N60201.AR.000866
NS MAYPORT
5090.3a

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

5/17/2007

TETRA TECH NUS

TETRA TECH NUS, INC.
8640 Philips Highway, Suite 16 • Jacksonville, FL 32256
Tel 904.636.6125 • Fax 904.636.6165 • www.tetratech.com

Document Tracking Number 07JAX0025

May 17, 2007

Project Number 112G00103

Commander, Southeast
Naval Facilities Engineering Command
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: Fourth Quarter 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 fourth quarter Groundwater Monitoring Letter Report. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under Contract Task Order (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 fourth quarter groundwater sampling event for 2006.

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 presented 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 east of an electrical switch room located on the northern side of Building 245. 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 feet and 6 feet below land surface (bls). A replacement UST was installed in a new location soon after the removal approximately 20 feet 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 foot to 3 feet bls based on OVA soil headspace screening.
- Laboratory analysis of soil collected from 4 feet to 6 feet bls exceeded the FDEP Soil Cleanup Target Level (SCTL) for Florida Petroleum Range Organics (FL-PRO).
- Laboratory analysis of groundwater from one of five monitoring wells contained exceedances to the FDEP Groundwater Cleanup Target Levels (GCTLs) for benzene, naphthalene, and lead.
- Depth to groundwater is approximately 3.5 feet to 6.0 feet 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 30, 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 foot to 0.3 foot.
- The presence of excessively impacted soils in the vadose zone at depths of 1 to 3 feet bls was not confirmed.
- No lead exceedances of GCTLs.

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

On July 13, 2004, the 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 Third Quarter Monitoring Report, dated September 2003, are provided as Attachment B. These summary tables span a period of time from June 1997 to June 2003.

SAMPLING PROCEDURES AND METHODS

On December 12, 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 monitoring plan. It should be noted the MW-7 and MW-6 are part of the monitoring plan, 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 December 12, 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 December 12, 2006, a TtNUS representative collected groundwater for laboratory analysis. 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.

FOURTH QUARTER CONCLUSIONS AND RECOMMENDATIONS

Based on the most recent monitoring, none of the identified petroleum constituents exceeded FDEP GCTLs. Some contaminant levels in MW-1 have increased slightly since the third quarter, but are still below FDEP 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. Based on these recommendations following monitoring wells are to be sampled: MW-01, MW-04, MW-05, and MW-08SR and MW-09.
- The 2007 first quarter sampling event should take place before March 31, 2007.

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

MP/weh

Attachments (6)

c: Mr. Jim Cason, FDEP (2 copies)
Ms. Diane Racine, NAVSTA Mayport
Mr. Mike Halil, CH2M Hill (cd only)
Mr. Craig Benedikt, USEPA (cd only)
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 Fourth 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.

May 17, 2007
Mark A. Peterson, P.G.
Florida License Number PG-0001852

TABLES

TABLE 1
TOP OF CASING SURVEY DATA AND DEPTH-TO-GROUNDWATER MEASUREMENTS
FOURTH QUARTER GROUNDWATER MONITORING LETTER REPORT, 2006
BUILDING 245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

Monitoring Well	TOC (ft)	Depth-to-Groundwater (ft)	Feet Above Mean Sea Level
245-MW01	11.57	7.46	4.11
245-MW02	10.27	6.10	4.17
245-MW03	10.15	5.90	4.25
245-MW04	10.31	6.11	4.2
245-MW05	9.76	5.53	4.23
245-MW06	9.15	NM	--
245-MW07	12.48	NM	--
245-MW08R	10.07	6.12	3.95
245-MW09	NS	8.06	--

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.

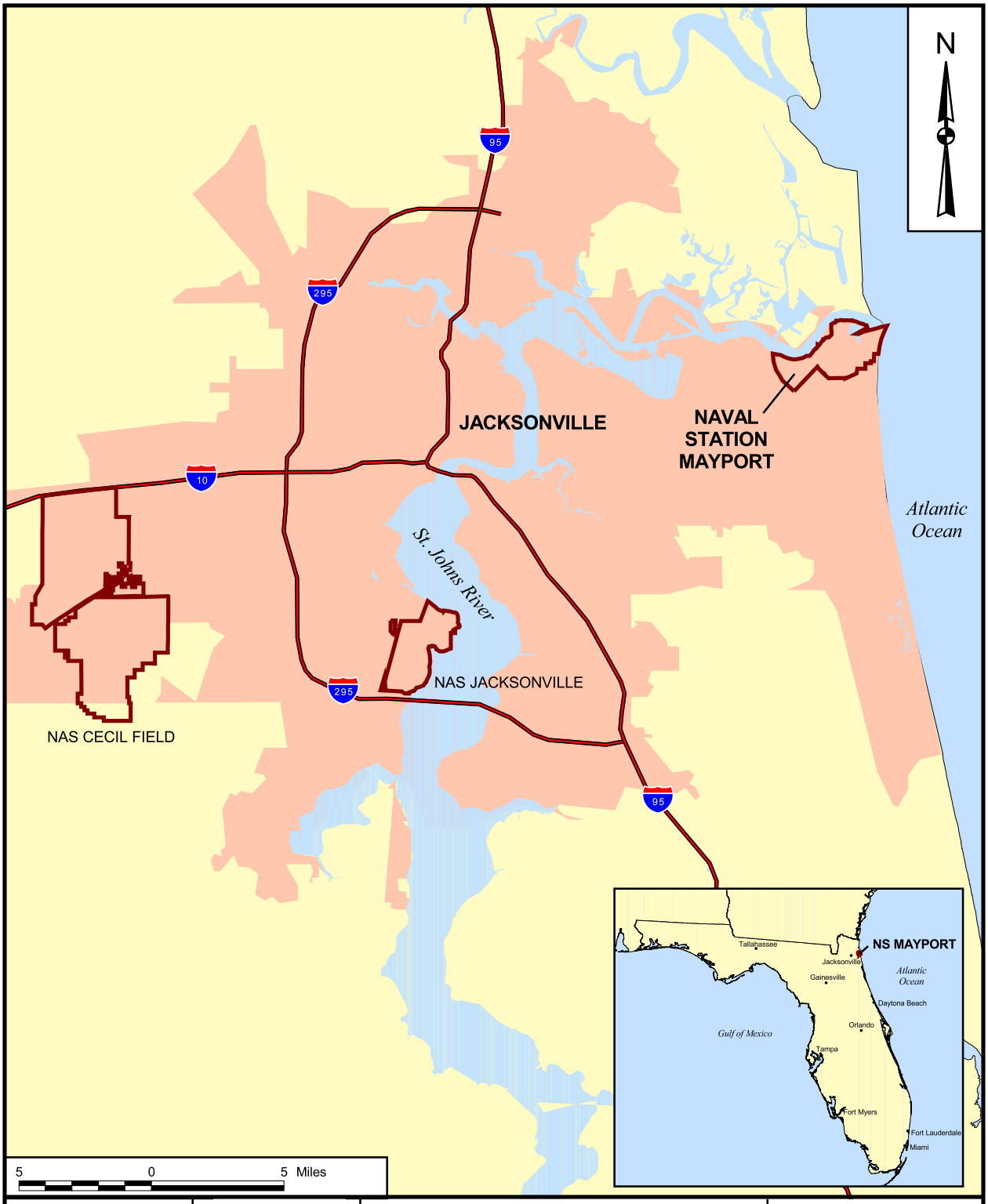
TABLE 2
SUMMARY OF LABORATORY GROUNDWATER ANALYTICAL DETECTIONS
FOURTH QUARTER GROUNDWATER MONITORING LETTER REPORT, 2006
BUILDING 245
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

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	12/12/2006	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/15/2006	6/1/2006	9/28/2006	12/12/2006
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	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	0.32 J	1.7	0.3 U	0.3 U	0.37 J	0.3 U	0.5 J	0.3 U	0.3 U	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	0.2 U	0.3 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
XYLENES, TOTAL	20	0.2 U	0.8 J	0.5 U	0.3 I	0.5 U	0.5 U	0.5 J	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	**47.4 J**	52	0.02 U	0.05 I	3.97 J	0.71	0.41	0.06 I	0.02 U	0.02 U	0.02 U	0.02 U
2-METHYLNAPHTHALENE	28	**32.0 J**	14.3	0.02 U	0.02 U	1.52 J	0.62	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	2.04	3.32	0.22	1.05	0.52	0.24	0.68	0.2	0.02 U	0.02 U	0.02 U	0.02 U
ANTHRACENE	2100	0.22	0.43	0.19	0.33	0.02 U	0.02 U	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	0.01 U	0.54	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U
FLUORENE	280		4.6	0.49	2.13		0.29	0.02 U	0.17		0.02 U	0.02 U	0.02 U
NAPHTHALENE	14	**53.4 J**	**34.8**	0.02 U	0.15	5.87 J	0.86	1.29	0.07 I	0.02 U	0.02 U	0.02 U	0.02 U
PHENANTHRENE	210		2.38	0.02 U	0.02 U		0.11	0.02 U	0.02 U		0.02 U	0.02 U	0.02 U
PYRENE	210	0.10	0.23	0.07 J	0.15	0.02 U	0.02 U	0.16	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)													
TPH (C08-C40)	5	**9.13**	**13.4**	0.25	0.765	0.61	0.09 U	1.74	0.094 U	0.09 U	0.09 U	0.09 U	0.094 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	12/12/2006	2/15/2006	6/1/2006	9/28/2006	12/12/2006
BENZENE	1	0.35 J	0.2 J	0.3 J	0.2 I	0.2 U	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	7.53	1.9	2.8	3.4	0.3 U	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	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	0.5 U	0.5 U
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	3.23 J	11.8	26.8	9.81	0.02 U	0.02 U	0.02 U	0.02 U
2-METHYLNAPHTHALENE	28	0.64 J	4.45	3.04	5.23	0.02 U	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	0.47	0.95	1.62	0.87	0.02 U	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	0.02 U	0.02 U
FLUORANTHENE	280	0.47	0.05 J	0.05 J	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U
FLUORENE	280		1.27	2.43	1.53		0.02 U	0.06 J	0.02 U
NAPHTHALENE	14	5.03 J	7.55	**26.4**	11.9	0.02 U	0.02 U	0.02 U	0.02 U
PHENANTHRENE	210		0.83	1.08	0.53		0.02 U	0.02 U	0.02 U
PYRENE	210	0.02 U	0.08 J	0.12	0.08 I	0.02 U	0.02 U	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	0.10	1.18	1.19	0.763	0.09 U	0.09 U	0.09 U	0.094 U

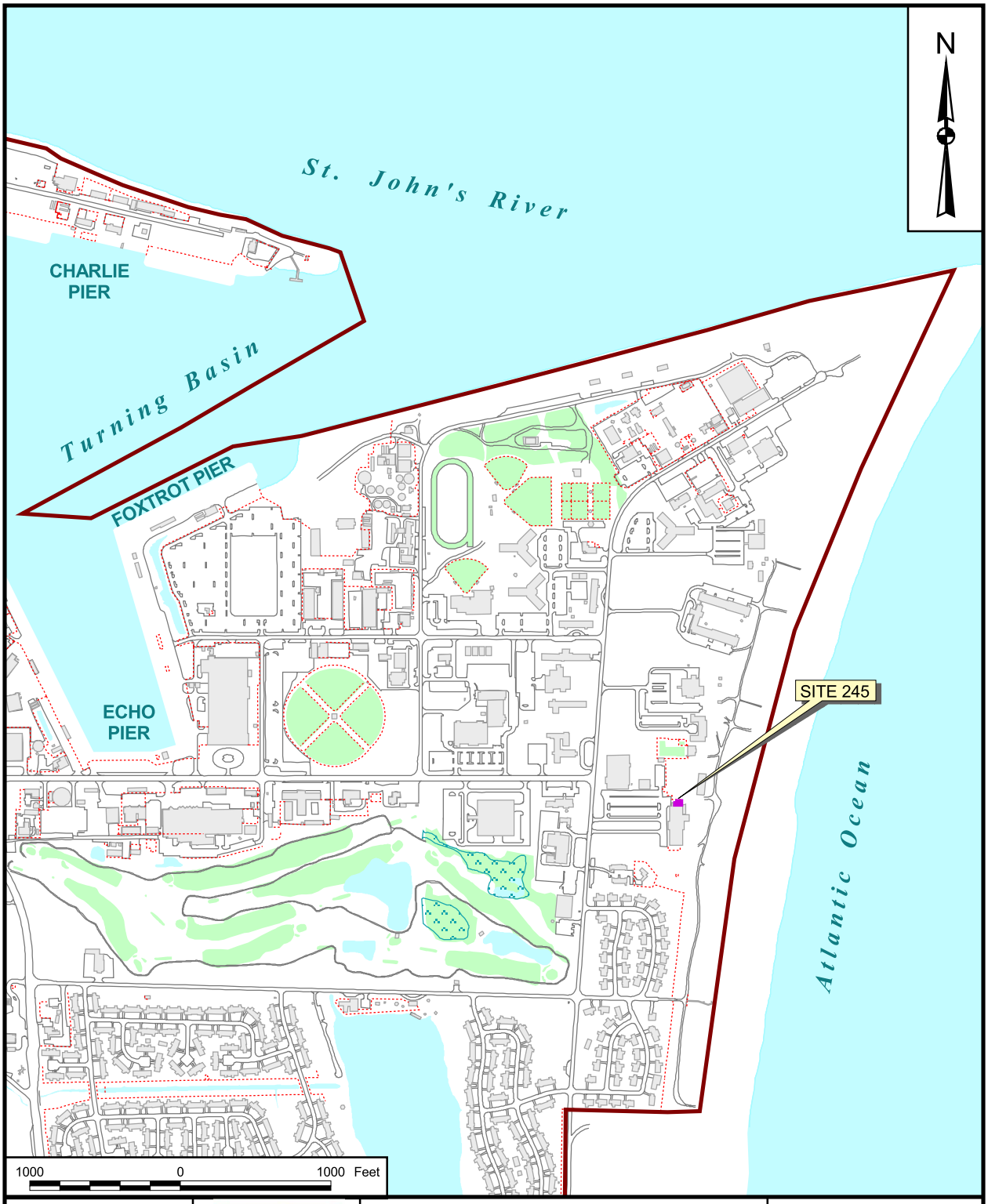
Notes:
[1] GCTL Level as defined by Chapter 62-777, Table I, FAC (as amended 4/17/05).
I = detected but below the reporting limit; therefore, result is an estimated concentration
J = estimated value
U = less than laboratory method detection limit.
SIM = Select Ion Method
Bold font indicates a GCTL was 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

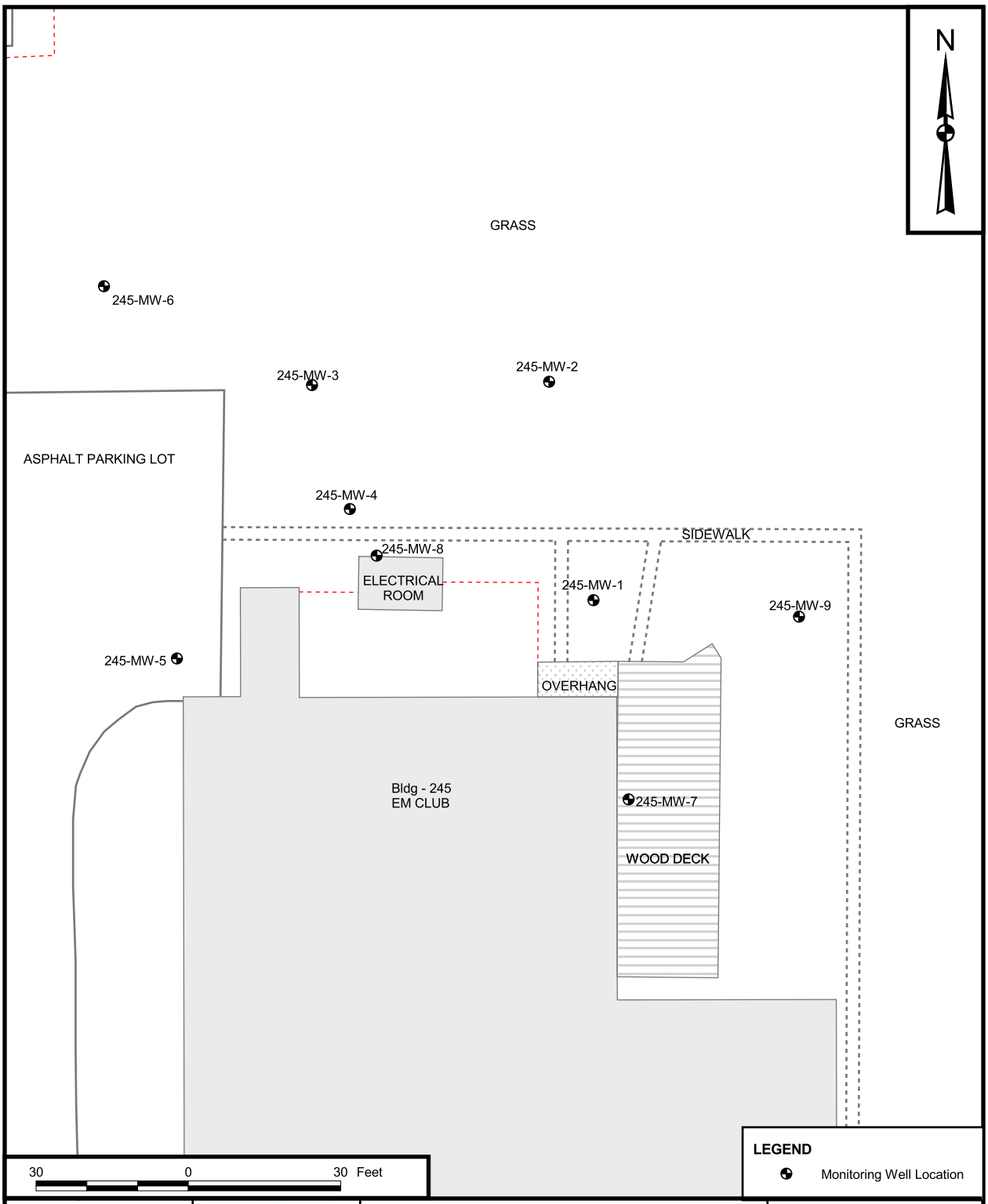
P:\GIS\MAYPORT_NS\MAPDOCS\APR\STATEMENT_BASIS.APR REGIONAL AREA 5/11/06 SS



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

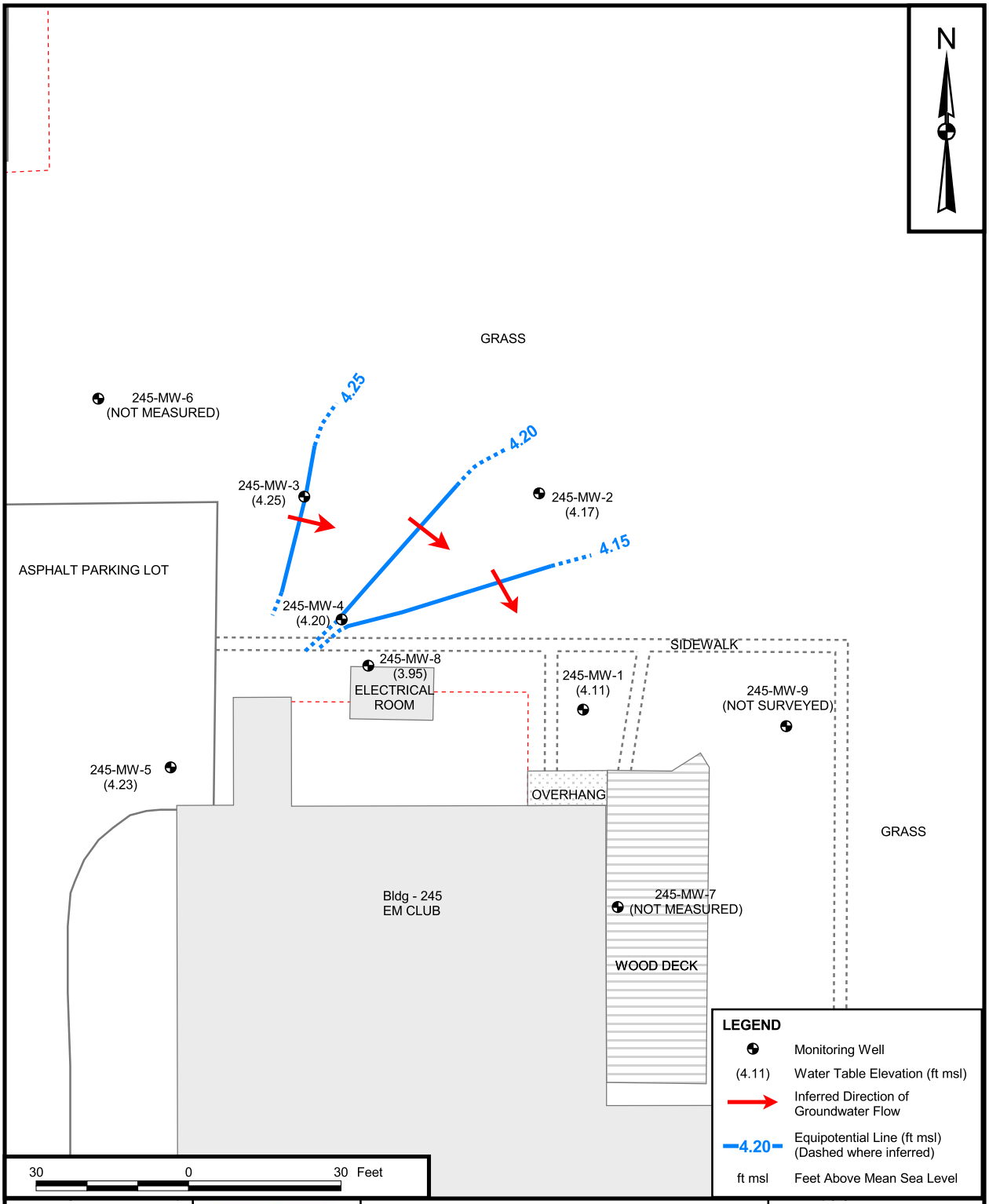
NAVFAC

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, 12/21/06 SITE 245 NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER CTO 00103
CHECKED BY T. COTTENOIR	DATE 4/05/07		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 4/05/07 SP

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, Inc.

DOCUMENTATION OF FIELD CALIBRATION

PROJECT NAME : [redacted]

INSTRUMENT NAME/MODEL:

SITE NAME:

MANUFACTURER:

PROJECT No.:

SERIAL NUMBER:

Date of Calibration	Instrument Name and Model	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
				Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
12-12-06	YSI 556	06E8905	WH		pH 4	3.83	4.00		
					pH7	6.93	7.00		
					Cond1.409	1.324	1.409		
					DO %	98.6	100.0		
					ORP	NA	NA		
	La Motte 2020				1				
					10				

CTO 386

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: B. 245		SITE LOCATION: NS Mayport	
WELL NO: MW-5	SAMPLE ID: MPT-245-MW5-121206		DATE: 12-12-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 5.53	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 5.53 feet) X 0.16 gallons/foot = 1.2 x 3 = 6.15 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.0	PURGING INITIATED AT: 0906	PURGING ENDED AT: 0930	TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0921	4.5	4.5	250	5.56	7.48	24.03	0.478	0.15	2.3	Clear	none
0927	0.75	5.25	250	5.56	7.50	24.02	0.478	0.14	1.8		
0930	0.75	6.0	250	5.56	7.51	24.03	0.478	0.14	1.1		

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: Wes Harden / T+NAS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0932	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 6	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW5	1	AG	1L	NP	–	–	PAHs	APP
MW5	2	AG	1L	H_2SO_4	–	<2	TRPH	APP
MW5	3	CG	40mL	HCl		<2	BTEX MTBE	SM

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: 5.245		SITE LOCATION: NS Mayport	
WELL NO: MW-1	SAMPLE ID: MPT-245-GW-MW4-121206		DATE: 12-12-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 6.11	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 6.11 feet) X 0.16 gallons/foot = 1.1 ~~x3.78 gallons~~ 4.2 L

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1000	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (~~gpm~~ mL)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle ~~mg/L~~ or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1009	1.5	1.5	500	6.19	6.99	24.60	0.432	0.23	2.4	clear	none
1012	1.5	6.0	500	6.19	7.04	24.62	0.437	0.25	1.7	"	"
1015	1.5	7.5	500	6.19	7.10	24.65	0.436	0.15	1.5	"	"

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: Wes Harden / T&NWS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1017	SAMPLING ENDED AT: 1027
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
AG MW5	1	AG	1L	NP	–	–	PAH	APP
AG MW5	2	AG	1L	H_2SO_4	–	<2	FL-PRO	APP
CG MW5	3	CG	40mL	HCl	–	<2	BTEX+MTBE	SM

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 6.245	SITE LOCATION: NS Mayport
WELL NO: MW8R	SAMPLE ID: MPT-245-GW-MW8R-121206 DATE: 12-12-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 6.12	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.13 feet – 6.12 feet) X 0.16 gallons/foot = 1.1 x 3.78 = 4.2 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1032	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1041	4.5	4.5	500	6.18	7.00	24.30	0.689	0.17	6.1	clear	none
1044	1.5	6.0	500	6.18	7.01	24.26	0.692	0.16	5.5	"	"
1047	1.5	7.5	500	6.18	7.03	24.25	0.696	0.15	4.9	"	"

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: Wes Harden / T+NAS	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1049	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW8R	1	AG	1L	ND	–	–	PAH	APP
MW8R	2	AG	1L	H_2SO_4	–	<2	FL-PRO	APP
MW8R	3	CG	40mL	HCl	–	<2	BTEX+MTBE	SM

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: b. 245	SITE LOCATION: NS Mayport	
WELL NO: MW-1	SAMPLE ID: MPT-245-GW-MW1-121206	DATE: 12-12-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 7.46	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13 feet – 7.46 feet) X 0.16 gallons/foot = 0.89 x 3.78 = 3.4 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	PURGING INITIATED AT: 1112	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE mL/(gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1119	3.5	3.5	500	7.50	7.09	24.50	0.766	0.14	11.7	clear	none
1122	1.5	5.0	500	7.50	7.11	24.48	0.768	0.12	10.1	clear	none
1125	1.5	6.5	500	7.50	7.14	24.53	0.771	0.13	8.7	clear	none

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Wes Harden / T+NUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): 7.75	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW1	1	AG	1L	NP	–	–	PAHs	APP
MW1	2	AG	1L	H_2SO_4	–	<2	FL-PRO	APP
MW1	3	CG	40mL	HCl	–	<2	TRPH	SM

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: b. 245	SITE LOCATION: NS Mayport
WELL NO: MW4	SAMPLE ID: MPT-245-GW-MW4-121206 / DATE: 12-12-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 8.06	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~18~~ 13 feet – 8.06 feet) X ~~0.30~~ 0.06 gallons/foot = 0.30 x 3.38 = 1.12 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 1228	PURGING ENDED AT: 1241	TOTAL VOLUME PURGED (gallons): 3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1235	1.75	1.75	250	8.20	7.26	23.55	0.515	0.30	12.7	clear	none
1238	0.75	2.5	250	8.20	7.23	23.52	0.519	0.31	9.1	"	"
1241	0.75	3.25	250	8.20	7.22	23.56	0.526	0.23	7.8	"	"

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: Wes Harden / T+N	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: 1320
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW4	4	AG	1L	NP	–	–	PAHs	APP
MW4	2	AG	1L	H_2SO_4	–	<2	FL-PRO	APP
MW4	3	CG	40mL	HCl	–	<2	BTEX+MTBE	SM

REMARKS: MS/MSD collected

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Tetra Tech NUS	Project Number: 112G00103
Address: 8640 Philips Hwy Ste. 16	Project Name/Desc: Bldg 2415
City/ST/Zip: Jax, FL 32256	PO # / Billing Info:
Tel: 904-636-6125 Fax: 904-636-6165	Reporting Contact: David Siefkin
Sampler(s) Name, Affiliation (Print): Wes Harden / TT+NUS	Billing Contact:
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

☒ Standard

___ Expedited

Due ___/___/___

Lab Workorder

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	FL-PRO	PAH (8270 SIM)	8260B (BTEX + MTBE)								Sample Comments
	MPT-2415-GW-MW5-121206	12-12-06	0932	G	GW	6	2	1	3								MS/MSD
	MPT-2415-GW-MW4-121206	12-12-06	1017	G	GW	6	2	1	3								collected
	MPT-2415-GW-MW8R-121206	12-12-06	1049	G	GW	6	2	1	3								from MW-9
	MPT-2415-GW-MW1-121206	12-12-06	1127	G	GW	6	2	1	3								
	MPT-2415-GW-MW9-121206	12-12-06	1213	G	GW	24	8	4	12								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	12-12-06 1520		
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By [signature]	Date/Time 12-12-06 15[illegible]
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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

Wednesday, December 20, 2006

Tetra Tech NUS (BR006)

Attn: Mr. Dave Siefken

8640 Philips Highway Suite 16

Jacksonville, FL 32256

RE: Project Number: 112G00103, Project Name/Desc: CTO 386- Site 245
ENCO Workorder: B610228

Dear Mr. Dave Siefken,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, December 12, 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 24.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MPT-245-GW-MW5-121206 **Lab ID:** B610228-01

Sampled: 12/12/06 09:32 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06		12/13/06 09:00	12/13/2006 23:50
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/15/2006 14:07
FLPRO	12/19/06	01/23/07	12/14/06 11:07	12/15/2006 22:30

Client ID: MPT-245-GW-MW4-121206 **Lab ID:** B610228-02

Sampled: 12/12/06 10:17 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06		12/13/06 09:00	12/14/2006 00:21
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/15/2006 14:24
FLPRO	12/19/06	01/23/07	12/14/06 11:07	12/15/2006 22:52

Client ID: MPT-245-GW-MW8R-121206 **Lab ID:** B610228-03

Sampled: 12/12/06 10:49 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06		12/13/06 09:00	12/14/2006 00:51
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/15/2006 14:42
FLPRO	12/19/06	01/23/07	12/14/06 11:07	12/15/2006 23:15

Client ID: MPT-245-GW-MW1-121206 **Lab ID:** B610228-04

Sampled: 12/12/06 11:27 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06		12/13/06 09:00	12/14/2006 01:22
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/15/2006 14:59
FLPRO	12/19/06	01/23/07	12/14/06 11:07	12/15/2006 23:38

Client ID: MPT-245-GW-MW1-121206 **Lab ID:** B610228-04RE1

Sampled: 12/12/06 11:27 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/19/2006 22:56

www.encolabs.com

Client ID: MPT-245-GW-MW9-121206 (MS/MSD) **Lab ID:** B610228-05

Sampled: 12/12/06 12:43 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06		12/13/06 09:00	12/13/2006 22:48
EPA 8270C	12/19/06	01/23/07	12/14/06 10:55	12/14/2006 20:21
FLPRO	12/19/06	01/23/07	12/14/06 11:07	12/15/2006 22:08

Client ID: Trip Blank **Lab ID:** B610228-06

Sampled: 12/12/06 00:00 **Received:** 12/12/06 15:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/26/06	12/13/06 09:00	12/13/2006 23:19

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: MPT-245-GW-MW4-121206 **Lab ID:** B610228-02

Analyte	Results/Qual	MRL	Units	Method
1-Methylnaphthalene	0.06 I	0.10	ug/L	EPA 8270C
Acenaphthene	0.20	0.10	ug/L	EPA 8270C
Fluorene	0.17	0.10	ug/L	EPA 8270C
Naphthalene	0.07 I	0.10	ug/L	EPA 8270C

Client ID: MPT-245-GW-MW8R-121206 **Lab ID:** B610228-03

Analyte	Results/Qual	MRL	Units	Method
1-Methylnaphthalene	9.81	0.10	ug/L	EPA 8270C
2-Methylnaphthalene	5.23	0.10	ug/L	EPA 8270C
Acenaphthene	0.87	0.10	ug/L	EPA 8270C
Benzene	0.2 I	1.0	ug/L	EPA 8260B
Ethylbenzene	3.4	1.0	ug/L	EPA 8260B
Fluorene	1.53	0.10	ug/L	EPA 8270C
Naphthalene	11.9	0.10	ug/L	EPA 8270C
Phenanthrene	0.53	0.10	ug/L	EPA 8270C
Pyrene	0.08 I	0.10	ug/L	EPA 8270C
TPH (C8-C40)	0.763	0.170	mg/L	FLPRO

Client ID: MPT-245-GW-MW1-121206 **Lab ID:** B610228-04

Analyte	Results/Qual	MRL	Units	Method
1-Methylnaphthalene	0.05 I	0.10	ug/L	EPA 8270C
Acenaphthene	1.05	0.10	ug/L	EPA 8270C
Anthracene	0.33	0.10	ug/L	EPA 8270C
Fluorene	2.13	0.10	ug/L	EPA 8270C
Naphthalene	0.15	0.10	ug/L	EPA 8270C
o-Xylene	0.3 I	1.0	ug/L	EPA 8260B
TPH (C8-C40)	0.765	0.170	mg/L	FLPRO

Client ID: MPT-245-GW-MW1-121206 **Lab ID:** B610228-04RE1

Analyte	Results/Qual	MRL	Units	Method
Pyrene	0.15	0.10	ug/L	EPA 8270C

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW5-121206	Project:	CTO 386- Site 245
Lab #:	B610228-01	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/13/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

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	42.0	50.0	84 %	60-130
Dibromofluoromethane	1868-53-7	47.5	50.0	95 %	66-131
Toluene-d8	2037-26-5	47.1	50.0	94 %	67-139

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW5-121206	Project:	CTO 386- Site 245
Lab #:	B610228-01	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

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	5.28	5.00	106 %	34-134

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW5-121206	Project:	CTO 386- Site 245
Lab #:	B610228-01	Work Order #:	B610228
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj/	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14002		

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	0.123	0.100	123 %	22-137
o-Terphenyl	84-15-1	0.0529	0.0500	106 %	33-133

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW4-121206	Project:	CTO 386- Site 245
Lab #:	B610228-02	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/14/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

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	42.7	50.0	85 %	60-130
Dibromofluoromethane	1868-53-7	45.2	50.0	90 %	66-131
Toluene-d8	2037-26-5	47.2	50.0	94 %	67-139

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW4-121206	Project:	CTO 386- Site 245
Lab #:	B610228-02	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	**0.06** I	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	**0.20**	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	**0.17**	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	**0.07** I	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	5.30	5.00	106 %	34-134

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW4-121206	Project:	CTO 386- Site 245
Lab #:	B610228-02	Work Order #:	B610228
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj/	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14002		

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	0.123	0.100	123 %	22-137
o-Terphenyl	84-15-1	0.0559	0.0500	112 %	33-133

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW8R-121206	Project:	CTO 386- Site 245
Lab #:	B610228-03	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/14/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Benzene	71-43-2	**0.2** 1	0.2	1.0	ug/L
Ethylbenzene	100-41-4	**3.4**	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	40.9	50.0	82 %	60-130
Dibromofluoromethane	1868-53-7	45.7	50.0	91 %	66-131
Toluene-d8	2037-26-5	46.5	50.0	93 %	67-139

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW8R-121206	Project:	CTO 386- Site 245
Lab #:	B610228-03	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	**9.81**	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	**5.23**	0.02	0.10	ug/L
Acenaphthene	83-32-9	**0.87**	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	**1.53**	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	**11.9**	0.02	0.10	ug/L
Phenanthrene	85-01-8	**0.53**	0.02	0.10	ug/L
Pyrene	129-00-0	**0.08** I	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	5.24	5.00	105 %	34-134

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW8R-121206	Project:	CTO 386- Site 245
Lab #:	B610228-03	Work Order #:	B610228
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj/	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14002		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	**0.763**	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.121	0.100	121 %	22-137
o-Terphenyl	84-15-1	0.0546	0.0500	109 %	33-133

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW1-121206	Project:	CTO 386- Site 245
Lab #:	B610228-04	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/14/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

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	**0.3** I	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	43.3	50.0	87 %	60-130
Dibromofluoromethane	1868-53-7	47.0	50.0	94 %	66-131
Toluene-d8	2037-26-5	46.8	50.0	94 %	67-139

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW1-121206	Project:	CTO 386- Site 245
Lab #:	B610228-04	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1-Methylnaphthalene	90-12-0	**0.05 1**	0.02	0.10	ug/L
2-Methylnaphthalene	91-57-6	0.02 U	0.02	0.10	ug/L
Acenaphthene	83-32-9	**1.05**	0.02	0.10	ug/L
Acenaphthylene	208-96-8	0.01 U	0.01	0.10	ug/L
Anthracene	120-12-7	**0.33**	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	**2.13**	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	**0.15**	0.02	0.10	ug/L
Phenanthrene	85-01-8	0.02 U	0.02	0.10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
p-Terphenyl	92-94-4	4.98	5.00	100 %	34-134

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW1-121206	Project:	CTO 386- Site 245
Lab #:	B610228-04	Work Order #:	B610228
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj/	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14002		

FL Petroleum Range Organics

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
TPH (C8-C40)	NA	**0.765**	0.094	0.170	mg/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
n-Nonatriacontane	7194-86-7	0.118	0.100	118 %	22-137
o-Terphenyl	84-15-1	0.0535	0.0500	107 %	33-133

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW1-121206	Project:	CTO 386- Site 245
Lab #:	B610228-04RE1	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/19/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

Semivolatile Organic Compounds by GCMS SIM

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Pyrene	129-00-0	**0.15**	0.02	0.10	ug/L

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW9-121206 (MS/MSD)	Project:	CTO 386- Site 245
Lab #:	B610228-05	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/13/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

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	41.9	50.0	84 %	60-130
Dibromofluoromethane	1868-53-7	44.5	50.0	89 %	66-131
Toluene-d8	2037-26-5	47.4	50.0	95 %	67-139

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW9-121206 (MS/MSD)	Project:	CTO 386- Site 245
Lab #:	B610228-05	Work Order #:	B610228
Prep. Method:	EPA 3510C_MS	Matrix:	Ground Water
Analyzed:	12/14/06 By: jj	Unit:	ug/L
Anal. Method:	EPA 8270C	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14001		

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	4.98	5.00	100 %	34-134

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	MPT-245-GW-MW9-121206 (MS/MSD)	Project:	CTO 386- Site 245
Lab #:	B610228-05	Work Order #:	B610228
Prep. Method:	EPA 3510C	Matrix:	Ground Water
Analyzed:	12/15/06 By: jj/	Unit:	mg/L
Anal. Method:	FLPRO	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14002		

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	0.123	0.100	123 %	22-137
o-Terphenyl	84-15-1	0.0535	0.0500	107 %	33-133

www.encolabs.com

ANALYTICAL REPORT

Sample ID:	Trip Blank	Project:	CTO 386- Site 245
Lab #:	B610228-06	Work Order #:	B610228
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/13/06 By: ds	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L14023		

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	41.8	50.0	84 %	60-130
Dibromofluoromethane	1868-53-7	47.0	50.0	94 %	66-131
Toluene-d8	2037-26-5	47.4	50.0	95 %	67-139

www.encolabs.com

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 6L14023 - EPA 5030B_MS										
Blank (6L14023-BLK1)				Prepared: 12/13/2006 09:00 Analyzed: 12/13/2006 15:08						
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							
Blank (6L14023-BLK2)				Prepared: 12/13/2006 09:00 Analyzed: 12/14/2006 04:26						
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 (6L14023-BS1)				Prepared: 12/13/2006 09:00 Analyzed: 12/13/2006 20:45						
Benzene	21.2	1.0	ug/L	20.0		106	80-120			
Toluene	22.9	1.0	ug/L	20.0		114	75-120			
Matrix Spike (6L14023-MS1)		**Source: B610228-05**		Prepared: 12/13/2006 09:00 Analyzed: 12/13/2006 21:16						
Benzene	21.2	1.0	ug/L	20.0	0.2 U	106	80-120			
Toluene	23.5	1.0	ug/L	20.0	0.2 U	117	75-120			
Matrix Spike Dup (6L14023-MSD1)		**Source: B610228-05**		Prepared: 12/13/2006 09:00 Analyzed: 12/13/2006 21:47						
Benzene	22.9	1.0	ug/L	20.0	0.2 U	114	80-120	7	22	
Toluene	26.1 QM-07	1.0	ug/L	20.0	0.2 U	130	75-120	10	24	QM-07
Semivolatile Organic Compounds by GCMS SIM - Quality Control										
Batch 6L14001 - EPA 3510C_MS										
Blank (6L14001-BLK1)				Prepared: 12/14/2006 10:55 Analyzed: 12/14/2006 19:11						
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							

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 6L14001 - EPA 3510C_MS										
Blank (6L14001-BLK1) Continued				Prepared: 12/14/2006 10:55 Analyzed: 12/14/2006 19:11						
Surrogate: p-Terphenyl	*5.39*		*ug/L*	*5.00*		*108*	*34-134*			
LCS (6L14001-BS1)				Prepared: 12/14/2006 10:55 Analyzed: 12/14/2006 19:29						
Naphthalene	1.53	0.10	ug/L	2.00		76	40-100			
Acenaphthene	1.43	0.10	ug/L	2.00		72	45-110			
Benzo(g,h,i)perylene	1.61	0.10	ug/L	2.00		80	40-125			
Benzo(a)pyrene	1.54	0.10	ug/L	2.00		77	55-110			
Surrogate: p-Terphenyl	*5.34*		*ug/L*	*5.00*		*107*	*34-134*			
Matrix Spike (6L14001-MS1)		**Source: B610228-05**		Prepared: 12/14/2006 10:55 Analyzed: 12/14/2006 19:46						
Naphthalene	1.57	0.10	ug/L	2.00	0.02 U	78	40-100			
Acenaphthene	1.50	0.10	ug/L	2.00	0.02 U	75	45-110			
Benzo(g,h,i)perylene	1.65	0.10	ug/L	2.00	0.03 U	82	40-125			
Benzo(a)pyrene	1.63	0.10	ug/L	2.00	0.01 U	82	55-110			
Surrogate: p-Terphenyl	*5.35*		*ug/L*	*5.00*		*107*	*34-134*			
Matrix Spike Dup (6L14001-MSD1)		**Source: B610228-05**		Prepared: 12/14/2006 10:55 Analyzed: 12/14/2006 20:04						
Naphthalene	1.53	0.10	ug/L	2.00	0.02 U	76	40-100	3	27	
Acenaphthene	1.45	0.10	ug/L	2.00	0.02 U	72	45-110	3	23	
Benzo(g,h,i)perylene	1.66	0.10	ug/L	2.00	0.03 U	83	40-125	0.6	27	
Benzo(a)pyrene	1.60	0.10	ug/L	2.00	0.01 U	80	55-110	2	23	
Surrogate: p-Terphenyl	*5.32*		*ug/L*	*5.00*		*106*	*34-134*			
FL Petroleum Range Organics - Quality Control										
Batch 6L14002 - EPA 3510C										
Blank (6L14002-BLK1)				Prepared: 12/14/2006 11:07 Analyzed: 12/14/2006 17:07						
TPH (C8-C40)	0.094 U	0.170	mg/L							
LCS (6L14002-BS1)				Prepared: 12/14/2006 11:07 Analyzed: 12/14/2006 17:30						
TPH (C8-C40)	1.63	0.170	mg/L	1.70		96	46-126			
Matrix Spike (6L14002-MS1)		**Source: B610228-05**		Prepared: 12/14/2006 11:07 Analyzed: 12/14/2006 17:52						
TPH (C8-C40)	1.40	0.170	mg/L	1.70	0.094 U	82	48-118			
Matrix Spike Dup (6L14002-MSD1)		**Source: B610228-05**		Prepared: 12/14/2006 11:07 Analyzed: 12/14/2006 18:14						
TPH (C8-C40)	1.39	0.170	mg/L	1.70	0.094 U	82	48-118	0.4	30	

NOTES AND DEFINITIONS

I	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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