	☐ Yes	☐ No
Safety Glasses	☒ Yes	☐ No	Safety Belt/Harness	☐ Yes	☒ No
Chemical/Splash Goggles	☐ Yes	☒ No	Radio/Cellular Phone	☐ Yes	☐ No
Splash Shield	☐ Yes	☒ No	Barricades	☐ Yes	☐ No
Splash Suits/Coveralls	☐ Yes	☐ No	Gloves (Type – Nitrile)	☒ Yes	☐ No
Impermeable Apron	☐ Yes	☒ No	Work/rest regimen	☐ Yes	☐ No
Steel Toe Work Shoes or Boots	☒ Yes	☐ No	Chemical Resistant Boot Covers	☐ Yes	☒ No
High Visibility Vest	☐ Yes	☐ No	Tape/Insect Repellent	☐ Yes	☐ No
First Aid Kit	☐ Yes	☐ No	Fire Extinguisher	☐ Yes	☐ No
Safety Shower/Eyewash	☐ Yes	☐ No	Other	☐ Yes	☐ No

Modifications/Exceptions: _____

VIII. **Site Preparation**

	Yes	No	NA
Utility Locating and Excavation Clearance completed	☐	☐	☐
Vehicle and Foot Traffic Routes Established/Traffic Control Barricades/Signs in Place	☐	☐	☐
Physical Hazards Identified and Isolated (Splash and containment barriers)	☐	☐	☐
Emergency Equipment Staged (Spill control, fire extinguishers, first aid kits, etc)	☐	☐	☐

IX. **Additional Permits required** (Hot work, confined space entry, excavation etc.) ☒ Yes ☐ No
If yes, SSO to complete or contact Health Sciences, Pittsburgh Office (412)921-7090

X. **Special instructions, precautions:** Any sustained PID.FID readings in workers breathing zones will require colorimetric tube (0.5/c) be used to evaluate the presence of benzene. Any indication of benzene within v breathing zones will require site activities to be suspended and the PHSO to be contacted. Use safe lifting/ca techniques. Assume media is contaminated and avoid contact through the use of safe work practices, PPI decontamination.

Permit Issued by: _____ Permit Accepted by: _____

FIGURE 7-1
DOCUMENTATION OF FIELD CALIBRATION

SITE NAME: _____ **PROJECT NO.:** _____

Date of Calibration	Instrument Name and Model	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot Number)	Remarks/ Comments
				Pre-Calibration	Post-Calibration	Pre-Calibration	Post-Calibration		
9-28-06	YSI 556	03L1220AD	DS	pH 4		4.02	4	5110-19	4/07
				pH 7		7.01	7	6123-08	5/07
				Cond 1.409		1.221	1.409	6038-08	2/08
				DO 100%		98	100%	—	
	LaMotte 2020	3675-4002	DS	10		9.8	10	8184-P568485	feb 07

ATTACHMENT D

GROUNDWATER ANALYTICAL REPORT

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville FL, 32216-6069
Phone: 904.296.3007 FAX: 904.296.6210
www.encolabs.com

Monday, October 2, 2006

Tetra Tech NUS (BR006)

Attn: Mark Peterson

8640 Philips Highway Suite 16

Jacksonville, FL 32256

RE: Project Number: 112G00103, Project Name/Desc: CTO 386 Mayport
ENCO Workorder: B608303

Dear Mark Peterson,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, September 28, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chris Tompkins

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 23.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MPT-245-MW05-092806 **Lab ID:** B608303-01

Sampled: 09/28/06 09:10 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06		09/29/06 08:00	9/29/2006 17:54
EPA 8270C	10/05/06	11/08/06	09/29/06 12:43	9/30/2006 00:07
FLPRO	10/05/06	11/08/06	09/29/06 10:27	9/29/2006 20:53

Client ID: MPT-245-MW09-092806 **Lab ID:** B608303-02

Sampled: 09/28/06 09:50 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06		09/29/06 08:00	9/29/2006 18:24
EPA 8270C	10/05/06	11/08/06	09/29/06 12:43	9/30/2006 00:25
FLPRO	10/05/06	11/08/06	09/29/06 10:27	9/29/2006 21:16

Client ID: MPT-245-MW01-092806 **Lab ID:** B608303-03

Sampled: 09/28/06 10:40 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06		09/29/06 08:00	9/29/2006 18:54
EPA 8270C	10/05/06	11/08/06	09/29/06 12:43	9/30/2006 00:43
FLPRO	10/05/06	11/08/06	09/29/06 10:27	9/29/2006 21:38

Client ID: MPT-245-MW04-092806 **Lab ID:** B608303-04

Sampled: 09/28/06 11:35 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06		09/29/06 08:00	9/29/2006 19:24
EPA 8270C	10/05/06	11/08/06	09/29/06 12:43	9/30/2006 01:00
FLPRO	10/05/06	11/08/06	09/29/06 10:27	9/29/2006 22:00

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Client ID: MPT-245-MW08R-092806 **Lab ID:** B608303-05

Sampled: 09/28/06 12:25 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06		09/29/06 08:00	9/29/2006 19:54
EPA 8270C	10/05/06	11/08/06	09/29/06 12:43	9/30/2006 01:18
FLPRO	10/05/06	11/08/06	09/29/06 10:27	9/29/2006 22:23

Client ID: Trip Blank **Lab ID:** B608303-06

Sampled: 09/28/06 00:00 **Received:** 09/28/06 13:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/12/06	09/29/06 08:00	9/29/2006 20:24

SAMPLE DETECTION SUMMARY

Client ID: MPT-245-MW09-092806 **Lab ID:** B608303-02

Analyte	Results/Qual	MRL	Units	Method
Fluorene	0.06 I	0.10	ug/L	EPA 8270C

Client ID: MPT-245-MW01-092806 **Lab ID:** B608303-03

Analyte	Results/Qual	MRL	Units	Method
Acenaphthene	0.22	0.10	ug/L	EPA 8270C
Anthracene	0.19	0.10	ug/L	EPA 8270C
Fluorene	0.49	0.10	ug/L	EPA 8270C
Pyrene	0.07 I	0.10	ug/L	EPA 8270C
TPH (C8-C40)	0.251	0.170	mg/L	FLPRO

Client ID: MPT-245-MW04-092806 **Lab ID:** B608303-04

Analyte	Results/Qual	MRL	Units	Method
1-Methylnaphthalene	0.41	0.10	ug/L	EPA 8270C
Acenaphthene	0.68	0.10	ug/L	EPA 8270C
Ethylbenzene	0.5 I	1.0	ug/L	EPA 8260B
Naphthalene	1.29	0.10	ug/L	EPA 8270C
o-Xylene	0.2 I	1.0	ug/L	EPA 8260B
Pyrene	0.16	0.10	ug/L	EPA 8270C
Toluene	0.3 I	1.0	ug/L	EPA 8260B
TPH (C8-C40)	1.74	0.170	mg/L	FLPRO

Client ID: MPT-245-MW08R-092806 **Lab ID:** B608303-05

Analyte	Results/Qual	MRL	Units	Method
1-Methylnaphthalene	26.8	0.10	ug/L	EPA 8270C
2-Methylnaphthalene	3.04	0.10	ug/L	EPA 8270C
Acenaphthene	1.62	0.10	ug/L	EPA 8270C
Anthracene	0.17	0.10	ug/L	EPA 8270C
Benzene	0.3 I	1.0	ug/L	EPA 8260B
Ethylbenzene	2.8	1.0	ug/L	EPA 8260B
Fluoranthene	0.05 I	0.10	ug/L	EPA 8270C
Fluorene	2.43	0.10	ug/L	EPA 8270C
Naphthalene	26.4	0.10	ug/L	EPA 8270C
Phenanthrene	1.08	0.10	ug/L	EPA 8270C
Pyrene	0.12	0.10	ug/L	EPA 8270C
TPH (C8-C40)	1.19	0.170	mg/L	FLPRO

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW05-092806	Project:	CTO 386 Mayport
Lab #:	B608303-01	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	0.2 U	0.2	1.0	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	0.2 U	0.2	1.0	ug/L
Toluene	108-88-3	0.2 U	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52.0	50.0	104 %	60-130
Dibromofluoromethane	1868-53-7	49.6	50.0	99 %	66-131
Toluene-d8	2037-26-5	51.3	50.0	103 %	67-139

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW05-092806	Project:	CTO 386 Mayport
Lab #:	B608303-01	Work Order #:	B608303
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	09/30/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	0.02 U	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	0.02 U	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	0.02 U	0.02	0.10	ug/L
Benzo(a)anthracene	56-55-3	0.01 U	0.01	0.10	ug/L
Benzo(a)pyrene	50-32-8	0.01 U	0.01	0.10	ug/L
Benzo(b)fluoranthene	205-99-2	0.03 U	0.03	0.10	ug/L
Benzo(g,h,i)perylene	191-24-2	0.03 U	0.03	0.10	ug/L
Benzo(k)fluoranthene	207-08-9	0.02 U	0.02	0.10	ug/L
Chrysene	218-01-9	0.02 U	0.02	0.10	ug/L
Dibenzo(a,h)anthracene	53-70-3	0.02 U	0.02	0.10	ug/L
Fluoranthene	206-44-0	0.01 U	0.01	0.10	ug/L
Fluorene	86-73-7	0.02 U	0.02	0.10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.02 U	0.02	0.10	ug/L
Naphthalene	91-20-3	0.02 U	0.02	0.10	ug/L
Phenanthrene	85-01-8	0.02 U	0.02	0.10	ug/L
Pyrene	129-00-0	0.02 U	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	3.15	5.00	63 %	10-167

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW05-092806	Project:	CTO 386 Mayport
Lab #:	B608303-01	Work Order #:	B608303
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	09/29/06 By: jbh	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I28009		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	0.094 U	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.116	0.100	116 %	22-137
o-Terphenyl	84-15-1	0.0466	0.0499	93 %	33-133

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW09-092806	Project:	CTO 386 Mayport
Lab #:	B608303-02	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	0.2 U	0.2	1.0	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	0.2 U	0.2	1.0	ug/L
Toluene	108-88-3	0.2 U	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	51.5	50.0	103 %	60-130
Dibromofluoromethane	1868-53-7	51.3	50.0	103 %	66-131
Toluene-d8	2037-26-5	51.6	50.0	103 %	67-139

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW09-092806	Project:	CTO 386 Mayport
Lab #:	B608303-02	Work Order #:	B608303
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	09/30/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	0.02 U	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	0.02 U	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	0.02 U	0.02	0.10	ug/L
Benzo(a)anthracene	56-55-3	0.01 U	0.01	0.10	ug/L
Benzo(a)pyrene	50-32-8	0.01 U	0.01	0.10	ug/L
Benzo(b)fluoranthene	205-99-2	0.03 U	0.03	0.10	ug/L
Benzo(g,h,i)perylene	191-24-2	0.03 U	0.03	0.10	ug/L
Benzo(k)fluoranthene	207-08-9	0.02 U	0.02	0.10	ug/L
Chrysene	218-01-9	0.02 U	0.02	0.10	ug/L
Dibenzo(a,h)anthracene	53-70-3	0.02 U	0.02	0.10	ug/L
Fluoranthene	206-44-0	0.01 U	0.01	0.10	ug/L
Fluorene	86-73-7	**0.06** I	0.02	0.10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.02 U	0.02	0.10	ug/L
Naphthalene	91-20-3	0.02 U	0.02	0.10	ug/L
Phenanthrene	85-01-8	0.02 U	0.02	0.10	ug/L
Pyrene	129-00-0	0.02 U	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	4.60	5.00	92 %	10-167

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW09-092806	Project:	CTO 386 Mayport
Lab #:	B608303-02	Work Order #:	B608303
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	09/29/06 By: jbh	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I28009		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	0.094 U	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.110	0.100	110 %	22-137
o-Terphenyl	84-15-1	0.0444	0.0499	89 %	33-133

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW01-092806	Project:	CTO 386 Mayport
Lab #:	B608303-03	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	0.2 U	0.2	1.0	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	0.2 U	0.2	1.0	ug/L
Toluene	108-88-3	0.2 U	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52.4	50.0	105 %	60-130
Dibromofluoromethane	1868-53-7	53.0	50.0	106 %	66-131
Toluene-d8	2037-26-5	51.3	50.0	103 %	67-139

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW01-092806	Project:	CTO 386 Mayport
Lab #:	B608303-03	Work Order #:	B608303
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	09/30/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	0.02 U	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	**0.22**	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	**0.19**	0.02	0.10	ug/L
Benzo(a)anthracene	56-55-3	0.01 U	0.01	0.10	ug/L
Benzo(a)pyrene	50-32-8	0.01 U	0.01	0.10	ug/L
Benzo(b)fluoranthene	205-99-2	0.03 U	0.03	0.10	ug/L
Benzo(g,h,i)perylene	191-24-2	0.03 U	0.03	0.10	ug/L
Benzo(k)fluoranthene	207-08-9	0.02 U	0.02	0.10	ug/L
Chrysene	218-01-9	0.02 U	0.02	0.10	ug/L
Dibenzo(a,h)anthracene	53-70-3	0.02 U	0.02	0.10	ug/L
Fluoranthene	206-44-0	0.01 U	0.01	0.10	ug/L
Fluorene	86-73-7	**0.49**	0.02	0.10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.02 U	0.02	0.10	ug/L
Naphthalene	91-20-3	0.02 U	0.02	0.10	ug/L
Phenanthrene	85-01-8	0.02 U	0.02	0.10	ug/L
Pyrene	129-00-0	**0.07** I	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	3.38	5.00	68 %	10-167

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW01-092806	Project:	CTO 386 Mayport
Lab #:	B608303-03	Work Order #:	B608303
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	09/29/06 By: jbh	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I28009		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	**0.251**	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.111	0.100	111 %	22-137
o-Terphenyl	84-15-1	0.0438	0.0499	88 %	33-133

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW04-092806	Project:	CTO 386 Mayport
Lab #:	B608303-04	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	0.2 U	0.2	1.0	ug/L
Ethylbenzene	100-41-4	**0.5** I	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	**0.2** I	0.2	1.0	ug/L
Toluene	108-88-3	**0.3** I	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	53.1	50.0	106 %	60-130
Dibromofluoromethane	1868-53-7	52.8	50.0	106 %	66-131
Toluene-d8	2037-26-5	50.6	50.0	101 %	67-139

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW04-092806	Project:	CTO 386 Mayport
Lab #:	B608303-04	Work Order #:	B608303
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	09/30/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	**0.41**	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	**0.68**	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	0.02 U	0.02	0.10	ug/L
Benzo(a)anthracene	56-55-3	0.01 U	0.01	0.10	ug/L
Benzo(a)pyrene	50-32-8	0.01 U	0.01	0.10	ug/L
Benzo(b)fluoranthene	205-99-2	0.03 U	0.03	0.10	ug/L
Benzo(g,h,i)perylene	191-24-2	0.03 U	0.03	0.10	ug/L
Benzo(k)fluoranthene	207-08-9	0.02 U	0.02	0.10	ug/L
Chrysene	218-01-9	0.02 U	0.02	0.10	ug/L
Dibenzo(a,h)anthracene	53-70-3	0.02 U	0.02	0.10	ug/L
Fluoranthene	206-44-0	0.01 U	0.01	0.10	ug/L
Fluorene	86-73-7	0.02 U	0.02	0.10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.02 U	0.02	0.10	ug/L
Naphthalene	91-20-3	**1.29**	0.02	0.10	ug/L
Phenanthrene	85-01-8	0.02 U	0.02	0.10	ug/L
Pyrene	129-00-0	**0.16**	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	3.28	5.00	66 %	10-167

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW04-092806	Project:	CTO 386 Mayport
Lab #:	B608303-04	Work Order #:	B608303
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	09/29/06 By: jbh	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I28009		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	**1.74**	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.102	0.100	102 %	22-137
o-Terphenyl	84-15-1	0.0406	0.0499	81 %	33-133

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW08R-092806	Project:	CTO 386 Mayport
Lab #:	B608303-05	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	**0.3** I	0.2	1.0	ug/L
Ethylbenzene	100-41-4	**2.8**	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	0.2 U	0.2	1.0	ug/L
Toluene	108-88-3	0.2 U	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52.6	50.0	105 %	60-130
Dibromofluoromethane	1868-53-7	50.1	50.0	100 %	66-131
Toluene-d8	2037-26-5	51.9	50.0	104 %	67-139

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW08R-092806	Project:	CTO 386 Mayport
Lab #:	B608303-05	Work Order #:	B608303
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	09/30/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	**26.8**	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	**3.04**	0.02	0.10	ug/L
Acenaphthene	83-32-9	**1.62**	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	**0.17**	0.02	0.10	ug/L
Benzo(a)anthracene	56-55-3	0.01 U	0.01	0.10	ug/L
Benzo(a)pyrene	50-32-8	0.01 U	0.01	0.10	ug/L
Benzo(b)fluoranthene	205-99-2	0.03 U	0.03	0.10	ug/L
Benzo(g,h,i)perylene	191-24-2	0.03 U	0.03	0.10	ug/L
Benzo(k)fluoranthene	207-08-9	0.02 U	0.02	0.10	ug/L
Chrysene	218-01-9	0.02 U	0.02	0.10	ug/L
Dibenzo(a,h)anthracene	53-70-3	0.02 U	0.02	0.10	ug/L
Fluoranthene	206-44-0	**0.05** I	0.01	0.10	ug/L
Fluorene	86-73-7	**2.43**	0.02	0.10	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.02 U	0.02	0.10	ug/L
Naphthalene	91-20-3	**26.4**	0.02	0.10	ug/L
Phenanthrene	85-01-8	**1.08**	0.02	0.10	ug/L
Pyrene	129-00-0	**0.12**	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	3.10	5.00	62 %	10-167

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ANALYTICAL REPORT

Sample ID:	MPT-245-MW08R-092806	Project:	CTO 386 Mayport
Lab #:	B608303-05	Work Order #:	B608303
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	09/29/06 By: jbh	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I28009		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	**1.19**	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.114	0.100	114 %	22-137
o-Terphenyl	84-15-1	0.0521	0.0499	104 %	33-133

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ANALYTICAL REPORT

Sample ID:	Trip Blank	Project:	CTO 386 Mayport
Lab #:	B608303-06	Work Order #:	B608303
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	09/29/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6I29012		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	0.2 U	0.2	1.0	ug/L
Ethylbenzene	100-41-4	0.3 U	0.3	1.0	ug/L
m,p-Xylenes	108-38-3/106-42-3	0.3 U	0.3	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.2 U	0.2	1.0	ug/L
o-Xylene	95-47-6	0.2 U	0.2	1.0	ug/L
Toluene	108-88-3	0.2 U	0.2	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	51.0	50.0	102 %	60-130
Dibromofluoromethane	1868-53-7	50.4	50.0	101 %	66-131
Toluene-d8	2037-26-5	51.7	50.0	103 %	67-139

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6I29012 - EPA 5030B_MS										
Blank (6I29012-BLK1)				Prepared: 09/29/2006 08:00 Analyzed: 09/29/2006 11:26						
Methyl-tert-Butyl Ether	0.2 U	1.0	ug/L							
Benzene	0.2 U	1.0	ug/L							
Toluene	0.2 U	1.0	ug/L							
Ethylbenzene	0.3 U	1.0	ug/L							
m,p-Xylenes	0.3 U	2.0	ug/L							
o-Xylene	0.2 U	1.0	ug/L							
LCS (6I29012-BS1)				Prepared: 09/29/2006 08:00 Analyzed: 09/29/2006 11:56						
Benzene	24.0	1.0	ug/L	20.0		120	62-135			
Toluene	23.9	1.0	ug/L	20.0		120	74-126			
Matrix Spike (6I29012-MS1)		**Source: B608415-02**		Prepared: 09/29/2006 08:00 Analyzed: 09/29/2006 12:26						
Benzene	22.4	1.0	ug/L	20.0	0.2 U	112	64-138			
Toluene	22.1	1.0	ug/L	20.0	0.2 U	110	72-124			
Matrix Spike Dup (6I29012-MSD1)		**Source: B608415-02**		Prepared: 09/29/2006 08:00 Analyzed: 09/29/2006 12:56						
Benzene	21.9	1.0	ug/L	20.0	0.2 U	109	64-138	2	22	
Toluene	22.6	1.0	ug/L	20.0	0.2 U	113	72-124	3	24	
Semivolatile Organic Compounds by GCMS SIM - Quality Control										
Batch 6I29001 - EPA 3510C_MS										
Blank (6I29001-BLK1)				Prepared: 09/29/2006 12:43 Analyzed: 09/29/2006 18:51						
Naphthalene	0.02 U	0.10	ug/L							
2-Methylnaphthalene	0.02 U	0.10	ug/L							
1-Methylnaphthalene	0.02 U	0.10	ug/L							
Acenaphthylene	0.01 U	0.10	ug/L							
Acenaphthene	0.02 U	0.10	ug/L							
Benzo(a)anthracene	0.01 U	0.10	ug/L							
Benzo(b)fluoranthene	0.03 U	0.10	ug/L							
Benzo(k)fluoranthene	0.02 U	0.10	ug/L							
Fluorene	0.02 U	0.10	ug/L							
Benzo(g,h,i)perylene	0.03 U	0.10	ug/L							
Benzo(a)pyrene	0.01 U	0.10	ug/L							
Phenanthrene	0.02 U	0.10	ug/L							
Anthracene	0.02 U	0.10	ug/L							
Fluoranthene	0.01 U	0.10	ug/L							
Pyrene	0.02 U	0.10	ug/L							
Chrysene	0.02 U	0.10	ug/L							
Dibenzo(a,h)anthracene	0.02 U	0.10	ug/L							
Indeno(1,2,3-cd)pyrene	0.02 U	0.10	ug/L							
Surrogate: p-Terphenyl	*3.52*		*ug/L*	*5.00*		*70*	*10-167*			
LCS (6I29001-BS1)				Prepared: 09/29/2006 12:43 Analyzed: 09/29/2006 19:09						
Naphthalene	1.13	0.10	ug/L	2.00		56	33-102			
Acenaphthene	1.20	0.10	ug/L	2.00		60	41-104			
Benzo(g,h,i)perylene	1.20	0.10	ug/L	2.00		60	10-159			
Benzo(a)pyrene	1.15	0.10	ug/L	2.00		58	38-125			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Semivolatile Organic Compounds by GCMS SIM - Quality Control										
Batch 6I29001 - EPA 3510C_MS										
LCS (6I29001-BS1) Continued				Prepared: 09/29/2006 12:43 Analyzed: 09/29/2006 19:09						
Surrogate: p-Terphenyl	*3.59*		*ug/L*	*5.00*		*72*	*10-167*			
Matrix Spike (6I29001-MS1)		**Source: B608319-02**		Prepared: 09/29/2006 12:43 Analyzed: 09/29/2006 19:26						
Naphthalene	0.870	0.10	ug/L	2.00	0.02 U	44	32-101			
Acenaphthene	1.08	0.10	ug/L	2.00	0.02 U	54	43-102			
Benzo(g,h,i)perylene	1.22	0.10	ug/L	2.00	0.03 U	61	10-173			
Benzo(a)pyrene	1.15	0.10	ug/L	2.00	0.01 U	58	37-127			
Surrogate: p-Terphenyl	*3.66*		*ug/L*	*5.00*		*73*	*10-167*			
Matrix Spike Dup (6I29001-MSD1)		**Source: B608319-02**		Prepared: 09/29/2006 12:43 Analyzed: 09/29/2006 19:44						
Naphthalene	1.10	0.10	ug/L	2.00	0.02 U	55	32-101	23	28	
Acenaphthene	1.14	0.10	ug/L	2.00	0.02 U	57	43-102	5	22	
Benzo(g,h,i)perylene	1.17	0.10	ug/L	2.00	0.03 U	58	10-173	4	35	
Benzo(a)pyrene	1.15	0.10	ug/L	2.00	0.01 U	58	37-127	0	19	
Surrogate: p-Terphenyl	*3.56*		*ug/L*	*5.00*		*71*	*10-167*			
FL Petroleum Range Organics - Quality Control										
Batch 6I28009 - EPA 3510C										
Blank (6I28009-BLK1)				Prepared: 09/28/2006 12:27 Analyzed: 09/28/2006 15:15						
TPH (C8-C40)	0.094 U	0.170	mg/L							
Surrogate: n-Nonatriacontane	*0.00193*		*mg/L*	*0.100*		*2*	*22-137*			S-GC
Surrogate: o-Terphenyl	*0.0525*		*mg/L*	*0.0499*		*105*	*33-133*			
LCS (6I28009-BS1)				Prepared: 09/28/2006 12:27 Analyzed: 09/28/2006 15:37						
TPH (C8-C40)	1.20	0.170	mg/L				46-126			
Surrogate: n-Nonatriacontane	*0.0221*		*mg/L*	*0.100*		*22*	*22-137*			
Surrogate: o-Terphenyl	*0.0473*		*mg/L*	*0.0499*		*95*	*33-133*			
Matrix Spike (6I28009-MS1)		**Source: B608319-02**		Prepared: 09/28/2006 12:27 Analyzed: 09/28/2006 15:59						
TPH (C8-C40)	1.19	0.170	mg/L		0.094 U		48-118			
Surrogate: n-Nonatriacontane	*0.0306*		*mg/L*	*0.100*		*31*	*22-137*			
Surrogate: o-Terphenyl	*0.0429*		*mg/L*	*0.0499*		*86*	*33-133*			
Matrix Spike Dup (6I28009-MSD1)		**Source: B608319-02**		Prepared: 09/28/2006 12:27 Analyzed: 09/28/2006 16:21						
TPH (C8-C40)	1.31	0.170	mg/L		0.094 U		48-118	10	30	
Surrogate: n-Nonatriacontane	*0.0414*		*mg/L*	*0.100*		*41*	*22-137*			
Surrogate: o-Terphenyl	*0.0501*		*mg/L*	*0.0499*		*100*	*33-133*			

NOTES AND DEFINITIONS

I	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Arom	Water	NELAC	E82277
8270C PAH SIM	Water	NELAC	E82277
FLPRO	Water	NELAC	E82277

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 3344 | PAGE 1 OF 1

PROJECT NO: 112G00103	FACILITY: Mayport	PROJECT MANAGER M. Peterson	PHONE NUMBER 904-636-6125
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER D. Siefken	PHONE NUMBER 904-334-7260
		CARRIER/WAYBILL NUMBER Drop off	

LABORATORY NAME AND CONTACT: ENCO / Chris

ADDRESS: 4810 Executive Park Ct.

CITY, STATE: Jacksonville, FL 32216

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

B608303

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	8260B - (BTEX + MTBE)	8270 SIM	TRPH	COMMENTS
								CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	
								PRESERVATIVE USED	HCL		H_2SO_4	
9/28	0910	MPT-245-MW05-092806	MW 5			GW		6	3	1	2	Cool to 4°C
	0950	MPT-245-MW09-092806	MW 9									
	1040	MPT-245-MW01-092806	MW 1									
	1135	MPT-245-MW04-092806	MW 4									
	1225	MPT-245-MW08R-092806	MW 8R									
		Trip Blank				QC		2	2			

1. RELINQUISHED BY	DATE 9-28-06	TIME 1350	1. RECEIVED BY	DATE 9/28/06	TIME 1350
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

The total number of pages in this report, including this page is 1.