

N00204.AR.004658
NAS PENSACOLA
5090.3a

LETTER REGARDING REVIEW AND COMMENTS FROM FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION OF CONDITIONAL SITE REHABILITATION COMPLETION
ORDER FOR UNDERGROUND STORAGE TANK SITE 1120 OUTLYING LANDING FIELD
BRONSON NAS PENSACOLA FL
6/6/2014
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

June 6, 2014

Ms. Patty Marajh-Whittemore
Remedial Project Manager
ITP Gulf Coast
Naval Facilities Engineering Command Southeast
AJAX Street, Building 135N
Post Office Box 30A
Jacksonville, Florida 32212-0030

Subject: **Conditional Site Rehabilitation Completion Order (SRCO)**
Underground Storage Tank Site 1120
Outlying Landing Field Bronson
Pensacola, Escambia County
Oculus ID# DOD_11_2746

Dear Ms. Marajh-Whittemore:

The Waste Cleanup Program has reviewed the Risk-Based Closure Request, Revision 6, dated August 2013 (received August 2, 2013), that was prepared by Tetra Tech, Inc., for the Underground Storage Tank Site 1120 at Outlying Landing Field (OLF) Bronson (aka Bronson Field), Florida. Maps showing the location of Bronson Field and the location of the “contaminated site” (i.e., contaminant plume) for which this Order is being issued are enclosed as Exhibits 1 and 2 and are incorporated by reference herein.

The contamination, which resulted from a discharge that was discovered in 1994 during tank closure activities, consisted of petroleum contaminants associated with fuel oil. Site 1120 is the former location of a boiler room (Building 1120) at OLF Bronson (Figure 1-2). Three concrete USTs, used to store fuel oil, and one 250-gallon steel UST, used to store butane, were removed from Site 1120 in 1994. Approximately 200 cubic yards of contaminated soil was removed from the excavation during removal of the tanks and clean soil was used to backfill the excavation. Petroleum hydrocarbon vapors were noted in the soil during the removal of the USTs and analytical results of groundwater samples collected from a monitoring well indicated petroleum contamination of the groundwater.

Soil contamination remaining at the site is limited to benzo(a)pyrene equivalent concentrations above the Department’s residential soil cleanup target level detected in one subsurface soil sample at a depth of 10 to 12 feet below land surface. Groundwater contamination remaining at

the site is limited to naphthalene, 1-methylnaphthalene, 2-methylnaphthalene and total recoverable petroleum hydrocarbons detected at concentrations above the Department's groundwater cleanup target levels. A Treatability Study at the site, consisting of the injection of ORC[®], was conducted in July 2003, but has not completely remediated groundwater. Post-remediation monitoring has demonstrated that the groundwater contaminant plume is of limited extent, is stable, and is not migrating.

The Risk-Based Closure Request is supported by earlier submittals, prepared pursuant to the requirements of Chapter 62-780, Florida Administrative Code (F.A.C.), including, but not limited to:

Navy Public Works Center, 1998. Site Assessment Report for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola, Florida. Naval Air Station Pensacola, Florida. March.

Tetra Tech NUS, Inc. (Tetra Tech), 2001. Site Assessment Report Addendum for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola, Florida. Tallahassee, Florida. May.

Tetra Tech, 2006. Enhanced Natural Attenuation Treatability Study Seventh Quarter Groundwater Monitoring Letter Report for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola, Florida. Tallahassee, Florida. February.

Tetra Tech, 2007. Treatability Study Work Plan for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola, Florida. Tallahassee, Florida. August.

Tetra Tech, 2008. Baseline Sampling Letter Report for Underground Storage Tank Site 1120, Outlying Landing Field Bronson, Pensacola, Florida. Tallahassee, Florida. March.

Based on the documentation submitted with the Risk-Based Closure Request and the above-referenced technical documents, the Department has reasonable assurance that the Navy has met the criteria in Chapter 62-780, F.A.C., including the commitments set forth in the technical submittals with respect to the implementation of institutional controls. The technical submittals indicate that land use control (LUC) objectives have been established for soil and groundwater contaminants remaining at the above-referenced contaminated site, in conjunction with appropriate institutional controls. Therefore, you have satisfied the site rehabilitation requirements for the above-referenced contaminated site and are released from any further obligation to conduct site rehabilitation at the contaminated site, except as set forth below.

Ms. Marajh-Whittemore
Risk-Based Closure Request
Underground Storage Tank Site 1120
Outlying Landing Field Bronson
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Exhibit 3 incorporated by reference herein includes information regarding the contaminants, affected media, and applicable cleanup target levels for the contaminated site that is the subject of this Order.

The enclosed Land Use Control Implementation Plan (LUCIP) (Exhibit 4), incorporated by reference herein, includes information regarding the contaminants, affected media, LUC objectives, the establishment and implementation of LUCs, and how the LUCs are to be recorded for the contaminated site that is the subject of this Order.

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

- (a) You are required to properly abandon all monitoring wells within 60 days of receipt of this Order. The monitoring wells must be plugged and abandoned in accordance with the requirements of Rule 62-532.500(5), F.A.C.;
- (b) Any current or future real property owner of the above-referenced contaminated site must comply with the provisions contained within the approved LUCIP for UST Site 15, Building 1120; and
- (c) If the current or future real property owner of the above-referenced contaminated site proposes to remove the institutional controls, the real property owner shall obtain prior written approval from the Department. The removal of the controls shall be accompanied by the immediate resumption of site rehabilitation or implementation of other approved controls, unless it is documented to the Department that the criteria of subsection 62-780.680(1), F.A.C., are met.

In the event concentrations of petroleum products' contaminants of concern increase above the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum product occurs at the facility, the Florida Department of Environmental Protection (the Department) may require site rehabilitation to reduce concentrations of petroleum products' contaminants of concern to the levels approved in the Risk-Based Closure Request, Revision 6 or otherwise allowed by Chapter 62-780, F.A.C.

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 Conditional 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:
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 Ms. Patty Marajh-Whittemore, Naval Facilities Engineering Command Southeast, shall mail a copy of the request to the Ms. Patty Marajh-Whittemore, Naval Facilities Engineering Command Southeast, 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 Ms. Patty Marajh-Whittemore, Naval Facilities Engineering Command Southeast, shall mail a copy of the petition to Ms. Patty Marajh-Whittemore, Naval Facilities Engineering Command Southeast, 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).

Ms. Marajh-Whittemore
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Questions

Any questions regarding the Department's review of your Risk-Based Closure Request should be directed to David P. Grabka at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, Mail Station, phone (850) 245-8997, e-mail david.grabka@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, Program Administrator
Waste Cleanup Program
Division of Waste Management

Enclosures (Exhibits 1, 2, 3 and 4)

cc: Greg Campbell, NAS Pensacola
Gerry Walker, Tetra Tech, Tallahassee

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)

June 6, 2014
Date

Exhibit 1

ACAD: 0055GM01.dwg 05/22/08 CK PIT



SOURCE: USGS TOPOGRAPHIC QUADRANGLE
PENSACOLA, FLORIDA-ALABAMA (1957 EDITION)

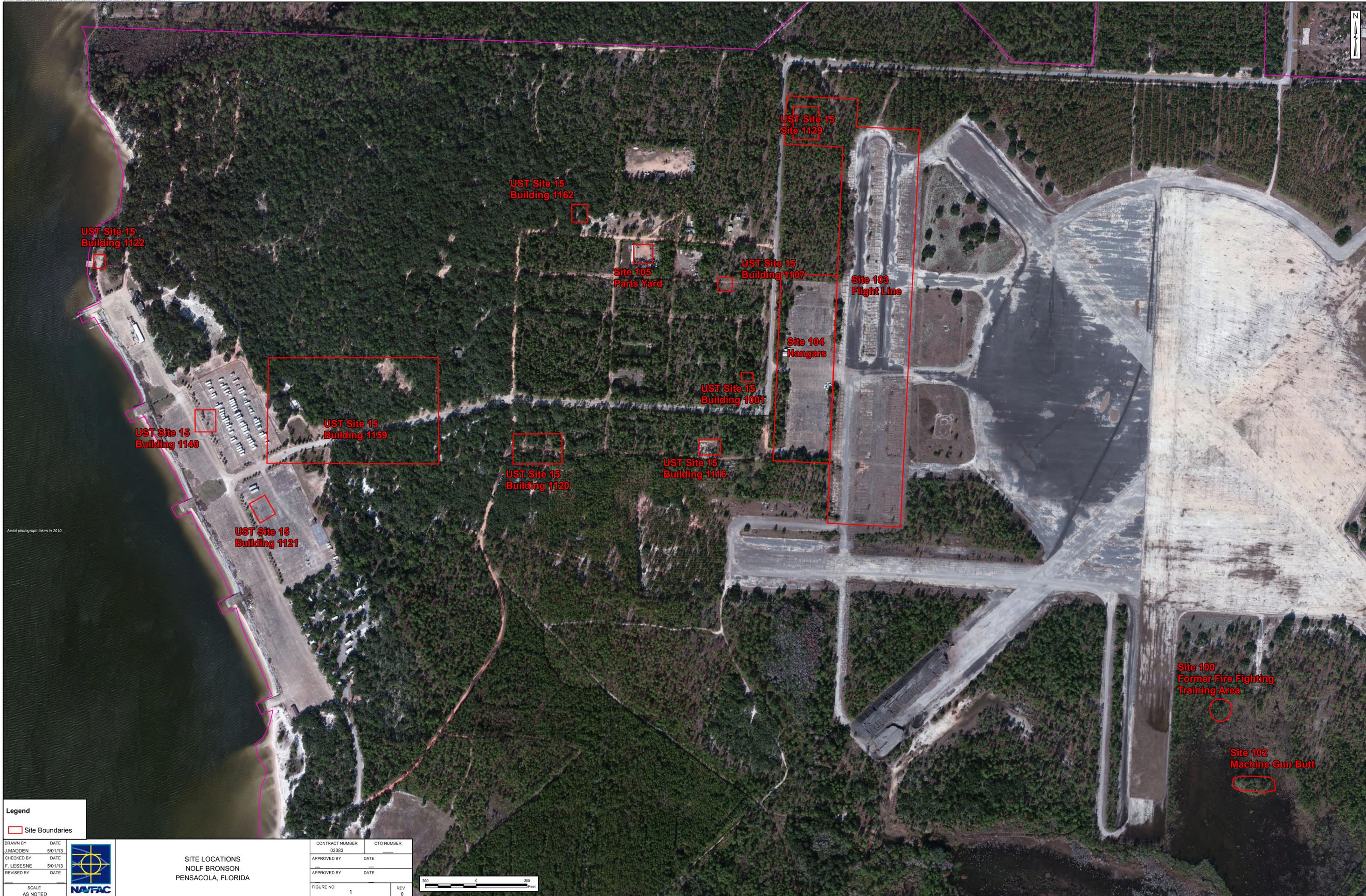
DRAWN BY	DATE
CK	5/22/08
CHECKED BY	DATE
REVISD BY	DATE
SCALE	
NOT TO SCALE	



SITE LOCATION MAP
UST SITE 1120
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 0055	
OWNER NO. 0000	
APPROVED BY	DATE
DRAWING NO. FIGURE 1-1	REV. 0

FORM CADD NO. SDIV-BH.DWG - REV 1 - 9/10/98



Aerial photograph taken in 2010.

Legend
□ Site Boundaries

DRAWN BY	DATE
J.MADDEN	5/01/13
CHECKED BY	DATE
F. LESESNE	5/01/13
REVISED BY	DATE
SCALE	
AS NOTED	



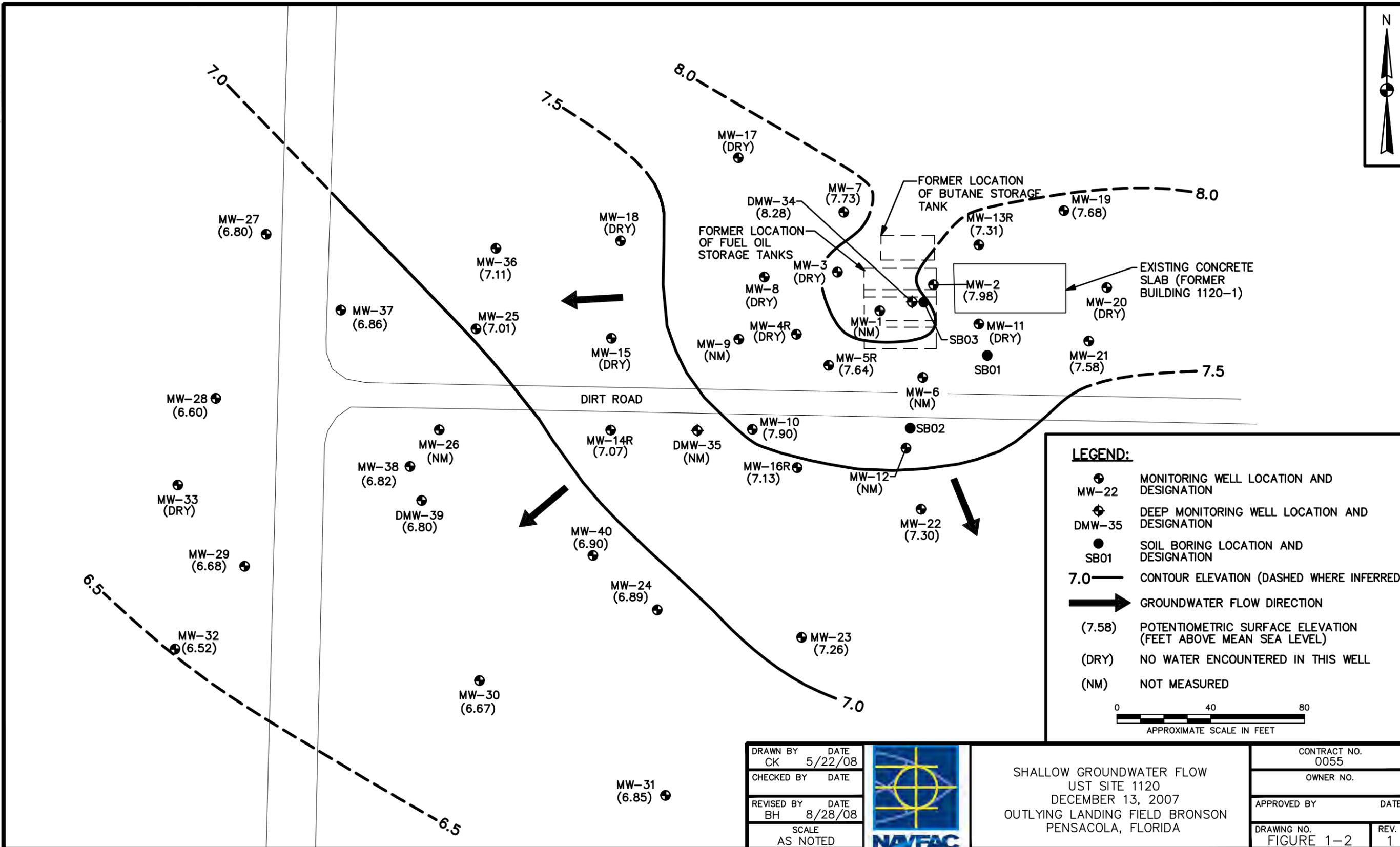
SITE LOCATIONS
NOLF BRONSON
PENSACOLA, FLORIDA

CONTRACT NUMBER	CTO NUMBER
03383	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO.	REV
1	0



Exhibit 2

ACAD: 0055GM09.dwg 05/22/08 CK PIT

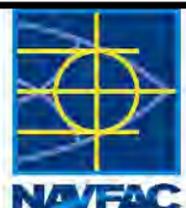


LEGEND:

- ⊕ MW-22 MONITORING WELL LOCATION AND DESIGNATION
- ⊕ DMW-35 DEEP MONITORING WELL LOCATION AND DESIGNATION
- SB01 SOIL BORING LOCATION AND DESIGNATION
- 7.0 ——— CONTOUR ELEVATION (DASHED WHERE INFERRED)
- ➔ GROUNDWATER FLOW DIRECTION
- (7.58) POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (DRY) NO WATER ENCOUNTERED IN THIS WELL
- (NM) NOT MEASURED

0 40 80
APPROXIMATE SCALE IN FEET

DRAWN BY CK	DATE 5/22/08
CHECKED BY	DATE
REVISD BY BH	DATE 8/28/08
SCALE AS NOTED	



SHALLOW GROUNDWATER FLOW
UST SITE 1120
DECEMBER 13, 2007
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 0055	
OWNER NO.	
APPROVED BY	DATE
DRAWING NO. FIGURE 1-2	REV. 1

Exhibit 3

TABLE 2-1

SUMMARY OF DETECTED CONCENTRATIONS - SUBSURFACE SOIL
SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 2

SAMPLE NUMBER LOCATION SAMPLE DATE DEPTH RANGE (Feet)	HUMAN HEALTH RISK SCREENING SOIL CLEANUP TARGET LEVEL ⁽¹⁾			OLFB20SB01-0406	OLFB20SB01-1214	OLFB20SB02-0406	OLFB20SB02-1214
	Residential	Industrial	Leachability	OLFB20SB01 20000601 4 - 6	OLFB20SB01 20000601 12 - 14	OLFB20SB02 20000601 4 - 6	OLFB20SB02 20000601 12 - 14
Volatile Organics (mg/kg)							
TOLUENE	7500	60000	0.5	0.0052 U	0.0014 J	0.0015 J	0.0058 U
Semivolatile Organics (mg/kg)							
BENZO(A)ANTHRACENE	(2)	(2)	0.8	0.068 U	0.068 U	0.07 U	0.07 U
BENZO(A)PYRENE	0.1	0.7	8	0.068 U	0.068 U	0.07 U	0.07 U
BENZO(B)FLUORANTHENE	(2)	(2)	2.4	0.068 U	0.068 U	0.07 U	0.07 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.068 U	0.068 U	0.07 U	0.07 U
BENZO(K)FLUORANTHENE	(2)	(2)	24	0.068 U	0.068 U	0.07 U	0.07 U
CHRYSENE	(2)	(2)	77	0.34 U	0.34 U	0.35 U	0.35 U
FLUORANTHENE	3200	59000	1200	0.34 U	0.34 U	0.35 U	0.35 U
INDENO(1,2,3-CD)PYRENE	(2)	(2)	6.6	0.068 U	0.068 U	0.07 U	0.07 U
PHENANTHRENE	2200	36000	250	0.34 U	0.34 U	0.35 U	0.35 U
PYRENE	2400	45000	880	0.34 U	0.34 U	0.35 U	0.35 U
BENZO(A)PYPYRENE EQUIVALENT	0.1	0.7	8	ND	ND	ND	ND
Petroleum Hydrocarbons (mg/kg)							
TOTAL PETROLEUM HYDROCARBONS	460	2700	340	70.3	47.2	12.5	8.8 U

TABLE 2-1
SUMMARY OF DETECTED CONCENTRATIONS - SUBSURFACE SOIL
SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 2 OF 2

LOCATION SAMPLE DATE DEPTH RANGE (Feet)	HUMAN HEALTH RISK SCREENING SOIL CLEANUP TARGET LEVEL ⁽¹⁾			OLFB20SB03-0810	OLFB20SB03-1012	OLFB20SB03-1012-AVG	OLFB20SB03-1012-D
	Residential	Industrial	Leachability	OLFB20SB03 20000601 8 - 10	OLFB20SB03 20000601 10 - 12	OLFB20SB03 20000601 10 - 12	OLFB20SB03 20000601 10 - 12
Volatile Organics (mg/kg)							
TOLUENE	7500	60000	0.5	0.0012 J	0.0057 U	0.0012 J	0.0012 J
Semivolatile Organics (mg/kg)							
BENZO(A)ANTHRACENE	(2)	(2)	0.8	0.069 U	0.123	0.07875	0.069 U
BENZO(A)PYRENE	0.1	0.7	8	0.069 U	0.108	0.07125	0.069 U
BENZO(B)FLUORANTHENE	(2)	(2)	2.4	0.069 U	0.136	0.08525	0.069 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.069 U	0.091	0.06275	0.069 U
BENZO(K)FLUORANTHENE	(2)	(2)	24	0.069 U	0.0782	0.05635	0.069 U
CHRYSENE	(2)	(2)	77	0.35 U	0.136 J	0.136 J	0.35 U
FLUORANTHENE	3200	59000	1200	0.35 U	0.288 J	0.288 J	0.35 U
INDENO(1,2,3-CD)PYRENE	(2)	(2)	6.6	0.069 U	0.142	0.08825	0.069 U
PHENANTHRENE	2200	36000	250	0.35 U	0.12 J	0.12 J	0.35 U
PYRENE	2400	45000	880	0.35 U	0.186 J	0.186 J	0.35 U
BENZO(A)PYPYRENE EQUIVALENT	0.1	0.7	8	ND	0.18⁽³⁾	0.13⁽³⁾	ND
Petroleum Hydrocarbons (mg/kg)							
TOTAL PETROLEUM HYDROCARBONS	460	2700	340	16.6	22	21.3	20.6

Notes:

Shaded cells indicate that the specified criterion has been exceeded.

Footnotes:

- 1 Soil Cleanup Target levels (SCTLs) for Chapter 62-777, F.A. C. FDEP, April 2005.
- 2 Individual SCTLs are not available for these carcinogenic compounds. The concentrations for these compounds are converted to benzo(a)pyrene equivalents and totaled. The resulting benzo(a)pyrene equivalent concentration is compared to the SCTLs for benzo(a)pyrene.
- 3 The calculated benzo(a)pyrene equivalent for this sample includes 1/2 the detection limit for dibenzo(a,h)anthracene.

J = estimated concentration

U = non-detect value

mg/kg = milligrams per kilogram

ND = Not Detected

FAC = Florida Administrative Code

FDEP = Florida Department of Environmental Protection

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 7

WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-01									MW-02							MW-04													
				BRN-1120-MW01									BRN-1120-MW02							BRN-1120-MW04													
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q
				06/24/03	09/25/03	12/10/03	NS	NS	03/02/05	NS	NS	NS	NS	06/24/03	09/25/03	12/10/03	03/11/04	06/08/04	03/02/05	06/07/05	10/25/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VOCs (µg/L)																																	
BENZENE	1	NC	NC	1 U	1 U	1 U	NS	NS	1 U	NS	NS	1 U	1 U	0.09 J	1 U	1 U	1 U	1 U	0.3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS				
ETHYLBENZENE	30	300	30	1 U	1 U	1 U	NS	NS	1 U	NS	NS	0.5 J	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	14	1 U	6	1 U	3	1 U	1 U	1 U	NS					
M+P-XYLENES	NC	NC	NC	1 U	2 U	2 U	NS	NS	NR	NS	NS	1 U	2 U	2 U	2 U	2 U	NR	NR	0.5 U	28	2 U	12	2 U	3	NR	NR	NS	NS					
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	NS	NS	NR	NS	NS	0.5 J	1 U	1 U	1 U	1 U	NR	NR	0.3 U	1 U	1 U	1 U	1 U	1 U	NR	NR	NS	NS					
TOLUENE	40	NC	NC	1 U	1 U	1 U	NS	NS	1 U	NS	NS	1 U	1 U	0.3 J	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS					
TOTAL XYLENES	20	200	20	1 U	3 U	3 U	NS	NS	3 U	NS	NS	2	3 U	3 U	3 U	3 U	3 U	3 U	0.8 U	28	3 U	12	3 U	3	3 U	3 U	NS	NS					
PAHs (µg/L)																																	
1-METHYLNAPHTHALENE	28	200	20	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	5.9	0.2 U	1.4	0.18 J	5.2	3.1	0.2 U	15	380	0.2 U	36	0.2 U	18	0.2 U	0.2 U	NS	NS					
2-METHYLNAPHTHALENE	28	200	20	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	4.9	0.2 U	1.2	0.22	4.9	3.1	0.2 U	14	220	0.2 U	52	0.2 U	21	0.2 U	0.2 U	NS	NS					
ACENAPHTHENE	20	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J	110 U	0.2 U	7.7 U	0.2 U	0.3	0.2 U	0.2 U	NS	NS					
ACENAPHTHYLENE	210	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
BENZO(A)ANTHRACENE	0.05	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
CHRYSENE	4.8	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
FLUORANTHENE	280	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
FLUORENE	280	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.092 J	0.2 U	0.2 U	0.2 J	110 U	0.2 U	7.7 U	0.2 U	0.52	0.2 U	0.2 U	NS	NS					
NAPHTHALENE	14	200	20	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	3	0.2 U	1.3	0.54	2.6	1.2	0.2 U	2	440	0.2 U	42	0.2 U	20	0.2 U	0.2 U	NS	NS					
PHENANTHRENE	210	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	110 U	0.2 U	7.7 U	0.2 U	0.26	0.2 U	0.2 U	NS	NS					
PYRENE	210	NC	NC	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	NS	NS	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	110 U	0.2 U	7.7 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS					
TRPH (µg/L)																																	
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	500 U	290 J	530 U	NS	NS	320 J	NS	NS	1600	500 U	1700 U	500 U	670 J	680 J	420 J	560 U	3200	720	1800 U	290 J	650	1700 U	470 J	NS	NS					

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
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WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-05R Contaminated well BRN-1120-MW05R							MW-07 BRN-1120-MW07							MW-08 BRN-1120-MW08									
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q
				06/24/03	09/25/03	12/10/03	03/11/04	06/08/04	03/02/05	06/07/05	10/26/05	06/25/03	09/26/03	12/11/03	03/11/04	06/08/04	03/03/05	NS	NS	NS	09/25/03	NS	03/11/04	NS	NS	NS	NS
VOCs(3) (µg/L)																											
BENZENE	1	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.3 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS
ETHYLBENZENE	30	300	30	0.3 J	1 U	10	1 U	12	0.96 J	1.0 U	6	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS
M+P-XYLENES	NC	NC	NC	1 U	2 U	30	2 U	28	NR	NR	16	1 U	2 U	2 U	2 U	2 U	NR	NS	NS	NS	2 U	NS	2 U	NS	NS	NS	NS
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	1 U	0.6 J	NR	NR	0.3 U	1 U	1 U	1 U	1 U	1 U	NR	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS
TOLUENE	40	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.43 J	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS
TOTAL XYLENES	20	200	20	1 U	3 U	30	3 U	28	2.8 J	3.0 U	16	1 U	3 U	3 U	3 U	3 U	3 U	NS	NS	NS	3 U	NS	3 U	NS	NS	NS	NS
PAHs(4) (µg/L)																											
1-METHYLNAPHTHALENE	28	200	20	2.2	0.2 U	34	0.2 U	37	0.31	0.2 U	16	0.2 U	0.2 U	0.37	0.094 J	0.84	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
2-METHYLNAPHTHALENE	28	200	20	1.3	0.2 U	43	0.2 U	44	0.27	0.2 U	11	0.2 U	0.2 U	0.25	0.098 J	0.64	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
ACENAPHTHENE	20	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.47	0.2 U	.15 J	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
ACENAPHTHYLENE	210	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U	0.2 U	0.2 U	0.051	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
BENZO(A)ANTHRACENE	0.05	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
CHRYSENE	4.8	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
FLUORANTHENE	280	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
FLUORENE	280	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.85	0.2 U	0.2 U	0.1 J	0.2 U	0.2 U	0.11	0.2 U	0.3	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
NAPHTHALENE	14	200	20	2.1	0.2 U	48	0.2 U	46	2.0	0.2 U	27	0.2 U	0.2 U	0.2 U	0.2 U	0.12 J	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
PHENANTHRENE	210	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.38	0.2 U	0.2 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.18 J	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
PYRENE	210	NC	NC	0.2 U	0.2 U	7.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	NS	NS	NS	0.2 U	NS	0.2 U	NS	NS	NS	NS
TRPH(5) (µg/L)																											
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	620	890	1800 U	350 J	1200	1100 J	1300 J	570	500 U	500 U	500 U	500 U	310 J	1700 U	NS	NS	NS	500 U	NS	500 U	NS	NS	NS	NS

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
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WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-13R Contaminated well BRN-1120-MW13R								MW-14R Contaminated well BRN-1120-MW14R								MW-16R Contaminated well BRN-1120-MW16R							
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q
				06/25/03	09/25/03	12/10/03	03/11/04	NS	NS	06/07/05	10/25/05	06/25/03	09/25/03	12/10/03	03/10/04	06/07/04	03/02/05	06/08/05	10/25/05	06/25/03	09/24/03	12/10/03	03/10/04	06/07/04	03/03/05	06/08/05	10/26/05
VOCs(3) (µg/L)																											
BENZENE	1	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1.0 U	0.3 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.3 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.3 U	
ETHYLBENZENE	30	300	30	1 U	1 U	1 U	1 U	NS	NS	1.0 U	0.2 U	16	3	9	23	11	5.5	1.0 U	7	1 U	0.7 J	1 U	1 U	1 U	1 U	2.9	0.2 U
M+P-XYLENES	NC	NC	NC	1 U	2 U	2 U	2 U	NS	NS	NR	0.5 U	32	5	12	51	10	NR	NR	5	1 U	3	2 U	2 U	2 U	NR	NR	0.5 U
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	1 U	NS	NS	NR	0.3 U	1 U	1 U	1 U	1 U	0.6 J	NR	NR	0.5 J	1 U	1 U	1 U	1 U	1 U	NR	NR	0.3 U
TOLUENE	40	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1.0 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.33 J	1.0 U	0.2 U	1 U	1 U	1 U	1 U	1 U	0.34 J	1.0 U	0.2 U
TOTAL XYLENES	20	200	20	1 U	3 U	3 U	3 U	NS	NS	3.0 U	0.8 U	32	5	12	51	10	10	3.0 U	6	1 U	3	3 U	3 U	3 U	3 U	9	0.8 U
PAHs(4) (µg/L)																											
1-METHYLNAPHTHALENE	28	200	20	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.1 U	160	76	130	160	140	120	0.75	190	2.3	5	13	0.099 J	5.6	1.4	11	14
2-METHYLNAPHTHALENE	28	200	20	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.06 U	150	97	200	210	200	140	1.1	210	5.6	6.2	23	0.2 J	7	2.4	17	20
ACENAPHTHENE	20	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.09 U	44 U	7.5 U	19 U	2.6	1.5	1.7	0.2 U	3	0.97 U	0.75 U	0.98 J	0.2 U	0.19 J	0.2 U	0.17 J	0.09 U
ACENAPHTHYLENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.04 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U
BENZO(A)ANTHRACENE	0.05	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.08 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.1 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U
CHRYSENE	4.8	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.05 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U
FLUORANTHENE	280	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.07 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U
FLUORENE	280	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.06 U	44 U	2.5 J	19 U	4.1 E	2.9	3.4	0.2 U	4	0.97 U	0.75 U	1.1 J	0.2 U	0.48	0.079 J	0.26	1
NAPHTHALENE	14	200	20	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.05 U	52	41	98	160	100	62	0.46	82	0.97 U	1.4	1.9 U	0.2 U	0.2	0.2 U	12	0.5
PHENANTHRENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.08 U	44 U	7.5 U	19 U	2.2	2.2	2.6	0.2 U	3	0.97 U	0.75 U	1.9 U	0.2 U	0.12 J	0.057 J	0.10 J	0.4
PYRENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	NS	NS	0.2 U	0.09 U	44 U	7.5 U	19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	0.97 U	0.75 U	1.9 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U
TRPH(5) (µg/L)																											
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	510 U	500 U	280 J	500 U	NS	NS	1700 U	220 U	3800	4600	4000	2500	2200	5100	1700 U	2600	400 J	360 J	1100 U	500 U	420 J	1700 U	450 J	780

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
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WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-17 BRN-1120-MW17								MW-18 BRN-1120-MW18							MW-24 Contaminated well BRN-1120-MW24								
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q
				06/26/03	09/26/03	12/11/03	03/11/04	NS	NS	NS	NS	06/26/03	09/26/03	12/11/03	03/10/04	06/08/04	03/03/05	NS	NS	06/25/03	09/24/03	12/10/03	03/10/04	06/07/04	03/03/05	06/07/05	10/26/05
VOCs(3) (µg/L)																											
BENZENE	1	NC	NC	1 U	1 U	1 U	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.3 U
ETHYLBENZENE	30	300	30	1 U	1 U	1 U	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.2 U
M+P-XYLENES	NC	NC	NC	1 U	2 U	2 U	2 U	NS	NS	NS	NS	1 U	2 U	2 U	2 U	2 U	NR	NS	NS	1 U	2 U	2 U	2 U	2 U	NR	NR	0.5 U
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	NR	NS	NS	1 U	1 U	1 U	1 U	1 U	NR	NR	0.3 U
TOLUENE	40	NC	NC	1 U	1 U	1 U	1 U	NS	NS	NS	NS	1 U	1 U	1 U	1 U	1 U	0.64 J	NS	NS	1 U	1 U	1 U	1 U	1 U	0.37 J	1.0 U	0.2 U
TOTAL XYLENES	20	200	20	1 U	3 U	3 U	3 U	NS	NS	NS	NS	1 U	3 U	3 U	3 U	3 U	3 U	NS	NS	1 U	3 U	3 U	3 U	3 U	3 U	3.0 U	0.8 U
PAHs(4) (µg/L)																											
1-METHYLNAPHTHALENE	28	200	20	0.11 J	0.2 U	0.096	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	6.7	0.2 U	26	4.2	8.6	3.6	0.075 J	3
2-METHYLNAPHTHALENE	28	200	20	0.092 J	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	5.9	0.12 J	50	6	16	17	0.11 J	17
ACENAPHTHENE	20	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.17 J	7.5 U	0.3	0.36	0.4	0.2 U	0.8
ACENAPHTHYLENE	210	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.74 J	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U
BENZO(A)ANTHRACENE	0.05	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.13 J	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.16 J	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U
CHRYSENE	4.8	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U
FLUORANTHENE	280	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.2 U	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U
FLUORENE	280	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.7 J	0.2 U	2.9 J	0.39	1.1	0.86	0.2 U	1
NAPHTHALENE	14	200	20	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.13 J	7.5 U	0.08 J	0.36	0.28	0.2 U	0.8
PHENANTHRENE	210	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.2 U	7.5 U	0.17 J	0.44	0.88	0.2 U	0.3
PYRENE	210	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	NS	NS	0.22 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	1 U	0.19 J	7.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U
TRPH(5) (µg/L)																											
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	400 J	500 U	310 U	500 U	NS	NS	NS	NS	1300	500 U	570 U	500 U	500 U	1700 U	NS	NS	1200	500 U	2200 U	350 J	690	1200 J	1700 U	780

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
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WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-25								MW-26								MW-27							
				Contaminated well BRN-1120-MW25								Contaminated well BRN-1120-MW26								BRN-1120-MW27							
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q
				06/25/03	09/25/03	12/11/03	03/10/04	NS	NS	06/08/05	10/26/05	06/26/03	09/24/03	12/11/03	03/10/04	06/07/04	NS	06/08/05	NS	06/26/03	09/25/03	12/10/03	03/10/04	06/08/04	03/03/05	NS	NS
VOCs(3) (µg/L)																											
BENZENE	1	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1.0 U	0.3 U	1 U	1 U	1 U	1 U	1 U	NS	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS
ETHYLBENZENE	30	300	30	1	1 U	0.8 U	0.9 J	NS	NS	1.0 U	0.3 J	1 U	1 U	1 U	1 U	1 U	NS	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS
M+P-XYLENES	NC	NC	NC	1 U	2 U	0.4 J	2	NS	NS	NR	0.5 U	1 U	2 U	2 U	2 U	2 U	NS	NR	NS	1 U	2 U	2 U	2 U	2 U	2 U	NR	NS
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	1 U	NS	NS	NR	0.3 U	1 U	1 U	1 U	1 U	1 U	NS	NR	NS	1 U	1 U	1 U	1 U	1 U	1 U	NR	NS
TOLUENE	40	NC	NC	1 U	1 U	1 U	1 U	NS	NS	1.0 U	0.2 U	1 U	1 U	1 U	1 U	1 U	NS	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS
TOTAL XYLENES	20	200	20	1 U	3 U	3 U	2 J	NS	NS	3.0 U	0.8 U	1 U	3 U	3 U	3 U	3 U	NS	3.0 U	NS	1 U	3 U	3 U	3 U	3 U	3 U	NS	NS
PAHs(4) (µg/L)																											
1-METHYLNAPHTHALENE	28	200	20	7.3	0.2 U	17	14	NS	NS	0.2 U	34	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
2-METHYLNAPHTHALENE	28	200	20	20	0.11 J	56	18	NS	NS	0.2 U	56	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
ACENAPHTHENE	20	NC	NC	1.9 U	0.2 U	7.7 U	0.24	NS	NS	0.2 U	0.09 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
ACENAPHTHYLENE	210	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.04 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
BENZO(A)ANTHRACENE	0.05	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.08 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
BENZO(K)FLUORANTHENE	0.5	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.1 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
CHRYSENE	4.8	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.05 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.14 J	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
FLUORANTHENE	280	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.07 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.17 J	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
FLUORENE	280	NC	NC	1.9 U	0.2 U	7.7 U	0.36	NS	NS	0.2 U	2	0.21 U	0.2 U	0.2 U	0.2 U	0.17 J	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
NAPHTHALENE	14	200	20	6	0.2 U	16	6.4	NS	NS	0.2 U	9	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
PHENANTHRENE	210	NC	NC	1.9 U	0.2 U	7.7 U	0.11 J	NS	NS	0.2 U	0.8	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.077 J	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
PYRENE	210	NC	NC	1.9 U	0.2 U	7.7 U	0.2 U	NS	NS	0.2 U	0.09 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	NS	0.2 U	0.22	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS
TRPH(5) (µg/L)																											
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	950	500 U	1300 U	450 J	NS	NS	1700 U	700	520 U	500 U	500 U	500 U	500 U	NS	1700 U	NS	500 U	500 U	330 U	500 U	500 U	1700 J	NS	NS

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 6 OF 7

WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-28									MW-29							MW-30									
				Perimeter Well									Perimeter Well							Perimeter Well									
				BRN-1120-MW28									BRN-1120-MW29							OLFB1120MW30									
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	8Q	9Q	Baseline	1Q	2Q	3Q	4Q	5Q
06/26/03	09/25/03	12/10/03	03/10/04	06/08/04	03/03/05	06/07/05	10/25/05			NS	09/25/03	12/10/03	03/10/04	06/08/04	NS	NS	10/25/05			NS	NS	NS	NS	06/07/04	NS	NS	10/26/05		
VOCs(3) (µg/L)																													
BENZENE	1	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.3 U	NS	1 U	1 U	1 U	1 U	NS	NS	0.3 U	NS	NS	NS	NS	1 U	NS	NS	NS	0.3 U	
ETHYLBENZENE	30	300	30	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.2 U	NS	1 U	1 U	0.3 J	0.4 J	NS	NS	0.2 U	NS	NS	NS	NS	1 U	NS	NS	NS	0.2 U	
M+P-XYLENES	NC	NC	NC	1 U	2 U	2 U	2 U	2 U	NR	NR	0.5 U	NS	2 U	2 U	2 U	2 U	NS	NS	0.5 U	NS	NS	NS	NS	2 U	NS	NS	NS	0.5 U	
O-XYLENE	NC	NC	NC	1 U	1 U	1 U	1 U	1 U	NR	NR	0.3 U	NS	1 U	1 U	1 U	1 U	NS	NS	0.3 U	NS	NS	NS	NS	1 U	NS	NS	NS	0.3 U	
TOLUENE	40	NC	NC	1 U	1 U	1 U	1 U	1 U	0.30 J	1.0 U	0.2 U	NS	1 U	1 U	0.2 J	1 U	NS	NS	0.2 U	NS	NS	NS	NS	1 U	NS	NS	NS	0.2 U	
TOTAL XYLENES	20	200	20	1 U	3 U	3 U	3 U	3 U	3 U	3.0 U	0.8 U	NS	3 U	3 U	3 U	3 U	NS	NS	0.8 U	NS	NS	NS	NS	3 U	NS	NS	NS	0.8 U	
PAHs(4) (µg/L)																													
1-METHYLNAPHTHALENE	28	200	20	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	NS	0.2 U	0.2 U	0.2 U	0.085 J	NS	NS	0.09 U	NS	NS	NS	NS	0.33	NS	NS	NS	0.09 U	
2-METHYLNAPHTHALENE	28	200	20	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.06 U	NS	0.2 U	1.2	0.97	2.7	NS	NS	0.06 U	NS	NS	NS	NS	3.6	NS	NS	NS	1	
ACENAPHTHENE	20	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	NS	0.2 U	0.2 U	0.12 J	0.21	NS	NS	0.08 U	NS	NS	NS	NS	0.34	NS	NS	NS	0.08 U	
ACENAPHTHYLENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.04 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.04 U	
BENZO(A)ANTHRACENE	0.05	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.08 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.08 U	
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.09 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.09 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.09 U	
CHRYSENE	4.8	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.05 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.05 U	
FLUORANTHENE	280	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.07 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.07 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.07 U	
FLUORENE	280	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.06 U	NS	0.2 U	0.11 J	0.19 J	0.38	NS	NS	0.06 U	NS	NS	NS	NS	1	NS	NS	NS	0.5	
NAPHTHALENE	14	200	20	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U	NS	0.2 U	0.12 J	0.52	1.6	NS	NS	0.05 U	NS	NS	NS	NS	0.29	NS	NS	NS	0.2	
PHENANTHRENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	NS	0.2 U	0.2 U	0.1 J	0.086 J	NS	NS	0.08 U	NS	NS	NS	NS	0.43	NS	NS	NS	0.3	
PYRENE	210	NC	NC	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	0.08 U	NS	NS	NS	NS	0.2 U	NS	NS	NS	0.08 U	
TRPH(5) (µg/L)																													
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	500 U	500 U	340 U	500 U	500 U	1700 J	1700 U	210 U	NS	500 U	500 U	500 U	300 J	NS	NS	220 U	NS	NS	NS	NS	490	NS	NS	NS	540	

TABLE 2-2
SUMMARY OF GROUNDWATER MONITORING DATA
UST SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 7 OF 7

WELL NAME FDEP WELL DESIGNATION SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾ (µg/L)	Cont. Wells SSAL ⁽²⁾ (µg/L)	Peri. Wells SSAL ⁽²⁾ (µg/L)	MW-32									MW-35							
				BRN-1120-MW32									BRN-1120-MW35							
				Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	Baseline	1Q	2Q	3Q	4Q	5Q	6Q	7Q	
				06/26/03	NS	NS	NS	NS	03/03/05	06/07/05	NS	06/26/03	09/25/03	12/10/03	03/10/04	06/07/04	03/02/05	NS	NS	
VOCs(3) (µg/L)																				
BENZENE	1	NC	NC	1 U	NS	NS	NS	NS	1 U	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	
ETHYLBENZENE	30	300	30	1 U	NS	NS	NS	NS	1 U	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	NS	NS	
M+P-XYLENES	NC	NC	NC	1 U	NS	NS	NS	NS	NR	NR	NS	1 U	2 U	2 U	2 U	2 U	NR	NS	NS	
O-XYLENE	NC	NC	NC	1 U	NS	NS	NS	NS	NR	NR	NS	1 U	1 U	1 U	1 U	1 U	NR	NS	NS	
TOLUENE	40	NC	NC	1 U	NS	NS	NS	NS	0.30 J	1.0 U	NS	1 U	1 U	1 U	1 U	1 U	0.27 J	NS	NS	
TOTAL XYLENES	20	200	20	1 U	NS	NS	NS	NS	3 U	3.0 U	NS	1 U	3 U	3 U	3 U	3 U	3 U	NS	NS	
PAHs(4) (µg/L)																				
1-METHYLNAPHTHALENE	28	200	20	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
2-METHYLNAPHTHALENE	28	200	20	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
ACENAPHTHENE	20	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
ACENAPHTHYLENE	210	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
BENZO(A)ANTHRACENE	0.05	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
BENZO(K)FLUORANTHENE	0.5	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
CHRYSENE	4.8	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
FLUORANTHENE	280	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
FLUORENE	280	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
NAPHTHALENE	14	200	20	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
PHENANTHRENE	210	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
PYRENE	210	NC	NC	0.2 U	NS	NS	NS	NS	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	NS	
TRPH(5) (µg/L)																				
TOTAL PETROLEUM HYDROCARBONS	5000	50000	5000	500 U	NS	NS	NS	NS	1700 J	1700 U	NS	500 U	500 U	350 U	500 U	500 U	1700J	NS	NS	

Notes:

440	Exceeds GCTL
440	Exceeds GCTL and NADSC

¹ Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.

² Site-specific Natural Attenuation Action Levels FDEP April 2, 2002.

J = Estimated concentration

U = non-detect value

µg/L = micrograms per liter

NC = No Criteria

FAC = Florida Administrative Code

NS = Not sampled

NR = Not reported

SSAL = Site Specific Action Level

Cont. = Contaminated

Peri. = Perimeter

TABLE 2-3
SUMMARY OF GROUNDWATER DATA - DECEMBER 2007
SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 2

WELL NAME SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾	NADSC ⁽²⁾	MW-5R BRN-1120-MW05R Baseline 12/13/07	MW-7 BRN-1120-MW07 Baseline 12/13/07	MW-14R BRN-1120-MW14R Baseline 12/14/07	MW-14R DUP BRN-1120-DUP01-1207 Baseline 12/14/07	MW-16R BRN-1120-MW16R Baseline 12/13/07	MW-24 BRN-1120-MW24 Baseline 12/13/07	MW-25 BRN-1120-MW25 Baseline 12/13/07	MW-27 BRN-1120-MW27 Baseline 12/13/07
VOCs (µg/L)										
CHLOROFORM	70	700	0.21U	0.58 J	0.21U	0.21U	0.39 J	1.6	0.26 J	3.3
ETHYLBENZENE	30	300	0.2 U	0.2 U	6	6.2	0.2 U	0.2 U	0.2 U	0.2 U
TOTAL XYLENES	20	200	0.56 U	0.56 U	9.3	10.2	0.56 U	0.56 U	0.56 U	0.56 U
PAHs (µg/L)										
1-METHYLNAPHTHALENE	28	280	0.25 U	0.24 U	140	133	0.34 J	0.25 J	0.25 U	0.25 U
2-METHYLNAPHTHALENE	28	280	0.25 U	0.24 U	178	172	0.43 J	0.65 J	0.25 U	0.25 U
ACENAPHTHENE	20	200	0.5 U	0.49 U	2 U	2 U	0.5 U	0.49 U	0.5 U	0.5 U
FLUORENE	280	2800	0.25 U	0.24 U	4.8	4.7	0.25 U	0.24 U	0.25 U	0.25 U
NAPHTHALENE	14	140	0.25 U	0.24 U	77.5	73.9	0.25 U	0.24 U	0.25 U	0.25 U
PHENANTHRENE	210	2100	0.5 U	0.49 U	2.6 J	2.5 J	0.5 U	0.49 U	0.5 U	0.5 U
TRPH (mg/L)										
TOTAL PETROLEUM HYDROCARBONS	5000	50,000	1,113	170 U	6,960	6,100	170 U	206 J	170 U	180 U

TABLE 2-3
SUMMARY OF GROUNDWATER DATA - DECEMBER 2007
SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA
PAGE 2 OF 2

WELL NAME SAMPLE ID SAMPLING EVENT COLLECTION DATE	GCTL ⁽¹⁾	NADSC ⁽²⁾	MW-28 BRN-1120-MW28 Baseline 12/14/07	MW-29 BRN-1120-MW29 Baseline 12/14/07	MW-30 OLFB1120MW30 Baseline 12/14/07	MW-36 BRN-1120-MW32 Baseline 12/13/07	MW-37 BRN-1120-MW35 Baseline 12/13/07	MW-38 BRN-1120-MW35 Baseline 12/13/07	MW-39 BRN-1120-MW35 Baseline 12/13/07	MW-40 BRN-1120-MW35 Baseline 12/13/07
VOCs (µg/L)										
CHLOROFORM	70	700	4.1	11.1	5.6	3.5	25.5	0.21U	0.21U	0.47 J
ETHYLBENZENE	30	300	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TOTAL XYLENES	20	200	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
PAHs (µg/L)										
1-METHYLNAPHTHALENE	28	280	0.25 U	0.25 U	1.2	0.25 U	0.24 U	0.24 U	0.24 U	12.8
2-METHYLNAPHTHALENE	28	280	0.25 U	0.25 U	2.4	0.25 U	0.24 U	0.69 J	0.24 U	17.2
ACENAPHTHENE	20	200	0.49 U	0.49 U	0.5 U	0.5 U	0.48 U	0.48 U	0.49 U	0.54 J
FLUORENE	280	2800	0.25 U	0.25 U	0.48 J	0.25 U	0.24 U	0.24 U	0.24 U	1.5
NAPHTHALENE	14	140	0.25 U	0.25 U	0.26 J	0.25 U	0.24 U	0.36 J	0.24 U	0.96 J
PHENANTHRENE	210	2100	0.49 U	0.49 U	0.5 U	0.5 U	0.48 U	0.48 U	0.49 U	1.1
TRPH (mg/L)										
TOTAL PETROLEUM HYDROCARBONS	5000	50,000	170 U	170 U	702	170 U	160 U	170 U	170 U	1,410

Shaded cells indicate that the specified criterion has been exceeded.

J = Estimated concentration

U = non-detect value

µg/L = micrograms per liter

mg/L = milligrams per liter

FAC = Florida Administrative Code

Footnotes:

1 Groundwater Cleanup Target Level as provided in Chapter 62-777, FAC.

2 Natural Attenuation Default Source Concentrations as provided in Chapter 62-770, FAC.

TABLE 2-4
SUMMARY OF GROUNDWATER DATA FOR MW-14R AND MW-38 - JUNE 2010
SITE 1120 - OLF BRONSON
NAS PENSACOLA
PENSACOLA, FLORIDA

Well ID	FDEP GCTLs (µg/L)	FDEP NADC CTLs (µg/L)	MW-14R										MW-38	
			Jun 2003	Sept 2003	Dec 2003	Mar 2004	Jun 2004	Mar 2005	Jun 2005	Oct 2005	Dec 2007	Jun 2010	Dec 2007	Jun 2010
1-Methylnaphthalene	28	280	150	76	130	150	140	120	0.75	190	140	170	0.24 U	0.3 U
2-Methylnaphthalene	28	280	150	97	200	210	200	140	1.1	210	178	240	0.69 J	0.043 J
Naphthalene	14	140	52	41	98	160	100	62	0.46	82	77.5	72	0.36 J	0.03 U
TRPH	5000	50000	3800	4600	4000	2500	2200	5100	1700	2600	8960	2200	170 U	850

Notes:

Bold = Greater than FDEP Groundwater Cleanup Target Level (GCTL - Chapter 62-550, Florida Administrative Code (FAC) and Chapter 62-777, FAC)

Shaded Cell = Greater than FDEP Natural Attenuation Default Concentration (NADC) (Chapter 62-777, FAC)

CTL = Cleanup target level

J = Estimated concentration

U = non-detect value

Exhibit 4

**LAND USE CONTROL IMPLEMENTATION PLAN
UST SITE 15, BUILDING 1120, OUTLYING LANDING FIELD BRONSON**

**Naval Air Station (NAS) Pensacola
Pensacola, Florida**

This Land Use Control Implementation Plan (LUCIP) is a component of the remedy proposed for Underground Storage Tank (UST) Site 15, Building 1120 at Outlying Landing Field (OLF) Bronson being managed under the Florida Petroleum Cleanup Program. A Risk-Based Closure Request was prepared by Tetra Tech, Inc. (Tetra Tech). The report documented that current site conditions are protective of human health, public safety, and the environment and there are no current human or ecological exposures to petroleum-related constituents in soil or groundwater. Based on the site's environmental data and risk assessment included in the closure request; a No Further Action Status, per RMO Level II in Chapter 62-780.680(2), Florida Administrative Code (F.A.C.), was recommended for the site.

1. SITE LOCATION

OLF Bronson is located northwest of NAS Pensacola about 1 mile from the Alabama State Line and 5 miles west of the city of Pensacola. The areas south, east, and north of the facility are undeveloped with the exception of some residential properties along U.S. Highway 98 and Perdido Bay (0.5 miles north of the facility). UST Site 15, Building 1120 itself is located southwest of the remains of Building 1120. Dense woods are located north, east, and west of Site 1120 and a dirt road running east to west is located south of the site. The site is an open, brushy area with the remains (concrete slab) of Building 1120 on the site.

OLF Bronson consists of approximately 950 acres of grassy areas and forest on the eastern shore of Perdido Bay and comprises the Blue Angels Recreation Park. Currently OLF Bronson is used solely for recreational purposes, a disc golf course and paint ball range are located near Site 1120 which is relatively flat with a slight slope to the west.

2. SITE DESCRIPTION

UST Site 15, Building 1120 is a former underground storage tank site located aboard OLF Bronson, near the remains of Building 1120, a former boiler room. Soils at the site consist of a 2-inch layer of sandy loam at the surface and fine to medium sand interspersed with traces of silt and clay below the top layer. Medium sand with traces of coarse sand and silt can be found at lower depths [20 feet below ground surface (bgs)].

Benzo(a)pyrene has been identified as a chemical of concern (COC) in onsite subsurface soils based on exceeding the residential direct exposure (but not industrial direct exposure) Florida Soil Cleanup Target Levels (SCTLs) per Chapter 62-777, F.A.C. None of the analytes were detected at concentrations that exceeded their respective Florida leachability to groundwater SCTLs per Chapter 62-777, F.A.C.

1-methylnaphthalene, 2-methylnaphthalene, and naphthalene have been identified as COC's for groundwater because they exceed their Florida Groundwater Cleanup Target Levels (GCTLs) per Chapter 62-777, F.A.C. However, the concentrations for these constituents were below their Florida Natural Attenuation Default Screening Criteria per Chapter 62-777, F.A.C. The COCs are limited to one monitoring well location and are not migrating. Overall the concentrations of COCs in groundwater at the site are decreasing. Site groundwater does not

present unacceptable risks for current exposure because although the nearest potable water source is located on base (operated by Emerald Coast Utilities Authority) it is located approximately 1,400 feet upgradient from the UST Site 15, Building 1120 site boundary.

Because site contamination is limited to subsurface soil and groundwater, surface water runoff or potential migration of the petroleum-related constituent contamination to surface water is not expected to occur at the site. Also, because site contamination is limited to subsurface soil and groundwater there is no exposure pathway for ecological receptors.

3. LAND USE CONTROL (LUC) OBJECTIVES

The objectives of implementing LUCs at UST Site 15, Building 1120 are to prohibit the residential exposure to subsurface soils and prohibit the use of groundwater, thereby reducing the risk to human health. The LUCs at UST Site 15, Building 1120 will protect human health by limiting exposure to the COCs in subsurface soil and groundwater that exceed their respective Florida Cleanup Target Levels.

4. ESTABLISHMENT AND IMPLEMENTATION OF LUCS

NAS Pensacola will implement, maintain, and enforce LUCs; which will protect human health and the environment.

LUCs will be established and implemented as follows:

- NAS Pensacola will implement, monitor, maintain, and enforce the remedies at UST Site 15, Building 1120 that protect human health and the environment in accordance with Chapter 62-780.680(2), F.A.C. The current recommendation for UST Site 15, Building 1120 is No Further Action (NFA) with Controls (including prohibit residential use of the site and prohibit use of groundwater). The following LUCs will be implemented:
 1. Establish an Institutional Control (IC) to prohibit future use or reuse of the Site for residential or residential-like land uses unless prior written approval is obtained from the FDEP. Residential and residential-like land use restrictions prohibit uses including, but not limited to, any form of housing, any kind of school (including pre-schools, elementary schools, and secondary schools), child care facilities, playgrounds, and adult convalescent or nursing care facilities.
 2. Establish an IC to prohibit all uses of groundwater from the surficial aquifer underlying the Site including, but not limited to, human consumption, dewatering, irrigation, heating/cooling purposes, and industrial processes unless prior written approval is obtained from the FDEP.
- The LUC objectives for UST Site 15, Building 1120 are to protect human health by limiting exposure to subsurface soils that exceed the residential direct exposure SCTL for benzo(a)pyrene and limiting exposure to groundwater that exceeds the GCTLs for 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene.
- NAS Pensacola with oversight for OLF Bronson has administrative controls in the form of “dig permits” that require approval for projects involving construction or subsurface disturbance. The LUC will be documented in the NAS Pensacola Base Mater Plan (BMP). After receiving notice from FDEP of Site Rehabilitation Closeout Order (SRCO)

finalization, the Navy will update the NAS Pensacola BMP to reflect the LUCs selected in the SRCO for UST Site 15, Building 1120. LUC information incorporated into the BMP will include a depiction of the UST Site 15, Building 1120 boundaries shown on Attachment 1.

- NAS Pensacola will conduct annual inspections and provide annual certification to FDEP to verify compliance with the LUC requirement, objectives and controls in this LUCIP. The following LUC oversight and maintenance procedures will apply to UST Site 15, Building 1120 in lieu of those otherwise specified in Section V of the NAS Pensacola LUC MOA (1999):
 1. Annual Site Inspections: Beginning upon notice by FDEP of SRCO finalization, NAS Pensacola personnel will conduct annual physical inspections of UST Site 15, Building 1120 and provide annual certification to FDEP to verify compliance with the LUC requirements, objectives and controls in this LUCIP. Inspections will document any violations of these controls and confirm that all necessary LUCs have been implemented and are properly maintained.
 2. Compliance Reporting: Beginning upon notice by FDEP of SRCO finalization, the NAS Pensacola Installation Restoration Manager will provide to FDEP an annual LUC Compliance Certificate for UST Site 15, Building 1120 consistent with Attachment 2.
- NAS Pensacola will provide prompt notice to FDEP (verbal report within 24 hours, written report within 5 days) if it discovers any activity on UST Site 15, Building 1120 that is inconsistent with the LUCIP requirements, objectives, or controls; or any action that may interfere with the effectiveness of the ICs.
- NAS Pensacola will provide notice to FDEP at least six months prior to any transfer or sale of UST Site 15, Building 1120 including transfers to private, state, or local entities so that FDEP can be involved in discussions to ensure that appropriate provisions are included in the transfer terms or conveyance documents to maintain effective ICs. If it is not possible for the facility to notify FDEP within six months prior to transfer or sale, then the facility will notify FDEP as soon as possible, but no later than 60 days prior to the transfer or sale of any property subject to ICs. In addition to the land transfer notice and discussion provisions above, The Navy further agrees to provide similar notice, within the same time frames, as to federal to federal transfer of property accountability and administrative control of UST Site 15, Building 1120. Review and comment opportunities afforded to FDEP as to federal to federal transfers will be in accordance with all applicable federal laws.

5. DECISION DOCUMENT

Tetra Tech NUS, Inc. (Tetra Tech), 2012. Risk-Based Closure Request for Underground Storage Tank Site 15, Building 1120, Outlying Landing Field Bronson, Pensacola, Florida. Tallahassee, Florida.

FDEP (Florida Department of Environmental Protection), Issued _____. Site Rehabilitation Closeout Order (SRCO) for Underground Storage Tank Site 15, Building 1120, Outlying Landing Field Bronson, Pensacola, Florida.

6. OTHER PERTINENT INFORMATION

Except as specified in Section 5 above, all existing terms and conditions contained in the NAS Pensacola LUC MOA (1999) between Navy, FDEP and U.S. EPA shall apply to this site.

7. GEOGRAPHIC LOCATION WHERE LAND USE CONTROLS APPLY

The area in which LUC will be applied is shown on Attachment 1 of this LUCIP. The area is outlined by the coordinates that define the corners of the LUC area. Specifically the coordinates include:

UST Site 15, Building 1120, Boundary Coordinates

	<u>Northing</u>	<u>Easting</u>
Northwest Corner	515,280	1,047,655.42
Northeast Corner	515,280.64	1,047,942.72
Southwest Corner	515,088.09	1,047,654.70
Southeast Corner	515,088.09	1,047,942.19

Attachment 1

Aerial photograph taken in 2010

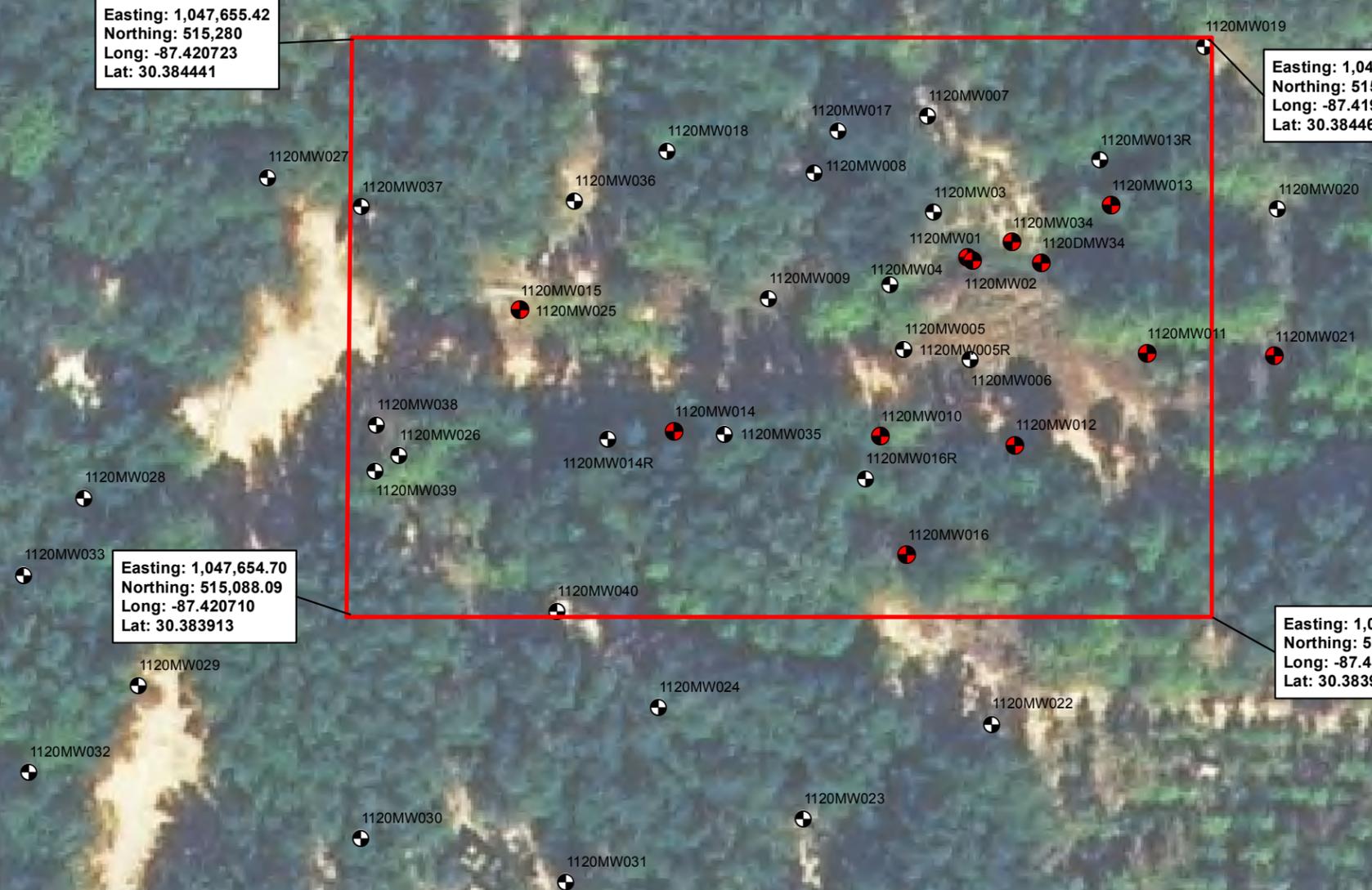
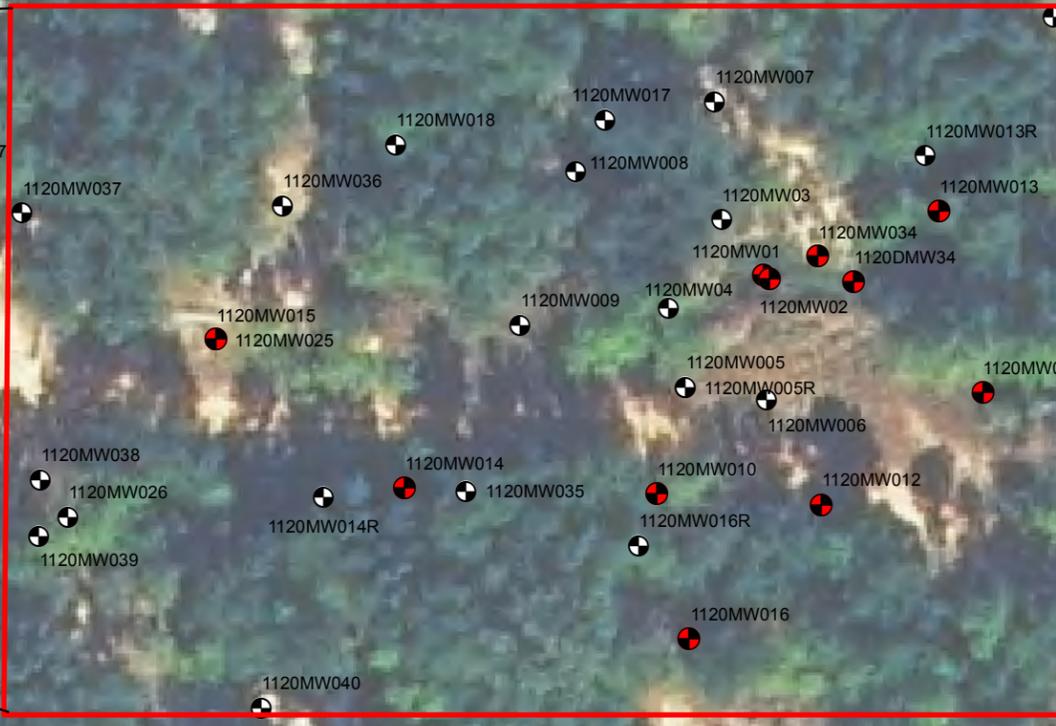


Easting: 1,047,655.42
 Northing: 515,280
 Long: -87.420723
 Lat: 30.384441

Easting: 1,047,942.72
 Northing: 515,280.64
 Long: -87.419812
 Lat: 30.384462

Easting: 1,047,654.70
 Northing: 515,088.09
 Long: -87.420710
 Lat: 30.383913

Easting: 1,047,942.19
 Northing: 515,088.09
 Long: -87.419798
 Lat: 30.383933



Legend

- Site 1120 Monitoring Wells
- Monitoring Well Not Found
- Site 15, Building 1120 LUC Boundary



DRAWN BY	DATE
J.MADDEN	04/11/13
CHECKED BY	DATE
G.WALKER	04/12/13
REVISED BY	DATE
SCALE AS NOTED	



LAND USE CONTROL BOUNDARY MAP
 SITE 15, BUILDING 1120
 OLF BRONSON
 PENSACOLA, FLORIDA

CONTRACT NUMBER	CTO NUMBER
03383	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO.	REV
2-1	0

Attachment 2

UST Site 1120 Annual LUC Compliance Certificate

Outlying Landing Field (OLF) Bronson
Naval Air Station Pensacola
FL9170024567

Property Owner: NAVAL AIR STATION PENSACOLA

Property Address: OLF BRONSON – BLUE ANGELS RECREATIONAL AREA, FLORIDA

Is evaluation for all or a portion of the Site 1120 property? _____

If evaluating only a portion of the site, attach a figure identifying the portion being evaluated.

This evaluation covers the period from **1 January** _____ **through 31 December** _____.

Form shall be submitted by **1 March** of the year following the reporting period.

Certification Checklist

	In Compliance	Non-Compliance	See Comment
1) No residential use within the Site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) No potable use of groundwater within the Site boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I, the undersigned, hereby certify that I am an authorized representative of the above named property owner and that the above described Land Use Controls have been complied with for the period noted. Alternately, any known deficiencies and owner's completed or planned actions to address such deficiencies are described in the attached Explanation of Deficiency(ies).

Signature – Greg Campbell (Navy)

Date

Signature – Patty Whittemore (Navy)

Date

Signature

Date

Signature

Date

Mail completed form(s) to:
Florida Dept of Environmental Protection
Division of Waste Management
Bureau of Waste Cleanup
Federal Programs Section
Attn: NAS Pensacola RPM; Mr. David Gabka
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Commanding Officer

Department of Navy; Naval Facilities Southeast
Attn: Environmental Restoration Division RPM; Ms. Patty Marajh-Whittmore
AJAX Street Building 135N
P.O. Box 30A
Jacksonville, FL 32212-0030

Commanding Officer
Naval Air Station Pensacola
Attn: Environmental Department Coordinator; Mr. Greg Campbell
310 John Tower Road
Pensacola, FL 32508-5000