

N60201.AR.002850  
NS MAYPORT  
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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REVIEW OF SITE  
REHABILITATION COMPLETION REPORT ADDENDUM BUILDING 245 NS MAYPORT FL  
6/28/2012  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

June 28, 2012

Naval Facilities Engineering Command Southeast  
Attn: Mr. Brian Syme (OPC6), Remedial Project Manager  
135 Ajax Street North, Building 903  
Naval Air Station Jacksonville  
Jacksonville, Florida 32212-0030

**RE: Site Rehabilitation Completion Report Addendum, Site 245, Naval Station  
Mayport, Facility ID# 16-8626008, USEPA ID #FL9 170 024 260, Mayport,  
Florida (Tetra Tech NUS, Inc., December 7, 2011)**

Dear Mr. Syme:

I have reviewed the subject document which was dated December 7, 2011 and was received on December 8, 2011. This report was prepared under Task Order Number 0078. Based upon my review, the enclosed Site Rehabilitation Completion Order was signed by Mr. Doug Jones, Chief, Bureau of Waste Cleanup.

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

Sincerely,

John Winters, P.G.  
Remedial Project Manager  
Federal Programs Section

KAW

cc Tim Bahr, FDEP, Tallahassee



# Florida Department of Environmental Protection

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2600 Blair Stone Road  
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June 27, 2012

Department of the Navy  
Naval Facilities Engineering Command Southeast  
Attn: Mr. Brian Syme (OPC6), Remedial Project Manager  
135 Ajax Street North, Building 903  
Naval Air Station Jacksonville  
Jacksonville, Florida 32212-0030

Subject: Site Rehabilitation Completion Order  
Site 245  
Naval Station Mayport  
Jacksonville, Duval County  
Operating and Corrective Action Permit No. 72442-HO-004  
Facility ID# 16-8626008

Dear Mr. Syme:

The Bureau of Waste Cleanup has reviewed the Final Site Rehabilitation Completion Report (SRCR) Addendum and No Further Action (NFA) Proposal dated December 2011 (received December 8, 2011), submitted by Tetra Tech NUS, Incorporated. Maps showing the location of Naval Station Mayport and Site 245 for which this Order is being issued are enclosed as Exhibits 1 and 2 and are incorporated by reference.

The site known as Building 245 is the community center building housing various businesses. In April 1995, MEI Environmental Services of Dunn Loring, Virginia removed UST Number 245 and the associated piping. G. B. Robbins Inc. of Jacksonville, Florida prepared the July 1995 Tank Closure Assessment Report (TCAR). Soil impacts were recorded in soil head space samples. No contaminated soils were excavated. The initial assessment of UST 245 was completed by Bhate Environmental Associates, Inc. (BEA), of Birmingham, Alabama. This assessment produced a Contamination Assessment Report (CAR) dated February 1998. Based on findings from the CAR it was shown that soil located at Site 245 was impacted with TRPH above Department soil

cleanup target levels (SCTLs) and site groundwater was impacted with benzene and naphthalene above Department groundwater cleanup target levels (GCTLs). Also, free product was observed in a monitoring well during the Site Assessment Report (SAR) Addendum activities which were completed in May 2002. An interim source removal action using aggressive fluid vapor recovery (AFVR) was used to remove an estimated 125 gallons of free product from this monitoring well. Based on soil analytical results and groundwater analytical results from samples collected following the interim source removal action, it has been shown that Site 245 meets the NFA criteria as stated in Rule 62-770.680, Florida Administrative Code (F.A.C.). The NFA proposal is supported by previous submittals prepared pursuant to the referenced permit, including, but not limited to:

1. United States Army Corps of Engineers, March 2004. Soil Investigation Addendum for Site 245, Naval Station Mayport, Jacksonville, Florida.
2. Tetra Tech, July 2007. First Quarter Groundwater Monitoring Report and Site Rehabilitation Completion Report for Site 245, Naval Station Mayport, Jacksonville, Florida.
3. Tetra Tech, December 2011. Final Site Rehabilitation Completion Report Addendum for Site 245, Naval Station Mayport, Jacksonville, Florida.

Based on the documentation submitted in the SRCR/NFA Proposal and the above referenced documents, the Department has reasonable assurance that Naval Station Mayport has met the criteria in Chapters 62-730 and 62-770, F.A.C. and has met the terms of the Permit. The submittals indicate that soil and groundwater contaminant concentrations are below the applicable SCTLs and Maximum Concentration Limits or GCTLs as adopted in Chapter 62-777, F.A.C. (Effective date April 17, 2005). Therefore, Naval Station Mayport has satisfied the site rehabilitation requirements for Site 245 and is released from any further obligation to conduct site rehabilitation at the site, except as set forth below. Exhibit 3, incorporated by reference, provides information regarding the contaminants, affected media, and applicable cleanup target levels for the contaminated site that is the subject of this Order.

Failure to meet the following requirement will result in the revocation of this Order:

- (a) Except for those wells that may be required for the investigation of adjacent sites or that are otherwise required for compliance with Chapter 62-761, F.A.C., Naval Station Mayport is required to properly abandon all monitoring wells within 60 days of receipt of this Order or an alternative time frame approved by the Department. The monitoring wells must be plugged and abandoned in accordance with the requirements of Rule 62-532.500(5), F.A.C.

Further, in accordance with Chapter 376.30701(4), Florida Statutes (F.S.), upon completion of site rehabilitation, additional site rehabilitation is not required unless it is demonstrated that:

- (a) Fraud was committed in demonstrating site conditions or completion of site rehabilitation;
- (b) New information confirms the existence of an area of previously unknown contamination which exceeds the site-specific rehabilitation levels established in accordance with Section 376.30701(2), F.S., or which otherwise poses the threat of real and substantial harm to public health, safety, or the environment;
- (c) A new discharge of pollutants or hazardous substances occurs at the site subsequent to the issuance of this Order associated with the original contamination being addressed pursuant to Section 376.30701, F.S.

#### Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., within **21** days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

- A. If you choose to accept the Department's decision regarding this SRCO, you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.
- B. If you choose to challenge the decision, you may do the following:

Mr. Brian Syme  
Naval Station Mayport, Site 245  
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June 27, 2012

1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing; or
2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

#### How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the Brian Syme/Naval Station Mayport, shall mail a copy of the request to Brian Syme/Naval Station Mayport at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

#### How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the Brian Syme/Naval Station Mayport, shall mail a copy of the petition to Brian Syme/Naval Station Mayport at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

- a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the site owner's name and address, if different from the petitioner; the DEP facility number; and the name and address of the facility;
- b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
- c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

#### Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Mr. Brian Syme  
Naval Station Mayport, Site 245  
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June 27, 2012

Questions

Any questions regarding the Department's review of your SRCR/NFA Proposal should be directed to John Winters at (850) 245-8999, or [John.Winters@dep.state.fl.us](mailto:John.Winters@dep.state.fl.us). Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,



Douglas A. Jones, Chief  
Bureau of Waste Cleanup  
Division of Waste Management

DAJ/jdw

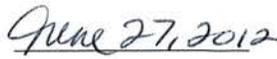
Enclosures (Exhibits 1, 2, and 3)

cc: Tim Bahr, FDEP, Tallahassee  
File

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to  
§120.52 Florida Statutes, with the  
designated Department Clerk, receipt  
of which is hereby acknowledged.



Clerk  
(or Deputy Clerk)



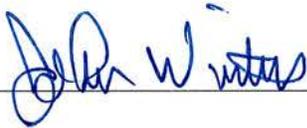
Date

Mr. Brian Syme  
Naval Station Mayport, Site 245  
Page 7  
June 27, 2012

Professional Geologist Certification

Site Rehabilitation Completion Report Addendum  
Site 245 (Building 245)  
Naval Station Mayport

I hereby certify that in my professional judgment, the components of this Site Rehabilitation Completion Report Addendum for Site 245 (Building 245), U.S. Naval Station Mayport, Jacksonville, Florida, satisfies the requirements set forth in Chapter 62-770.680(1), Florida Administrative Code, and that the geological interpretations in this report provides reasonable assurances of achieving the Assessment (as applicable) objectives stated in Chapter 62-770, F.A.C. I personally completed this review.



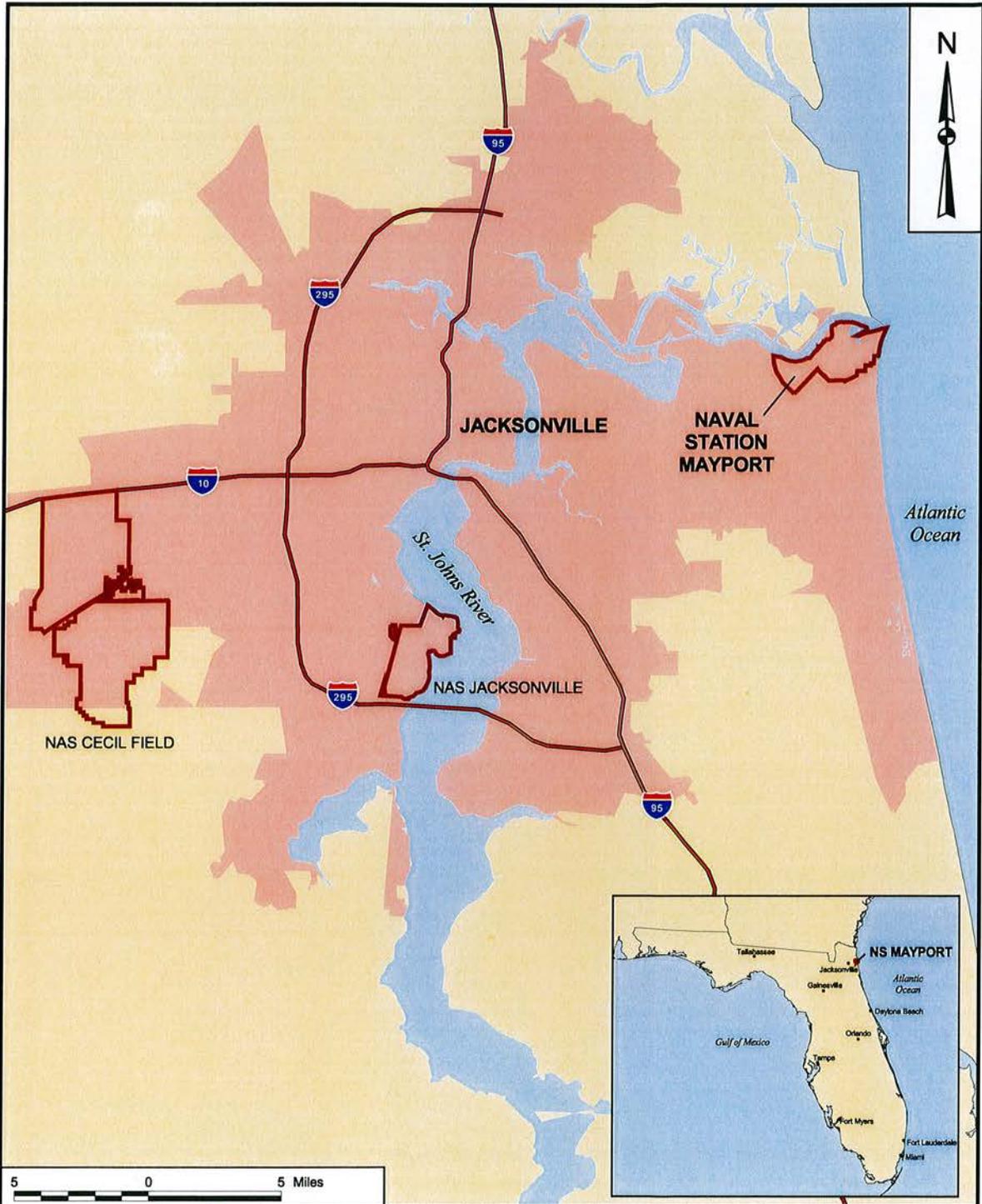
John Winters, P.G.  
Professional Geologist No. PG2481  
Remedial Project Manager  
Florida Department of Environmental Protection  
Federal Programs Section



JUNE 13, 2012

Date

**EXHIBITS 1 and 2**

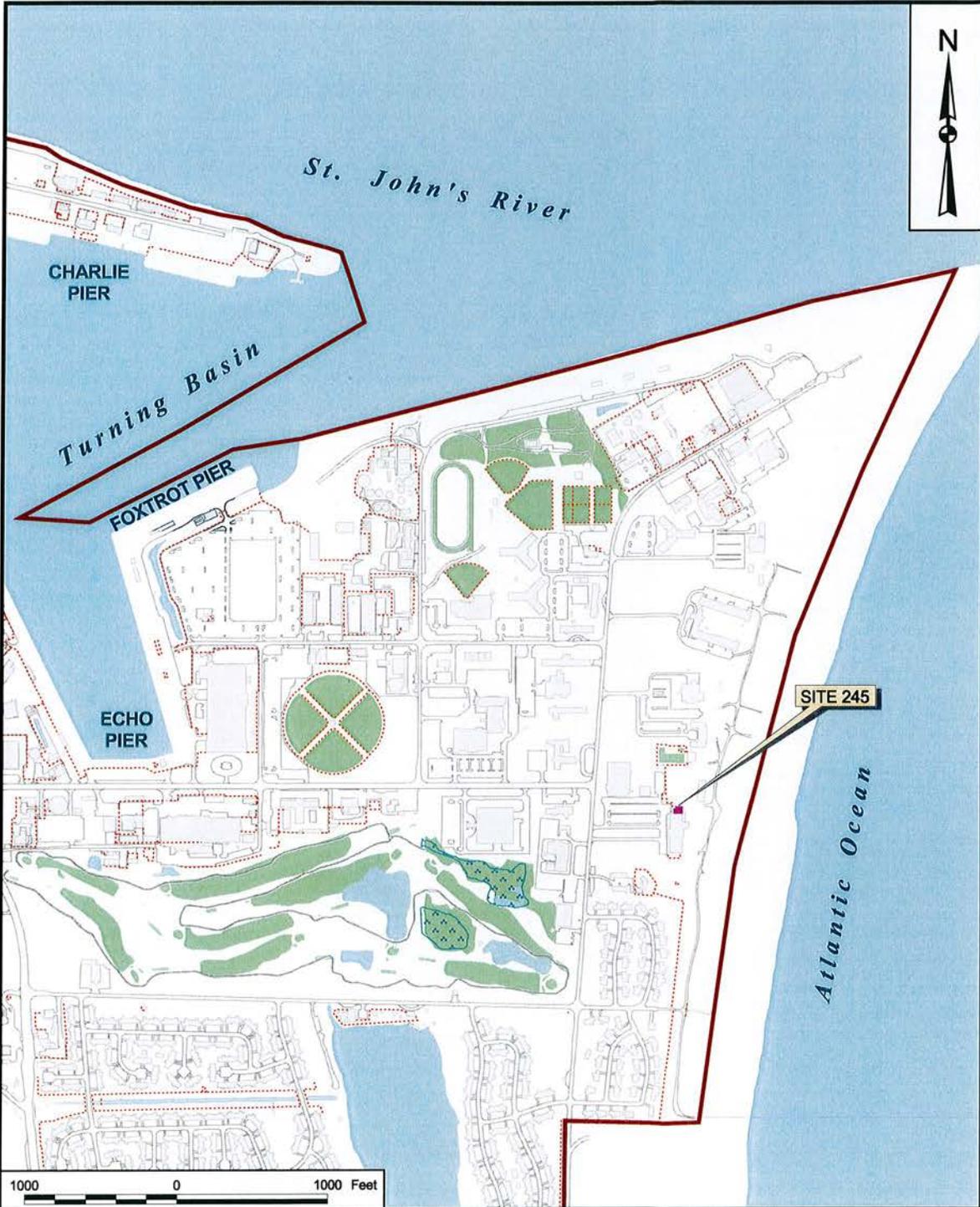


DRAWN BY K. PEILA	DATE 4/17/06
CHECKED BY D. SIEFKEN	DATE 1/11/10
COST/SCHEDULE-AREA	
SCALE AS NOTED	



REGIONAL AREA MAP  
NAVAL STATION MAYPORT  
JACKSONVILLE, FLORIDA

CONTRACT NUMBER 00758	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV 0



DRAWN BY	DATE
K. PEILA	4/17/06
CHECKED BY	DATE
D. SIEFKEN	1/11/10
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	



**SITE LOCATION MAP**  
**SITE 245**  
**NAVAL STATION MAYPORT**  
**JACKSONVILLE, FLORIDA**

CONTRACT NUMBER	
00758	
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
DRAWING NO.	REV
FIGURE 2	0

P:\GIS\MAYPORT\_NS\MAPDOCS\APR\STATEMENT\_BASIS.APR SITE 245 SITE LOCATION 4/17/06 KMP

## **EXHIBIT 3**



DER Form #	17-751 800(8)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Find in or, DER)

# Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type  
Complete All Applicable Blanks

- Date: 7/11/95
- DER Facility ID Number: 168626008
- County: DUVAL
- Facility Name: NAVAL STATION MAYPORT
- Facility Owner: DEPARTMENT OF NAVY
- Facility Address: NAVAL STATION MAYPORT, MAYPORT, FL 32228-0067
- Mailing Address: --SAME--
- Telephone Number: (904) 270-6730
- Facility Operator: U. S. GOVERNMENT
- Are the Storage Tank(s): (Circle one or both) A Aboveground or (B) Underground
- Type of Product(s) Stored: FUEL OIL - HEAT
- Were the Tank(s): (Circle one) (A) Replaced B. Removed C Closed in Place D Upgraded (aboveground tanks only)
- Number of Tanks Closed: 1: # 245
- Age of Tanks: 33 YEARS

## Facility Assessment Information

Yes No Not Applicable

- |                                     |                                     |                                     |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     | 1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     | 2. Was a Discharge Reporting Form submitted to the Department?<br>If yes, When: <u>4/27/95</u> Where: <u>A.C. Carrolls Office / City of Jacksonville DRES</u>   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 3. Is the depth to ground water less than 20 feet?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 4. Are monitoring wells present around the storage system?<br>If yes, specify type: <input type="checkbox"/> Water monitoring <input type="checkbox"/> Vapor monitoring   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. Is there free product present in the monitoring wells or within the excavation?  |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input type="checkbox"/> Soil sample(s)                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input checked="" type="checkbox"/> Soil sample(s) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels?<br>(See target levels on reverse side of this form and supply laboratory data sheets)                                 |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 10. Are any potable wells located within 1/4 of a mile radius of the facility?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 11. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance <u>650'</u>   |

DER Form	17-761.900(6)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Filed in by DER)

A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.

If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.

Amount of soils removed and receipt of proper disposal.

If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.

A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

*Robert P. Walden*

ROBERT P. WALDEN, LCDR, CEC, USN

Signature of Owner

AUG 2 1995

Date

*ENCTW*

Signature of Person Performing Assessment

7/11/95

Date

aldine B. Robbins, President, G. B. Robbins, Inc.

Title of Person Performing Assessment

### State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

For gasoline (EPA Method 602):

- a. Benzene 1 ug/l
- b. Total VOA 50 ug/l
  - Benzene
  - Toluene
  - Total Xylenes
  - Ethylbenzene
- c. Methyl Tert-Butyl Ether (MTBE) 50 ug/l

2. For kerosene/diesel (EPA Method 610):

- a. Polynuclear Aromatic Hydrocarbons (PAHS)  
(Best achievable detection limit, 10 ug/l maximum)

## Site 245 Historical Depth to Water Measurements

Date / TOC (ft)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8 /MW-8R	MW-9
6/10/1997 (1)	5.15	3.82	3.68	3.32	3.84	NI	NI	NI	NP
7/24/1997 (1)	6.00	4.12	4.45	4.61	4.13	NI	NI	NI	NP
2/16/1999 (1)	5.82	4.52	4.33	4.51	3.94	3.46	6.75	4.27	NP
7/1/1999 (1)	6.65	5.26	5.08	5.25	4.67	4.04	7.57	5.4	NP
7/31/2001 (1)	6.30	4.93	4.72	4.90	4.30	3.48	7.18	4.74 *	NP
8/1/2001 (0800) (1)	6.24	4.85	4.63	4.82	4.23	3.68	7.17	4.72*	NP
8/1/2001 (1200) (1)	6.25	4.87	4.66	4.84	4.25	3.68	7.18	NM	NP
8/1/2001 (1600) (1)	6.25	4.88	4.66	4.86	4.22	3.70	7.18	NM	NP
10/6/2002 (2)	4.91	NM	NM	3.53	2.90	2.31	5.82	3.54*	NP
2/24/2003 (2)	6.34	NM	NM	4.96	4.40	3.70	7.19	4.79	NP
6/9/2003 (2)	6.34	NM	NM	4.89	4.30	3.71	7.20	4.95	NP
2/13/2006 (3)	6.67	5.28	5.05	5.24	4.63	NM	NM	5.28	7.39
6/1/2006 (3)	7.32	6.02	5.82	6.01	5.45	NM	NM	6.05	8.02
9/28/2006 (3)	6.73	5.34	5.14	5.33	4.76	NM	NM	5.31	7.42
12/12/2006 (3)	7.46	6.10	5.90	6.11	5.53	NM	NM	6.12	8.06
2/14/2007 (3)	7.10	5.79	5.57	5.68	5.10	NM	NM	5.72	7.7

NI= Not installed

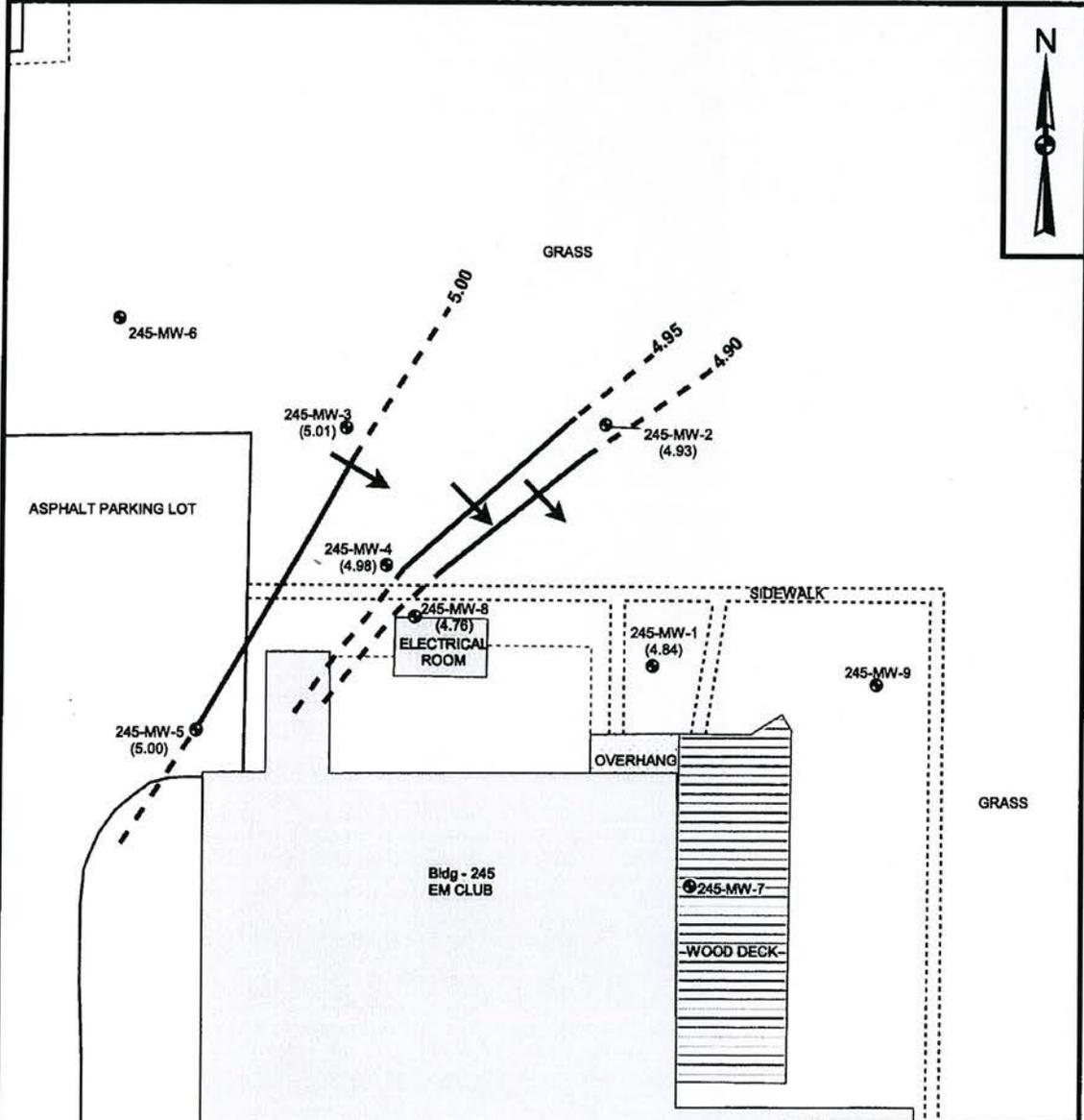
NM =Not measured

\* = Free product present

Historical GW data from obtained from (1) Ellis Environmental Grup , LC Site 245 Final SAR addendum (2) Army Corps of Engineers Groundwater Monitoring Reports and (3),Tetra Tech NUS Groundwater Monitoring Reports.

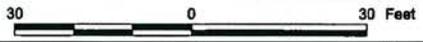
NP = Not present

All measurements measured from north side of well top of casing (TOC).



**LEGEND**

- Monitoring Well
- (5.00) Water Table Elevation (ft msl)
- Inferred Direction of Groundwater Flow
- 4.95- Equipotential Line (ft msl) (Dashed where Inferred)
- ft msl Feet Above Mean Sea Level



DRAWN BY K. PEILA	DATE 4/17/06
CHECKED BY D. SIEFKEN	DATE 11/17/06
COST/SCHEDULE-AREA	
SCALE AS NOTED	



GROUNDWATER ELEVATION CONTOUR MAP, 09/28/06  
 SITE 245  
 MAYPORT NAVAL STATION  
 MAYPORT, FLORIDA

CONTRACT NUMBER CTO 00103	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 4	REV 0

**TABLE 2**  
**SUMMARY OF LABORATORY GROUNDWATER ANALYTICAL DETECTIONS**  
**FIRST QUARTER GROUNDWATER MONITORING LETTER REPORT, 2007**  
**BUILDING 245**  
**NAVAL STATION MAYPORT**  
**MAYPORT, FLORIDA**

PAGE 1 OF 4

Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW01							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	22	4.33	2	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	NA	NA	0.87	0.32 J	1.7	0.3 U	0.3 U	0.3 U
TOLUENE	40	NA	NA	1.0 U	0.2 U	0.5 J	0.2 U	0.2 U	0.3 I
XYLENES, TOTAL	20	NA	NA	3.0 U	0.2 U	0.8 J	0.5 U	0.3 I	0.3 U
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	1.0 U	6.3	26	47.4 J	52	0.02 U	0.05 I	0.07 I
2-METHYLNAPHTHALENE	28	1.0 U	4.9	18	32.0 J	14.3	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	1.0 U	0.41	1.3	2.04	3.32	0.22	1.05	0.36
ANTHRACENE	2100	1.0 U	0.20 U	0.20 U	0.22	0.43	0.19	0.33	0.02 U
FLUORANTHENE	280	1.0 U	0.20 U	0.20 U	0.01 U	0.1	0.01 U	0.01 U	0.01 U
FLUORENE	280	1.0 U	0.64	1.6	2.51	4.6	0.49	2.13	0.71
NAPHTHALENE	14	1.0 U	7.9	26	53.4 J	34.8	0.02 U	0.15	0.33
PHENANTHRENE	210	1.0 U	0.25	0.88	1.07	2.38	0.02 U	0.02 U	0.02 U
PYRENE	210	1.0 U	0.20 U	0.20 U	0.10	0.23	0.07 J	0.15	0.02 U
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	1.7 U	1.7	3.9 B	9.13	13.4	0.25	0.765	0.378

Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW04							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	NA	NA	NA	0.37 J	0.3 U	0.5 J	0.3 U	0.3 U
TOLUENE	40	NA	NA	NA	0.2 U	0.2 U	0.3 J	0.2 U	0.4 I
XYLENES, TOTAL	20	NA	NA	NA	0.5 U	0.5 U	0.5 J	0.5 U	0.6 I
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	1.0 U	3.9	5.9	3.97 J	0.71	0.41	0.06 I	0.33
2-METHYLNAPHTHALENE	28	1.0 U	1.5	3.1	1.52 J	0.62	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	1.0 U	0.57	0.62	0.52	0.24	0.68	0.2	0.23
ANTHRACENE	2100	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
FLUORANTHENE	280	1.0 U	0.20 U	0.20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
FLUORENE	280	1.0 U	0.9	0.9	0.54	0.29	0.02 U	0.17	0.09 I
NAPHTHALENE	14	1.2	3.7	5.4	5.87 J	0.86	1.29	0.07 I	0.24
PHENANTHRENE	210	1.0 U	0.2	0.29	0.17	0.11	0.02 U	0.02 U	0.02 U
PYRENE	210	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.16	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	6.5	1.7 U	2.1 B	0.61	0.09 U	1.74	0.094 U	0.195

See notes at end of table

**TABLE 2**  
**SUMMARY OF LABORATORY GROUNDWATER ANALYTICAL DETECTIONS**  
**FIRST QUARTER GROUNDWATER MONITORING LETTER REPORT, 2007**  
**BUILDING 245**  
**NAVAL STATION MAYPORT**  
**MAYPORT, FLORIDA**

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Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW05							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ETHYLBENZENE	30	NA	NA	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TOLUENE	40	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
XYLENES, TOTAL	20	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.4 I
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ACENAPHTHENE	20	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ANTHRACENE	2100	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
FLUORANTHENE	280	1.0 U	0.20 U	0.20 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
FLUORENE	280	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NAPHTHALENE	14	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
PHENANTHRENE	210	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
PYRENE	210	1.0 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	1.7 U	1.7 U	0.78 JB	0.09 U	0.09 U	0.09 U	0.094 U	0.094 U

Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW06							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	30	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	40	NA	NA	NA	NA	NA	NA	NA	NA
XYLENES, TOTAL	20	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
ACENAPHTHENE	20	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
ANTHRACENE	2100	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
FLUORANTHENE	280	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
FLUORENE	280	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
NAPHTHALENE	14	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
PHENANTHRENE	210	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
PYRENE	210	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	1.7 U	1.7 U	1.7 JB	NA	NA	NA	NA	NA

See notes at end of table

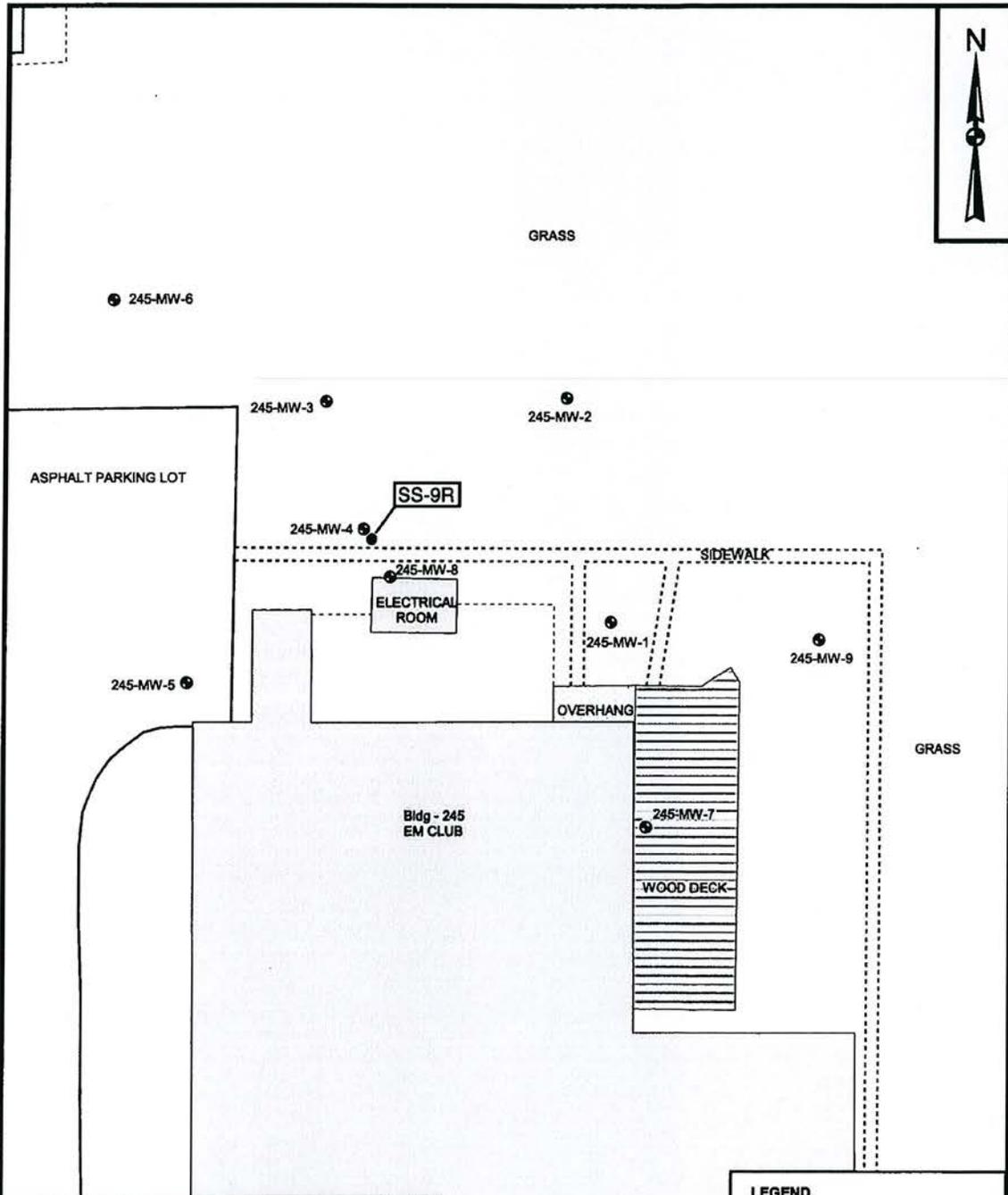
**TABLE 2**  
**SUMMARY OF LABORATORY GROUNDWATER ANALYTICAL DETECTIONS**  
**FIRST QUARTER GROUNDWATER MONITORING LETTER REPORT, 2007**  
**BUILDING 245**  
**NAVAL STATION MAYPORT**  
**MAYPORT, FLORIDA**

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Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW07							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	1.0 U	NA	NA	NA	NA	NA
ETHYLBENZENE	30	NA	NA	1.0 U	NA	NA	NA	NA	NA
TOLUENE	40	NA	NA	1.0 U	NA	NA	NA	NA	NA
XYLENES, TOTAL	20	NA	NA	3.0 U	NA	NA	NA	NA	NA
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	28	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
ACENAPHTHENE	20	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
ANTHRACENE	2100	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
FLUORANTHENE	280	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
FLUORENE	280	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
NAPHTHALENE	14	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
PHENANTHRENE	210	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
PYRENE	210	1.0 U	0.20 U	0.20 U	NA	NA	NA	NA	NA
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	1.7 U	1.7 U	1.7 JB	NA	NA	NA	NA	NA

Constituent	GCTL <sup>(1)</sup>	Monitoring Well Locations							
		MPT-245-MW08R							
VOCs (USEPA Method 8260B) (µg/L)		10/6/2002 <sup>(2)</sup>	2/24/2003 <sup>(2)</sup>	6/9/2003 <sup>(2)</sup>	2/15/2006	6/1/2006	9/28/2006	12/12/2006	2/14/2007
BENZENE	1	NA	NA	NA	0.35 J	0.2 J	0.3 J	0.2 I	0.3 I
ETHYLBENZENE	30	NA	NA	NA	7.53	1.9	2.8	3.4	4.6
TOLUENE	40	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 I
XYLENES, TOTAL	20	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.3 I
PAHs (USEPA Method 8270C SIM) (µg/L)									
1-METHYLNAPHTHALENE	28	NA	29	9.5	3.23 J	11.8	26.8	9.81	7.79
2-METHYLNAPHTHALENE	28	NA	14	3.2	0.64 J	4.45	3.04	5.23	0.91
ACENAPHTHENE	20	NA	1.8	0.72	0.47	0.95	1.62	0.87	0.82
ANTHRACENE	2100	NA	0.17 J	0.20 U	0.02 U	0.02 U	0.17	0.02 U	0.02 U
FLUORANTHENE	280	NA	0.20 U	0.20 U	0.01 U	0.05 J	0.05 J	0.01 U	0.01 U
FLUORENE	280	NA	2.6	1.0	0.47	1.27	2.43	1.53	1.04
NAPHTHALENE	14	NA	23	5.9	5.03 J	7.55	26.4	11.9	12.5
PHENANTHRENE	210	NA	1.6	0.7	0.09 J	0.83	1.08	0.53	0.15
PYRENE	210	NA	0.20 U	0.20 U	0.02 U	0.08 J	0.12	0.08 I	0.07 I
Petroleum Hydrocarbons (mg/L)									
TPH (C08-C40)	5	NA	2.1	5.0 B	0.10	1.18	1.19	0.763	0.766

See notes at end of table



LEGEND	
●	Monitoring Well
●	Soil Sample

DRAWN BY K. PEILA	DATE 4/17/06
CHECKED BY T. COTTENOIR	DATE 4/30/07
COST/SCHEDULE-AREA	
SCALE AS NOTED	



Soil Sample SS-9R Collection Location  
(December 9, 2009)

SITE 245  
NAVAL STATION MAYPORT  
MAYPORT, FLORIDA

CONTRACT NUMBER CTO 0050	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 5	REV 0

**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 30, 2009

Tetra Tech NUS (BR006)

Attn: Mark Peterson

8640 Philips Highway Suite 16

Jacksonville, FL 32256

**RE: Laboratory Results for  
Project Number: [none], Project Name/Desc: CTO 118 Site 245  
ENCO Workorder: B905838**

Dear Mark Peterson,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, December 9, 2009.

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.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. 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. Unless otherwise noted, all analyses were performed at ENCO Jacksonville. 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,

A handwritten signature in cursive script that reads "Lorraine Strong".

Lorraine Strong  
Project Manager

Enclosure(s)



www.encolabs.com

**SAMPLE SUMMARY/LABORATORY CHRONICLE**

<b>Client ID:</b> SS-9R	<b>Lab ID:</b> B905838-01	<b>Sampled:</b> 12/09/09 14:15	<b>Received:</b> 12/09/09 15:15
<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
EPA 8270D	12/23/09 01/31/10	12/22/09 10:46	12/29/2009 21:05

<b>Client ID:</b> SS-9R	<b>Lab ID:</b> B905838-01RE1	<b>Sampled:</b> 12/09/09 14:15	<b>Received:</b> 12/09/09 15:15
<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
FLPRO	12/23/09 01/23/10	12/14/09 11:32	12/15/2009 19:01



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**SAMPLE DETECTION SUMMARY**

Client ID: SS-9R		Lab ID: B905638-01RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
TPH (C8-C40)	260		11	21	mg/kg dry	FLPRO	



**ANALYTICAL RESULTS**

**Description:** SS-9R  
**Matrix:** Soil  
**Project:** CTO 118 Site 245

**Lab Sample ID:** B905838-01  
**Sampled:** 12/09/09 14:15  
**Sampled By:**

**Received:** 12/09/09 15:15  
**Work Order:** B905838  
**% Solids:** 93.25

**Semivolatile Organic Compounds by GCMS SIM**

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Methylnaphthalene [90-12-0] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
2-Methylnaphthalene [91-57-6] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Acenaphthene [83-32-9] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Acenaphthylene [208-96-8] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Anthracene [120-12-7] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Benzo(a)anthracene [56-55-3] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Benzo(a)pyrene [50-32-8] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Benzo(b)fluoranthene [205-99-2] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Benzo(g,h,i)perylene [191-24-2] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Benzo(k)fluoranthene [207-08-9] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Chrysene [218-01-9] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Dibenzo(a,h)anthracene [53-70-3] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Fluoranthene [206-44-0] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Fluorene [86-73-7] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Naphthalene [91-20-3] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Phenanthrene [85-01-8] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	
Pyrene [129-00-0] ^	0.025	U	mg/kg dry	1	0.025	0.049	9L22014	EPA 8270D	12/29/09 21:05	JWJ	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
p-Terphenyl	1.8	1	1.78	102 %	61-150	9L22014	EPA 8270D	12/29/09 21:05	JWJ	

**FL Petroleum Range Organics**

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
TPH (C8-C40) [ECL-0175] ^	260		mg/kg dry	2	11	21	9L14016	FLPRO	12/15/09 19:01	LJC	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
n-Nonatriacontane	2.9	2	3.57	80 %	23-189	9L14016	FLPRO	12/15/09 19:01	LJC	
o-Terphenyl	1.6	2	1.79	87 %	64-118	9L14016	FLPRO	12/15/09 19:01	LJC	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.