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NAS PENSACOLA
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CONTAMINATION ASSESSMENT REPORT ADDENDUM FOR SITE 1107 BRONSON FIELD

NAS PENSACOLA FL

1/25/2001

TETRA TECH

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TtNUS/TAL-01-005/0401-3.2

January 25, 2001

Project Number 0401

Joe Fugitt, P.G.
Remedial Project Manager
Technical Review / Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: **Clean Contract No. N62467-94-D0888**
Contract Task Order No. 0112

Subject: **Contamination Assessment Report Addendum**
For Site 1107, Outlying Landing Field (OLF) Bronson
Pensacola, Florida

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Contamination Assessment Report Addendum (CARA) for the referenced Contract Task Order (CTO). This report has been prepared for the U.S. Navy Southern Division Naval Facilities Engineering Command under CTO-0112, for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888.

Contamination Assessment Report Addendum Objectives. The objective of the CARA is to address concerns expressed by the Florida Department of Environmental Protection (FDEP) in a technical review letter dated October 8, 1999.

Previous Investigations. In June 1997, a Contamination Assessment Report (CAR) for Outlying Field Bronson, Site 1107, Pensacola, Florida was submitted by Naval Air Station (NAS) Pensacola Navy Public Works Center (NPWC) to the FDEP for review. A technical review letter was received from FDEP on July 7, 1997 that commented on the CAR and requested further assessment and additional information. Those comments were addressed in a CARA also completed by NAS Pensacola NPWC on December 2, 1998.

Upon review of the primary CARA, FDEP issued a letter providing further comments on the CARA and requiring the preparation of a second CARA for Site 1107. The letter detailed four comments to be addressed in order for this site to meet the requirements of Chapter 62-770, Florida Administrative Code (F.A.C.). A copy of the letter is provided in Attachment A. This letter report addresses these comments and, in so doing, provides a summary of the work performed by TtNUS and the resulting data.

Response To Comments.

1. *The latest groundwater analytical results were from samples collected on August 26, 1998. Some groundwater samples were collected as early as March 11, 1996. Because conditions at the site have changed due to the spreading of free product, I recommend resampling all of the monitoring wells.*

On July 12, 2000, TtNUS personnel collected groundwater samples from twelve of the sixteen monitoring wells (MW-2, MW-3, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16) located on Site 1107. MW-1, MW-4, and MW-8 were not sampled due to the existence of free product. During the groundwater-sampling event, Monitoring Well MW-5 was dry and was therefore not sampled. The monitoring well locations are shown on Figure 1, Attachment B. All sampling activities were conducted in accordance with Tetra Tech NUS, Inc., FDEP approved, Comp QAP #980038.

All monitoring wells were purged prior to collecting groundwater samples. Purging and sampling were performed with a peristaltic pump using the low flow quiescent method. Following collection of the groundwater samples, the sample bottles were packed on ice and shipped via overnight transport to Accutest Laboratories in Orlando, Florida. The groundwater samples were analyzed for compounds specified in the Gasoline and Kerosene analytical groups. Groundwater sampling field forms are provided in Attachment D. The analytical results for the monitoring wells are summarized in Table 1, Attachment C. A copy of the validated laboratory report is provided in Attachment E.

One Volatile Organic Compound (VOC; ethylbenzene) and three Polycyclic Aromatic Hydrocarbons (PAHs; 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene) were detected in the groundwater samples collected from Site 1107 monitoring wells. None of the detected concentrations exceeded the Florida Groundwater Cleanup Target Levels (GCTL).

The groundwater samples were also analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH) and Total Lead. TRPH was detected in groundwater samples from MW-3, MW-6, MW-7, and MW-9 at concentrations less than GCTLs. Lead was not detected in any of the groundwater samples.

2. *Prior to groundwater sampling, water level elevations should be taken in all monitoring wells, including deep wells. The water level elevations should be used to confirm groundwater flow direction and to determine if there are vertical gradients.*

Prior to groundwater sampling, water level measurements were recorded for each onsite, monitoring well using an oil/water interface probe. The depth-to-water measurements, along with top of casing elevations (only fifteen of the sixteen top of casing elevations were available) and equations to account for free product, were used to calculate groundwater elevations. Based on these elevations, the groundwater table appears to be level in the measured area and, therefore, no flow is apparent. Any variations in groundwater elevations are so slight as to be accountable to measurement error. Figure 2, Attachment B depicts the groundwater elevations recorded on July 12, 2000. Monitoring wells MW-2 and DMW-15 were used to determine the vertical gradient at the site. Based on elevation difference of 0.02 feet over a distance of 10.58 feet, the calculated vertical gradient is upward at 0.0019 feet per foot. Depth to water measurements, top of casing elevations and groundwater elevation data are provided in Table 2, Attachment C. Historical and current data show no indication of vertical gradients at this site.

3. *A free product assessment should be performed to delineate the extent and thickness of free product. Since the product viscosity may prevent a measurement using an electronic oil/water interface probe, I would recommend using a clear, disposable bailer to determine apparent product thickness. If free product is still present at the site, then the product recovery should be initiated in accordance with Chapter 62-770.300 (1) FAC. If any free product removal activities have been conducted at this site, they should be documented and submitted to this Department for review.*

On July 12, 2000, prior to groundwater sampling, free product thickness and water level elevation survey was completed at Site 1107 using an oil/water interface probe. The free product encountered was described as a very viscous material similar to a coal tar product. Free product measurements recorded during the survey indicated monitoring wells MW-1 and MW-4 contained thicknesses of 1.80 feet and 2.29 feet, respectively. A free product sheen was also reported in Monitoring Well MW-8, but was not measurable. The free product and water level measurements are summarized in Table 2, Attachment C. An estimate of the extent of free product present at the site is shown in Figure 4, Attachment B.

In addition, on August 9, 2000 TtNUS personnel completed eight soil borings (SB-1 through SB-8) to a depth of 20 feet below land surface (bls) at Site 1107 using Direct Push Technology (DPT). The soil borings were completed to further characterize the extent of free product and collect subsurface soil samples. During soil boring operations an onsite Geologist recorded lithologic descriptions of the soil and identified the presence of free product. Soil boring locations are shown on Figure 3, Attachment B. All sampling activities were conducted in accordance with Tetra Tech NUS, Inc., FDEP approved, Comp QAP #980038.

Four of the eight soil borings completed at the site including SB-3, SB-4, SB-7, and SB-8 were reported to contain soils stained with a viscous, "coal tar" type free product. A single soil sample was collected from each of the eight soil borings. Following collection of the soil boring samples, the sample bottles were packed on ice and shipped via overnight transport to Accutest Laboratories in Orlando, Florida. The soil samples were analyzed for compounds specified in the Gasoline and Kerosene analytical groups. Soil sampling field forms and a lithologic description of the soils are provided in Attachment F. The analytical results for the soil samples are summarized in Table 3, Attachment C. A copy of the validated laboratory report is provided in Attachment E.

Three VOCs: ethylbenzene, toluene, and total xylenes were detected in the soil samples collected from Site 1107. Two of the VOCs, ethylbenzene (soil boring SB-8, 1.62 mg/kg) and total xylenes (soil borings SB-7, 0.83 mg/kg estimated; SB-7, 1.74 mg/kg estimated; and SB-8, 3.12 mg/kg) were detected at concentrations exceeding leachability limits for groundwater of 0.6 mg/kg and 0.2 mg/kg, respectively, from Chapter 62-777, F.A.C.

Eleven PAHs were detected in the soil samples collected from Site 1107. Two of the PAHs, 1-methylnaphthalene, 2-methylnaphthalene, were both detected in soil samples from four soil borings (SB-3, SB-4, SB-7 and SB-8) at concentrations exceeding the leachability for groundwater limits of 2.2 mg/kg and 6.1 mg/kg, respectively, from Chapter 62-777, F.A.C. Naphthalene was detected in the sample from soil boring SB-8 at a concentration (2.38 mg/kg estimated) exceeding the leachability limits for groundwater of 1.7 mg/kg from Chapter 62-777, F.A.C.

Benzo (a) pyrene was detected in the sample from soil boring SB-8 at a concentration (0.76 mg/kg) exceeding the direct exposure limit for both residential (0.1 mg/kg) and industrial areas (0.5 mg/kg) from Chapter 62-777, F.A.C. However, given that the soil sample was collected from a depth of 18 to 20 feet bls, a direct exposure is unlikely.

The soil samples were also analyzed for TPH. Concentrations of TPH were detected in soil samples from four (SB-3, SB-4, SB-7 and SB-8) of the eight soil borings. All of the detected TPH concentrations exceeded both the direct exposure limit (340 mg/kg) and the leachability limit for groundwater (340 mg/kg) from Chapter 62-777, F.A.C. However, given that the soil samples were collected from a depth of 18 to 20 feet bls, a direct exposure is unlikely.

4. *The location of integral piping and dispensers should also be included in the figures. This information would be valuable in interpreting the results of the soil and groundwater analytical data.*

A detailed search of available files and drawings indicated that figures and information showing the location of piping and dispensers for Site 1107 is not available.

Conclusions.

- A coal tar type free product plume is present at the site over a 1,540 square foot area with a thickness up to 2.29 feet.
- Current and historic groundwater flow data indicate that flow is typically stagnant in the study area.

- Groundwater samples collected from onsite monitoring wells did not contain any analytes at concentrations exceeding FDEP's GCTLs.

- Soil samples from four onsite soil borings (SB-3, SB-4, SB-7, and SB-8) contained analytes that exceeded FDEP's leachability for groundwater limit from Chapter 62-777 F. A. C. However with the exception of TPH detected in the sample from monitoring well MW-9, none of the analytes were detected in the groundwater samples collected on site.

- Benzo (a) pyrene was detected in a soil sample from one soil boring (SB-8) at a concentration that exceeded the FDEP's direct exposure limits for both residential (0.1 mg/kg) and industrial areas (0.5 mg/kg) from Chapter 62-777, F.A.C. However, given that the soil sample was collected from a depth of 18 to 20 feet below land surface (bls), a direct exposure is unlikely to occur.

Recommendations. Based upon the findings of the current CARA and historical data, TtNUS recommends that a Remedial Action Plan be prepared for Outlying Landing Field, Bronson, Site 1107 located at Pensacola, Florida. In addition, TtNUS recommends the expeditious recovery of free product at this site.

If you have any questions with regard to this submittal, please contact me at (850) 385 -9899.

Sincerely,

Gerald A Walker

Gerald A. Walker, P.G.
Task Order Manager
Florida License No. PG-0001180

GW/gw

Enclosures

CC: B. Glover, SOUTHNAVFACENGCOM
D. Wroblewski (cover letter only), TtNUS
M. Perry/file, TtNUS

ATTACHMENT A

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CAR TECHNICAL REVIEW LETTER

Department of Environmental Protection

CTO 112
0401

Jeb Bush
Governor

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

David B. Struhs
Secretary

October 8, 1999

Mr. Byas Glover
Code 18410
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
P.O. Box 190010
North Charleston, South Carolina 29419-9010

RE: Contamination Assessment Report Addendum, U.S. Navy Outlying Landing Field (OLF) Bronson, Site 1107, Pensacola, Florida

Dear Mr. Glover:

I have completed the technical review of the above referenced document dated November 1998 (received December 7, 1998). Please excuse the late review of this report.

I have the following comments that must be addressed in an Addendum Report for this site in order to meet the requirements of Chapter 62-770, Florida Administrative Code (FAC).

1. The latest groundwater analytical results were from samples collected on August 26, 1998. Some groundwater samples were collected as early as March 11, 1996. Because conditions at the site have changed due to the spreading of free product, I recommend resampling all of the monitoring wells.

2. Prior to groundwater sampling, water level elevations should be taken in all monitoring wells, including deep wells. The water level elevations should be used to confirm groundwater flow direction and to determine if there are vertical gradients.

3. A free product assessment should be performed to delineate the extent and thickness of free product. Since the product viscosity may prevent a measurement using an electronic oil/water interface probe, I would recommend using a clear disposable bailer to determine apparent product thickness. If free product is still present at the site, then product recovery should be

initiated in accordance with Chapter 62-770.300(1) FAC. If any free product removal activities have been conducted at this site, they should be documented and submitted to the Department for review.

4. The location of integral piping and dispensers should also be included on the figures. This information would be valuable in interpreting the results of soil and groundwater analytical data.

If I can be of any further assistance with this matter, please contact me at (850) 921-9989.

Sincerely,

Joseph F. Fugitt

Joseph F. Fugitt, P.G.
Remedial Project Manager

cc: Greg Campbell, NAS Pensacola
Gerry Walker, Tetra Tech NUS, Tallahassee
Tom Lubozynski, FDEP Northwest District

Reviewed by:

Timothy J. Bahr, P.G.
Professional Geologist Supervisor
Bureau of Waste Cleanup

10/8/99
Date

TIMOTHY J. BAHR
LICENSE NO. 1209
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

JJC ESN ESN

ATTACHMENT B

FIGURES

SOURCE:
LOCATIONS OF ROADS AND FORMER LOCATIONS OF BUILDINGS, TANKS, AND DISTRIBUTION LINES ARE TAKEN FROM N.A.S. DRAWING NO. 23032 DATED JUNE 24, 1944. ALL WELL AND BORING LOCATIONS ARE APPROXIMATE.

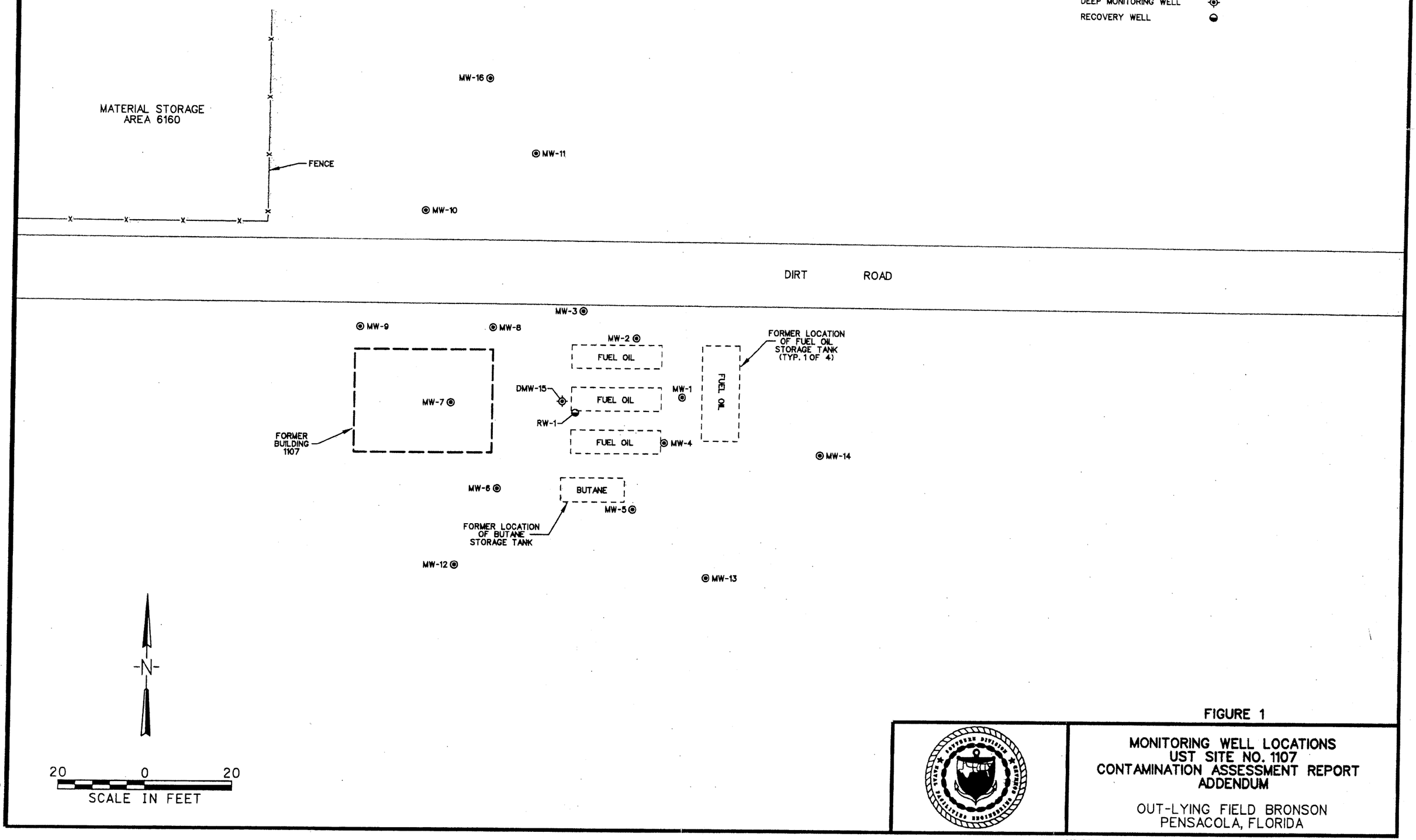


FIGURE 1

MONITORING WELL LOCATIONS
UST SITE NO. 1107
CONTAMINATION ASSESSMENT REPORT
ADDENDUM

OUT-LYING FIELD BRONSON
PENSACOLA, FLORIDA

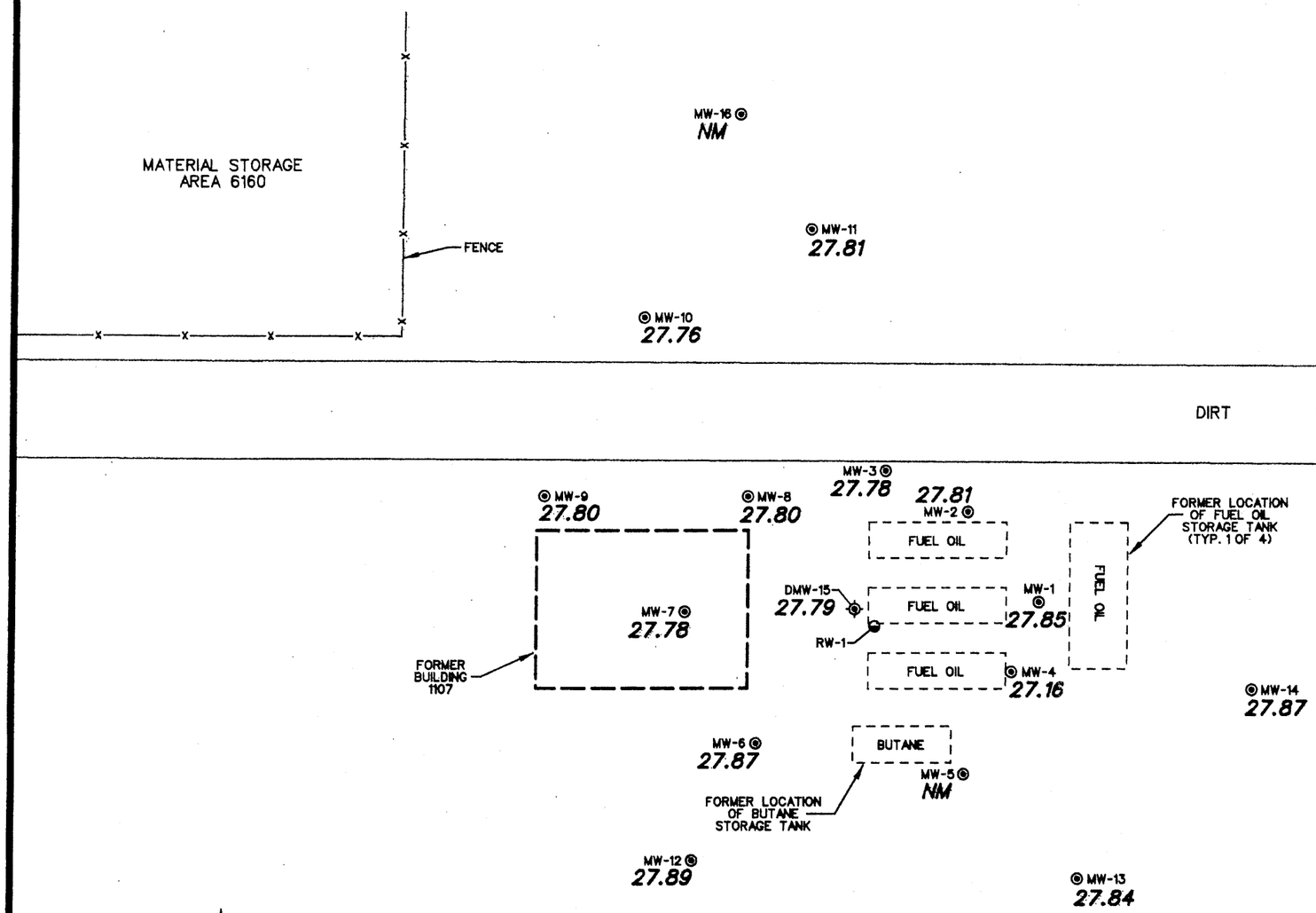
CAD FILE NO./DATE: 0401A014.dgn/12-28-00

n11x17b.dgn

SOURCE:
LOCATIONS OF ROADS AND FORMER LOCATIONS OF BUILDINGS, TANKS, AND DISTRIBUTION LINES ARE TAKEN FROM N.A.S. DRAWING NO. 23032 DATED JUNE 24, 1944. ALL WELL AND BORING LOCATIONS ARE APPROXIMATE.

LEGEND

MONITORING WELL	⊙
DEEP MONITORING WELL	⊕
RECOVERY WELL	◒
GROUNDWATER ELEVATION IN FEET	27.85
NOT MEASURED	NM



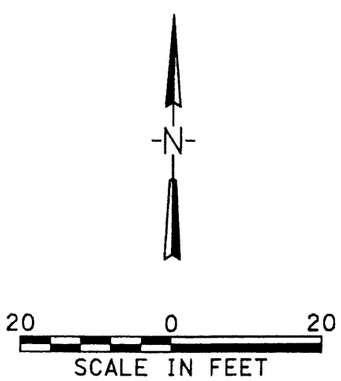


FIGURE 2

GROUNDWATER ELEVATION MAP
UST SITE NO. 1107
CONTAMINATION ASSESSMENT REPORT
ADDENDUM

OUT-LYING FIELD BRONSON
PENSACOLA, FLORIDA

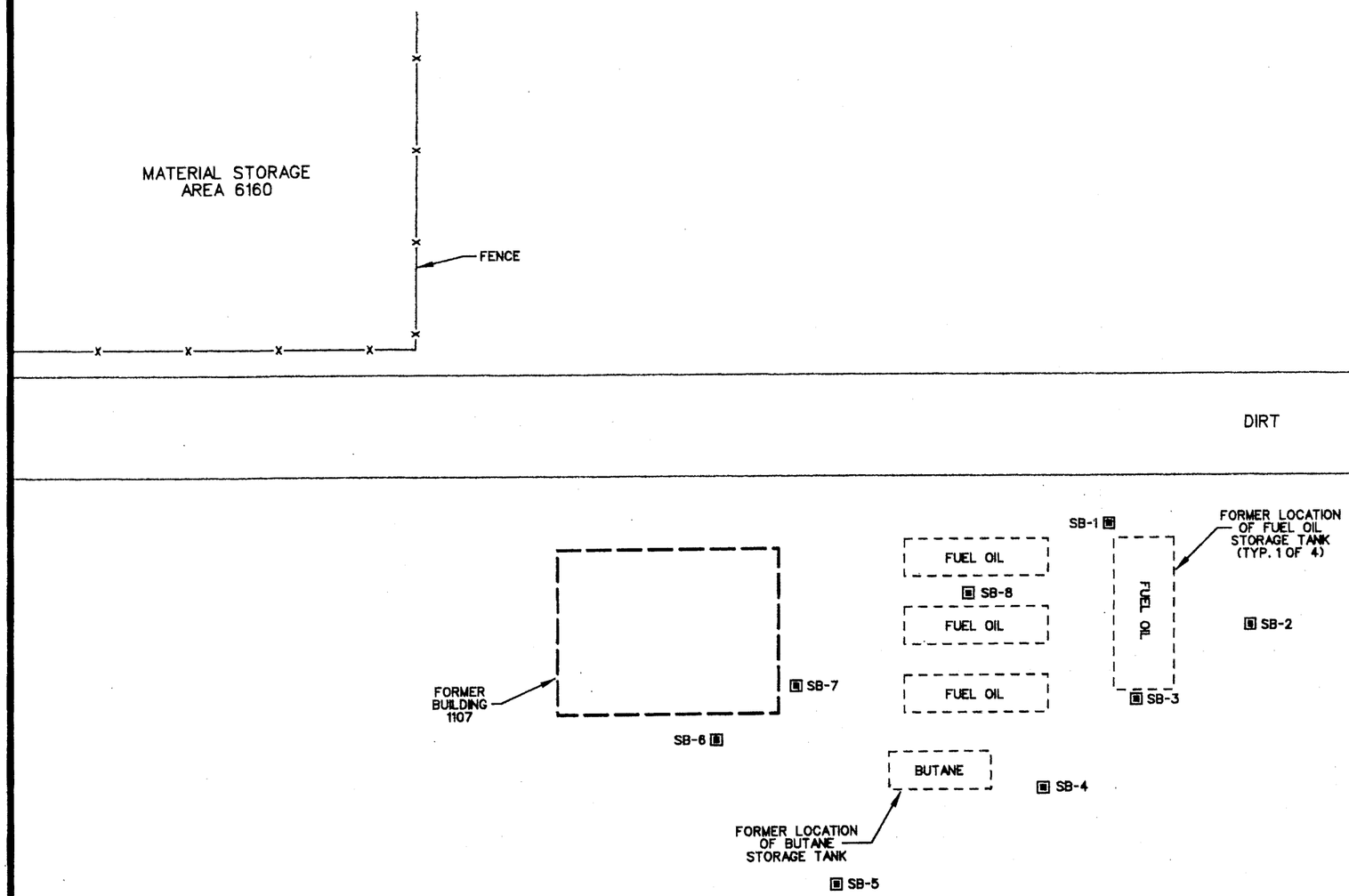
n11x17b.dgn

CAD FILE NO./DATE: 0401A015.dgn/12-28-00

SOURCE:
LOCATIONS OF ROADS AND FORMER LOCATIONS OF BUILDINGS, TANKS, AND DISTRIBUTION LINES ARE TAKEN FROM N.A.S. DRAWING NO. 23032 DATED JUNE 24, 1944. ALL WELL AND BORING LOCATIONS ARE APPROXIMATE.

LEGEND

SOIL BORING ▣



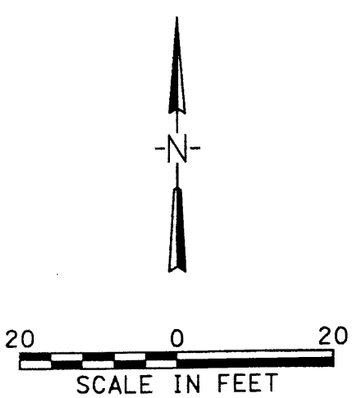


FIGURE 3

SOIL BORING LOCATIONS
UST SITE NO. 1107
CONTAMINATION ASSESSMENT REPORT
ADDENDUM

OUT-LYING FIELD BRONSON
PENSACOLA, FLORIDA

CAD FILE NO./DATE: 0401A013.dgn/12-28-00

n11x17b.dgn

SOURCE:
LOCATIONS OF ROADS AND FORMER LOCATIONS OF BUILDINGS, TANKS, AND DISTRIBUTION LINES ARE TAKEN FROM N.A.S. DRAWING NO. 23032 DATED JUNE 24, 1944. ALL WELL AND BORING LOCATIONS ARE APPROXIMATE.

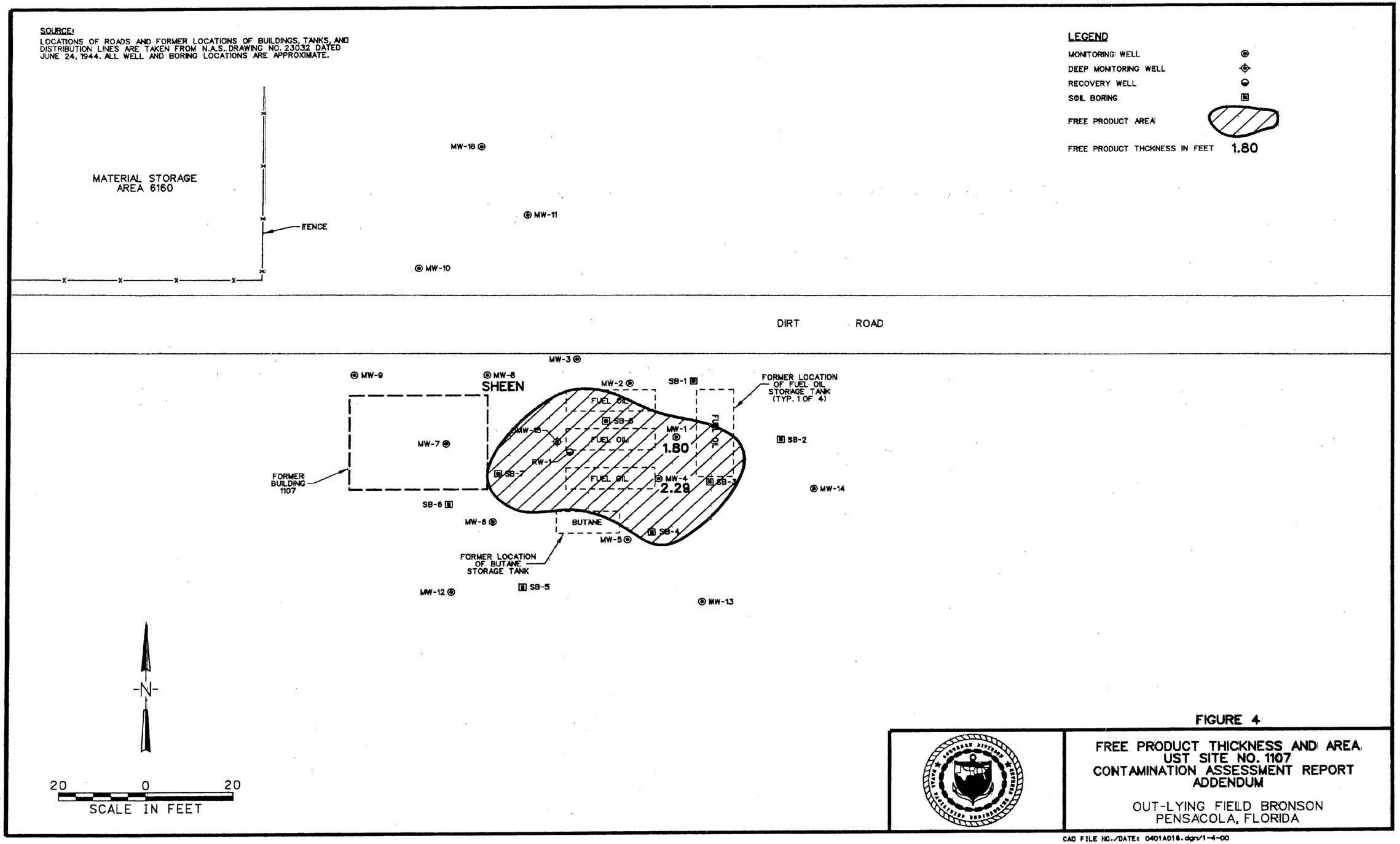


FIGURE 4

FREE PRODUCT THICKNESS AND AREA
UST SITE NO. 1107
CONTAMINATION ASSESSMENT REPORT
ADDENDUM

OUT-LYING FIELD BRONSON
PENSACOLA, FLORIDA

CAD FILE NO./DATE: 0401A016.dgn/1-4-00

m11x17b.dgn

ATTACHMENT C

TABLES

TABLE 1

SUMMARY OF ANALYTES DETECTED IN GROUNDWATER - SITE 1107
OUTLYING LANDING FIELD BRONSON, PENSACOLA FLORIDA

Sample No.		OLFB07MW02GW	OLFB07W03GW	OLFB07MW06GW	OLFB07MW07GW	OLFB07D001
Sample Location		MW-2	MW-3	MW-6	MW-7	MW-7 Duplicate
Collect Date		7/12/00	7/12/00	7/12/00	7/12/00	7/12/00
Sample Depth (bls)		23 feet	20 feet	23 feet	23 feet	23 feet
	Groundwater Clean-up Criteria [1] (ug/L)					
Volatile [2] (ug/L)						
Ethylbenzene	30	--	0.98[J]	--	--	--
Polycyclic Aromatic Hydrocarbons[3] (ug/L)						
1-Methylnaphthalene	20	--	12.3	2[J]	--	--
2-Methylnaphthalene	20		14.2	2.2		
Naphthalene	20		11.5	1.8[J]		
Total Petroleum Hydrocarbons[4] (ug/L)	5,000	--	1,650	843	1,860	--
Metals[5] (ug/L)						
None detected						

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777,F.A.C.
[2] SW-846 8021B and EPA 504.1, [3] SW-846 8310, [4] FL-PRO, [5] SW-846 6010B
[J] indicates the presence of a chemical at an estimated concentration.

TABLE 1

SUMMARY OF ANALYTES DETECTED IN GROUNDWATER - SITE 1107
OUTLYING LANDING FIELD BRONSON, PENSACOLA FLORIDA

Sample No.		OLFB07MW09GW	OLFB07MW10GW	OLFB07MW11GW	OLFB07MW12GW	OLFB07MW13GW
Sample Location		MW-09	MW-10	MW-11	MW-12	MW-13
Collect Date		7/12/00	7/12/00	7/12/00	7/12/00	7/12/00
Sample Depth (bls)		21 feet	21 feet	21 feet	21 feet	21 feet
	Groundwater Clean-up Criteria [1] (ug/L)					
Volatile [2] (ug/L)						
Ethylbenzene	30	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons[3] (ug/L)						
1-Methylnaphthalene	20	--	--	--	--	--
2-Methylnaphthalene	20	--	--	--	--	--
Naphthalene	20	--	--	--	--	--
Total Petroleum Hydrocarbons[4] (ug/L)	5,000	278[J]	--	--	--	--
Metals[5] (ug/L)						
None detected						

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777,F.A.C.
[2] SW-846 8021B and EPA 504.1, [3] SW-846 8310, [4] FL-PRO, [5] SW-846 6010B
[J] indicates the presence of a chemical at an estimated concentration.

TABLE 1

SUMMARY OF ANALYTES DETECTED IN GROUNDWATER - SITE 1107
OUTLYING LANDING FIELD BRONSON, PENSACOLA FLORIDA

Sample No.		OLFB07MW14GW	OLFB07MW15GW	OLFB07MW16GW
Sample Location		MW-14	DMW-15	MW-16
Collect Date		7/12/00	7/12/00	7/12/00
Sample Depth (bls)		21 feet	34 feet	24 feet
	Groundwater Clean-up Criteria [1] (ug/L)			
Volatile [2] (ug/L)				
Ethylbenzene		--	--	--
Polycyclic Aromatic Hydrocarbons[3] (ug/L)				
1-Methylnaphthalene	20	--	--	--
2-Methylnaphthalene	20	--	--	--
Naphthalene	20	--	--	--
Total Petroleum Hydrocarbons[4] (ug/L)	5,000	--	--	--
Metals[5] (ug/L)				
None detected				

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777,F.A.C.
[2] SW-846 8021B and EPA 504.1, [3] SW-846 8310, [4] FL-PRO, [5] SW-846 6010B
[J] indicates the presence of a chemical at an estimated concentration.

TABLE 2
TOP OF CASING ELEVATIONS, WATER TABLE ELEVATIONS, AND TOTAL DEPTHS
SITE 1107, OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

Well ID	Monitoring Well Diameter	Current Well Depth	Top of Casing Elevation(1)	Thickness of Free Product	July 12, 2000	
					Depth to Water	Groundwater Elevation
MW-1	2 inches	NM	48.22	1.80	22.12	27.85*
MW-2	2 inches	23.45	47.96	--	20.15	27.81
MW-3	2 inches	20.52	47.35	--	19.57	27.78
MW-4	2 inches	NM	48.00	2.29	22.28	28.16*
MW-5(2)	2 inches	NM	48.42	--	NM	NM
MW-6	2 inches	23.33	48.65	--	20.78	27.87
MW-7	2 inches	23.80	49.98	--	22.20	27.78
MW-8	2 inches	NM	48.24	**	20.44	27.80
MW-9	2 inches	21.46	47.73	--	19.93	27.80
MW-10	2 inches	21.61	48.63	--	20.87	27.76
MW-11	2 inches	21.65	48.88	--	21.07	27.81
MW-12	2 inches	21.86	48.92	--	21.03	27.89
MW-13	2 inches	21.78	47.56	--	19.72	27.84
MW-14	2 inches	21.41	48.10	--	20.23	27.87
DMW-15	2 inches	34.03	49.97	--	21.18	27.79
MW-16	2 inches	24.24	NA	--	21.88	NM

NOTES:
(1) Top of casing and groundwater elevations are relative to an arbitrary site reference.
(2) Monitoring Well MW-5 was dry.
All measurements reported in feet.
* indicates correction for free product (free product thickness*0.75 - depth to water = corrected depth to water)
** indicates that a petroleum sheen was noted.
NM - not measured.
NA – not available.

TABLE 3

SUMMARY OF ANALYTES DETECTED IN SOIL SAMPLES - SITE 1107
OUTLYING LANDING FIELD BRONSON, PENSACOLA, FLORIDA

Sample No.		OLFB1107SB-1	OLFB1107SB-2	OLFB1107SB-3	OLFB1107SB-4	OLFB1107SB-5
Sample Location		SB-1	SB-2	SB-3	SB-4	SB-5
Collect Date		8/9/00	8/9/00	8/9/00	8/9/00	8/9/00
Sample Depth (bls)		17-20'	18-20'	18-20'	19-20'	19-20'
	DE1[1]/DE2[2]/LE[3] (mg/kg)					
Volatile[4] (mg/kg)						
Ethylbenzene	1100/8400/0.6	--	--	--	--	--
Toluene	380/2600/0.5	--	--	--	--	--
Total Xylenes	5900/40000/0.2	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons[5] (mg/kg)						
1-Methylnaphthalene	68/470/2.2	--	--	**11[J]**	**8.71[J]**	--
2-Methylnaphthalene	80/560/6.1	--	--	**9.06[J]**	**9.82[J]**	--
Benzo(a)pyrene	0.1/0.5/8	--	--	--	--	--
Benzo(b)fluoranthene	1.4/4.8/10	--	--	--	--	--
Benzo(g,h,i)perylene	2300/41000/32000	--	--	--	--	--
Benzo(k)fluoranthene	15/52/25	--	--	--	--	--
Fluorene	2200/28000/160	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.5/5.3/28	--	--	--	--	--
Naphthalene	40/270/1.7	--	--	--	--	--
Phenanthrene	2000/30000/250	--	--	6.07[J]	--	--
Pyrene	2200/37000/880	--	--	7.86[J]	4.46[J]	--
Total Petroleum Hydrocarbons[6] (mg/kg)	340/2500/340	--	--	**19800**	**11400**	--

[1] DE1= Direct Exposure limit for residential area from Chapter 62-777, F.A.C.
[2] DE2= Direct Exposure limit for industrial area from Chapter 62-777, F.A.C.
[3] LE= Leachability for groundwater limit from Chapter 62-777, F.A.C.
[4] SW-846 8260B, [5] SW-846 8310, [6] FL-PRO
[J] Indicates the presence of a chemical at an estimated concentration.
Bold indicates an exceedance of regulatory limits.

TABLE 3

SUMMARY OF ANALYTES DETECTED IN SOIL SAMPLES - SITE 1107
OUTLYING LANDING FIELD BRONSON, PENSACOLA, FLORIDA
PAGE 2 OF 2

Sample No.		OLFB1107SB-6	OLFB1107SB-7	OLFB1107DUP-1	OLFB1107SB-8
Sample Location		SB-6	SB-7	SB-7 Duplicate	SB-8
Collect Date		8/9/00	8/9/00	8/9/00	8/9/00
Sample Depth (bls)		18-20'	18-20'		18-20'
	DE1[1]/DE2[2]/LE[3] (mg/kg)				
Volatile[4] (mg/kg)					
Ethylbenzene	1100/8400/0.6	--	0.175[J]	0.364[J]	**1.62**
Toluene	380/2600/0.5	--	--	--	0.0513[J]
Total Xylenes	5900/40000/0.2	--	**0.83[J]**	**1.74[J]**	**3.12**
Polycyclic Aromatic Hydrocarbons[5] (mg/kg)					
1-Methylnaphthalene	68/470/2.2	--	**5.9[J]**	**20[J]**	**8.55**
2-Methylnaphthalene	80/560/6.1	--	**7.16[J]**	**23.6[J]**	**11.4**
Benzo(a)pyrene	0.1/0.5/8	--	--	--	**0.76**
Benzo(b)fluoranthene	1.4/4.8/10	--	--	--	1.11
Benzo(g,h,i)perylene	2300/41000/32000	--	--	--	0.903
Benzo(k)fluoranthene	15/52/25	--	--	--	0.444[J]
Fluorene	2200/28000/160	--	--	3.95[J]	--
Indeno(1,2,3-cd)pyrene	1.5/5.3/28	--	--	--	0.964
Naphthalene	40/270/1.7	--	--	--	**2.38[J]**
Phenanthrene	2000/30000/250	--	--	7.36[J]	2.14[J]
Pyrene	2200/37000/880	--	--	9.42[J]	--
Total Petroleum Hydrocarbons[6] (mg/kg)	340/2500/340	--	**13,300**	**16,300**	**5,540**

[1] DE1= Direct Exposure limit for residential area from Chapter 62-777, F.A.C.
[2] DE2= Direct Exposure limit for industrial area from Chapter 62-777, F.A.C.
[3] LE= Leachability for groundwater limit from Chapter 62-777, F.A.C.
[4] SW-846 8260B, [5] SW-846 8310, [6] FL-PRO
[J] Indicates the presence of a chemical at an estimated concentration.
Bold indicates an exceedance of regulatory limits.

ATTACHMENT D

GROUNDWATER SAMPLING FIELD FORMS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Bronson
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLF307MW03GW
Sample Location: Site 1107 MW03
Sampled By: SA
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7-12-00								
Time: 1556								
Method: peristaltic	Clear	5.67	.266	24.2	21	2.17	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7-12-00								
Method: peristaltic		5.72	.273	25.3	99.9	2.19	0.00	
Monitor Reading (ppm): —		5.76	.275	24.6	279	1.22	0.00	
Well Casing Diameter & Material		5.72	.269	24.2	94	0.87	0.00	
Type: 2" PVC		5.65	.289	24.0	62	1.82	0.00	
Total Well Depth (TD): 20.52		5.72	.265	24.5	87	1.94	0.00	
Static Water Level (WL): 19.57		5.73	.267	24.4	87	2.18	0.00	
One Casing Volume(gal/L): .163		5.69	.287	24.2	23	1.70	0.00	
Start Purge (hrs): 1510		5.67	.266	24.2	21	2.17	0.00	
End Purge (hrs): 1555								
Total Purge Time (min): 45 min								
Total Vol. Purged (gal/L): 1.12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40 ml Vial	2
TRPH	H_2SO_4	1 L Amber	2
Lead	HNO_3	1 L Amber	1

OBSERVATIONS / NOTES:

DO = 8.0 mg/L ORP = 318.2 mV
Fe = 0.00 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

B

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLFB07
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW02GW
Sample Location: Site 1107
Sampled By: JRH
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7-12-00								
Time: 1000								
Method: Pump	Clear	5.34	.067	24.9	10	3.60	0.0	41.5

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP
Date: 7-12-00								
Method: Pump	Init.	5.38	.111	25.1	>999	1.86	0.0	119.3
Monitor Reading (ppm):	0.5	5.32	.086	24.8	90	2.60	0.0	64.5
Well Casing Diameter & Material	1.0	5.35	.076	24.9	30	3.16	0.0	37.3
Type: 2" PVC	1.5	5.35	.072	24.8	18	3.21	0.0	41.8
Total Well Depth (TD): 23.45	2.0	5.36	.069	24.9	12	3.45	0.0	40.0
Static Water Level (WL): 20.15	2.5	5.34	.067	24.9	10	3.60	0.0	41.5
One Casing Volume(gal/L): 0.5								
Start Purge (hrs): 0845								
End Purge (hrs): 1000								
Total Purge Time (min): 75 min								
Total Vol. Purged (gal/L): 2.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	2 x 40 ml vials	
EDB	None	3 x 40 ml vials	
PAH	"	2 x 1000 ml ambers	
TRPH	H_2SO_4	" " " "	
Lead	HNO_3	1 x 500 ml Plastic	

OBSERVATIONS / NOTES:

DO = 6.4 mg/L ORP = 272.4 mV
Fe = 0.03 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): J. R. Hill

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLFB 1107
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW06GW
Sample Location: Site 1107
Sampled By:
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-12-00	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1210								
Method: Pump	clear	5.58	.068	26.5	9.8	0.44	0.0	-213.8

PURGE DATA:

Date: 7-12-00	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Pump	Init	5.83	.144	25.8	624	0.83	0.0	-341.6
Monitor Reading (ppm):	0.5	5.43	.080	25.0	100	0.30	0.0	-311.9
Well Casing Diameter & Material	1.0	5.47	.073	25.1	60	0.38	0.0	-278.2
Type: 2" PVC	1.5	5.46	.069	25.6	45	0.32	0.0	-281.0
Total Well Depth (TD): 23.80	2.0	5.53	.068	26.1	18	0.44	0.0	-248.7
Static Water Level (WL): 20.78	2.5	5.56	.068	26.3	11	0.50	0.0	-233.7
One Casing Volume(gal/L): 0.5	3.0	5.58	.068	26.5	9.8	0.44	0.0	-213.8
Start Purge (hrs): 1100								
End Purge (hrs): 1210								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 3.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	2 x 40 ml vials	
EDB	None	3x40 ml vials	
PAH	"	2x1000 ml ambers	
TRPH	H_2SO_4	" " " "	
Lead	HNO_3	1x500 ml Plastic	

OBSERVATIONS / NOTES:

DO = 5.1 mg/L
ORP = 186.1 mV
Fe = 3.30 mg/L (11 mg/L)
HS = 0.00 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): J. R. [illegible]

MW07

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLFB
Project No.: N0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB/07/MW07/GW
Sample Location: SITE 107
Sampled By: KDB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7/12/00								
Time: 0935								
Method: LOW FLOW/STRAW	CLEAR	5.81	.204	23.4	2.34	1.20	—	—

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/12/00								
Method: LOW FLOW	INITIAL	5.79	.199	23.8	135	1.64	—	CLOUDY
Monitor Reading (ppm): —	0900	5.83	.205	23.8	10.36	0.67	—	CLEAR
Well Casing Diameter & Material	0905	5.79	.199	23.8	2.32	0.51	—	CLEAR
Type: 2" PVC	0910	5.79	.199	23.7	2.34	0.53	—	CLEAR
Total Well Depth (TD): 23.80	0915	5.80	.199	23.7	2.40	1.21	—	CLEAR
Static Water Level (WL): 22.20	0920	5.81	.202	23.5	2.34	1.23	—	CLEAR
One Casing Volume(gal/L): 1.36	0925	5.81	.204	23.4	2.34	1.20	—	CLEAR
Start Purge (hrs): 0850	0930							
End Purge (hrs): 0925								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 4.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL	2x40mL VIAL	2
TPH	H_2SO_4	2x1000 mL AMBER	2
PAH	ICE	2x1000 mL AMBER	2
TOTAL Pb	HNO_3	1x500 mL PLASTIC	1
EDB	ICE	3x40mL VIAL	3

OBSERVATIONS / NOTES:

DO = 7.2 mg/L SAMPLES PLACED ON ICE.
Fe = 0.22 mg/L
OLFB/07/MS001
OLFB/07/MSD001
ORP = 250.8 mV
HS = 0.00 mg/L

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Bronson
Project No.: 6401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW09GW
Sample Location: Site 107 MW09
Sampled By: RH
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7-12-00								
Time: 1720								
Method: peristaltic	Clear	5.94	.107	25.0	3.5	5.50	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7-12-00								
Method: peristaltic	Initial	5.85	.104	24.1	481	7.62	0.00	
Monitor Reading (ppm): –	1st	5.87	.104	24.5	25.4	4.94	0.00	
Well Casing Diameter & Material	2nd	5.96	.108	25.1	4.9	5.41	0.00	
Type: 2" PVC	3rd	5.94	.107	25.0	3.5	5.50	0.00	
Total Well Depth (TD): 21.46								
Static Water Level (WL): 19.93								
One Casing Volume(gal/L): .3 gal								
Start Purge (hrs): 1650								
End Purge (hrs): 1719								
Total Purge Time (min): 29 min								
Total Vol. Purged (gal/L): ~.9 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40 mL Vial	3
TRPH	H_2SO_4	1 L Amber	2
Lead	HNO_3	.5 L Plastic	1
EDB	4°C	40 ml VOA	3
PAH	4°C	1 L amber	2

OBSERVATIONS / NOTES:

DO = 7.1 mg/L ORP = 139.7 mV

Fe = 0.00 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Bronson
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLF1307MW10GW
Sample Location: Site 1107 MW10
Sampled By: JB
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-12-00	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1058	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peristaltic	clear	6.83	.208	25.9	0.45	7.85	0.00	

PURGE DATA:

Date: 7-12-00	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic	Initial	6.32	.246	25.4	972	9.03	0.00	
Monitor Reading (ppm): —	1st	6.64	.200	25.3	40	4.89	0.00	
Well Casing Diameter & Material	2nd	6.83	.203	25.5	6.9	6.68	0.00	
Type: 2" PVC	3rd	6.80	.206	25.5	2.8	5.49	0.00	
Total Well Depth (TD): 21.61	4th	6.83	.206	25.7	1.6	6.44	0.00	
Static Water Level (WL): 20.87	5th	6.83	.208	25.9	0.45	7.85	0.00	
One Casing Volume(gal/L): .2 gal								
Start Purge (hrs): 0916								
End Purge (hrs): 1056								
Total Purge Time (min): 100 min								
Total Vol. Purged (gal/L): ~1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40 mL VOA	2
PAH	—	1L Amber	2
TRPH	H_2SO_4	1L Amber	2
Lead	HNO_3	500 mL Plastic	1
EDB	—	40 mL VOA	3

OBSERVATIONS / NOTES:

DO = 6.5 mg/L ORP = 317.8 mV

Fe = 0.00 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Branson Site 1107
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW11GW
Sample Location: 1107 MW11
Sampled By: JA
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7 12 00								
Time: 1055								
Method: peristaltic	clear	4.17	.166	23.8	1	4.96	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7 12 00								
Method: peristaltic	Initial	4.99	.077	24.3	999	4.50	0.00	
Monitor Reading (ppm): —	1st	4.85	.071	23.6	170	4.92	0.00	
Well Casing Diameter & Material	2nd	4.21	.071	23.4	184	5.51	0.00	
Type: 2" PVC	3rd	4.78	.074	23.4	3	4.39	0.00	pulled tubing up
Total Well Depth (TD): 21.65	4th	4.62	.073	23.2	2	4.24	0.00	
Static Water Level (WL): 21.07	5th	4.17	.166	23.8	1	4.96	0.00	
One Casing Volume(gal/L): .1 g								
Start Purge (hrs): 1015								
End Purge (hrs): 1055								
Total Purge Time (min): 40 min								
Total Vol. Purged (gal/L): ~1.5 g								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40 mL Vial	2
PAH	—	1 L Amber	2
TRPH	H_2SO_4	1 L Amber	2
Lead	HNO_3	500 mL Plastic	1
EDB	—	40 mL Vial	3

OBSERVATIONS / NOTES:

DO = 6.5 mg/L ORP = 309.7 mV

Fe = 0.03 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLFB 1107
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07 MW12GW
Sample Location: Site 1107
Sampled By: JQH
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7-12-00								
Time: 1505								
Method: Pump	Clear	4.80	.057	27.1	5.9	5.69	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7-12-00								
Method: Pump	Init.	4.68	.068	27.6	350	5.72	0.0	1037
Monitor Reading (ppm):	2000 ml.	4.80	.057	27.1	5.9	5.69	0.0	1153
Well Casing Diameter & Material								
Type: 2" PVC								
Total Well Depth (TD): 21.86								
Static Water Level (WL): 21.03								
One Casing Volume(gal/L): .15								
Start Purge (hrs): 1425								
End Purge (hrs): 1505								
Total Purge Time (min):								
Total Vol. Purged (gal/L): 2 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3x40 ml vials	
EDB	None	3x40 ml vials	
PAH	"	2x1000 ml ambers	
TRPH	H_2SO_4	" " " "	

OBSERVATIONS / NOTES:

Well Dry Before I could get first Reading
Well Keeps going Dry. will start sampling @ 2000 ml.
DO = 6.6 mg/L ORP = 288.9 mV
Fe = 0.00 mg/L HS = 0.00 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): J.R. [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Branson 1107
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW13GW
Sample Location: 1107 MW3
Sampled By: JA
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7 12 00								
Time: 1410								
Method: peristaltic	Clear	4.73	.034	23.6	9	5.65	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7 12 00								
Method: peristaltic		4.89	.037	25.0	202	6.84	0.00	
Monitor Reading (ppm): —		4.84	.034	24.1	80	6.17	0.00	
Well Casing Diameter & Material		4.84	.034	23.5	14	5.60	0.00	
Type: 2" PVC		4.68	.035	23.3	165	6.96	0.00	
Total Well Depth (TD): 21.78		4.67	.034	23.8	25	6.00	0.00	
Static Water Level (WL): 19.72		4.73	.034	23.6	9	5.65	0.00	
One Casing Volume(gal/L): .35								
Start Purge (hrs): 1335								
End Purge (hrs): 1410								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): ~1.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
EDB	none	3 x 40ml glass	
VOCs	HCl	2 x 40ml glass	
PAH	none	2 x 1L amber	
TRPH	H_2SO_4	" " "	
Total Pb	HNO_3	1 x .5L plastic	

OBSERVATIONS / NOTES:

DO = 6.9 mg/L
Fe = 0.01 mg/L
ORP = 278.3 mV
H_2S = 0.00 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

SB 7/21

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

OLFB07MW14GW may be mislabeled, but is correct on C-O-

Page 1 of 1

Project Site Name: OLF Branson
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: ~~OLFB07MW14GW~~
Sample Location: ~~Site 1169~~ MW14
Sampled By: JB
C.O.C. No.:
Type of Sample: Site 1107
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7-12-00								
Time: 1527								
Method: peristaltic	clear	5.37	.055	24.2	0.50	6.73	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7-12-00								
Method: peristaltic	Initial	6.16	.062	26.9	450	14.07	0.00	
Monitor Reading (ppm): —	1st	5.30	.060	25.5	19	9.23	0.00	
Well Casing Diameter & Material	2nd	5.31	.058	24.4	3.1	6.09	0.00	
Type: 2" PVC	3rd	5.36	.057	24.2	0.95	7.66	0.00	
Total Well Depth (TD): 21.41	4th	5.33	.056	24.1	1.3	7.60	0.00	
Static Water Level (WL): 20.23	5th	5.37	.055	24.2	0.50	6.73	0.00	
One Casing Volume(gal/L): 0.2								
Start Purge (hrs): 1411								
End Purge (hrs): 1525								
Total Purge Time (min): 74 min								
Total Vol. Purged (gal/L): ~1 g								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
~~PAHs~~ VOC	HCl	40 mL Vial	2
TRPH	H_2SO_4	1 L Amber	2
Lead	HNO_3	.5 L Amber	1

OBSERVATIONS / NOTES:

DO = 6.7 mg/L
ORP = 292.8 mV
Fe = 0.00 mg/L
HS = 0.00 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

UTILITY GUYS 195

MW15

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: OLFB BRONSON
Project No.: N0401

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: OLFB/07/MW15/GW
Sample Location: SITE 1107
Sampled By: RDB
C.O.C. No.:
Type of Sample:
[x] Low Concentration
[ ] High Concentration

ESB 7/14 1500

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7/12/00								
Time: 1500								
Method: LOW FLOW	CLEAR	4.54	.035	23.4	9.83	5.45	—	

PURGE DATA:

Date: 7/12/00	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: LOW FLOW	INITIAL	4.99	.039	24.3	298	6.43	—	CLOUDY
Monitor Reading (ppm): —	1405	4.97	.040	24.2	210	5.99	—	CLOUDY
Well Casing Diameter & Material Type: 2" PVC	1410	4.52	.036	23.7	49.0	6.02	—	CLOUDY
	1415	4.43	.035	23.5	34.9	6.02	—	CLOUDY
Total Well Depth (TD): 34.03	1420	4.50	.035	23.4	24.3	5.92	—	CLEAR
Static Water Level (WL): 21.18	1425	4.49	.035	23.4	20.6	5.92	—	CLEAR
One Casing Volume(gal/L): 2.1	1430	4.50	.035	23.4	18.7	5.93	—	CLEAR
Start Purge (hrs): 1355	1435	4.51	.035	23.5	13.9	5.90	—	CLEAR
End Purge (hrs): 1450	1440	4.51	.035	23.5	9.92	5.92	—	CLEAR
Total Purge Time (min): 55	1445	4.54	.035	23.5	8.95	5.73	—	CLEAR
Total Vol. Purged (gal/L): 63	1450	4.54	.035	23.4	9.33	5.45	—	CLEAR

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL	2x40 mL VIAL	2
TRPH	H_2SO_4	2x1000 mL AMBER	2
PAH	ICE	2x1000 mL AMBER	2
EDB	ICE	3x40 mL VIAL	3
TOTAL Pb	HNO_3	1x500 mL PLASTIC	1

OBSERVATIONS / NOTES:

SAMPLES PLACED ON ICE

DO = 7.6 mg/L
ORP = 293.8 mV
Fe = 0.08 mg/L
HS = 0.00 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: OLF Branson site 1107
Project No.: 0401

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: OLFB07MW16GW
Sample Location: 1107 MW16
Sampled By: JA
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7 12 00	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0910								
Method: peristaltic	Clear	4.71	.065	22.4	0.00	4.73	0.00	

PURGE DATA:

Date: 7 12 00	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic		3.98	.172	23.8	193	6.40	0.00	
Monitor Reading (ppm): —	1st	4.60	.067	22.6	39	5.30	0.00	
Well Casing Diameter & Material	2nd	4.71	.065	22.4	16	5.08	0.00	
Type: 2" PVC	3rd	4.71	.065	22.4	∅	4.73	0.00	
Total Well Depth (TD): 24.24								
Static Water Level (WL): 21.88								
One Casing Volume(gal/L): 0.4								
Start Purge (hrs): 0845								
End Purge (hrs): 0910								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 2 g								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	2 x 40 ml glass	
EDB	none	3 x 40 ml glass	
TRPH	H_2SO_4	2 x 1 l amber	
PAH	none	" "	
Total Pb	HNO_3	1 x .5 l plastic	

OBSERVATIONS / NOTES:

DO = 6.6 mg/L
ORP = 337.5 mV
Fe = 0.00 mg/L
HS = 0.00 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.: ~~OLFB0001~~ OLFB07DP01

Signature(s):

OK
SB 7/20/00

ATTACHMENT E

GROUNDWATER AND SOIL LABORATORY REPORTS

Tetra Tech NUS, Inc. **Internal Correspondence**

TO: **Mr. Gerald Walker** **DATE: August 22, 2000**

FROM: **William Howard Engle** **CC: File**

SUBJECT: **Inorganic Data Validation – Total Lead**
CTO112 – NAS Pensacola
SDG F7025

SAMPLES: **13/Aqueous**

OLFB07D001	OLFB07MW02GW	OLFB07MW03GW
OLFB07MW06GW	OLFB07MW07GW	OLFB07MW09GW
OLFB07MW10GW	OLFB07MW11GW	OLFB07MW12GW
OLFB07MW13GW	OLFB07MW14GW	OLFB07MW15GW
OLFB07MW16GW		

OVERVIEW

The sample set for CTO112, SDG F7025; Naval Air Station Pensacola, Pensacola, Florida consists of thirteen (13) aqueous environmental samples. This SDG also contained one (1) duplicate pair (OLFB07D001 / OLFB07MW16GW). The environmental samples were analyzed for Total Lead.

The samples were collected by Tetra Tech NUS on July 12, 2000 and analyzed by Accutest Southeast Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 6010A analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- * Data Completeness
- * Holding Times
- * Initial/continuing calibrations
- Laboratory method/field quality control blank results
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Supporting documentation is presented in Appendix C. Qualified analytical results are presented in Appendix A. The original laboratory data is contained in Appendix B.

Laboratory Blank Analysis

Lead was detected in the laboratory method / preparation blanks at the following maximum concentration:

Affected samples: All, except samples OLFB07MW03GW, OLFB07MW06GW, OLFB07MW07GW, and OLFB07MW13GW

Analyte	Maximum Concentration (ug/L)	Action Level (ug/L)
Lead	2.6	13

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in continuing calibration blank. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level for lead were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Field Duplicate Summary

Analyte	OLFB07MW16GW	OLFB07D001
	No positive results	No positive results

Executive Summary

Laboratory performance: Lead was detected in the calibration blanks. Several samples were qualified for blank contamination.

Other factors affecting data quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Inorganic Data Validation (February, 1994), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

William Howard Engle

Project Chemist
Tetra Tech NUS, Inc.

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech NUS, Inc.

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B – Results as reported by the laboratory
3. Appendix C – Supporting Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning r < 0.995 (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

UJ - Nondetected result is considered to be estimated as a result of technical noncompliances.

APPENDIX A

Qualified Analytical Results

F7025

HOLDING TIME
08/08/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	OLFB07D001	F7025-12	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW02GW	F7025-3	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW03GW	F7025-10	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW06GW	F7025-6	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW07GW	F7025-2	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW09GW	F7025-11	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW10GW	F7025-5	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW11GW	F7025-4	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW12GW	F7025-14	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW13GW	F7025-7	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW14GW	F7025-9	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW15GW	F7025-8	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW16GW	F7025-1	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	07TB071200	F7025-13	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07D001	F7025-12	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07MW02GW	F7025-3	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW03GW	F7025-10	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW06GW	F7025-6	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW07GW	F7025-2	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW09GW	F7025-11	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW10GW	F7025-5	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW11GW	F7025-4	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW12GW	F7025-14	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07MW13GW	F7025-7	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW14GW	F7025-9	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07D001			OLFB07MW02GW			OLFB07MW03GW			OLFB07MW06GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-12			F7025-3			F7025-10			F7025-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	2.7	~~B~~ U	A	2.0	~~B~~ U	A	1.6	U		1.6	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW07GW			OLFB07MW09GW			OLFB07MW10GW			OLFB07MW11GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-2			F7025-11			F7025-5			F7025-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	1.6	U		2.6	~~B~~ U	A	1.7	~~B~~ U	A	1.7	~~B~~ U	A

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW12GW			OLFB07MW13GW			OLFB07MW14GW			OLFB07MW15GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-14			F7025-7			F7025-9			F7025-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	3.1	~~B~~ U	A	1.6	U		2.8	~~B~~ U	A	2.7	~~B~~ U	A

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW16GW											
SAMPLE DATE:	07/12/00			/ /			/ /			/ /		
LABORATORY ID:	F7025-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	2.3	~~BU~~	A									

APPENDIX B

Results as Reported by the Laboratory

Report of Analysis

Client Sample ID:	OLFB07D001		
Lab Sample ID:	F7025-12	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.7 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW02GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-3	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Lead	2.0 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW03GW		
Lab Sample ID:	F7025-10	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Lead	1.6 U	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW06GW		
Lab Sample ID:	F7025-6	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	1.6 U	5.0	ug/l	1	07/14/00	07/17/00 JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW07GW		
Lab Sample ID:	F7025-2	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	1.6 U	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW09GW		
Lab Sample ID:	F7025-11	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.6 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW10GW		
Lab Sample ID:	F7025-5	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	1.7 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW11GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-4	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Lead	1.7 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW12GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-14	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Lead	3.1 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW13GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-7	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	1.6 U	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW14GW		
Lab Sample ID:	F7025-9	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.8 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW15GW		
Lab Sample ID:	F7025-8	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
		Percent Solids:	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.7 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OLFB07MW16GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-1	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Project:	NAS Pensacola		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method
Lead	2.3 B	5.0	ug/l	1	07/14/00	07/17/00	JK	SW846 6010A

RL = Reporting Limit

Tetra Tech NUS, Inc. **Internal Correspondence**

TO: **Mr. Gerald Walker** **DATE: August 21, 2000**

FROM: **William Howard Engle** **CC: File**

SUBJECT: **Organic Data Validation – VOA, EDB, PAH, and TRPH**
CTO112 – NAS Pensacola
SDG F7025

SAMPLES: **14/Aqueous**

07TB071200	OLFB07D001	OLFB07MW02GW
OLFB07MW03GW	OLFB07MW06GW	OLFB07MW07GW
OLFB07MW09GW	OLFB07MW10GW	OLFB07MW11GW
OLFB07MW12GW	OLFB07MW13GW	OLFB07MW14GW
OLFB07MW15GW	OLFB07MW16GW	

OVERVIEW

The sample set for CTO112, SDG F7025; Naval Air Station Pensacola, Pensacola, Florida consists of thirteen (13) aqueous environmental samples and one (1) trip blank. A duplicate pair (OLFB07D001/OLFB07MW16GW) is also included in this SDG. The environmental samples, with the exception of sample 19TB071200, were analyzed for Benzene, Toluene, Ethylbenzene, Total Xylenes, and Methyl-tert-butyl ether (VOCs), ethylene dibromide (EDB), polycyclic aromatic hydrocarbons (PAHs), and total residual petroleum hydrocarbons (TRPHs). Sample 19TB070600 was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on July 12, 2000 and analyzed by Accutest Southeast Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8021B (VOCs), EPA method 504.1 (EDB), SW-846 method 8310 (PAHs), and FL-PRO (TRPHs) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Laboratory method/field quality control blank results
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Supporting documentation is presented in Appendix C. Qualified analytical results are presented in Appendix A. The original laboratory data is contained in Appendix B.

Volatile Fraction

All quality control criteria were met for this fraction.

EDB

All quality control criteria were met for this fraction.

Polycyclic Aromatic Hydrocarbon Fraction

The MS/MSD %R for chrysene was below the lower control limit, but the LCS %R for chrysene was acceptable. Therefore, only the sample spiked and its duplicate, OLFB07MW07GW & OLFB07D001, were qualified as estimated "J".

Total Residual Petroleum Fraction

The MS/MSD %R for TRPH was below the lower control limit, but the LCS %R for TROH was acceptable. Therefore, only the sample spiked and its duplicate, OLFB07MW07GW & OLFB07D001, were qualified as estimated "J".

Duplicate Summary

Analyte	OLFB07MW16GW	OLFB07D001
	No positives reported	No positives reported

Executive Summary

Laboratory performance: The MS/MSD %R for chrysene and TRPH was below the lower control limit. The sample spiked was qualified as estimated "J"

Other factors affecting data quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1996), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

William Howard Engle

Project Chemist
Tetra Tech NUS, Inc.

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech NUS, Inc.

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B – Results as reported by the laboratory
3. Appendix C – Supporting Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - Include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

UJ - Nondetected result is considered to be estimated as a result of technical noncompliances.

APPENDIX A

Qualified Analytical Results

F7025

HOLDING TIME
08/08/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	OLFB07D001	F7025-12	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW02GW	F7025-3	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW03GW	F7025-10	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW06GW	F7025-6	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW07GW	F7025-2	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW09GW	F7025-11	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW10GW	F7025-5	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW11GW	F7025-4	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW12GW	F7025-14	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW13GW	F7025-7	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW14GW	F7025-9	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW15GW	F7025-8	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	OLFB07MW16GW	F7025-1	NORMAL	F7025	M	07/12/00	07/14/00	07/17/00	2	3	5
UG/L	07TB071200	F7025-13	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07D001	F7025-12	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07MW02GW	F7025-3	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW03GW	F7025-10	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW06GW	F7025-6	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW07GW	F7025-2	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW09GW	F7025-11	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW10GW	F7025-5	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW11GW	F7025-4	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW12GW	F7025-14	NORMAL	F7025	OV	07/12/00	/ /	07/23/00	0	0	11
UG/L	OLFB07MW13GW	F7025-7	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9
UG/L	OLFB07MW14GW	F7025-9	NORMAL	F7025	OV	07/12/00	/ /	07/21/00	0	0	9

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	07TB071200			OLFB07D001			OLFB07MW02GW			OLFB07MW03GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-13			F7025-12			F7025-3			F7025-10		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,2-DIBROMOETHANE				0.02	U		0.02	U		0.02	U	
BENZENE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	2	U		2	U		2	U		0.98	J	P
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
XYLENES, TOTAL	6	U		6	U		6	U		6	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW06GW			OLFB07MW07GW			OLFB07MW09GW			OLFB07MW10GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-6			F7025-2			F7025-11			F7025-5		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,2-DIBROMOETHANE	0.02	U		0.02	U		0.02	U		0.02	U	
BENZENE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
XYLENES, TOTAL	6	U		6	U		6	U		6	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW11GW			OLFB07MW12GW			OLFB07MW13GW			OLFB07MW14GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-4			F7025-14			F7025-7			F7025-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,2-DIBROMOETHANE	0.02	U		0.02	U		0.02	U		0.02	U	
BENZENE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
XYLENES, TOTAL	6	U		6	U		6	U		6	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW15GW	OLFB07MW16GW		
SAMPLE DATE:	07/12/00	07/12/00	/ /	/ /
LABORATORY ID:	F7025-8	F7025-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,2-DIBROMOETHANE	0.02	U		0.02	U							
BENZENE	1	U		1	U							
ETHYLBENZENE	2	U		2	U							
METHYL TERT-BUTYL ETHER	2	U		2	U							
TOLUENE	2	U		2	U							
XYLENES, TOTAL	6	U		6	U							

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07D001			OLFB07MW02GW			OLFB07MW03GW			OLFB07MW06GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-12			F7025-3			F7025-10			F7025-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		2.2	U		12.3			2	J	P
2-METHYLNAPHTHALENE	2	U		2.2	U		14.2			2.2		
ACENAPHTHENE	2	U		2.2	U		8	U		2.2	U	
ACENAPHTHYLENE	2	U		2.2	U		8	U		2.2	U	
ANTHRACENE	2	U		2.2	U		2	U		2.2	U	
BENZO(A)ANTHRACENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(A)PYRENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(B)FLUORANTHENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(K)FLUORANTHENE	0.2	U		0.22	U		0.2	U		0.22	U	
CHRYSENE	2	U J	D	2.2	U		2	U		4.4	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.22	U		0.2	U		0.22	U	
FLUORANTHENE	2	U		2.2	U		2	U		2.2	U	
FLUORENE	2	U		2.2	U		8	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.22	U		0.2	U		0.22	U	
NAPHTHALENE	2	U		2.2	U		11.5			1.8	J	
PHENANTHRENE	2	U		2.2	U		8	U		2.2	U	
PYRENE	2	U		2.2	U		2	U		2.2	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW07GW			OLFB07MW09GW			OLFB07MW10GW			OLFB07MW11GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-2			F7025-11			F7025-5			F7025-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		2.2	U		2.2	U		2.2	U	
2-METHYLNAPHTHALENE	2	U		2.2	U		2.2	U		2.2	U	
ACENAPHTHENE	2	U		2.2	U		2.2	U		2.2	U	
ACENAPHTHYLENE	2	U		2.2	U		2.2	U		2.2	U	
ANTHRACENE	2	U		2.2	U		2.2	U		2.2	U	
BENZO(A)ANTHRACENE	0.2	U		0.22	U		0.22	U		0.22	U	
BENZO(A)PYRENE	0.2	U		0.22	U		0.22	U		0.22	U	
BENZO(B)FLUORANTHENE	0.2	U		0.22	U		0.22	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.22	U		0.22	U		0.22	U	
BENZO(K)FLUORANTHENE	0.2	U		0.22	U		0.22	U		0.22	U	
CHRYSENE	2	UJ	D	2.2	U		2.2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.22	U		0.22	U		0.22	U	
FLUORANTHENE	2	U		2.2	U		2.2	U		2.2	U	
FLUORENE	2	U		2.2	U		2.2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.22	U		0.22	U		0.22	U	
NAPHTHALENE	2	U		2.2	U		2.2	U		2.2	U	
PHENANTHRENE	2	U		2.2	U		2.2	U		2.2	U	
PYRENE	2	U		2.2	U		2.2	U		2.2	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW12GW			OLFB07MW13GW			OLFB07MW14GW			OLFB07MW15GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-14			F7025-7			F7025-9			F7025-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.4	U		2.2	U		2.2	U		2.2	U	
2-METHYLNAPHTHALENE	2.4	U		2.2	U		2.2	U		2.2	U	
ACENAPHTHENE	2.4	U		2.2	U		2.2	U		2.2	U	
ACENAPHTHYLENE	2.4	U		2.2	U		2.2	U		2.2	U	
ANTHRACENE	2.4	U		2.2	U		2.2	U		2.2	U	
BENZO(A)ANTHRACENE	0.24	U		0.22	U		0.22	U		0.22	U	
BENZO(A)PYRENE	0.24	U		0.22	U		0.22	U		0.22	U	
BENZO(B)FLUORANTHENE	0.24	U		0.22	U		0.22	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.24	U		0.22	U		0.22	U		0.22	U	
BENZO(K)FLUORANTHENE	0.24	U		0.22	U		0.22	U		0.22	U	
CHRYSENE	2.4	U		2.2	U		2.2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.24	U		0.22	U		0.22	U		0.22	U	
FLUORANTHENE	2.4	U		2.2	U		2.2	U		2.2	U	
FLUORENE	2.4	U		2.2	U		2.2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.24	U		0.22	U		0.22	U		0.22	U	
NAPHTHALENE	2.4	U		2.2	U		2.2	U		2.2	U	
PHENANTHRENE	2.4	U		2.2	U		2.2	U		2.2	U	
PYRENE	2.4	U		2.2	U		2.2	U		2.2	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW16GW											
SAMPLE DATE:	07/12/00			/ /			/ /			/ /		
LABORATORY ID:	F7025-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U										
2-METHYLNAPHTHALENE	2	U										
ACENAPHTHENE	2	U										
ACENAPHTHYLENE	2	U										
ANTHRACENE	2	U										
BENZO(A)ANTHRACENE	0.2	U										
BENZO(A)PYRENE	0.2	U										
BENZO(B)FLUORANTHENE	0.2	U										
BENZO(G,H,I)PERYLENE	0.2	U										
BENZO(K)FLUORANTHENE	0.2	U										
CHRYSENE	2	U										
DIBENZO(A,H)ANTHRACENE	0.2	U										
FLUORANTHENE	2	U										
FLUORENE	2	U										
INDENO(1,2,3-CD)PYRENE	0.2	U										
NAPHTHALENE	2	U										
PHENANTHRENE	2	U										
PYRENE	2	U										

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07D001			OLFB07MW02GW			OLFB07MW03GW			OLFB07MW06GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-12			F7025-3			F7025-10			F7025-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	0.28	UJ	D	0.232	J	P	1.65			0.843		

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW07GW			OLFB07MW09GW			OLFB07MW10GW			OLFB07MW11GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-2			F7025-11			F7025-5			F7025-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	1.86	J	D	0.278	J	P	0.28	U		0.25	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW12GW			OLFB07MW13GW			OLFB07MW14GW			OLFB07MW15GW		
SAMPLE DATE:	07/12/00			07/12/00			07/12/00			07/12/00		
LABORATORY ID:	F7025-14			F7025-7			F7025-9			F7025-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	0.3	U		0.3	U		0.28	U		0.25	U	

CTO112-NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7025

SAMPLE NUMBER:	OLFB07MW16GW											
SAMPLE DATE:	07/12/00			/ /			/ /			/ /		
LABORATORY ID:	F7025-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	0.28	U										

APPENDIX B

Results as Reported by the Laboratory

Report of Analysis

Client Sample ID:	07TB071200		
Lab Sample ID:	F7025-13	**Date Sampled:**	07/12/00
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001305.D	1	07/23/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	87%		69-128%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	92%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07D001		
Lab Sample ID:	F7025-12	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001306.D	1	07/23/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	81%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW02GW		
Lab Sample ID:	F7025-3	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001288.D	1	07/21/00	JG	n/a	n/a	VB39
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	84%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW03GW		
Lab Sample ID:	F7025-10	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001295.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	0.98	2.0	ug/l	J
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	83%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	89%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW06GW		
Lab Sample ID:	F7025-6	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001291.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	84%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	88%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW07GW		
Lab Sample ID:	F7025-2	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001287.D	1	07/21/00	JG	n/a	n/a	VB39
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW09GW		
Lab Sample ID:	F7025-11	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001296.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		69-128%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	89%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW10GW		
Lab Sample ID:	F7025-5	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001290.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		69-128%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW11GW		
Lab Sample ID:	F7025-4	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001289.D	1	07/21/00	JG	n/a	n/a	VB39
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	80%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW12GW		
Lab Sample ID:	F7025-14	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001307.D	1	07/23/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	80%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW13GW		
Lab Sample ID:	F7025-7	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001292.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW14GW		
Lab Sample ID:	F7025-9	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001294.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW15GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-8	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	SW846 8260B		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B001293.D	1	07/21/00	JG	n/a	n/a	VB40
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	86%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW16GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-1	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	SW846 8260B		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B001286.D	1	07/21/00	JG	n/a	n/a	VB39
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		69-128%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	88%		80-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07D001		
Lab Sample ID:	F7025-12	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15103.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW02GW		
Lab Sample ID:	F7025-3	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15093.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW03GW		
Lab Sample ID:	F7025-10	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15101.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW06GW		
Lab Sample ID:	F7025-6	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15096.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW07GW		
Lab Sample ID:	F7025-2	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15089.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW09GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-11	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	EPA 504.1		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15102.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW10GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-5	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	EPA 504.1		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15095.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW11GW		
Lab Sample ID:	F7025-4	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15094.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW12GW		
Lab Sample ID:	F7025-14	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15104.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW13GW		
Lab Sample ID:	F7025-7	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15097.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW14GW		
Lab Sample ID:	F7025-9	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15100.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW15GW		
Lab Sample ID:	F7025-8	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 504.1	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15098.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW16GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-1	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	EPA 504.1		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB15088.D	1	07/21/00	SKW	n/a	n/a	GAB549
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07D001		
Lab Sample ID:	F7025-12	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003105.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		29-133%
92-94-4	p-Terphenyl	85%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW02GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-3	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	EPA 8310		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003095.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		29-133%
92-94-4	p-Terphenyl	78%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW03GW		
Lab Sample ID:	F7025-10	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003103.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2 [a]	AA003136.D	4	07/21/00	CCJ	07/19/00	OP1844	GAA102

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	8.0	ug/l	
208-96-8	Acenaphthylene	ND [b]	8.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [b]	8.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	11.5 [b]	8.0	ug/l	
90-12-0	1-Methylnaphthalene	12.3 [b]	8.0	ug/l	
91-57-6	2-Methylnaphthalene	14.2 [b]	8.0	ug/l	
85-01-8	Phenanthrene	ND [b]	8.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%	63%	29-133%
92-94-4	p-Terphenyl	89%	85%	33-133%

(a) Dilution required due to matrix interference.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW06GW		
Lab Sample ID:	F7025-6	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003098.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene [a]	ND	4.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	1.8	2.2	ug/l	J
90-12-0	1-Methylnaphthalene	2.0	2.2	ug/l	J
91-57-6	2-Methylnaphthalene	2.2	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		29-133%
92-94-4	p-Terphenyl	83%		33-133%

(a) Elevated reporting limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW07GW		
Lab Sample ID:	F7025-2	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003094.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	43%		29-133%
92-94-4	p-Terphenyl	62%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW09GW		
Lab Sample ID:	F7025-11	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003104.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		29-133%
92-94-4	p-Terphenyl	76%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW10GW	**Date Sampled:**	07/12/00
Lab Sample ID:	F7025-5	**Date Received:**	07/13/00
Matrix:	AQ - Ground Water	**Percent Solids:**	n/a
Method:	EPA 8310		
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003097.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		29-133%
92-94-4	p-Terphenyl	89%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW11GW		
Lab Sample ID:	F7025-4	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003096.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		29-133%
92-94-4	p-Terphenyl	92%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW12GW		
Lab Sample ID:	F7025-14	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003106.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.4	ug/l	
208-96-8	Acenaphthylene	ND	2.4	ug/l	
120-12-7	Anthracene	ND	2.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.24	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.24	ug/l	
218-01-9	Chrysene	ND	2.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.24	ug/l	
206-44-0	Fluoranthene	ND	2.4	ug/l	
86-73-7	Fluorene	ND	2.4	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.24	ug/l	
91-20-3	Naphthalene	ND	2.4	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.4	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.4	ug/l	
85-01-8	Phenanthrene	ND	2.4	ug/l	
129-00-0	Pyrene	ND	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		29-133%
92-94-4	p-Terphenyl	77%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW13GW		
Lab Sample ID:	F7025-7	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003099.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		29-133%
92-94-4	p-Terphenyl	91%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW14GW		
Lab Sample ID:	F7025-9	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003102.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		29-133%
92-94-4	p-Terphenyl	90%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW15GW		
Lab Sample ID:	F7025-8	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003101.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.2	ug/l	
208-96-8	Acenaphthylene	ND	2.2	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		29-133%
92-94-4	p-Terphenyl	86%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW16GW		
Lab Sample ID:	F7025-1	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	EPA 8310	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003093.D	1	07/20/00	CCJ	07/19/00	OP1844	GAA102
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		29-133%
92-94-4	p-Terphenyl	93%		33-133%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07D001		
Lab Sample ID:	F7025-12	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09763.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW02GW		
Lab Sample ID:	F7025-3	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09753.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.232	0.25	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW03GW		
Lab Sample ID:	F7025-10	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09761.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.65	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW06GW		
Lab Sample ID:	F7025-6	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09757.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.843	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW07GW		
Lab Sample ID:	F7025-2	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP09778.D	2	07/26/00	CCJ	07/18/00	OP1843	GOP415
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.86	0.60	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		40-140%

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogenity.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW09GW		
Lab Sample ID:	F7025-11	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09762.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.278	0.28	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW10GW		
Lab Sample ID:	F7025-5	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09755.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW11GW		
Lab Sample ID:	F7025-4	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09754.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW12GW		
Lab Sample ID:	F7025-14	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09764.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW13GW		
Lab Sample ID:	F7025-7	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09758.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW14GW		
Lab Sample ID:	F7025-9	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09760.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW15GW		
Lab Sample ID:	F7025-8	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09759.D	1	07/26/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB07MW16GW		
Lab Sample ID:	F7025-1	**Date Sampled:**	07/12/00
Matrix:	AQ - Ground Water	**Date Received:**	07/13/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP09751.D	1	07/25/00	CCJ	07/18/00	OP1843	GOP414
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Tetra Tech NUS, Inc. **Internal Correspondence**

TO:	**Mr. Gerald Walker**	**DATE:**	**October 2, 2000**
FROM:	**William Howard Engle**	**CC:**	**File**
SUBJECT:	**Organic Data Validation – VOC, PAH, and TRPH CTO112 – NAS Pensacola SDG F7308**		

SAMPLES: **9/Solid**

OLFB1107DUP	**OLFB1107SB-1, 17-20'**	**OLFB1107SB-2, 18-20'**
OLFB1107SB-3, 18-20'	**OLFB1107SB-4, 19-20'**	**OLFB1107SB-5, 19-20'**
OLFB1107SB-6, 18-20'	**OLFB1107SB-7, 18-20'**	**OLFB1107SB-8, 18-20'**

1/Aqueous

Trip Blank

OVERVIEW

The sample set for CTO112, SDG F7308; Naval Air Station Pensacola, Pensacola, Florida consists of nine (9) solid environmental samples and one (1) trip blank. This SDG contains one (1) duplicate set: OLFB1107DUP/OLFB1107SB-7, 18-20'. The environmental samples were analyzed for Volatile Organic Carbons (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), and Total Residual Petroleum Hydrocarbons (TRPHs). The trip blank was analyzed only for VOCs.

The samples were collected by Tetra Tech NUS on August 9, 2000 and analyzed by Accutest Southeast Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8260B (VOCs), SW-846 method 8310 (PAHs), and FL-PRO (TRPHs) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Laboratory method/field quality control blank results
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Supporting documentation is presented in Appendix C. Qualified analytical results are presented in Appendix A. The original laboratory data is contained in Appendix B.

Volatile Fraction

The MS/MSD %R for 2-CEVE was below the lower control limit. The sample spiked, OLFB1107SB-2, 18-20', was qualified estimated "J" due to MS/MSD analysis noncompliance.

Polycylcic Aromatic Hydrocarbon Fraction

All quality control criteria were met for this fraction.

Total Residual Petroleum Fraction

All quality control criteria were met for this fraction.

Duplicate Summary

Compound	OLFB1107DUP (ug/kg)	OLFB1107SB-7, 18-20' (ug/kg)	%RPD
Ethylbenzene	364	175	70
Xylenes	1740	830	71
1-methylnaphthalene	20000	5900	109
2-methylnaphthalene	23600	7160	192
Fluorene	3950	ND	--
Phenanthrene	7360	ND	--
Pyrene	9420	ND	--
TRPH	16300	13300	20

As a result of duplicate imprecision, the values for Ethylbenzene, Xylenes, 1-Methylnaphthalene, and 2-Methylnaphthalene were qualified estimated "J". Fluorene, Phenanthrene, and Pyrene were not because the detection limit for the sample is elevated above the detected hits.

Executive Summary

Laboratory performance: The MS/MS %R for 2-CEVE was below the lower control limits. The spiked sample was qualified estimated "J", due to MS/MSD noncompliance.

Other factors affecting data quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1996), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

William Howard Engle

Project Chemist
Tetra Tech NUS, Inc.

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech NUS, Inc.

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B – Results as reported by the laboratory
3. Appendix C – Supporting Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995
K = ICP Interference - Include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning r < 0.995 (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U	-	Value is a nondetected result as reported by the laboratory and should not be considered present.
J	-	Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.
UJ	-	Nondetected result is considered to be estimated as a result of technical noncompliances.

APPENDIX A

Qualified Analytical Results

F7308

HOLDING TIME
08/31/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	OLFB1107DUP-1	F7308-7	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-1, 17-20'	F7308-1	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-2, 18-20'	F7308-2	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-3, 18-20'	F7308-3	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-4, 19-20'	F7308-4	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-5, 19-20'	F7308-5	NORMAL	F7308	OV	08/09/00	/ /	08/23/00	0	0	14
UG/KG	OLFB1107SB-6, 18-20'	F7308-6	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-7, 18-20'	F7308-8	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107SB-8, 18-20'	F7308-9	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/L	TRIP BLANK	F7308-10	NORMAL	F7308	OV	08/09/00	/ /	08/22/00	0	0	13
UG/KG	OLFB1107DUP-1	F7308-7	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-1, 17-20'	F7308-1	NORMAL	F7308	PAH	08/09/00	08/11/00	08/15/00	2	4	6
UG/KG	OLFB1107SB-2, 18-20'	F7308-2	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-3, 18-20'	F7308-3	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-4, 19-20'	F7308-4	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-5, 19-20'	F7308-5	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-6, 18-20'	F7308-6	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-7, 18-20'	F7308-8	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
UG/KG	OLFB1107SB-8, 18-20'	F7308-9	NORMAL	F7308	PAH	08/09/00	08/11/00	08/16/00	2	5	7
MG/KG	OLFB1107DUP-1	F7308-7	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4
MG/KG	OLFB1107SB-1, 17-20'	F7308-1	NORMAL	F7308	TPH	08/09/00	08/11/00	08/12/00	2	1	3
MG/KG	OLFB1107SB-2, 18-20'	F7308-2	NORMAL	F7308	TPH	08/09/00	08/11/00	08/12/00	2	1	3
MG/KG	OLFB1107SB-3, 18-20'	F7308-3	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4
MG/KG	OLFB1107SB-4, 19-20'	F7308-4	NORMAL	F7308	TPH	08/09/00	08/11/00	08/12/00	2	1	3
MG/KG	OLFB1107SB-5, 19-20'	F7308-5	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	OLFB1107SB-6, 18-20'	F7308-6	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4
MG/KG	OLFB1107SB-7, 18-20'	F7308-8	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4
MG/KG	OLFB1107SB-8, 18-20'	F7308-9	NORMAL	F7308	TPH	08/09/00	08/11/00	08/13/00	2	2	4

NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	TRIP BLANK											
SAMPLE DATE:	08/09/00			/ /			/ /			/ /		
LABORATORY ID:	F7308-10											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U										
1,1,2,2-TETRACHLOROETHANE	2	U										
1,1,2-TRICHLOROETHANE	2	U										
1,1-DICHLOROETHANE	2	U										
1,1-DICHLOROETHENE	2	U										
1,2 DICHLOROBENZENE	2	U										
1,2-DICHLOROETHANE	2	U										
1,2-DICHLOROPROPANE	2	U										
1,3 DICHLOROBENZENE	2	U										
1,4-DICHLOROBENZENE	2	U										
2-CHLOROETHYL VINYL ETHER	5	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	2	U										
BROMOFORM	2	U										
BROMOMETHANE	5	U										
CARBON TETRACHLORIDE	2	U										
CHLOROBENZENE	2	U										
CHLOROETHANE	5	U										
CHLOROFORM	2	U										
CHLOROMETHANE	5	U										
CIS-1,2-DICHLOROETHENE	2	U										
CIS-1,3-DICHLOROPROPENE	2	U										
DIBROMOCHLOROMETHANE	2	U										
DICHLORODIFLUOROMETHANE	5	U										
ETHYLBENZENE	2	U										
METHYL TERT-BUTYL ETHER	2	U										
METHYLENE CHLORIDE	5	U										
TETRACHLOROETHENE	2	U										
TOLUENE	2	U										
TRANS-1,2-DICHLOROETHENE	2	U										
TRANS-1,3-DICHLOROPROPENE	2	U										
TRICHLOROETHENE	2	U										
TRICHLOROFLUOROMETHANE	5	U										

NAS PENSACOLA
WATER DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	TRIP BLANK			
SAMPLE DATE:	08/09/00	/ /	/ /	/ /
LABORATORY ID:	F7308-10			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
VINYL CHLORIDE	1	U										
XYLENES, TOTAL	6	U										

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107DUP-1	OLFB1107SB-1, 17-20'	OLFB1107SB-2, 18-20'	OLFB1107SB-3, 18-20'
SAMPLE DATE:	08/09/00	08/09/00	08/09/00	08/09/00
LABORATORY ID:	F7308-7	F7308-1	F7308-2	F7308-3
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	88.9 %	81.9 %	79.2 %	90.4 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:	OLFB1107SB-7, 18-20'			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
1,1,2,2-TETRACHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
1,1,2-TRICHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
1,1-DICHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
1,1-DICHLOROETHENE	280	U		5.6	U		5.8	U		270	U	
1,2 DICHLOROBENZENE	280	U		5.6	U		5.8	U		270	U	
1,2-DICHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
1,2-DICHLOROPROPANE	280	U		5.6	U		5.8	U		270	U	
1,3 DICHLOROBENZENE	280	U		5.6	U		5.8	U		270	U	
1,4-DICHLOROBENZENE	280	U		5.6	U		5.8	U		270	U	
2-CHLOROETHYL VINYL ETHER	560	U		11	U		12	UJ	D	540	U	
BENZENE	280	U		5.6	U		5.8	U		270	U	
BROMODICHLOROMETHANE	280	U		5.6	U		5.8	U		270	U	
BROMOFORM	280	U		5.6	U		5.8	U		270	U	
BROMOMETHANE	280	U		5.6	U		5.8	U		270	U	
CARBON TETRACHLORIDE	280	U		5.6	U		5.8	U		270	U	
CHLOROBENZENE	280	U		5.6	U		5.8	U		270	U	
CHLOROETHANE	280	U		5.6	U		5.8	U		270	U	
CHLOROFORM	280	U		5.6	U		5.8	U		270	U	
CHLOROMETHANE	280	U		5.6	U		5.8	U		270	U	
CIS-1,2-DICHLOROETHENE	280	U		5.6	U		5.8	U		270	U	
CIS-1,3-DICHLOROPROPENE	280	U		5.6	U		5.8	U		270	U	
DIBROMOCHLOROMETHANE	280	U		5.6	U		5.8	U		270	U	
DICHLORODIFLUOROMETHANE	280	U		5.6	U		5.8	U		270	U	
ETHYLBENZENE	364	J	G	5.6	U		5.8	U		270	U	
METHYL TERT-BUTYL ETHER	280	U		5.6	U		5.8	U		270	U	
METHYLENE CHLORIDE	560	U		11	U		12	U		540	U	
TETRACHLOROETHENE	280	U		5.6	U		5.8	U		270	U	
TOLUENE	280	U		5.6	U		5.8	U		270	U	
TRANS-1,2-DICHLOROETHENE	280	U		5.6	U		5.8	U		270	U	
TRANS-1,3-DICHLOROPROPENE	280	U		5.6	U		5.8	U		270	U	
TRICHLOROETHENE	280	U		5.6	U		5.8	U		270	U	
TRICHLOROFLUOROMETHANE	280	U		5.6	U		5.8	U		270	U	

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107DUP-1			OLFB1107SB-1, 17-20'			OLFB1107SB-2, 18-20'			OLFB1107SB-3, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-7			F7308-1			F7308-2			F7308-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	88.9 %			81.9 %			79.2 %			90.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
VINYL CHLORIDE	280	U		5.6	U		5.8	U		270	U	
XYLENES, TOTAL	1740	J	G	17	U		18	U		810	U	

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-4, 19-20'			OLFB1107SB-5, 19-20'			OLFB1107SB-6, 18-20'			OLFB1107SB-7, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-4			F7308-5			F7308-6			F7308-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			97.0 %			92.6 %			88.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
1,1,2,2-TETRACHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
1,1,2-TRICHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
1,1-DICHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
1,1-DICHLOROETHENE	300	U		5.8	U		6.2	U		270	U	
1,2 DICHLOROBENZENE	300	U		5.8	U		6.2	U		270	U	
1,2-DICHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
1,2-DICHLOROPROPANE	300	U		5.8	U		6.2	U		270	U	
1,3 DICHLOROBENZENE	300	U		5.8	U		6.2	U		270	U	
1,4-DICHLOROBENZENE	300	U		5.8	U		6.2	U		270	U	
2-CHLOROETHYL VINYL ETHER	600	U		12	U		12	U		540	U	
BENZENE	300	U		5.8	U		6.2	U		270	U	
BROMODICHLOROMETHANE	300	U		5.8	U		6.2	U		270	U	
BROMOFORM	300	U		5.8	U		6.2	U		270	U	
BROMOMETHANE	300	U		5.8	U		6.2	U		270	U	
CARBON TETRACHLORIDE	300	U		5.8	U		6.2	U		270	U	
CHLOROBENZENE	300	U		5.8	U		6.2	U		270	U	
CHLOROETHANE	300	U		5.8	U		6.2	U		270	U	
CHLOROFORM	300	U		5.8	U		6.2	U		270	U	
CHLOROMETHANE	300	U		5.8	U		6.2	U		270	U	
CIS-1,2-DICHLOROETHENE	300	U		5.8	U		6.2	U		270	U	
CIS-1,3-DICHLOROPROPENE	300	U		5.8	U		6.2	U		270	U	
DIBROMOCHLOROMETHANE	300	U		5.8	U		6.2	U		270	U	
DICHLORODIFLUOROMETHANE	300	U		5.8	U		6.2	U		270	U	
ETHYLBENZENE	300	U		5.8	U		6.2	U		175	J	G
METHYL TERT-BUTYL ETHER	300	U		5.8	U		6.2	U		270	U	
METHYLENE CHLORIDE	600	U		12	U		12	U		540	U	
TETRACHLOROETHENE	300	U		5.8	U		6.2	U		270	U	
TOLUENE	300	U		5.8	U		6.2	U		270	U	
TRANS-1,2-DICHLOROETHENE	300	U		5.8	U		6.2	U		270	U	
TRANS-1,3-DICHLOROPROPENE	300	U		5.8	U		6.2	U		270	U	
TRICHLOROETHENE	300	U		5.8	U		6.2	U		270	U	
TRICHLOROFLUOROMETHANE	300	U		5.8	U		6.2	U		270	U	

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-4, 19-20'			OLFB1107SB-5, 19-20'			OLFB1107SB-6, 18-20'			OLFB1107SB-7, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-4			F7308-5			F7308-6			F7308-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			97.0 %			92.6 %			88.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
VINYL CHLORIDE	300	U		5.8	U		6.2	U		270	U	
XYLENES, TOTAL	910	U		17	U		19	U		830	J	G

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-8, 18-20'			
SAMPLE DATE:	08/09/00	/ /	/ /	/ /
LABORATORY ID:	F7308-9			
QC_TYPE:	NORMAL			
% SOLIDS:	92.1 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	270	U										
1,1,2,2-TETRACHLOROETHANE	270	U										
1,1,2-TRICHLOROETHANE	270	U										
1,1-DICHLOROETHANE	270	U										
1,1-DICHLOROETHENE	270	U										
1,2 DICHLOROBENZENE	270	U										
1,2-DICHLOROETHANE	270	U										
1,2-DICHLOROPROPANE	270	U										
1,3 DICHLOROBENZENE	270	U										
1,4-DICHLOROBENZENE	270	U										
2-CHLOROETHYL VINYL ETHER	540	U										
BENZENE	270	U										
BROMODICHLOROMETHANE	270	U										
BROMOFORM	270	U										
BROMOMETHANE	270	U										
CARBON TETRACHLORIDE	270	U										
CHLOROBENZENE	270	U										
CHLOROETHANE	270	U										
CHLOROFORM	270	U										
CHLOROMETHANE	270	U										
CIS-1,2-DICHLOROETHENE	270	U										
CIS-1,3-DICHLOROPROPENE	270	U										
DIBROMOCHLOROMETHANE	270	U										
DICHLORODIFLUOROMETHANE	270	U										
ETHYLBENZENE	1620											
METHYL TERT-BUTYL ETHER	270	U										
METHYLENE CHLORIDE	540	U										
TETRACHLOROETHENE	270	U										
TOLUENE	51.3	J										
TRANS-1,2-DICHLOROETHENE	270	U										
TRANS-1,3-DICHLOROPROPENE	270	U										
TRICHLOROETHENE	270	U										
TRICHLOROFLUOROMETHANE	270	U										

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-8, 18-20'			
SAMPLE DATE:	08/09/00	/ /	/ /	/ /
LABORATORY ID:	F7308-9			
QC_TYPE:	NORMAL			
% SOLIDS:	92.1 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
VINYL CHLORIDE	270	U										
XYLENES, TOTAL	3120											

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107DUP-1			OLFB1107SB-1, 17-20'			OLFB1107SB-2, 18-20'			OLFB1107SB-3, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-7			F7308-1			F7308-2			F7308-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	88.9 %			81.9 %			79.2 %			90.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	20000	J	G	410	U		420	U		11000	J	P
2-METHYLNAPHTHALENE	23600	J	G	410	U		420	U		9060	J	P
ACENAPHTHENE	30000	U		810	U		840	U		30000	U	
ACENAPHTHYLENE	30000	U		810	U		840	U		30000	U	
ANTHRACENE	15000	U		410	U		420	U		15000	U	
BENZO(A)ANTHRACENE	15000	U		81	U		84	U		15000	U	
BENZO(A)PYRENE	3000	U		81	U		84	U		3000	U	
BENZO(B)FLUORANTHENE	3000	U		81	U		84	U		3000	U	
BENZO(G,H,I)PERYLENE	3000	U		81	U		84	U		3000	U	
BENZO(K)FLUORANTHENE	3000	U		81	U		84	U		3000	U	
CHRYSENE	15000	U		410	U		420	U		15000	U	
DIBENZO(A,H)ANTHRACENE	3000	U		81	U		84	U		3000	U	
FLUORANTHENE	30000	U		410	U		420	U		30000	U	
FLUORENE	3950	J		410	U		420	U		15000	U	
INDENO(1,2,3-CD)PYRENE	3000	U		81	U		84	U		3000	U	
NAPHTHALENE	15000	U		410	U		420	U		15000	U	
PHENANTHRENE	7360	J		410	U		420	U		6070	J	P
PYRENE	9420	J		410	U		420	U		7860	J	P

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-4, 19-20'			OLFB1107SB-5, 19-20'			OLFB1107SB-6, 18-20'			OLFB1107SB-7, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-4			F7308-5			F7308-6			F7308-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			97.0 %			92.6 %			88.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	8710	J	P	340	U		360	U		5900	J	PG
2-METHYLNAPHTHALENE	9820	J	P	340	U		360	U		7160	J	PG
ACENAPHTHENE	30000	U		690	U		720	U		30000	U	
ACENAPHTHYLENE	30000	U		690	U		720	U		30000	U	
ANTHRACENE	15000	U		340	U		360	U		15000	U	
BENZO(A)ANTHRACENE	15000	U		69	U		72	U		15000	U	
BENZO(A)PYRENE	3000	U		69	U		72	U		3000	U	
BENZO(B)FLUORANTHENE	3000	U		69	U		72	U		3000	U	
BENZO(G,H,I)PERYLENE	3000	U		69	U		72	U		3000	U	
BENZO(K)FLUORANTHENE	3000	U		69	U		72	U		3000	U	
CHRYSENE	15000	U		340	U		360	U		15000	U	
DIBENZO(A,H)ANTHRACENE	3000	U		69	U		72	U		3000	U	
FLUORANTHENE	30000	U		340	U		360	U		15000	U	
FLUORENE	15000	U		340	U		360	U		15000	U	
INDENO(1,2,3-CD)PYRENE	3000	U		69	U		72	U		3000	U	
NAPHTHALENE	15000	U		340	U		360	U		15000	U	
PHENANTHRENE	15000	U		340	U		360	U		15000	U	
PYRENE	4460	J	P	340	U		360	U		15000	U	

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-8, 18-20'			/ /			/ /			/ /		
SAMPLE DATE:	08/09/00											
LABORATORY ID:	F7308-9											
QC_TYPE:	NORMAL											
% SOLIDS:	92.1 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	8550											
2-METHYLNAPHTHALENE	11400											
ACENAPHTHENE	7200	U										
ACENAPHTHYLENE	7200	U										
ANTHRACENE	3600	U										
BENZO(A)ANTHRACENE	720	U										
BENZO(A)PYRENE	760											
BENZO(B)FLUORANTHENE	1110											
BENZO(G,H,I)PERYLENE	903											
BENZO(K)FLUORANTHENE	444	J	P									
CHRYSENE	3600	U										
DIBENZO(A,H)ANTHRACENE	720	U										
FLUORANTHENE	3600	U										
FLUORENE	3600	U										
INDENO(1,2,3-CD)PYRENE	964											
NAPHTHALENE	2380	J	P									
PHENANTHRENE	2140	J	P									
PYRENE	3600	U										

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107DUP-1			OLFB1107SB-1, 17-20'			OLFB1107SB-2, 18-20'			OLFB1107SB-3, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-7			F7308-1			F7308-2			F7308-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	88.9 %			81.9 %			79.2 %			90.4 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	16300			10	U		10	U		19800		

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-4, 19-20'			OLFB1107SB-5, 19-20'			OLFB1107SB-6, 18-20'			OLFB1107SB-7, 18-20'		
SAMPLE DATE:	08/09/00			08/09/00			08/09/00			08/09/00		
LABORATORY ID:	F7308-4			F7308-5			F7308-6			F7308-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			97.0 %			92.6 %			88.2 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	11400			8.6	U		9	U		13300		

NAS PENSACOLA
SOIL DATA
Accutest, NJ
SDG: F7308

SAMPLE NUMBER:	OLFB1107SB-8, 18-20'			
SAMPLE DATE:	08/09/00	/ /	/ /	/ /
LABORATORY ID:	F7308-9			
QC_TYPE:	NORMAL			
% SOLIDS:	92.1 %	100.0 %	100.0 %	100.0 %
UNITS:	MG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	5540											

APPENDIX B

Results as Reported by the Laboratory

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F7308-10	**Date Sampled:**	08/09/00
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0000047.D	1	08/22/00	JG	n/a	n/a	VC2
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F7308-10	**Date Sampled:**	08/09/00
Matrix:	AQ - Trip Blank Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		69-128%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	106%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107DUP-1		
Lab Sample ID:	F7308-7	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009021.D	50	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	280	ug/kg	
75-27-4	Bromodichloromethane	ND	280	ug/kg	
75-25-2	Bromoform	ND	280	ug/kg	
108-90-7	Chlorobenzene	ND	280	ug/kg	
75-00-3	Chloroethane	ND	280	ug/kg	
67-66-3	Chloroform	ND	280	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	560	ug/kg	
56-23-5	Carbon tetrachloride	ND	280	ug/kg	
75-34-3	1,1-Dichloroethane	ND	280	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	280	ug/kg	
107-06-2	1,2-Dichloroethane	ND	280	ug/kg	
78-87-5	1,2-Dichloropropane	ND	280	ug/kg	
124-48-1	Dibromochloromethane	ND	280	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	280	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	280	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	280	ug/kg	
541-73-1	m-Dichlorobenzene	ND	280	ug/kg	
95-50-1	o-Dichlorobenzene	ND	280	ug/kg	
106-46-7	p-Dichlorobenzene	ND	280	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	280	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	280	ug/kg	
100-41-4	Ethylbenzene	364	280	ug/kg	
74-83-9	Methyl bromide	ND	280	ug/kg	
74-87-3	Methyl chloride	ND	280	ug/kg	
75-09-2	Methylene chloride	ND	560	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	280	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	280	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	280	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	280	ug/kg	
127-18-4	Tetrachloroethylene	ND	280	ug/kg	
108-88-3	Toluene	ND	280	ug/kg	
79-01-6	Trichloroethylene	ND	280	ug/kg	
75-69-4	Trichlorofluoromethane	ND	280	ug/kg	
75-01-4	Vinyl chloride	ND	280	ug/kg	
1330-20-7	Xylene (total)	1740	850	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107DUP-1		
Lab Sample ID:	F7308-7	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	109%		53-158%
17060-07-0	1,2-Dichloroethane-D4	95%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-1, 17-20'		
Lab Sample ID:	F7308-1	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	81.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009015.D	1	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	ug/kg	
75-25-2	Bromoform	ND	5.6	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	5.6	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.6	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-1, 17-20'		
Lab Sample ID:	F7308-1	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	81.9
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	97%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-2, 18-20'		
Lab Sample ID:	F7308-2	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	79.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009016.D	1	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.8	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	18	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-2, 18-20'		
Lab Sample ID:	F7308-2	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	79.2
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-3, 18-20'		
Lab Sample ID:	F7308-3	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	90.4
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H009017.D	50	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	540	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
541-73-1	m-Dichlorobenzene	ND	270	ug/kg	
95-50-1	o-Dichlorobenzene	ND	270	ug/kg	
106-46-7	p-Dichlorobenzene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	ND	270	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	540	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-69-4	Trichlorofluoromethane	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	ND	810	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-3, 18-20'		
Lab Sample ID:	F7308-3	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	90.4
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	103%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	96%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-4, 19-20'		
Lab Sample ID:	F7308-4	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	87.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H009018.D	50	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	300	ug/kg	
75-27-4	Bromodichloromethane	ND	300	ug/kg	
75-25-2	Bromoform	ND	300	ug/kg	
108-90-7	Chlorobenzene	ND	300	ug/kg	
75-00-3	Chloroethane	ND	300	ug/kg	
67-66-3	Chloroform	ND	300	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	600	ug/kg	
56-23-5	Carbon tetrachloride	ND	300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	300	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	300	ug/kg	
107-06-2	1,2-Dichloroethane	ND	300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	300	ug/kg	
124-48-1	Dibromochloromethane	ND	300	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	300	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	300	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	300	ug/kg	
541-73-1	m-Dichlorobenzene	ND	300	ug/kg	
95-50-1	o-Dichlorobenzene	ND	300	ug/kg	
106-46-7	p-Dichlorobenzene	ND	300	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	300	ug/kg	
100-41-4	Ethylbenzene	ND	300	ug/kg	
74-83-9	Methyl bromide	ND	300	ug/kg	
74-87-3	Methyl chloride	ND	300	ug/kg	
75-09-2	Methylene chloride	ND	600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	300	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	300	ug/kg	
127-18-4	Tetrachloroethylene	ND	300	ug/kg	
108-88-3	Toluene	ND	300	ug/kg	
79-01-6	Trichloroethylene	ND	300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	300	ug/kg	
75-01-4	Vinyl chloride	ND	300	ug/kg	
1330-20-7	Xylene (total)	ND	910	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-4, 19-20'		
Lab Sample ID:	F7308-4	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	87.9
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	104%		53-158%
17060-07-0	1,2-Dichloroethane-D4	92%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-5, 19-20'		
Lab Sample ID:	F7308-5	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009032.D	1	08/23/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.8	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.8	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.8	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-5, 19-20'		
Lab Sample ID:	F7308-5	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	101%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-6, 18-20'		
Lab Sample ID:	F7308-6	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	92.6
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009020.D	1	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	6.2	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	ug/kg	
75-25-2	Bromoform	ND	6.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	ug/kg	
75-00-3	Chloroethane	ND	6.2	ug/kg	
67-66-3	Chloroform	ND	6.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	ug/kg	
100-41-4	Ethylbenzene	ND	6.2	ug/kg	
74-83-9	Methyl bromide	ND	6.2	ug/kg	
74-87-3	Methyl chloride	ND	6.2	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.2	ug/kg	
108-88-3	Toluene	ND	6.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	ug/kg	
1330-20-7	Xylene (total)	ND	19	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-6, 18-20'		
Lab Sample ID:	F7308-6	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	92.6
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-7, 18-20'		
Lab Sample ID:	F7308-8	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	88.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009022.D	50	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	540	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
541-73-1	m-Dichlorobenzene	ND	270	ug/kg	
95-50-1	o-Dichlorobenzene	ND	270	ug/kg	
106-46-7	p-Dichlorobenzene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	175	270	ug/kg	J
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	540	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-69-4	Trichlorofluoromethane	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	830	800	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-7, 18-20'		
Lab Sample ID:	F7308-8	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	88.2
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	103%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	93%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-8, 18-20'		
Lab Sample ID:	F7308-9	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009023.D	50	08/22/00	JG	n/a	n/a	VH126
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	540	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
541-73-1	m-Dichlorobenzene	ND	270	ug/kg	
95-50-1	o-Dichlorobenzene	ND	270	ug/kg	
106-46-7	p-Dichlorobenzene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	1620	270	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	540	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	51.3	270	ug/kg	J
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-69-4	Trichlorofluoromethane	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	3120	810	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-8, 18-20'		
Lab Sample ID:	F7308-9	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	NAS Pensacola		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	93%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Sample Summary

Tetra-Tech, NUS

Job No: F7308

NAS Pensacola
Project No: CTO#112, JOB#0401

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F7308-1	08/09/00	09:10 DH	08/10/00	SO	Soil	OLFB1107SB-1, 17-20'
F7308-2	08/09/00	09:45 DH	08/10/00	SO	Soil	OLFB1107SB-2, 18-20'
F7308-3	08/09/00	10:15 DH	08/10/00	SO	Soil	OLFB1107SB-3, 18-20'
F7308-4	08/09/00	11:20 DH	08/10/00	SO	Soil	OLFB1107SB-4, 19-20'
F7308-5	08/09/00	12:00 DH	08/10/00	SO	Soil	OLFB1107SB-5, 19-20'
F7308-6	08/09/00	12:30 DH	08/10/00	SO	Soil	OLFB1107SB-6, 18-20'
F7308-7	08/09/00	00:00 DH	08/10/00	SO	Soil	OLFB1107DUP-1
F7308-8	08/09/00	13:25 DH	08/10/00	SO	Soil	OLFB1107SB-7, 18-20'
F7308-9	08/09/00	13:45 DH	08/10/00	SO	Soil	OLFB1107SB-8, 18-20'
F7308-10	08/09/00	00:00 DH	08/10/00	AQ	Trip Blank Soil	TRIP BLANK

Report of Analysis

Client Sample ID:	OLFB1107DUP-1		
Lab Sample ID:	F7308-7	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	88.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA003807.D	40	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	30000	ug/kg	
208-96-8	Acenaphthylene	ND	30000	ug/kg	
120-12-7	Anthracene	ND	15000	ug/kg	
56-55-3	Benzo(a)anthracene [b]	ND	15000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3000	ug/kg	
218-01-9	Chrysene	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3000	ug/kg	
206-44-0	Fluoranthene [b]	ND	30000	ug/kg	
86-73-7	Fluorene	3950	15000	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3000	ug/kg	
91-20-3	Naphthalene	ND	15000	ug/kg	
90-12-0	1-Methylnaphthalene	20000	15000	ug/kg	
91-57-6	2-Methylnaphthalene	23600	15000	ug/kg	
85-01-8	Phenanthrene	7360	15000	ug/kg	J
129-00-0	Pyrene	9420	15000	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [c]		22-130%
92-94-4	p-Terphenyl	0% [c]		53-130%

(a) Dilution required due to matrix interference.
(b) Estimated value due to matrix interference.
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-7, 18-20'		
Lab Sample ID:	F7308-8	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	88.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA003808.D	40	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	30000	ug/kg	
208-96-8	Acenaphthylene	ND	30000	ug/kg	
120-12-7	Anthracene	ND	15000	ug/kg	
56-55-3	Benzo(a)anthracene [b]	ND	15000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3000	ug/kg	
218-01-9	Chrysene	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3000	ug/kg	
206-44-0	Fluoranthene	ND	15000	ug/kg	
86-73-7	Fluorene	ND	15000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3000	ug/kg	
91-20-3	Naphthalene	ND	15000	ug/kg	
90-12-0	1-Methylnaphthalene	5900	15000	ug/kg	J
91-57-6	2-Methylnaphthalene	7160	15000	ug/kg	J
85-01-8	Phenanthrene	ND	15000	ug/kg	
129-00-0	Pyrene	ND	15000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [c]		22-130%
92-94-4	p-Terphenyl	0% [c]		53-130%

(a) Dilution required due to matrix interference.
(b) Elevated reporting limits due to matrix interference.
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-1, 17-20'		
Lab Sample ID:	F7308-1	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	81.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003798.D	1	08/15/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	810	ug/kg	
208-96-8	Acenaphthylene	ND	810	ug/kg	
120-12-7	Anthracene	ND	410	ug/kg	
56-55-3	Benzo(a)anthracene	ND	81	ug/kg	
50-32-8	Benzo(a)pyrene	ND	81	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	81	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	81	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	81	ug/kg	
218-01-9	Chrysene	ND	410	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	81	ug/kg	
206-44-0	Fluoranthene	ND	410	ug/kg	
86-73-7	Fluorene	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	81	ug/kg	
91-20-3	Naphthalene	ND	410	ug/kg	
90-12-0	1-Methylnaphthalene	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	ug/kg	
85-01-8	Phenanthrene	ND	410	ug/kg	
129-00-0	Pyrene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		22-130%
92-94-4	p-Terphenyl	94%		53-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-2, 18-20'		
Lab Sample ID:	F7308-2	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	79.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003799.D	1	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	840	ug/kg	
208-96-8	Acenaphthylene	ND	840	ug/kg	
120-12-7	Anthracene	ND	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	84	ug/kg	
50-32-8	Benzo(a)pyrene	ND	84	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	84	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	84	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	84	ug/kg	
218-01-9	Chrysene	ND	420	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	84	ug/kg	
206-44-0	Fluoranthene	ND	420	ug/kg	
86-73-7	Fluorene	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	84	ug/kg	
91-20-3	Naphthalene	ND	420	ug/kg	
90-12-0	1-Methylnaphthalene	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	420	ug/kg	
129-00-0	Pyrene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		22-130%
92-94-4	p-Terphenyl	93%		53-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-3, 18-20'		
Lab Sample ID:	F7308-3	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	90.4
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA003805.D	40	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	30000	ug/kg	
208-96-8	Acenaphthylene	ND	30000	ug/kg	
120-12-7	Anthracene	ND	15000	ug/kg	
56-55-3	Benzo(a)anthracene [b]	ND	15000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3000	ug/kg	
218-01-9	Chrysene	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3000	ug/kg	
206-44-0	Fluoranthene [b]	ND	30000	ug/kg	
86-73-7	Fluorene	ND	15000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3000	ug/kg	
91-20-3	Naphthalene	ND	15000	ug/kg	
90-12-0	1-Methylnaphthalene	11000	15000	ug/kg	J
91-57-6	2-Methylnaphthalene	9060	15000	ug/kg	J
85-01-8	Phenanthrene	6070	15000	ug/kg	J
129-00-0	Pyrene	7860	15000	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [c]		22-130%
92-94-4	p-Terphenyl	0% [c]		53-130%

(a) Dilution required due to matrix interference.
(b) Elevated reporting limits due to matrix interference.
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-4, 19-20'		
Lab Sample ID:	F7308-4	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	87.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA003806.D	40	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	30000	ug/kg	
208-96-8	Acenaphthylene	ND	30000	ug/kg	
120-12-7	Anthracene	ND	15000	ug/kg	
56-55-3	Benzo(a)anthracene [b]	ND	15000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3000	ug/kg	
218-01-9	Chrysene	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3000	ug/kg	
206-44-0	Fluoranthene [b]	ND	30000	ug/kg	
86-73-7	Fluorene	ND	15000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3000	ug/kg	
91-20-3	Naphthalene	ND	15000	ug/kg	
90-12-0	1-Methylnaphthalene	8710	15000	ug/kg	J
91-57-6	2-Methylnaphthalene	9820	15000	ug/kg	J
85-01-8	Phenanthrene	ND	15000	ug/kg	
129-00-0	Pyrene	4460	15000	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [c]		22-130%
92-94-4	p-Terphenyl	0% [c]		53-130%

(a) Dilution required due to matrix interference.
(b) Elevated reporting limits due to matrix interference.
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-5, 19-20'		
Lab Sample ID:	F7308-5	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	97.0
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003800.D	1	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	690	ug/kg	
208-96-8	Acenaphthylene	ND	690	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	69	ug/kg	
50-32-8	Benzo(a)pyrene	ND	69	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	69	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	69	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	69	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	69	ug/kg	
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	69	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
90-12-0	1-Methylnaphthalene	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		22-130%
92-94-4	p-Terphenyl	95%		53-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-6, 18-20'		
Lab Sample ID:	F7308-6	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	92.6
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA003801.D	1	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	720	ug/kg	
208-96-8	Acenaphthylene	ND	720	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	72	ug/kg	
50-32-8	Benzo(a)pyrene	ND	72	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	72	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	72	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	72	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	72	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	72	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
90-12-0	1-Methylnaphthalene	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		22-130%
92-94-4	p-Terphenyl	98%		53-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-8, 18-20'		
Lab Sample ID:	F7308-9	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	EPA 8310	**Percent Solids:**	92.1
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA003809.D	10	08/16/00	NF	08/11/00	OP1938	GAA120
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	7200	ug/kg	
208-96-8	Acenaphthylene	ND	7200	ug/kg	
120-12-7	Anthracene	ND	3600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	720	ug/kg	
50-32-8	Benzo(a)pyrene	760	720	ug/kg	
205-99-2	Benzo(b)fluoranthene	1110	720	ug/kg	
191-24-2	Benzo(g,h,i)perylene	903	720	ug/kg	
207-08-9	Benzo(k)fluoranthene	444	720	ug/kg	J
218-01-9	Chrysene	ND	3600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	720	ug/kg	
206-44-0	Fluoranthene	ND	3600	ug/kg	
86-73-7	Fluorene	ND	3600	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	964	720	ug/kg	
91-20-3	Naphthalene	2380	3600	ug/kg	J
90-12-0	1-Methylnaphthalene	8550	3600	ug/kg	
91-57-6	2-Methylnaphthalene	11400	3600	ug/kg	
85-01-8	Phenanthrene	2140	3600	ug/kg	J
129-00-0	Pyrene	ND	3600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		22-130%
92-94-4	p-Terphenyl	26% [b]		53-130%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107DUP-1		
Lab Sample ID:	F7308-7	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	88.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10205.D	500	08/13/00	ME	08/11/00	OP1936	GOP424
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	16300	4700	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-1, 17-20'		
Lab Sample ID:	F7308-1	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	81.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10178.D	1	08/12/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-2, 18-20'		
Lab Sample ID:	F7308-2	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	79.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10179.D	1	08/12/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-3, 18-20'		
Lab Sample ID:	F7308-3	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	90.4
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10204.D	500	08/13/00	ME	08/11/00	OP1936	GOP424
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	19800	4600	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% *		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-4, 19-20'		
Lab Sample ID:	F7308-4	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	87.9
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10181.D	200	08/12/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	11400	1900	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-5, 19-20'		
Lab Sample ID:	F7308-5	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	97.0
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10184.D	1	08/13/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	8.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-6, 18-20'		
Lab Sample ID:	F7308-6	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	92.6
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10185.D	1	08/13/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-7, 18-20'		
Lab Sample ID:	F7308-8	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	88.2
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10206.D	400	08/13/00	ME	08/11/00	OP1936	GOP424
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	13300	3800	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% *		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OLFB1107SB-8, 18-20'		
Lab Sample ID:	F7308-9	**Date Sampled:**	08/09/00
Matrix:	SO - Soil	**Date Received:**	08/10/00
Method:	FLORIDA-PRO	**Percent Solids:**	92.1
Project:	NAS Pensacola		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP10188.D	200	08/13/00	ME	08/11/00	OP1936	GOP423
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	5540	1800	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% *		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ATTACHMENT F

SOIL SAMPLING FIELD FORMS AND LITHOLOGIC LOGS

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.: 0401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-1
Sample Location: Site 1107
Sampled By: OH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00			
Time: 0910	17-20'		
Method: DPT			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
TRPH	4 Oz w/m x 1	✓	
PAH	" " "	✓	
% Solid	" " "	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: OLF-B NAS Pensacola Bronson Site 1107
PROJECT NUMBER: CTO 112 N0401
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No: SB-1
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
					Loose to very loose	Buff to light brown	silty sand	SC	Hand Auger to 4' BGS				
		NA	NA			Yellowish brown	silty sand (mottled)		fine-med. sand	0	0	0	0
	5		11/48"										
							Sand	SC	moist No odor	0	0	0	0
	10		12"/48"				color change to predominately light brown to buff to white	SC	No odor	0	0	0	0
	15		44"/48"					SC		0	0	0	0
18-20' analytical sample	20		12"/48"		medium dense		sharp contact with silty clayey sand Yellowish brown	SC	wet seams ~20% silt & clay	0	0	0	0
			16"/48"				sharp change to silty sand		Saturated				
	25					Light brown to buff		SC	No Odor				

Terminated at 24' BGS

* When rock coring, enter rock hardness

** Include monitor reading in 6 foot intervals or borehole. Increase reading frequency if elevated readings read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. # ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[✓] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-2
Sample Location: Site 1107
Sampled By: DH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00	18-20'		
Time: 0945			
Method: DPT			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	3 x Encore	✓	
TRPH	1 x 4oz w/m	✓	
% Solid	1 x 4oz w/m	✓	
PAH	1 x 4oz w/m	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Daniel Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: OLFB NAS Pensacola Bronson Site 107
PROJECT NUMBER: CTO 112 N0401
DRILLING COMPANY: ATT
DRILLING RIG: Geoprobe

BORING No.: SB-2
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		NA	NA		loose to very loose	Buff to light brown	silty sand	SC	Hand Auger to 4' BGS	0	0	0	0
	5		48"/48"			mottled yellowish brown to brown to light brown	silty sand	SC	moist	0	0	0	0
									No odor				
	10		42"/48"					SC		0	0	0	0
	15		36"/48"		gradational color change to white to buff			SC		0	0	0	0
1820 Analyzed Sample			30"/48"										
	20						clay combed with silty clayey sand	SC	wet	0	0	0	0
			42"/48"			yellowish brown		SC	saturated				
						2" thick layer of silty sandy clay		CL	saturated				
						yellowish brown to light brown to buff	silty sand	SC					
	25												

Terminated at 24' BGS

* When rock coring, enter rock brokenness

** Include monitor reading in 6 foot intervals or borehole monitor reading frequency if elevated monitor read

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[x] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-3
Sample Location: site 1107
Sampled By: DH GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00 Time: 1015 Method: DPT Monitor Reading (ppm): 100	18-20		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
TRPH	4 oz w/m x 1	✓	
PAH	↓	✓	
% Solid	↓	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola OLF Bronson Site 1107
PROJECT NUMBER: CTO 112 - N0401
DRILLING COMPANY: ATE
DRILLING RIG: Geoprobe
BORING No: SB-3
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
						Buff to light brown	silty sand	SC	Hand Auger to 4' BGS	0	0	0	0
		N/A	48"										
					Loose to very loose		Mottled yellowish brown to buff to light brown silty sand	SC		0	0	0	0
	5		48"/48"										
									No odor				
	10		42"/48"						Moist				
								SC		0	0	0	0
			36"/48"				Gradational color change to buff to white		No odor				
	15							SC		0	0	0	0
			36"/48"				White silty sand		No odor Moist				
19-20' *	20			Black stain									
									Saturated				
			30"/48"		Stiff		3-8" thick silty sandy clay	CL					
							Sharp contact	SC					
	25						light brown to buff silty clay						

Correct 100

* When rock coring, enter rock brokenness.
** Include monitor reading in 6 foot intervals in bore hole. Increase reading frequency if elevated response read.

Terminated boring at 24' BGS

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[✓] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-4
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00			
Time: 1120	19-20'		
Method: DPT			
Monitor Reading (ppm): 150			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
TRPH	4 oz w/m x 1	✓	
PAH	↓	✓	
% Solid	↓	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Daniel Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: OLF Brunswick Site 1107 — BORING No: SB-4
PROJECT NUMBER: Contract N0401 — DATE: 08-09-00
DRILLING COMPANY: ATT — GEOLOGIST: Gary J. Davis
DRILLING RIG: Geoprobe — DRILLER: Nick D.

Sample No and Type or RQD	Depth (Ft) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
						Buff to light brown			Hand auger				
							silty sand	SL	to 4' BGS	0	0	0	0
		NA	NA		loose								
					to								
	5				very		mottled yellowish		No Odor				
			42"/46"		loose		brown to buff to white						
							silty sand	SL					
										0	0	0	0
									moist				
	10		42"/46"				sand						
								SL		0	0	0	0
			42"/46"				sand		no odor				
	15												
							Gradational color change	SL		0	0	0	0
							to buff to white						
			42"/46"							8	0		
(14-20' Analyzed)					Black staining from Free-Product of Bunker C oil								
	20								wet	360	210		150
Last Sample Not Taken													
					Terminated boring at 20' BGS								
	25												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I D #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-5
Sample Location: Site 1107
Sampled By: DH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00	19-20'		
Time: 1200			
Method: DPT			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
TRPH	4oz w/m x 1	✓	
PAH	↓	✓	
% Solid		✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola OLF Bronson Site 1107
PROJECT NUMBER: CTO 112 N6401
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-5
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							Buff to light brown silty sand		Hand Auger to 4'				
					loose			SC		0	0	0	0
		NA	NA		to								
					very loose				No Odor				
	5						Mottled yellowish brown to buff to white silty sand						
			42"/48"										
								SC		0	0	0	0
	10						Same						
			42"/48"										
								SC		0	0	0	0
							Same		No Odor				
	15		42"/48"										
							gradational color change to buff to white			2/0			2
								SC					
18-20' Analytical			42"/48"				Same			2/2			0
	20						yellowish brown silty clayey sand at bottom	SC	No Odor				
					Terminated boring at 20' BLS								

* When rock coring, enter rock brokenness.

** Include monitor reading in 5 foot intervals of borehole. Increase reading frequency if elevated response read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-6
Sample Location: Site 1107
Sampled By: DH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00	18-20'		
Time: 1230			
Method: DPT			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	8/9/00	
TRPH	4 oz x 1	↓	
PAH	↓	↓	
% Solid	↓	↓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola OLF Bronson Site 1107
PROJECT NUMBER: CTO 112 N0401
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No: SB-6
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
						Buff to light brown			Hand Auger				
		NA	NA		Loose to very loose		silty sand.	SL	to 4'	0	0	0	0
								SL					
	5					mottled yellow with brown to Buff to white	silty sand		moist				
			42" / 48"						No Odor				
								SL		0	0	0	0
	10		36" / 48"				Same						
								SL	moist	0	0	0	0
			42" / 48"				Same		No Odor				
	15							SL		0	0	0	0
Analyzed *			42" / 48"				Same		damp	0	0	0	0
	20						yellowish brown silty clayey sand	SL	wet				
							Terminated boring @ 20' BGS						

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals in borehole. Increase reading frequency if elevated response read.

Remarks.

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[x] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-7
Sample Location: Site 1107
Sampled By: DH 6D
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00	18-20'		
Time: 1325			
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
PAH	4oz w/m x 1	✓	
TRPH	↓	✓	
% Solid		✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc

BORING LOG

PROJECT NAME: NAS Pensacola OLF Bronson Site 1107
PROJECT NUMBER: CTO 112 N04001
DRILLING COMPANY: ATK
DRILLING RIG: Geoprobe

BORING No: SB-7
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
					Loose to very loose	Buff to light brown	silty sand	SC	Hand Auge to 4'	0	0	0	0
		NA	NA			Yellowish to reddish brown	silty sand						
	5		42"/48"										
								SC		0	0	0	0
									moist				
	10		36"/48"										
								SC		0	0	0	0
			42"/48"						moist				
	15					gradational color change to buff to white		SC		0	0	0	0
			42"/46"			Reddish brown silty sand	silty sand		damp.				
18:20 Analytical Sample	20					Dark Gray to black stained	soil with Free Product	SC		260	110		150
						Terminated boring at 20' BGS							

Corrected

* When rock coring, enter rock hardness

** Include monitor reading in 6 foot intervals at borehole. Increase reading frequency if elevated response read

Drilling Area Background (ppm): 0

Remarks: Taking Duplicate analytical sample

Converted to Well: Yes ____ No ✓ Well I.D #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: OLF Bronson
Project No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: OLFB1107SB-8
Sample Location: Site 1107
Sampled By: DH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/9/00	18-20'		
Time: 1345			
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	✓	
TRPH	4 oz w/m x 1	✓	
PAH	"	✓	
% Solid	"	✓	

OBSERVATIONS / NOTES:

MAP:

Circle If Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

Page 1 of 1

PROJECT NAME: NAS Pensacola OLF Bronson Site 1107
PROJECT NUMBER: CTO112 N0401
DRILLING COMPANY: LTE
DRILLING RIG: Geoprobe

BORING No.: SB-8
DATE: 08-09-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole*	Drifter BZ**	
						Dark Reddish brown			Hand Auge to 4'					correct
		NA	NA		Loose to very loose		silty sand w/a 20% clay	SC		0	0	0	0	
	5						mottled brown to dark reddish brown		Moist					
			11/16/11/16					SC		0	0	0	0	
									No Odor					
	10		11/12/16/18											
								SC		0	0	0	0	
									Moist					
			26/11/48											
	15						Sharp color change to light brown Reddish brown silty sand	SC		20/0				20
									Moist					
18-20' for Analysis			30/11/48											
	20						Dark Gray to Black stained	SC	Free Product.	260/90				170
							Terminated boring at 20' BLS							

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals of borehole. Increase reading frequency if elevated response read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____