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REMEDIAL ACTION ALTERNATIVES WAIVER REQUEST FOR SITE 351-2 NS MAYPORT FL
8/25/2013
TETRA TECH

Remedial Alternatives Analysis Waiver Request
Site 351-2
Naval Station Mayport
Jacksonville, Florida

This Remedial Alternative Analysis Waiver request was prepared for the United States Navy, Naval Facilities Engineering Command Southeast under Contract Task Order JM33 for the Comprehensive Long-term Environmental Action Navy Contract Number N62470-08-D-1001.

SITE LOCATION

Naval Station (NAVSTA) Mayport is located within the corporate limits of the City of Jacksonville, Duval County, Florida approximately 12 miles northeast of downtown Jacksonville and adjacent to the town of Mayport. The NAVSTA Mayport complex is located on the northern end of a peninsula bounded by the Atlantic Ocean to the east and the St. Johns River to the north and west. NAVSTA Mayport occupies the entire northern part of the peninsula except for the town of Mayport, which is located to the west between the Station and the St. Johns River.

Site 351-2 is located near the northeastern tip of the peninsula as shown on the Site Vicinity Map provided as Figure 1.

SITE DESCRIPTION

Site 351-2 is located on the northwestern side of Building 351 in the northeastern section of NAVSTA Mayport as shown on Figure 2. Building 351 is one of the primary buildings comprising the Training Site Detachment. The source area for the current investigation is located between Building 351 and Building 1388. Building 1388 is approximately 35 feet northwest of Building 351. A Proposed Land Use Control (LUC) Area map depicting the nearby buildings and well locations is provided as Figure 3-3.

On December 16, 2003, it was discovered that a release of 650 gallons of No. 2 fuel oil from a faulty day tank located at Building 351 spilled into a grassy area located between Buildings 351 and 1388. The site has been assessed and subsequent environmental effort to clean up and monitor this site has included two excavations and two injections of BIOX®, an oxidizing in-situ treatment of the soil and groundwater. Currently, the site is being monitored for free product once a quarter, and groundwater is sampled annually for volatiles, semivolatiles, and total recoverable petroleum hydrocarbons (TRPH).

SITE INVESTIGATIVE SUMMARY

A summary site investigations conducted at Site 351-2 is provided below:

- Soil Removal Action – Aerostar Environmental Services, June 2004
- Replacement of Existing Fuel Lines and Day Tanks, Buildings 1388 and 351 – J2 Engineering, November 2004
- Site Assessment – Tetra Tech, September 2007
- Remedial Action (Soil Removal) – Tetra Tech, January 2007
- BIOX® Treatability Study – Tetra Tech, May 2008
- BIOX® Treatability Study – Tetra Tech, March 2012
- Groundwater Monitoring and Free Product Removal – Tetra Tech, January 2010 to present

Analytical results for soil and groundwater are provided in the Table 1 and Table 2, respectively. Free product thickness and recovered volumes are provided in Table 3. TRPH (14.1 parts per millions in well MW06S) was the only constituent to exceeded Florida Department of Environmental Protection (FDEP)

Groundwater Cleanup Target Levels (GCTLs) during the most recent groundwater sampling event. Free product has not been present since July 2011.

REQUEST FOR REMEDIAL ACTION PLAN APPROVAL (ORDER

Based on site history and discussions conducted during NAVSTA Mayport Installation Restoration Partnering Team (Partnering Team) meetings, the path forward will be for Site 351-2 to enter into the Basewide Management Plan as an area restricted through LUCs. Tetra Tech will request on behalf of the Navy that the FDEP issue a Remedial Action Plan Approval (RAPA) Order that includes a Land Use Control Implementation Plan (LUCIP) for Site 351-2. John Winters of the FDEP has verbally approved this path forward and has agreed in pursuing a RAPA Order/LUCIP on behalf of the Navy.

The RAPA Order/LUCIP request is based upon the agreement between with the FDEP and Navy as follows:

1. Remaining soil impacts at Site 351-2 are a result of the smear zone of free product and impacted soils that were not excavated because they provide structural support for surrounding utilities and nearby buildings.
2. Groundwater concentrations have been reduced through two source removals and two BIOX® injections to near GCTLs.
3. Depth to groundwater is approximately 5.5 feet below land surface.
4. Establishment of a LUC area (see Figure 3) was determined through negotiations with FDEP representative Mr. John Winters.

Other site conditions that were included in discussion with the Partnering Team when deciding to request the RAPA Order/LUCIP included the presence of several utilities, close proximity to the covered concrete walk way of Building 1388, and the high foot traffic associated with this area. The level of effort to remove all soil in the smear zone impacted by free product against structural support columns, utilities, and the building was discussed relative the level of effort to remove or treat this small area of soil that is to be left in place. The decision was made to leave the soil in place and administratively apply Chapter 62-770, Florida Administrative Code, Risk Management Option IIA as the path forward. Soil impacts do not appear to be impacting the groundwater contaminant concentrations and any soil removal effort would be more cost effective if and when the Navy intends to do large scale work such as removing or renovating Buildings 351 and 1388.

The top 3 feet of soil at Site 351-2 is not impacted allowing for subsurface intrusive activities and limited site user exposure.

CONCLUSIONS

Multiple groundwater sample events, two BIOX® injection events, and a removal of soil impacts within 3 feet of land surface has been conducted at this site. The end result of these efforts is the removal of free product and the reduction of groundwater impacts to near FDEP GCTLs. Free product has not been present for more than a year.

It is recommended that a RAA waiver be submitted for approval and the site be entered into the NAVSTA Mayport basewide LUC program.

TABLES

Table 1
Fixed-base Laboratory Soil Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Compound	FDEP SCTLs			High	Medium	Low	Soil Pre-Characterization Samples		
				SB-04-03	SB-06-03	SB-14-03	SB-58-03	SB-53-03	SB-26-03
	Residential	Industrial	Leachability	08/12/05	08/12/05	08/12/05	3/22/2006	3/22/2006	3/22/2006
Volatile Organic Compounds (USEPA Method 8260) (mg/kg)									
1,2-DICHLOROBENZENE	880	5000	17	0.58 U	0.12 U	0.001 U	.0002 U	.0002 U	.0002 U
1,3-DICHLOROBENZENE	380	2200	7	0.58 U	0.12 U	0.001 U	.0002 U	.0002 U	.0002 U
1,4-DICHLOROBENZENE	6.4	9.9	2.2	0.58 U	0.12 U	0.001 U	.0001 U	.0001 U	.0001 U
BENZENE	1.2	1.7	0.007	0.58 U	0.12 U	0.001 U	.0001 U	.0001 U	.0001 U
CHLOROBENZENE	120	650	1.3	0.58 U	0.12 U	0.001 U	.0001 U	.0001 U	.0001 U
ETHYLBENZENE	1500	9200	0.6	**11**	**0.81**	0.001 U	.0002 U	.0002 U	.0002 U
M-XYLENE & P-XYLENE	130	700	0.02	**47**	**5**	0.002 U	.0003 U	.0003 U	.0003 U
METHYL TERT-BUTYL ETHER	4400	24000	0.09	0.58 U	0.12 U	0.001 U	.0001 U	.0001 U	.0001 U
O-XYLENE	130	700	0.2	**8.1**	**2.3**	0.001 U	.0001 U	.0001 U	.0001 U
TOLUENE	7500	60000	0.5	**1**	0.12 U	0.001	.0002 U	.0002 U	.0002 U
Semivolatle Organic Compounds (USEPA Method 8270 SIM) (mg/kg)									
1-METHYLNAPHTHALENE	200	1800	**3.1**	**47**	1.5	0.035 U	0.0112 U	0.0112 U	0.0110 U
2-METHYLNAPHTHALENE	210	2100	**8.5**	**72**	1.6	0.035 U	0.0104 U	0.0104 U	0.0103U
ACENAPHTHENE	2400	20000	2.1	**2.1**	0.27	0.035 U	0.00764 U	0.00764 U	0.00756 U
ACENAPHTHYLENE	1800	20000	27	0.63	0.082	0.035 U	0.0112 U	0.0112 U	0.0110 U
ANTHRACENE	21000	300000	2500	0.036 U	0.95	0.035 U	0.00726 U	0.00726 U	0.00719 U
BENZO(A)ANTHRACENE			0.8	0.094	0.041 U	0.035 U	0.00726 U	0.00726 U	0.00719 U
BENZO(A)PYRENE	0.1	0.7	8	0.047	0.041 U	0.035 U	0.00726 U	0.00726 U	0.00719 U
BENZO(B)FLUORANTHENE			2.4	0.044	0.041 U	0.035 U	0.00561 U	0.00561 U	0.00555 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.3	0.3	0.035 U	0.0107 U	0.0107 U	0.0106 U
BENZO(K)FLUORANTHENE			24	0.036 U	0.041 U	0.035 U	0.00726 U	0.00726 U	0.00719 U
CHRYSENE			77	0.18	0.041	0.035 U	0.00768 U	0.00768 U	0.00760 U
DIBENZO(A,H)ANTHRACENE			0.7	0.036 U	0.041 U	0.035 U	0.0118 U	0.0118 U	0.0117 U
FLUORANTHENE	3200	59000	1200	0.56	0.16	0.035 U	0.00937 U	0.00937 U	0.00927 U
FLUORENE	2600	33000	160	5.2	0.69	0.035 U	0.00663 U	0.00663 U	0.00656 U
INDENO(1,2,3-CD)PYRENE			6.6	0.036 U	0.041 U	0.035 U	0.0122 U	0.0122 U	0.0121 U
NAPHTHALENE	55	300	1.2	**23**	0.59	0.035 U	0.0128 U	0.0128 U	0.0127 U
PHENANTHRENE	2200	36000	250	13	1	0.035 U	0.00726 U	0.00726 U	0.00719 U
PYRENE	2400	45000	880	12	2.2	0.035 U	0.00937 U	0.00937 U	0.00927 U
Petroleum Hydrocarbons (FL -PRO) (mg/kg)									
HYDROCARBONS (C8-C40)	460	2700	340	**18000**	**4300**	7 U	5.91 U	5.91 U	5.84 U

Table 1
Fixed-base Laboratory Soil Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Compound	FDEP SCTLs			Soil Pre-Characterization Samples				Notes:
				SB-37-03	SB-30-03	SB-32-03	SB-31-03	
	Residential	Industrial	Leachability	3/22/2006	3/22/2006	3/22/2006	3/22/2006	High, medium, and low samples were collected per FDEP Rule 62-770.
Volatile Organic Compounds (USEPA Method 8260) (mg/kg)								
1,2-DICHLOROBENZENE	880	5000	17	.0002 U	.0002 U	.0002 U	.0002 U	
1,3-DICHLOROBENZENE	380	2200	7	.0002 U	.0002 U	.0002 U	.0002 U	
1,4-DICHLOROBENZENE	6.4	9.9	2.2	.0001 U	.0001 U	.0001 U	.0001 U	Pre-characterization samples were used to define the excavation area.
BENZENE	1.2	1.7	0.007	.0001 U	.0001 U	.0001 U	.0001 U	
CHLOROBENZENE	120	650	1.3	.0001 U	.0001 U	.0001 U	.0001 U	
ETHYLBENZENE	1500	9200	0.6	.0002 U	.0002 U	.0002 U	.0002 U	
M-XYLENE & P-XYLENE	130	700	0.02	.0003 U	.0003 U	.0003 U	.0003 U	
METHYL TERT-BUTYL ETHER	4400	24000	0.09	.0001 U	.0001 U	.0001 U	.0001 U	
O-XYLENE	130	700	0.2	.0001 U	.0001 U	.0001 U	.0001 U	
TOLUENE	7500	60000	0.5	.0002 U	.0002 U	.0002 U	.0002 U	
Semivolatle Organic Compounds (USEPA Method 8270 SIM) (mg/kg)								
1-METHYLNAPHTHALENE	200	1800	**3.1**	0.0114 U	0.0125 U	0.0110 U	0.126 U	
2-METHYLNAPHTHALENE	210	2100	**8.5**	0.0106 U	0.0116 U	0.0103 U	0.0188 U	
ACENAPHTHENE	2400	20000	2.1	0.00781 U	0.00854 U	0.00756 U	0.00864 U	
ACENAPHTHYLENE	1800	20000	27	0.0114 U	0.0125 U	0.0110 U	0.0126 U	
ANTHRACENE	21000	300000	2500	0.00742 U	0.00812 U	0.00719 U	0.00821 U	
BENZO(A)ANTHRACENE			0.8	0.00742 U	0.00812 U	0.00719 U	0.00821 U	
BENZO(A)PYRENE	0.1	0.7	8	0.00742 U	0.00812 U	0.00719 U	0.00821 U	
BENZO(B)FLUORANTHENE			2.4	0.00573 U	0.00627 U	0.00555 U	0.00634 U	
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0110 U	0.0120 U	0.0106 U	0.0121 U	
BENZO(K)FLUORANTHENE			24	0.00742 U	0.00812 U	0.00719 U	0.00821 U	
CHRYSENE			77	0.00785 U	0.00859 U	0.00760 U	0.00869 U	
DIBENZO(A,H)ANTHRACENE			0.7	0.0120 U	0.0132 U	0.0117 U	0.0133 U	
FLUORANTHENE	3200	59000	1200	0.00957 U	0.0105 U	0.00927 U	0.0106 U	
FLUORENE	2600	33000	160	0.00677 U	0.00741 U	0.00656 U	0.0075 U	
INDENO(1,2,3-CD)PYRENE			6.6	0.0125 U	0.0136 U	0.0121 U	0.0138 U	
NAPHTHALENE	55	300	1.2	0.0131 U	0.0144 U	0.0127 U	0.0145 U	
PHENANTHRENE	2200	36000	250	0.00742 U	0.00812 U	0.00719 U	0.00821 U	
PYRENE	2400	45000	880	0.00957 U	0.0105 U	0.00927 U	0.0106 U	
Petroleum Hydrocarbons (FL -PRO) (mg/kg)								
HYDROCARBONS (C8-C40)	460	2700	340	6.03 U	171	5.84 U	6.68 U	

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-01S								
			Jan 2006	Jul 2008	Feb 2010	May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011
Benzene	1	100	0.20 U	1.0 U	0.21 U	0.27 U	0.27 U	0.21 U	0.20 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.30 U	1.0 U	0.20 U	0.26 U	0.26 U	0.20 U	0.20 U	0.250 U	0.250 U
Toluene	40	400	0.20 U	1.0 U	0.20 U	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U
Xylene (total)	20	200	1.0 U	1.0 U	0.54 U	0.50 U	0.50 U	0.54 U	0.52 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.02 U	0.046 U	0.24 U	0.21	0.10	0.61	1.8	1.02	0.407
2-Methylnaphthalene	28	280	0.02 U	0.046 U	0.24 U	0.031 U	0.052 I	0.24 U	0.73	0.447	0.303
Acenaphthene	20	200	0.14	0.041 U	0.48 U	0.13	0.15	0.51	0.58	0.551	0.236
Anthracene	2100	21000	0.02 U	0.046 U	0.48 U	0.014 U	0.075 I	0.48 U	0.24 U	0.0463 U	0.0463 U
Fluoranthene	280	2800	0.01 U	0.046 U	0.24 U	0.011 U	0.038 I	0.24 U	0.24 U	0.0463 U	0.0463 U
Fluorene	280	2800	0.02 U	0.046 U	0.48 U	0.023 I	0.097 I	0.48 U	0.38 U	0.0463 U	0.0463 U
Naphthalene	14	140	0.02 U	0.046 U	0.24 U	0.056 I	0.079 I	0.52	1.4	0.0610 I	0.477 U
Phenanthrene	210	2100	0.02 U	0.046 U	0.24 U	0.011 U	0.096 I	0.24 U	0.24 U	0.0463 U	0.0463 U
Pyrene	210	2100	0.02 U	0.046 U	0.24 U	0.022 I	0.056 I	0.24 U	0.24 U	0.0463 U	0.0463 U
TRPH mg/L	5	50	0.536	0.85	0.509	2.0	0.32 I	1.13	1.81	0.864	0.209 I

Constituents	GCTLs	NADCs	MW-01S							
			Jul 2011	Oct 2011	Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.250 U	0.250 U	0.50 U	1.25 U	0.250 U	0.50 U	1.25 U	1.25 U
Ethylbenzene	30	300	0.250 U	0.250 U	0.50 U	1.25 U	0.250 U	0.50 U	1.25 U	1.25 U
Toluene	40	400	0.250 U	0.250 U	0.50 U	1.25 U	0.250 U	0.50 U	1.25 U	1.25 U
Xylene (total)	20	200	0.750 U	0.750 U	1.5 U	3.75 U	0.750 U	1.50 U	3.75 U	3.75 U
1-Methylnaphthalene	28	280	0.0631 I	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.183 I	0.0463 U	0.0476 U
2-Methylnaphthalene	28	280	0.0592 I	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Acenaphthene	20	200	0.373	0.0463 U	0.119 J	0.0463 U	0.0463 U	0.164 I	0.227	0.0476 U
Anthracene	2100	21000	0.0703 I	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Fluoranthene	280	2800	0.140 IV	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Fluorene	280	2800	0.0463 U	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Naphthalene	14	140	0.0463 U	0.0463 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Phenanthrene	210	2100	0.337 V	0.0587 IV	0.0943 U	0.0926 U	0.0926 U	0.0926 U	0.0926 U	0.0952 U
Pyrene	210	2100	0.109 I	0.0463 U	0.0562 J	0.0463 U	0.0463 U	0.0569 I	0.0463 U	0.0476 U
TRPH mg/L	5	50	0.855	0.160 U	0.202 J	0.157 U	0.157 U	0.376 Q,X,I	0.157 U	0.160 U

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-02S								
			Jan 2006	Jul 2008	Feb 2010	May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011
Benzene	1	100	0.2 U	1.0 U	0.21 U	0.27 U	0.27 U	0.21 U	0.20 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.31 U	1.0 U	0.20 U	0.26 U	0.26 U	0.20 U	0.20 U	0.250 U	0.250 U
Toluene	40	400	0.2 U	1.0 U	0.20 U	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U
Xylene (total)	20	200	NA	1.0 U	0.54 U	0.50 U	0.50 U	0.54 U	0.52 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.02 U	0.068	0.24 U	0.025 U	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U
2-Methylnaphthalene	28	280	0.02 U	0.046	0.24 U	0.031 U	0.031 U	0.24 U	0.38 U	0.0463 U	0.0463 U
Acenaphthene	20	200	0.02 U	0.046 U	0.48 U	0.011 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U
Anthracene	2100	21000	0.02 U	0.028 U	0.48 U	0.014 U	0.030 U	0.48 U	0.24 U	0.0463 U	0.0463 U
Fluoranthene	280	2800	0.01 U	0.046 U	0.24 U	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Fluorene	280	2800	0.02 U	0.046 U	0.48 U	0.014 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U
Naphthalene	14	140	0.05 U	0.046 U	0.24 U	0.032 I	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U
Phenanthrene	210	2100	0.02 U	0.053	0.24 U	0.023 I	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Pyrene	210	2100	0.02 U	0.041 U	0.24 U	0.016 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
TRPH mg/L	5	50	0.094 U	0.46	0.16 U	0.054 U	0.17 U	0.16 U	0.14 U	0.157 U	0.157 U

Constituents	GCTLs	NADCs	MW-02S							
			Jul 2011	Oct 2011	Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.250 U	0.250 U	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.250 U	0.250 U	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Toluene	40	400	0.250 U	0.250 U	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Xylene (total)	20	200	0.750 U	0.750 U	0.750 U	0.75 U	0.750 U	0.750 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.0463 U	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
2-Methylnaphthalene	28	280	0.0463 U	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Acenaphthene	20	200	0.0529 IV	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Anthracene	2100	21000	0.0463 U	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Fluoranthene	280	2800	0.101 IV	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0529 I
Fluorene	280	2800	0.0696 IV	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Naphthalene	14	140	0.0463 U	0.0481 U	0.0427 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Phenanthrene	210	2100	0.314 QV	0.0481 U	0.0943 U	0.0926 U	0.0926 U	0.0926 U	0.0926 U	0.0930 U
Pyrene	210	2100	0.0827 IV	0.0481 U	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0511 I
TRPH mg/L	5	50	0.157 U	0.167 U	0.63 U	0.157 U	0.170 U	0.157 X,Q,U	0.157 U	0.160 U

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-03S								
			Jan 2006	Jul 2008	Feb 2010	May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011
Benzene	1	100	**42.8**	NS	0.56 U	**1.8**	0.27 U	0.48	0.54	0.250 U	0.985
Ethylbenzene	30	300	**37.8**	NS	8.0	6.0	2.0	0.77	0.86	1.07	4.56
Toluene	40	400	1.5	NS	0.22 U	0.97 I	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U
Xylene (total)	20	200	NA	NS	11.2	6.8	1.6	3.7	2.1	2.27 I	0.750 U
1-Methylnaphthalene	28	280	**75.5**	NS	26	12	**30**	5.3	15.8	0.161 I	15.8
2-Methylnaphthalene	28	280	**122**	NS	23.6	1.3	**34**	1.0	12.0	0.0463 U	9.93
Acenaphthene	20	200	2.4	NS	1.5	1.9	1.5	1.0	1.6	0.0463 U	1.41
Anthracene	2100	21000	0.08 U	NS	0.48 U	0.014 U	0.15 I	0.48 U	0.24 U	0.0463 U	0.0463 U
Fluoranthene	280	2800	0.05 U	NS	0.24 U	0.078 I	0.15 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Fluorene	280	2800	5.32	NS	3.7	3.1	3.6	1.6	4.3	0.0463 U	0.0463 U
Naphthalene	14	140	102	NS	**23.8**	8.9	**24**	1.9	2.9	0.274	12.0
Phenanthrene	210	2100	5.06	NS	2.0	0.062 I	3.6	0.31	2.9	0.0463 U	1.39
Pyrene	210	2100	0.56	NS	0.89 U	0.88	1.2	2.2	1.6	1.01	1.86
TRPH mg/L	5	50	3.55	NS	3.44	3.6	4.2	**5.86**	2.69	2.62	**5.01**

Constituents	GCTLs	NADCs	MW-03S							
			Jul 2011	Oct 2011	Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.547 I	0.250 U	1.25 U	1.25 U	0.250 U	0.50 U	1.25 U	1.25 U
Ethylbenzene	30	300	3.13	1.45	2.9 J	1.25 U	0.510 I	0.68 D, I	1.25 U	1.25 U
Toluene	40	400	0.320 I	0.250 U	1.25 U	1.25 U	0.250 U	0.50 U	1.25 U	1.25 U
Xylene (total)	20	200	8.72	5.29	7.72 J	3.75 U	1.36 I	2.10 D,I	3.75 U	3.75 U
1-Methylnaphthalene	28	280	17.1	10.8	19.0	0.0463 U	1.56	3.24	6.66	2.45
2-Methylnaphthalene	28	280	10.1	8.01	16.1	0.0463 U	1.07	2.44	5.97	1.16
Acenaphthene	20	200	1.96 V	1.25	1.94	0.0463 U	0.302	0.529	0.724	0.437
Anthracene	2100	21000	0.453 V	0.360	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Fluoranthene	280	2800	0.266 V	0.347	0.0472 U	0.0463 U	0.0463 U	0.138 I	0.0463 U	0.139 I
Fluorene	280	2800	4.18 V	2.72	4.63	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.867
Naphthalene	14	140	10.2	5.79	13.5	0.0463 U	1.12	2.04	5.85	1.65
Phenanthrene	210	2100	2.07 QV	1.69 V	0.0943 U	0.0926 U	0.0926 U	0.0926 U	0.0926 U	0.260 I
Pyrene	210	2100	2.29 V	3.82	13.7	1.48	1.30	2.25	1.73	1.46
TRPH mg/L	5	50	4.91	**7.26**	**11.9**	1.56	1.25	3.01 X,Q	**6.64**	**5.57**

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-04D								
			Jan 2006	Jul 2008	Feb 2010	May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011
Benzene	1	100	0.2 U	1.0 U	0.21 U	0.27 U	0.27 U	0.21 U	0.20 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.62 U	1.0 U	0.20 U	0.26 U	0.26 U	0.20 U	0.20 U	0.250 U	0.250 u
Toluene	40	400	0.2 U	1.0 U	0.20 U	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U
Xylene (total)	20	200	NA	1.0 U	0.54 U	0.50 U	0.50 U	0.54 U	0.52 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	10.1	0.046 U	0.24 U	0.025 U	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U
2-Methylnaphthalene	28	280	13.5	0.046 U	0.24 U	0.031 U	0.031 U	0.24 U	0.38 U	0.0463 U	0.0463 U
Acenaphthene	20	200	0.75	0.046 U	0.48 U	0.011 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U
Anthracene	2100	21000	0.02 U	0.032 U	0.48 U	0.014 U	0.030 U	0.48 U	0.24 U	0.0463 U	0.0463 U
Fluoranthene	280	2800	0.01 U	0.046 U	0.24 U	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Fluorene	280	2800	2.05	0.046 U	0.48 U	0.014 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U
Naphthalene	14	140	1.85	0.046 U	0.24 U	0.023 U	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U
Phenanthrene	210	2100	2.68	0.061	0.24 U	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Pyrene	210	2100	0.45	0.046 U	0.24 U	0.016 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U
TRPH mg/L	5	50	0.604	0.46 U	0.16 U	0.054 U	0.17 U	0.16 U	0.14 U	0.157 U	0.266 I

Constituents	GCTLs	NADCs	MW-04D							
			Jul 2011	Oct 2011	Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.250 U	0.250 U	NA	0.25 U	NA	NA	NA	NA
Ethylbenzene	30	300	0.250 U	0.250 U	NA	0.25 U	NA	NA	NA	NA
Toluene	40	400	0.250 U	0.250 U	NA	0.25 U	NA	NA	NA	NA
Xylene (total)	20	200	0.750 U	0.750 U	NA	0.75 U	NA	NA	NA	NA
1-Methylnaphthalene	28	280	0.0463 U	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
2-Methylnaphthalene	28	280	0.0463 U	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Acenaphthene	20	200	0.0491 IV	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Anthracene	2100	21000	0.0479 IV	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Fluoranthene	280	2800	0.122 IV	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Fluorene	280	2800	0.0670 IV	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Naphthalene	14	140	0.0465 I	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
Phenanthrene	210	2100	0.433 QV	0.0566 IV	NA	0.0926 U	NA	NA	NA	NA
Pyrene	210	2100	0.0785 IV	0.0481 U	NA	0.0463 U	NA	NA	NA	NA
TRPH mg/L	5	50	0.157 U	0.170 U	NA	0.157 U	NA	NA	NA	NA

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-05S								
			Jan 2006	Feb 2006	Feb 2010	May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011
Benzene	1	100	NS	**87.5**	0.92 U	**1.4**	0.32 I	0.49	**1.5**	**1.21**	0.606 I
Ethylbenzene	30	300	NS	14.2	0.6 U	0.26 U	0.26 U	0.20 U	0.20 U	0.732 I	1.69
Toluene	40	400	NS	0.20 U	0.20 U	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U
Xylene (total)	20	200	NS	**42.1**	1.0 U	0.50 U	0.50 U	0.54 U	0.52 U	0.954 I	2.06 I
1-Methylnaphthalene	28	280	NS	**55.6**	**56.9**	**110**	22	8.7	6.9	4.70	2.09
2-Methylnaphthalene	28	280	NS	**87.6**	**75.0**	**150**	9.8	0.72	0.38 U	0.0463 U	0.223
Acenaphthene	20	200	NS	2.43	2.0	4.0	1.4	1.0	1.1	1.48	0.773
Anthracene	2100	21000	NS	0.02 U	0.48 U	0.14 U	0.15 U	0.48 U	0.26	0.0463 U	0.0463 U
Fluoranthene	280	2800	NS	0.05 I	0.24 U	0.11 U	0.15 U	0.24 U	0.24 U	0.0463 U	0.0463 U
Fluorene	280	2800	NS	4.89	4.8	9.3	2.5	1.8	1.5	1.17	1.00
Naphthalene	14	140	NS	**151**	**47.2**	**120**	**18**	1.1	0.38 U	0.943	1.93
Phenanthrene	210	2100	NS	3.58	4.6	6.8	0.65	1.3	1.4	0.624	0.0463 U
Pyrene	210	2100	NS	0.08 I	0.88 U	0.91 I	0.95	0.77	0.68	0.482	0.676
TRPH mg/L	5	50	NS	3.94	3.87	2.9	1.7	1.35	**7.34**	**6.31**	1.27

Constituents	GCTLs	NADCs	MW-05S							
			Jul 2011	Oct 2011	Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	1.01	0.250 U	1.25 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Ethylbenzene	30	300	2.21	0.250 U	1.25 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Toluene	40	400	0.250 U	0.250 U	1.25 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Xylene (total)	20	200	0.750 U	0.750 U	3.75 U	3.75 U	3.75 U	1.50 U	3.75 U	3.75 U
1-Methylnaphthalene	28	280	3.19	3.17	**34.3**	4.1	2.70	2.12	1.69	2.80
2-Methylnaphthalene	28	280	0.548	1.46	**30.5**	0.584 J	1.12	0.846	0.746	1.00
Acenaphthene	20	200	1.45 V	0.607	1.94	0.774 J	0.389	0.278	0.233	0.356
Anthracene	2100	21000	0.213 V	0.0463 U	0.0427 U	0.231 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Fluoranthene	280	2800	0.303 V	0.0463 U	0.0427 U	1.1	0.0766 I	0.0840 I	0.0475 I	0.0700 I
Fluorene	280	2800	1.39 V	0.0463 U	2.66	1.1	0.0463 U	0.0463 U	0.0463 U	0.641
Naphthalene	14	140	1.64	4.97	**44.2**	1.48	1.76	1.06	0.802	1.41
Phenanthrene	210	2100	1.52 QV	0.0463 U	0.0943 U	0.581 J	0.0926 U	0.0926 U	0.0926 U	0.394
Pyrene	210	2100	0.859 V	0.396	0.52	0.504 J	0.411	0.401	0.433	0.443
TRPH mg/L	5	50	3.17	**6.52**	**10**	2.03	1.43	3.07 X,Q	0.553 I	0.768

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-06S							
			May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011	July 2011	Oct 2011
Benzene	1	100	**6.0**	0.27 U	0.38	0.25	NS	0.648 I	**2.88**	0.250 U
Ethylbenzene	30	300	0.70 I	2.3	1.3	0.43	NS	0.664 I	9.68	0.250 U
Toluene	40	400	0.30 U	0.30 U	0.20 U	0.20 U	NS	0.250 U	0.957 I	0.250 U
Xylene (total)	20	200	1.2	1.1	0.58	0.52 U	NS	0.750 U	12.8	0.750 U
1-Methylnaphthalene	28	280	**110**	**45**	8.5	4.3	NS	6.1	24.6 D	1.81
2-Methylnaphthalene	28	280	**140**	**58**	6.9	4.9	NS	4.1	24.4 D	0.0814 I
Acenaphthene	20	200	3.7	2.4	0.69	0.38 U	NS	0.0463 U	2.13 DV	0.414
Anthracene	2100	21000	0.14 U	0.40 I	0.48 U	0.24 U	NS	0.0463 U	0.463 U	0.0463 U
Fluoranthene	280	2800	0.11 U	0.40 I	0.24 U	0.24 U	NS	0.0463 U	0.577 DIV	0.0737 I
Fluorene	280	2800	8.4	6.8	1.9	0.79	NS	2.42	4.69	0.0463 U
Naphthalene	14	140	**180**	**36**	4.0	3.6	NS	1.47	**14.3 D**	0.0463 U
Phenanthrene	210	2100	5.1	8.0	1.2	0.81	NS	0.0463 U	6.40 DV	0.396 V
Pyrene	210	2100	0.55 I	4.3	1.0	0.43	NS	1.13	5.20 DV	0.588
TRPH mg/L	5	50	**14**	3.0	1.32	1.19	NS	**5.49**	**115**	0.781

Constituents	GCTLs	NADCs	MW-06S					
			Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	NS	1.25 U	1.45 D, I	0.820 D,I	1.25 U	1.25 U
Ethylbenzene	30	300	NS	1.25 U	3.45 D, I	18.5 D	1.25 U	1.25 U
Toluene	40	400	NS	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Xylene (total)	20	200	NS	3.75 U	5.60 D, I	**30.3 D**	3.75 U	3.75 U
1-Methylnaphthalene	28	280	NS	1.71	3.04	**30.8**	14.6	0.0476 U
2-Methylnaphthalene	28	280	NS	1	1.25	**31.5**	2.49	0.0476 U
Acenaphthene	20	200	NS	0.231 U	0.0463 U	1.14	1.33	0.965
Anthracene	2100	21000	NS	0.231 U	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Fluoranthene	280	2800	NS	0.453 J	0.0463 U	0.0463 U	0.0463 U	0.0476 U
Fluorene	280	2800	NS	0.453 J	0.0463 U	1.16	2.46	0.663
Naphthalene	14	140	NS	0.339 J	14	**33**	3.74	0.0476 U
Phenanthrene	210	2100	NS	0.463 U	0.0926 U	0.712	0.0926 U	0.0952 U
Pyrene	210	2100	NS	0.495 J	0.0463 U	0.465	0.46	0.0476 U
TRPH mg/L	5	50	NS	0.437 J	**30.2**	**10.6 D**	**5.71**	**14.1 D**

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-07S							
			May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011	Jul 2011	Oct 2011
Benzene	1	100	0.27 U	0.27 U	0.21 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.26 U	0.26 U	0.20 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Toluene	40	400	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Xylene (total)	20	200	0.50 U	0.50 U	0.54 U	0.52 U	0.750 U	0.750 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.025 U	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U	0.105 I	0.0472 U
2-Methylnaphthalene	28	280	0.031 U	0.031 U	0.24 U	0.38 U	0.0463 U	0.0463 U	0.0807 I	0.0472 U
Acenaphthene	20	200	0.011 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U	0.0764 IV	0.0472 U
Anthracene	2100	21000	0.014 U	0.030 U	0.48 U	0.24 U	0.0463 U	0.0463 U	0.0463 U	0.0472 U
Fluoranthene	280	2800	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U	0.139 IV	0.0472 U
Fluorene	280	2800	0.014 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U	0.0463 U	0.0472 U
Naphthalene	14	140	0.027 I	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U	0.0876 I	0.0472 U
Phenanthrene	210	2100	0.021 I	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U	0.636 QV	0.0514 IV
Pyrene	210	2100	0.037 I	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U	0.0851 IV	0.0472 U
TRPH mg/L	5	50	0.054 U	0.17 U	0.16 U	0.14 U	0.157 U	0.157 U	0.157 U	0.170 U

Constituents	GCTLs	NADCs	MW-07S					
			Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Toluene	40	400	0.250 U	0.25 U	0.250 U	0.250 U	0.250 U	0.250 U
Xylene (total)	20	200	0.750 U	0.75 U	0.750 U	0.750 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
2-Methylnaphthalene	28	280	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Acenaphthene	20	200	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Anthracene	2100	21000	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Fluoranthene	280	2800	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Fluorene	280	2800	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Naphthalene	14	140	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
Phenanthrene	210	2100	0.0943 U	0.0926 U	0.0926 U	0.0926 U	0.0926 U	0.0930 U
Pyrene	210	2100	0.0472 U	0.0463 U	0.0463 U	0.0463 U	0.0463 U	0.0465 U
TRPH mg/L	5	50	0.63 U	0.157 U	0.157 U	0.157 X,Q,U	0.157 U	0.159 U

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Constituents	GCTLs	NADCs	MW-08S							
			May 2010	Jul 2010	Oct 2010	Dec 2010	Jan 2011	Apr 2011	Jul 2011	Oct 2011
Benzene	1	100	0.27 U	0.27 U	0.21 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Ethylbenzene	30	300	0.26 U	0.26 U	0.20 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Toluene	40	400	0.30 U	0.30 U	0.20 U	0.20 U	0.250 U	0.250 U	0.250 U	0.250 U
Xylene (total)	20	200	0.50 U	0.50 U	0.54 U	0.52 U	0.750 U	0.750 U	0.750 U	0.750 U
1-Methylnaphthalene	28	280	0.025 U	0.030 U	0.24 U	0.38 U	0.0463 U	0.0463 U	0.0463 U	0.0467 U
2-Methylnaphthalene	28	280	0.031 U	0.031 U	0.24 U	0.38 U	0.0463 U	0.0463 U	0.0463 U	0.0467 U
Acenaphthene	20	200	0.011 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U	0.0463 U	0.0467 U
Anthracene	2100	21000	0.014 U	0.030 U	0.48 U	0.24 U	0.0463 U	0.0463 U	0.0463 U	0.0467 U
Fluoranthene	280	2800	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U	0.104 IV	0.0467 U
Fluorene	280	2800	0.014 U	0.030 U	0.48 U	0.38 U	0.0463 U	0.0463 U	0.0638 IV	0.0467 U
Naphthalene	14	140	0.041 I	0.030 I	0.24 U	0.38 U	0.0463 U	0.0463 U	0.0463 U	0.0467 U
Phenanthrene	210	2100	0.011 U	0.030 U	0.24 U	0.24 U	0.0463 U	0.0463 U	0.367 QV	0.0467 U
Pyrene	210	2100	0.15 U	0.11	0.24 U	0.24 U	0.0463 U	0.0463 U	0.103 IV	0.0467 U
TRPH mg/L	5	50	0.12 I	0.30 I	1.03	0.586	0.452 I	1.92	0.157 U	1.32

Constituents	GCTLs	NADCs	MW-08S					
			Mar 2012	Jun 2012	Aug 2012	Oct 2012	Jan 2013	Apr 2013
Benzene	1	100	0.250 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Ethylbenzene	30	300	0.250 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Toluene	40	400	0.250 U	1.25 U	1.25 U	0.50 U	1.25 U	1.25 U
Xylene (total)	20	200	0.750 U	3.75 U	3.75 U	1.50 U	3.75 U	3.75 U
1-Methylnaphthalene	28	280	0.0472 U	0.0463 U	0.341 D, I	0.595	0.273	0.278
2-Methylnaphthalene	28	280	0.0472 U	0.0463 U	0.231 U	0.492	0.107 I	0.0884 I
Acenaphthene	20	200	0.0472 U	0.0463 U	0.231 U	0.195	0.0463 U	0.111 I
Anthracene	2100	21000	0.0472 U	0.0463 U	0.231 U	0.231 U	0.0463 U	0.0465 U
Fluoranthene	280	2800	0.0472 U	0.0463 U	0.231 U	0.231 U	0.0463 U	0.0698 I
Fluorene	280	2800	0.0472 U	0.0463 U	0.231 U	0.231 U	0.0463 U	0.0465 U
Naphthalene	14	140	0.0472 U	0.0463 U	0.231 U	0.231 U	0.0463 U	0.0747 I
Phenanthrene	210	2100	0.0943 U	0.0926 U	0.463 U	0.463 U	0.0926 U	0.170 I
Pyrene	210	2100	0.0472 U	0.0568 U	0.231 U	0.231 U	0.25	0.303
TRPH mg/L	5	50	0.63 U	1	**8.43**	3.16 X,Q	1.67	0.746 N

Table 2
Monitoring Well Analytical Results

Site 351-2
Naval Station Mayport
Jacksonville, Florida

Notes:
All values are micrograms per liter, except where noted.
Bold represents locations where GCTLs were exceeded.
Shaded cells represent exceedances of NADCs.
NA = not analyzed
NS = not sampled due to heavy sheen
NADC = Natural Attenuation Default Concentration

D = Denotes a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard cuve.

I = Result is greater than the detection limit, but less than the reporting limit.
J = Indicates the reported result is estimated.
N = The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within contro limits for the associated parameter.
Q = The relative percent difference and/or percent recovery exceeded limits in the assocaited blank spike and/or blank spike duplicate.
U = Indicates the analyte was analyzed, but was not detected or the concentration was below the detection limit.
V = Compound was also detected in the laboratory method blank.
X = The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limti on the high side.

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	MW03S		MW05S		RW01		RW04	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
04/07/08	1.40	1500*	1.10	300*	0.00	0	0.00	0
05/29/08	0.55	2000*	0.16	200*	0.00	0	0.00	0
06/20/08	1.85	3000*	0.00	0	0.00	0	0.00	0
07/15/08	0.60	2350*	0.75	300*	0.00	0	0.00	0
07/25/08	0.44	1500*	0.50	300*	0.00	0	0.00	0
08/01/08	0.27	2500*	0.00	0	0.00	0	0.00	0
08/08/08	0.08	200*	0.10	100*	0.00	0	0.00	0
08/14/08	0.31	2500*	0.00	0	0.00	0	0.00	0
08/28/08	0.35	2500*	0.00	0	0.00	0	0.00	0
09/04/08	0.50	3500*	0.00	0	0.00	0	0.00	0
09/08/08	0.35	2000*	0.00	0	0.00	0	0.00	0
09/18/08	0.31	2400*	0.00	0	0.00	0	0.00	0
09/25/08	0.31	3500*	0.00	0	0.00	0	0.00	0
10/02/08	0.43	3500*	0.00	0	0.00	0	0.00	0
10/07/08	0.30	3000*	0.00	0	0.00	0	0.00	0
10/16/08	0.24	3500*	0.00	0	0.00	0	0.00	0
10/27/08	0.13	4000*	0.00	0	0.00	0	0.00	0
11/07/08	0.20	3000*	0.00	0	0.00	0	0.00	0
11/26/08	0.23	4000*	0.00	0	0.00	0	0.00	0
01/09/09	0.34	500*	0.00	0	0.00	0	0.00	0
01/15/09	0.54	1000*	0.00	0	0.00	0	0.00	0
01/22/09	0.00	1000**	0.00	0	0.00	0	0.00	0
01/30/09	2.49	6000*	0.00	0	0.00	0	0.00	0
02/02/09	0.26	2000*	0.00	0	0.00	0	0.00	0
02/09/09	0.94	2000*	0.00	0	0.00	0	0.00	500**
02/19/09	0.00	0	0.00	0	0.00	0	0.00	500**
02/26/09	1.02	2000*	0.00	0	0.00	0	0.00	500**
02/27/09	0.88	2500*	0.00	0	0.00	0	0.00	0
03/02/09	1.03	3000*	0.00	0	0.00	0	0.00	0
03/13/09	1.09	3000*	0.00	0	0.00	0	0.00	0
03/19/09	1.11	3000*	0.00	0	0.00	0	0.00	500**
03/23/09	0.00	1000**	0.00	0	0.00	500**	0.00	0
04/01/09	0.00	0	0.00	0	0.00	0	0.00	200**
04/13/09	0.60	1000*	0.00	0	0.00	0	0.00	0
04/16/09	0.37	2000*	0.00	0	0.00	0	0.00	0
04/22/09	0.00	0	0.00	0	0.00	0	0.00	0
06/05/09	2.10	2000*	0.00	0	0.00	0	0.00	0
06/08/09	0.00	0	0.00	0	0.00	0	0.00	0
06/24/09	0.00	450**	0.00	0	0.00	0	0.00	0
07/01/09	0.00	250**	0.00	0	0.00	0	0.00	0
07/07/09	0.00	250**	0.00	0	0.00	0	0.00	0
07/17/09	0.00	500**	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	MW03S		MW05S		RW01		RW04	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
07/31/09	0.00	100**	0.00	0	0.00	0	0.00	0
08/05/09	0.00	0	0.00	0	0.00	0	0.00	0
08/10/09	0.00	0	0.00	0	0.00	0	0.00	0
08/19/09	0.00	0	0.00	0	0.00	0	0.00	0
09/03/09	0.00	0	0.00	0	0.00	0	0.00	0
10/02/09	0.00	0	0.00	0	0.00	0	0.00	0
10/07/09	0.00	0	0.00	0	0.00	0	0.00	0
10/13/09	0.00	0	0.00	0	0.00	0	0.00	0
10/21/09	0.00	0	0.00	0	0.00	0	0.00	0
10/27/09	0.00	0	0.00	0	0.00	0	0.00	0
11/18/09	0.00	0	0.00	0	0.00	0	0.00	0
11/25/09	0.00	0	0.00	0	0.00	0	0.00	0
12/08/09	0.00	0	0.00	0	0.00	0	0.00	0
12/09/09	0.00	0	0.00	0	0.00	0	0.00	0
12/30/09	0.00	0	0.00	0	0.00	0	0.00	0
01/06/10	0.00	0	0.00	0	0.00	0	0.00	0
01/11/10	0.00	0	0.00	0	0.00	0	0.00	0
01/29/10	0.00	0	0.00	0	0.00	0	0.00	0
02/04/10	0.00	0	0.00	0	0.00	0	0.00	0
02/11/10	0.00	0	0.00	0	0.00	0	0.00	0
02/18/10	0.00	0	0.00	0	0.00	0	0.00	0
02/26/10	0.00	0	0.00	0	0.00	0	0.00	0
03/05/10	0.00	0	0.00	0	0.00	0	0.00	0
03/10/10	0.00	0	0.00	0	0.00	0	0.00	0
03/19/10	0.00	0	0.00	0	0.00	0	0.00	0
03/25/10	0.00	0	0.00	0	0.00	0	0.00	0
04/01/10	0.00	0	0.00	0	0.00	0	0.00	0
04/09/10	0.00	0	0.00	0	0.00	0	0.00	0
04/16/10	0.00	0	0.00	0	0.00	0	0.00	0
04/19/10	0.00	0	0.00	0	0.00	0	0.00	0
04/28/10	0.00	0	0.00	0	0.00	0	0.00	0
05/07/10	0.00	0	0.00	0	0.00	0	0.00	0
05/14/10	0.00	0	0.00	0	0.00	0	0.00	0
05/21/10	0.00	0	0.00	0	0.00	0	0.00	0
05/27/10	0.00	0	0.00	0	0.00	0	0.00	0
07/30/10	0.00	0	0.00	0	0.00	0	0.00	0
08/13/10	0.00	0	0.00	0	0.00	0	0.00	0
08/18/10	0.00	0	0.00	0	0.00	0	0.00	0
08/27/10	0.00	0	0.00	0	0.00	0	0.00	0
09/01/10	0.00	0	0.00	0	0.00	0	0.00	0
09/17/10	0.00	0	0.00	0	0.00	0	0.00	0
09/23/10	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	MW03S		MW05S		RW01		RW04	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
10/01/10	0.00	0	0.00	0	0.00	0	0.00	0
10/07/10	0.00	0	0.00	0	0.00	0	0.00	0
10/15/10	0.00	0	0.00	0	0.00	0	0.00	0
10/21/10	0.00	0	0.00	0	0.00	0	0.00	0
10/29/10	0.00	0	0.00	0	0.00	0	0.00	0
11/03/10	0.00	0	0.00	0	0.00	0	0.00	0
11/12/10	0.00	0	0.00	0	0.00	0	0.00	0
11/23/10	0.00	0	0.00	0	0.00	0	0.00	0
12/08/10	0.00	0	0.00	0	0.00	0	0.00	0
12/17/10	0.00	0	0.00	0	0.00	0	0.00	0
12/22/10	0.00	0	0.00	0	0.00	0	0.00	0
12/27/10	0.00	0	0.00	0	0.00	0	0.00	0
01/06/11	0.00	0	0.00	0	0.00	0	0.00	0
01/27/11	0.00	0	0.00	0	0.00	0	0.00	0
02/04/11	0.00	0	0.00	0	0.00	0	0.00	0
02/11/11	0.00	0	0.00	0	0.00	0	0.00	0
02/17/11	0.00	0	0.00	0	0.00	0	0.00	0
02/25/11	0.00	0	0.00	0	0.00	0	0.00	0
03/03/11	0.00	0	0.00	0	0.00	0	0.00	0
03/10/11	0.00	0	0.00	0	0.00	0	0.00	0
03/14/11	0.00	0	0.00	0	0.00	0	0.00	0
03/24/11	0.00	0	0.00	0	0.00	0	0.00	0
04/01/11	0.00	0	0.00	0	0.00	0	0.00	0
04/08/11	0.00	0	0.00	0	0.00	0	0.00	0
04/14/11	0.00	0	0.00	0	0.00	0	0.00	0
04/22/11	0.00	0	0.00	0	0.00	0	0.00	0
05/26/11	0.00	0	0.00	0	0.00	0	0.00	0
05/12/11	0.00	0	0.00	0	0.00	0	0.00	0
05/19/11	0.00	0	0.00	0	0.00	0	0.00	0
05/27/11	0.00	0	0.00	0	0.00	0	0.00	0
06/02/11	0.00	0	0.00	0	0.00	0	0.00	0
06/09/11	0.00	0	0.00	0	0.00	0	0.00	0
06/24/11	0.00	0	NM	NM	NM	NM	0.00	0
07/06/11	0.00	0	0.00	0	NM	NM	0.00	0
07/20/11	0.12	500	0.00	0	0.00	0	0.00	0
07/29/11	0.00	0	0.00	0	0.00	0	0.00	0
08/03/11	0.00	0	0	0	NM	0	NM	NM
08/12/11	0.00	0	NM	0	NM	0	NM	0
08/23/11	0.00	0	0	0	0.00	0	NM	0
08/31/11	0.00	0	0	0	0.00	0	0	0
09/06/11	0.00	0	0	0	0.00	0	0	0
09/19/11	0.00	0	NM	NM	NM	NM	NM	NM

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	MW03S		MW05S		RW01		RW04	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
09/28/11	0.00	0	NM	NM	0.00	0	0.00	0
10/03/11	0.00	0	0.00	0	0.00	0	0.00	0
10/11/11	0.00	0	0.00	0	0.00	0	0.00	0
10/20/11	0.00	0	0.00	0	0.00	0	0.00	0
10/27/11	0.00	0	0.00	0	0.00	0	0.00	0
11/01/11	0.00	0	0.00	0	0.00	0	0.00	0
11/09/11	0.00	0	0.00	0	0.00	0	0.00	0
11/16/11	0.00	0	0.00	0	0.00	0	0.00	0
11/23/11	0.00	0	0.00	0	0.00	0	0.00	0
12/02/11	0.00	0	0.00	0	0.00	0	0.00	0
12/09/11	0.00	0	0.00	0	0.00	0	0.00	0
01/05/12	0.00	0	0.00	0	0.00	0	0.00	0
01/12/12	0.00	0	0.00	0	0.00	0	0.00	0
01/20/12	0.00	0	0.00	0	0.00	0	0.00	0
01/27/12	0.00	0	0.00	0	0.00	0	0.00	0
02/03/12	0.00	0	0.00	0	0.00	0	0.00	0
02/10/12	0.00	0	0.00	0	0.00	0	0.00	0
02/17/12	0.00	0	0.00	0	0.00	0	0.00	0
02/24/12	0.00	0	0.00	0	0.00	0	0.00	0
03/09/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
04/11/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
05/10/12	0.00	0	0.00	0	0.00	0	0.00	0
05/23/12	0.00	0	0.00	0	0.00	0	0.00	0
06/22/12	0.00	0	0.00	0	0.00	0	0.00	0
07/06/12	0.00	0	0.00	0	0.00	0	0.00	0
07/20/12	0.00	0	0.00	0	0.00	0	0.00	0
07/27/12	0.00	0	0.00	0	0.00	0	0.00	0
08/03/12	0.00	0	0.00	0	0.00	0	0.00	0
08/10/12	0.00	0	0.00	0	0.00	0	0.00	0
08/17/12	0.00	0	0.00	0	0.00	0	0.00	0
08/24/12	0.00	0	0.00	0	0.00	0	0.00	0
08/31/12	0.00	0	0.00	0	0.00	0	0.00	0
09/12/12	0.00	0	0.00	0	0.00	0	0.00	0
10/12/12	0.00	0	0.00	0	0.00	0	0.00	0
10/19/12	0.00	0	0.00	0	0.00	0	0.00	0
10/26/12	0.00	0	0.00	0	0.00	0	0.00	0
11/16/12	0.00	0	0.00	0	0.00	0	0.00	0
12/13/12	0.00	0	0.00	0	0.00	0	0.00	0
01/11/13	0.00	0	0.00	0	0.00	0	0.00	0
03/01/13	0.00	0	0.00	0	0.00	0	0.00	0
04/02/13	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW07		RW08		RW09		RW10	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
06/20/08	0.00	0	0.00	0	0.00	0	0.00	0
07/15/08	0.00	0	0.00	0	0.00	0	0.00	0
07/25/08	0.00	0	0.00	0	0.00	0	0.00	0
08/01/08	0.00	0	0.00	0	0.00	0	0.00	0
08/08/08	0.00	0	0.00	0	0.00	0	0.00	0
08/14/08	0.00	0	0.00	0	0.00	0	0.00	0
08/28/08	0.00	0	0.00	0	0.00	0	0.00	0
09/04/08	0.00	0	0.00	0	0.00	0	0.00	0
09/08/08	0.00	0	0.00	0	0.00	0	0.00	0
09/18/08	0.00	0	0.00	0	0.00	0	0.00	0
09/25/08	0.00	0	0.00	0	0.00	0	0.00	0
10/02/08	0.00	0	0.00	0	0.00	0	0.00	0
10/07/08	0.00	0	0.00	0	0.00	0	0.00	0
10/16/08	0.00	0	0.00	0	0.00	0	0.00	0
10/27/08	0.00	0	0.00	0	0.00	0	0.00	0
11/07/08	0.00	0	0.00	0	0.00	0	0.00	0
11/26/08	0.00	0	0.00	0	0.00	0	0.00	0
01/09/09	0.00	0	0.00	0	0.00	0	0.00	0
01/15/09	0.00	0	0.00	0	0.00	0	0.00	0
01/22/09	0.00	0	0.00	0	0.00	0	0.00	0
01/30/09	0.00	0	0.00	0	0.00	0	0.00	0
02/02/09	0.00	0	0.00	0	0.00	0	0.00	0
02/09/09	0.00	0	1.23	3000*	0.00	0	0.00	0
02/19/09	0.00	0	1.23	3000*	0.00	0	0.00	0
02/26/09	0.00	0	0.15	500*	0.00	0	0.00	0
02/27/09	0.00	0	0.00	0	0.00	0	0.00	0
03/02/09	0.00	0	0.00	1000**	0.00	200**	0.00	0
03/13/09	0.00	0	0.20	1000*	0.00	250**	0.00	0
03/19/09	0.00	0	0.00	500**	0.00	0	0.16	800*
03/23/09	0.00	0	0.00	500**	0.00	0	0.00	0
04/01/09	0.00	200**	0.00	500**	0.00	200**	0.00	500**
04/13/09	0.00	0	0.00	0	0.00	0	0.00	0
04/16/09	0.00	0	0.00	0	0.00	0	0.00	0
04/22/09	0.00	0	0.00	0	0.00	0	0.00	0
06/05/09	0.00	0	0.00	0	0.00	0	0.00	0
06/08/09	0.00	0	0.00	0	0.00	0	0.00	0
06/24/09	0.00	0	0.00	0	0.00	0	0.00	0
07/01/09	0.00	0	0.00	0	0.00	0	0.00	0
07/07/09	0.00	0	0.00	0	0.00	0	0.00	0
07/17/09	0.00	0	0.00	0	0.00	0	0.00	0
07/31/09	0.00	0	0.00	100**	0.00	0	0.00	0
08/05/09	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW07		RW08		RW09		RW10	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
08/10/09	0.00	0	0.00	0	0.00	0	0.00	0
08/19/09	0.00	0	0.00	0	0.00	0	0.00	0
09/03/09	0.00	0	0.00	0	0.00	0	0.00	0
10/02/09	0.00	0	0.00	0	0.00	0	0.00	0
10/07/09	0.00	0	0.00	0	0.00	0	0.00	0
10/13/09	0.00	0	0.00	0	0.00	0	0.00	0
10/21/09	0.00	0	0.00	0	0.00	0	0.00	0
10/27/09	0.00	0	0.00	0	0.00	0	0.00	0
11/18/09	0.00	0	0.00	0	0.00	0	0.00	0
11/25/09	0.00	0	0.00	0	0.00	0	0.00	0
12/08/09	0.00	0	0.00	0	0.00	0	0.00	0
12/09/09	0.00	0	0.00	0	0.00	0	0.00	0
12/30/09	0.00	0	0.00	0	0.00	0	0.00	0
01/06/10	0.00	0	0.00	0	0.00	0	0.00	0
01/11/10	0.00	0	0.00	0	0.00	0	0.00	0
01/29/10	0.00	0	0.00	0	0.00	0	0.00	0
02/04/10	0.00	0	0.00	0	0.00	0	0.00	0
02/11/10	0.00	0	0.00	0	0.00	0	0.00	0
02/18/10	0.00	0	0.00	0	0.00	0	0.00	0
02/26/10	0.00	0	0.00	0	0.00	0	0.00	0
03/05/10	0.00	0	0.00	0	0.00	0	0.00	0
03/10/10	0.00	0	0.00	0	0.00	0	0.00	0
03/19/10	0.00	0	0.00	0	0.00	0	0.00	0
03/25/10	0.00	0	0.00	0	0.00	0	0.00	0
04/01/10	0.00	0	0.00	0	0.00	0	0.00	0
04/09/10	0.00	0	0.00	0	0.00	0	0.00	0
04/16/10	0.00	0	0.00	0	0.00	0	0.00	0
04/19/10	0.00	0	0.00	0	0.00	0	0.00	0
04/28/10	0.00	0	0.00	500 **	0.00	0	0.00	0
05/07/10	0.00	0	0.00	500 **	0.00	0	0.00	0
05/14/10	0.00	0	0.00	500 **	0.00	0	0.00	0
05/21/10	0.00	0	0.00	0	0.00	0	0.00	0
05/27/10	0.00	0	0.00	0	0.00	0	0.00	0
07/30/10	0.00	0	0.90	945**	0.00	0	0.00	0
08/13/10	0.00	0	0.11	1000**	0.00	0	0.00	0
08/18/10	0.00	0	0.00	1000**	0.00	0	0.00	500**
08/27/10	0.00	0	0.00	1000**	0.00	0	0.00	0
09/01/10	0.00	0	0.14	1000**	0.00	200**	0.00	200**
09/17/10	0.00	0	0.00	0	0.00	0	0.00	0
09/23/10	0.00	0	0.00	0	0.00	0	0.00	0
10/01/10	0.00	0	0.00	0	0.00	0	0.00	0
10/07/10	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW07		RW08		RW09		RW10	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
10/15/10	0.00	0	0.00	0	0.00	0	0.00	0
10/21/10	0.00	0	0.00	0	0.00	0	0.00	0
10/29/10	0.00	0	0.00	0	0.00	0	0.00	0
11/03/10	0.00	0	0.00	0	0.00	0	0.00	0
11/12/10	0.00	0	0.00	0	0.00	0	0.00	0
11/23/10	0.00	0	0.00	0	0.00	0	0.00	0
12/08/10	0.00	0	0.00	0	0.00	0	0.00	0
12/17/10	0.00	0	0.00	0	0.00	0	0.00	0
12/22/10	0.00	0	0.00	0	0.00	0	0.00	0
12/27/10	0.00	0	0.00	0	0.00	0	0.00	0
01/06/11	0.00	0	0.00	0	0.00	0	0.00	0
01/27/11	0.00	0	0.00	0	0.00	0	0.00	0
02/04/11	0.00	0	0.00	0	0.00	0	0.00	0
02/11/11	0.00	0	0.00	0	0.00	0	0.00	0
02/17/11	0.00	0	0.00	0	0.00	0	0.00	0
02/25/11	0.00	0	0.00	0	0.00	0	0.00	0
03/03/11	0.00	0	0.00	0	0.00	0	0.00	0
03/10/11	0.00	0	0.00	0	0.00	0	0.00	0
03/14/11	0.00	0	0.00	0	0.00	0	0.00	0
03/24/11	0.00	0	0.00	0	0.00	0	0.00	0
04/01/11	0.00	0	0.00	0	0.00	0	0.00	0
04/08/11	0.00	0	0.00	0	0.00	0	0.00	0
04/14/11	0.00	0	0.00	0	0.00	0	0.00	0
04/22/11	0.00	0	0.00	0	0.00	0	0.00	0
05/26/11	0.00	0	0.00	0	0.00	0	0.00	0
05/12/11	0.00	0	0.00	0	0.00	0	0.00	0
05/19/11	0.00	0	0.00	0	0.00	0	0.00	0
05/27/11	0.00	0	0.00	0	0.00	0	0.00	0
06/02/11	0.00	0	0.00	0	0.00	0	0.00	0
06/09/11	0.00	0	0.00	0	0.00	0	0.00	0
06/24/11	0.00	0	0.00	0	0.00	0	0.00	0
07/06/11	0.00	0	0.00	0	0.00	0	0.00	0
07/20/11	0.00	0	0.00	0	0.00	0	0.00	0
07/29/11	0.00	0	0.00	0	0.00	0	0.00	0
08/03/11	NM	NM	0.00	0	0.00	0	0.00	0
08/12/11	NM	0	0.00	0	0.00	0	0.00	150
08/23/11	0.00	0	0.00	0	0.00	0	0.00	0
08/31/11	0.00	0	0.00	0	0.00	0	0.00	0
09/06/11	0.00	0	0.00	0	0.00	0	0.00	0
09/19/11	NM	NM	0.00	0	0.00	0	0.00	0
09/28/11	0.00	0	0.00	0	0.00	0	0.00	0
10/03/11	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW07		RW08		RW09		RW10	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
10/11/11	0.00	0	0.00	0	0.00	0	0.00	0
10/20/11	0.00	0	0.00	0	0.00	0	0.00	0
10/27/11	0.00	0	0.00	0	0.00	0	0.00	0
11/01/11	0.00	0	0.00	0	0.00	0	0.00	0
11/09/11	0.00	0	0.00	0	0.00	0	0.00	0
11/16/11	0.00	0	0.00	0	0.00	0	0.00	0
11/23/11	0.00	0	0.00	0	0.00	0	0.00	0
12/02/11	0.00	0	0.00	0	0.00	0	0.00	0
12/09/11	0.00	0	0.00	0	0.00	0	0.00	0
01/05/12	0.00	0	0.00	0	0.00	0	0.00	0
01/12/12	0.00	0	0.00	0	0.00	0	0.00	0
01/20/12	0.00	0	0.00	0	0.00	0	0.00	0
01/27/12	0.00	0	0.00	0	0.00	0	0.00	0
02/03/12	0.00	0	0.00	0	0.00	0	0.00	0
02/10/12	0.00	0	0.00	0	0.00	0	0.00	0
02/17/12	0.00	0	0.00	0	0.00	0	0.00	0
02/24/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
04/11/12	0.00	0	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0	0.00	0
05/10/12	0.00	0	0.00	0	0.00	0	0.00	0
05/23/12	0.00	0	0.00	0	0.00	0	0.00	0
06/22/12	0.00	0	0.00	0	0.00	0	0.00	0
07/06/12	0.00	0	0.00	0	0.00	0	0.00	0
07/20/12	0.00	0	0.00	0	0.00	0	0.00	0
07/27/12	0.00	0	0.00	0	0.00	0	0.00	0
08/03/12	0.00	0	0.00	0	0.00	0	0.00	0
08/10/12	0.00	0	0.00	0	0.00	0	0.00	0
08/17/12	0.00	0	0.00	0	0.00	0	0.00	0
08/24/12	0.00	0	0.00	0	0.00	0	0.00	0
08/31/12	0.00	0	0.00	0	0.00	0	0.00	0
09/12/12	0.00	0	0.00	0	0.00	0	0.00	0
10/12/12	0.00	0	0.00	0	0.00	0	0.00	0
10/19/12	0.00	0	0.00	0	0.00	0	0.00	0
10/26/12	0.00	0	0.00	0	0.00	0	0.00	0
11/16/12	0.00	0	0.00	0	0.00	0	0.00	0
12/13/12	0.00	0	0.00	0	0.00	0	0.00	0
01/11/13	0.00	0	0.00	0	0.00	0	0.00	0
03/01/13	0.00	0	0.00	0	0.00	0	0.00	0
04/02/13	0.00	0	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW11		RW12		RW13	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
04/07/08	0.00	0	0.00	0	0.00	0
05/29/08	0.00	0	0.00	0	0.00	0
06/20/08	0.00	0	0.00	0	0.00	0
07/15/08	0.00	0	0.00	0	0.00	0
07/25/08	0.00	0	0.00	0	0.00	0
08/01/08	0.00	0	0.00	0	0.00	0
08/08/08	0.00	0	0.00	0	0.00	0
08/14/08	0.00	0	0.00	0	0.00	0
08/28/08	0.00	0	0.00	0	0.00	0
09/04/08	0.00	0	0.00	0	0.00	0
09/08/08	0.00	0	0.00	0	0.00	0
09/18/08	0.00	0	0.00	0	0.00	0
09/25/08	0.00	0	0.00	0	0.00	0
10/02/08	0.00	0	0.00	0	0.00	0
10/07/08	0.00	0	0.00	0	0.00	0
10/16/08	0.00	0	0.00	0	0.00	0
10/27/08	0.00	0	0.00	0	0.00	0
11/07/08	0.00	0	0.00	0	0.00	0
11/26/08	0.00	0	0.00	0	0.00	0
01/09/09	0.00	0	0.00	0	0.00	0
01/15/09	0.00	0	0.00	0	0.00	0
01/22/09	0.00	0	0.00	0	0.00	0
01/30/09	0.00	0	0.00	0	0.00	0
02/02/09	0.00	0	0.00	0	0.00	0
02/09/09	0.00	0	0.00	0	0.00	0
02/19/09	0.00	0	0.00	0	0.00	0
02/26/09	0.00	0	0.00	0	0.00	0
02/27/09	0.00	0	0.00	0	0.00	0
03/02/09	0.00	0	0.00	0	0.00	0
03/13/09	0.00	0	0.00	0	0.00	0
03/19/09	0.00	0	0.00	0	0.00	1000**
03/23/09	0.00	0	0.00	0	0.20	500*
04/01/09	0.00	200**	0.00	500**	0.00	500**
04/13/09	0.00	0	0.30	800*	0.00	500**
04/16/09	0.00	0	0.00	0	0.50	1000*
04/22/09	0.00	0	0.00	0	0.00	0
06/05/09	0.00	0	0.40	1000*	0.67	1000*
06/08/09	0.00	0	0.00	0	0.67	500*
06/24/09	0.00	200**	0.20	600*	0.00	400**
07/01/09	0.00	0	0.00	0	0.00	0
07/07/09	0.00	0	0.00	0	0.00	0
07/17/09	0.00	0	0.00	0	0.00	0
07/31/09	0.00	0	0.00	0	0.00	500**

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW11		RW12		RW13	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
08/05/09	0.00	0	0.00	0	0.00	0
08/10/09	0.00	0	0.00	0	0.00	0
12/09/09	0.00	0	0.00	0	0.00	0
12/30/09	0.00	0	0.00	0	0.00	0
01/06/10	0.00	0	0.00	0	0.00	0
01/11/10	0.00	0	0.00	0	0.00	0
01/29/10	0.00	0	0.00	0	0.00	0
02/04/10	0.00	0	0.00	0	0.00	0
02/11/10	0.00	0	0.00	0	0.00	0
02/18/10	0.00	0	0.00	0	0.00	0
02/26/10	0.00	0	0.00	0	0.00	0
03/05/10	0.00	0	0.00	0	0.00	0
03/10/10	0.00	0	0.00	0	0.00	0
03/19/10	0.00	0	0.00	0	0.00	0
03/25/10	0.00	0	0.00	0	0.00	0
04/01/10	0.00	0	0.00	0	0.00	0
04/09/10	0.00	0	0.00	0	0.00	0
04/16/10	0.00	0	0.00	0	0.00	0
04/19/10	0.00	0	0.00	0	0.00	0
04/28/10	0.00	0	0.00	0	0.00	0
05/07/10	0.00	0	0.00	0	0.00	0
05/14/10	0.00	0	0.00	0	0.00	0
05/21/10	0.00	0	0.00	0	0.00	0
05/27/10	0.00	0	0.00	0	0.00	0
07/30/10	0.00	0	0.00	0	0.00	0
08/13/10	0.00	0	0.00	0	0.00	0
08/18/10	0.00	0	0.00	0	0.00	0
08/27/10	0.00	0	0.00	0	0.00	0
09/01/10	0.00	200**	0.00	0	0.00	0
09/17/10	0.00	0	0.00	0	0.00	0
09/23/10	0.00	0	0.00	0	0.00	0
10/01/10	0.00	0	0.00	0	0.00	0
10/07/10	0.00	0	0.00	0	0.00	0
10/15/10	0.00	0	0.00	0	0.00	0
10/21/10	0.00	0	0.00	0	0.00	0
10/29/10	0.00	0	0.00	0	0.00	0
11/03/10	0.00	0	0.00	0	0.00	0
11/12/10	0.00	0	0.00	0	0.00	0
11/23/10	0.00	0	0.00	0	0.00	0
12/08/10	0.00	0	0.00	0	0.00	0
12/17/10	0.00	0	0.00	0	0.00	0
12/22/10	0.00	0	0.00	0	0.00	0

Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW11		RW12		RW13	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
12/27/10	0.00	0	0.00	0	0.00	0
01/06/11	0.00	0	0.00	500 **	0.00	0
01/27/11	0.00	0	0.00	0	0.00	0
02/04/11	0.00	0	0.00	0	0.00	0
02/11/11	0.00	0	0.00	0	0.00	0
02/17/11	0.00	0	0.00	0	0.00	0
02/25/11	0.00	0	0.00	0	0.00	0
03/03/11	0.00	0	0.00	0	0.00	0
03/10/11	0.00	0	0.00	0	0.00	0
03/14/11	0.00	0	0.00	0	0.00	0
03/24/11	0.00	0	0.00	0	0.00	0
04/01/11	0.00	0	0.00	0	0.00	0
04/08/11	0.00	0	0.00	0	0.00	0
04/14/11	0.00	0	0.00	0	0.00	0
04/22/11	0.00	0	0.00	0	0.00	0
05/26/11	0.00	0	0.00	0	0.00	0
05/12/11	0.00	0	0.00	0	0.00	0
05/19/11	0.00	0	0.00	0	0.00	0
05/27/11	0.00	0	0.00	0	0.00	0
06/02/11	0.00	0	0.00	0	0.00	0
06/09/11	0.00	0	0.05	500	0.00	0
06/24/11	0.00	0	0.00	0	0.00	0
07/06/11	0.00	0	0.00	0	0.00	0
07/20/11	0.00	0	0.00	0	0.00	0
07/29/11	0.00	0	0.00	0	0.00	0
08/03/11	0.00	0	0.00	0	0.00	0
08/12/11	0.00	0	0.00	0	0.00	0
08/23/11	0.00	0	0.00	0	0.00	0
08/31/11	0.00	0	0.00	0	0.00	0
09/06/11	0.00	0	0.00	0	0.00	0
09/19/11	0.00	0	0.00	0	0.00	0
09/28/11	0.00	0	0.00	0	0.00	0
10/03/11	0.00	0	0.00	0	0.00	0
10/11/11	0.00	0	0.00	0	0.00	0
10/20/11	0.00	0	0.00	0	0.00	0
10/27/11	0.00	0	0.00	0	0.00	0
11/01/11	0.00	0	0.00	0	0.00	0
11/09/11	0.00	0	0.00	0	0.00	0
11/16/11	0.00	0	0.00	0	0.00	0
11/23/11	0.00	0	0.00	0	0.00	0
12/02/11	0.00	0	0.00	0	0.00	0
12/09/11	0.00	0	0.00	0	0.00	0

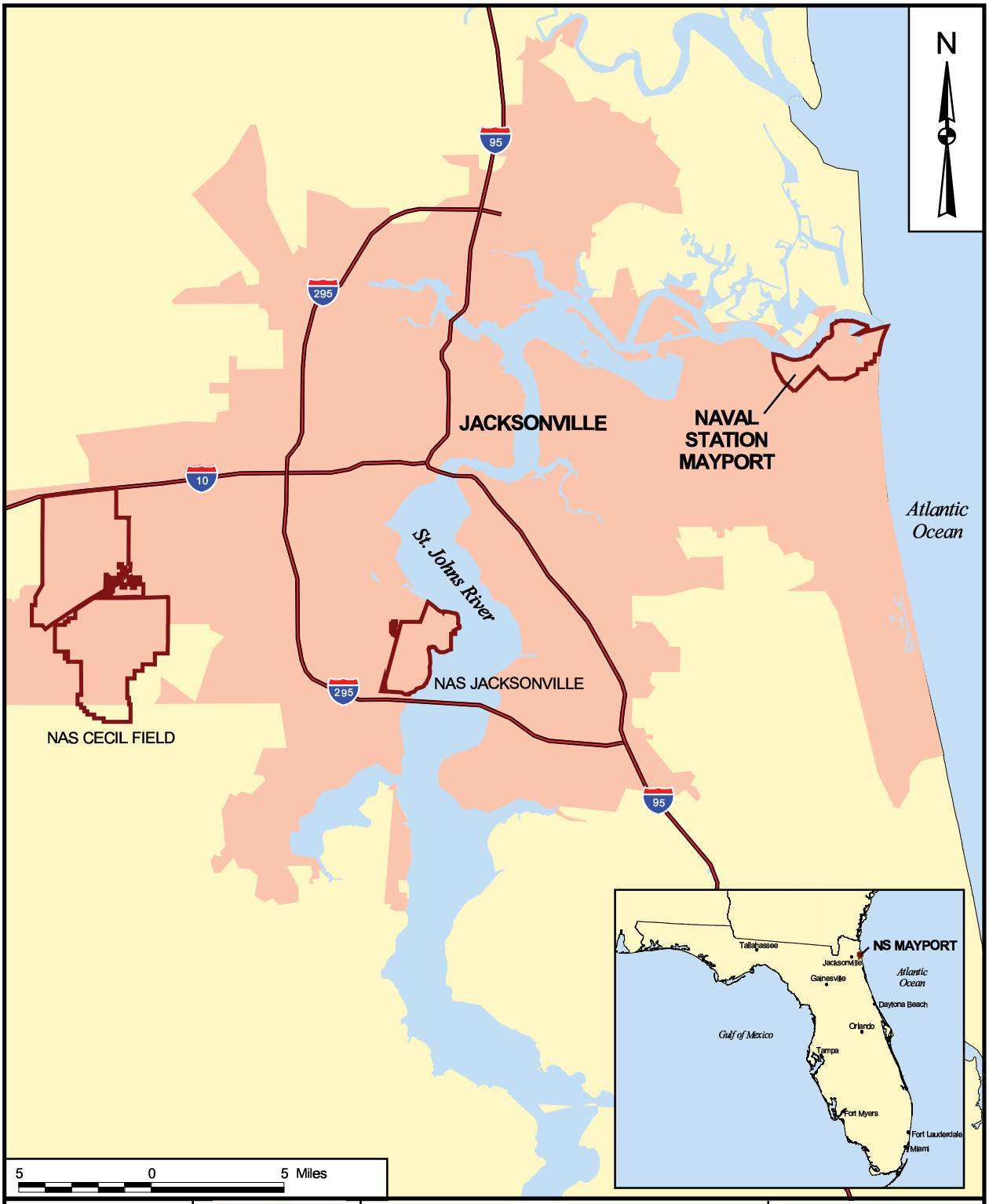
Table 3
Free Product Measurements and Recovery

Site 351-2
Naval Station Mayport
Jacksonville, Florida

DATE	RW11		RW12		RW13	
	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)	THICKNESS (feet)	VOLUME RECOVERED (mL)
01/05/12	0.00	0	0.00	0	0.00	0
01/12/12	0.00	0	0.00	0	0.00	0
01/20/12	0.00	0	0.00	0	0.00	0
01/27/12	0.00	0	0.00	0	0.00	0
02/03/12	0.00	0	0.00	0	0.00	0
02/10/12	0.00	0	0.00	0	0.00	0
02/17/12	0.00	0	0.00	0	0.00	0
02/24/12	0.00	0	0.00	0	0.00	0
03/09/12	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0
04/11/12	0.00	0	0.00	0	0.00	0
04/19/12	0.00	0	0.00	0	0.00	0
05/10/12	0.00	0	0.00	0	0.00	0
05/23/12	0.00	0	0.00	0	0.00	0
06/22/12	0.00	0	0.00	0	0.00	0
07/06/12	0.00	0	0.00	0	0.00	0
07/20/12	0.00	0	0.00	0	0.00	0
07/27/12	0.00	0	0.00	0	0.00	0
08/03/12	0.00	0	0.00	0	0.00	0
08/10/12	0.00	0	0.00	0	0.00	0
08/17/12	0.00	0	0.00	0	0.00	0
08/24/12	0.00	0	0.00	0	0.00	0
08/31/12	0.00	0	0.00	0	0.00	0
09/12/12	0.00	0	0.00	0	0.00	0
10/12/12	0.00	0	0.00	0	0.00	0
10/19/12	0.00	0	0.00	0	0.00	0
10/26/12	0.00	0	0.00	0	0.00	0
11/16/12	0.00	0	0.00	0	0.00	0
12/13/12	0.00	0	0.00	0	0.00	0
01/11/13	0.00	0	0.00	0	0.00	0
03/01/13	0.00	0	0.00	0	0.00	0
04/02/13	0.00	0	0.00	0	0.00	0

Notes:
mL - milliliters
NM - Not Measured

FIGURES



DRAWN BY K. PEILA	DATE 4/17/06	SITE VICINITY MAP NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NUMBER 112G02316
CHECKED BY D. SIEFKEN	DATE 5/11/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

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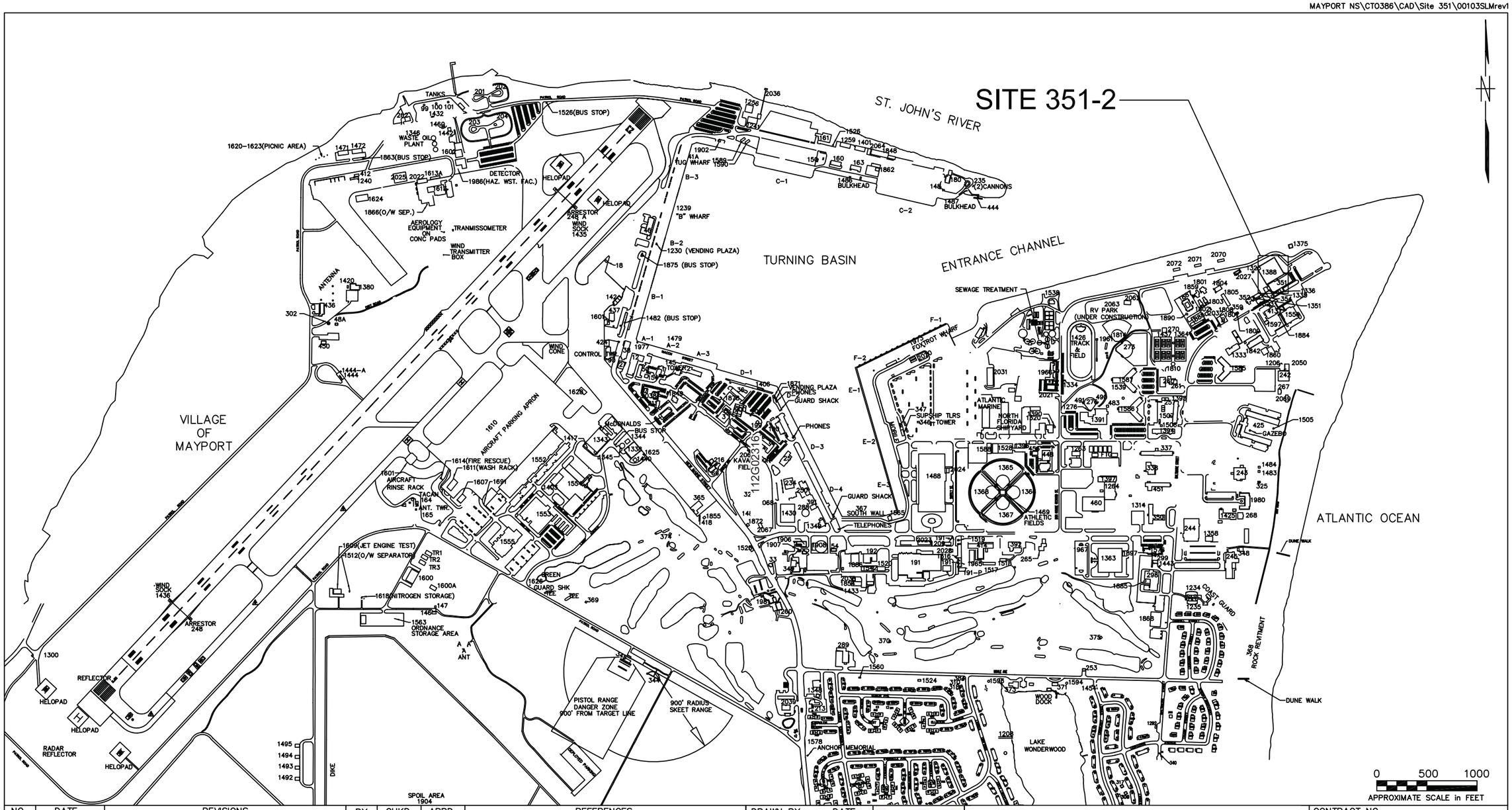


NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

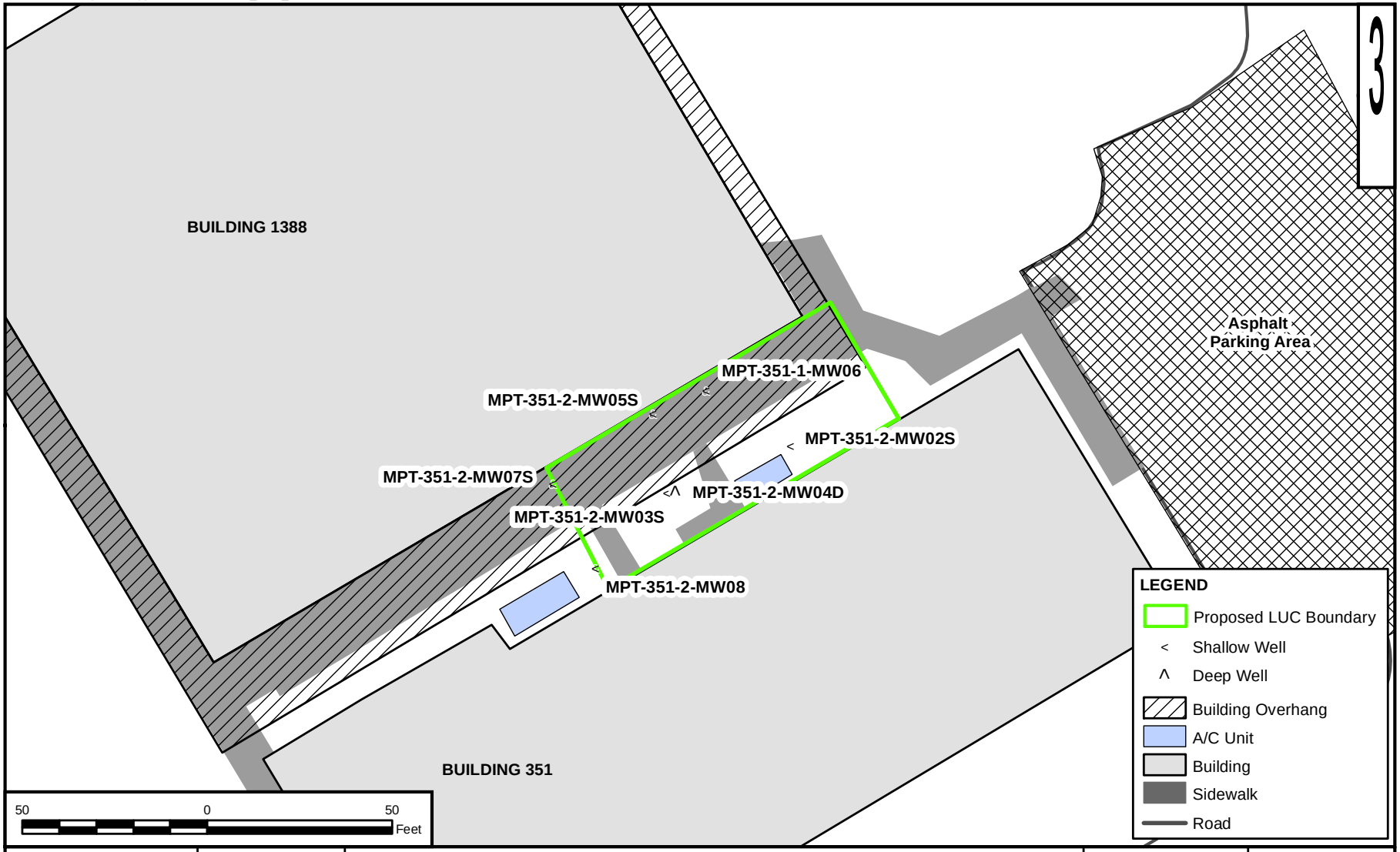
DRAWN BY JCF DATE 12/20/07
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

NAVFAC

SITE LOCATION MAP
SITE 351-2
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NO. 112G02316
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2
REV. 0

JAX: M:\GIS\Projects\Mayport\MXD\site351-2_LUC_area.mxd



DRAWN BY	DATE
J.MADDEN	08/28/13
CHECKED BY	DATE
D. SIEFKEN	08/25/13
REVISED BY	DATE
___	___
SCALE	
AS NOTED	

PROPOSED LUC AREA
RAA WAIVER
SITE 351-2
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
___	0160
APPROVED BY	DATE
___	___
APPROVED BY	DATE
___	___
FIGURE NO.	REV
FIGURE 3	0