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ENHANCED NATURAL ATTENUATION TREATABILITY STUDY FIRST QUARTER GROUNDWATER MONITORING UNDERGROUND STORAGE TANK 1120 NAS PENSACOLA FL

12/1/2003

TETRA TECH

TETRA TECH NUS, INC.
1401 Oven Park Drive, Suite 201 • Tallahassee, FL 32308
Tel 850.385.9899 • Fax 850.385.9860 • www.tetratech.com

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Project Number N4184

Commander
Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Byas Glover (ES24)
2155 Eagle Drive
North Charleston, South Carolina 29419-9010
(PLA: NAVFAC EFD SOUTH CHARLESTON SC)
UIC: 62467

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order Number 0225

Subject: Enhanced Natural Attenuation Treatability Study
First Quarter Groundwater Monitoring Letter Report
Underground Storage Tank (UST) Site 1120
Outlying Landing Field (OLF) Bronson, Naval Air Station (NAS) Pensacola
Pensacola, Florida

Dear Mr. Glover:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Enhanced Natural Attenuation Treatability Study First Quarter Groundwater Monitoring Letter Report for the referenced Contract Task Order (CTO). This report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. This letter report provides the results of the first quarter groundwater monitoring event conducted in September 2003 and summarizes the treatability study activities conducted to date at UST Site 1120.

Site Summary

OLF Bronson is located in northwest Florida, on the east side of Perdido Bay, approximately 5 miles west of Pensacola, Florida and about one mile from the Alabama State Line (Figure 1). OLF Bronson, which consists of approximately 950 acres of grassy areas and forest, is now known as the Blue Angel Recreation Park and is used for recreational purposes. UST Site 1120, located within the confines of OLF Bronson, is the former location of a boiler room associated with Building 1120. Three USTs were used to supply fuel oil to the boiler. The USTs have been removed from the site and the building demolished. The locations of site features and monitoring wells are shown on Figure 2.

Petroleum contamination was observed at the site on June 27, 1994 during the removal of the USTs from Building 1120. UST Closure Assessments were completed in July 1994 and May 1995, followed by the initial Site Assessment completed in August 1997. Upon review of the Site Assessment Report (SAR), the Florida Department of Environmental Protection (FDEP) issued a technical review letter which requested additional site assessment in order to meet the requirements of Chapter 62-770, Florida Administrative Code (FAC). The SAR Addendum (SARA) investigation was conducted in July 2000. Based on the additional site assessment data, the SARA report (May 23, 2001) recommended that

monitored natural attenuation as an appropriate remedy. On August 8, 2001, FDEP issued a request for a Monitoring Only Plan (MOP) proposal for the site. On December 12, 2001, TtNUS submitted to FDEP the MOP proposal for UST Site 1120, which was approved on April 2, 2002 by the FDEP in an Approval Order which outlined the requirements for natural attenuation monitoring at the site.

TtNUS personnel conducted the first and second quarterly groundwater monitoring events in June 2002 and October 2002, respectively. Data collected during these quarterly groundwater monitoring events indicated that FDEP site-specific action levels were exceeded by concentrations of contaminants of concern (COCs) in the groundwater. Based on these results TtNUS recommended that a Remedial Action Plan be prepared for UST Site 1120.

Enhanced Natural Attenuation Treatability Study

To aid in evaluating remedial options for the site, the Enhanced Natural Attenuation Treatability Study is being conducted to determine the effectiveness of oxygen-release compound (ORC®) technology at reducing the contaminant concentrations within the plume area. This strategy relies on maintaining consistently high dissolved oxygen (DO) levels in groundwater to increase the microbial activity, thereby increasing contaminant reduction through aerobic respiration. ORC® is a proprietary product produced by Regenesis Bioremediation Products, of San Clemente, California and is a patented formulation of magnesium peroxide (MgO_2) intercalated with food-grade phosphate that slowly releases molecular oxygen into the aquifer when hydrated [$Mg(OH)_2$]. The phosphate additive provides the time-release properties that are critical in a passive, low-cost oxygen application system. The oxygen consumption rate is dependent upon the level of the contaminant flux. This allows ORC® to release oxygen at a relatively constant rate over an extended period of time. The increase in DO in the aquifer creates aerobic conditions that will stimulate in-situ bioremediation of the petroleum hydrocarbon plume.

The following activities are scoped for the treatability study at UST Site 1120:

- The baseline groundwater monitoring event
- The ORC® injection event
- Four quarters of post-injection groundwater monitoring

The baseline groundwater monitoring event was conducted on June 24, 25 and 26, 2003 and the ORC® injection event was conducted from July 13 to 19, 2003. The locations of the ORC® injection points are shown on Figure 3. Details of the various treatability study tasks are provided in the "Enhanced Natural Attenuation Treatability Study Work Plan for Site 1120, Outlying Landing Field Bronson" submitted in May 2003. The Baseline Monitoring Report, this and subsequent quarterly performance monitoring letter reports and the Treatability Study Evaluation Report will document this treatability study.

Groundwater Monitoring Activities

TtNUS personnel conducted the first quarterly groundwater monitoring event from September 24 through September 26, 2003. The first quarter groundwater monitoring event included:

- Measurement of static water levels (SWLs) in site monitoring wells to determine groundwater elevation/flow direction.

- Collection of groundwater samples from selected monitoring wells for laboratory analysis of previously identified COCs.

- Field and laboratory analyses for natural attenuation parameters.

The locations of site features and monitoring wells are shown on Figure 2.

Groundwater samples for field and laboratory analysis were collected from the following monitoring wells as specified in the treatability study work plan:

- MW-1
- MW-2
- MW-4
- MW-5R
- MW-7
- MW-8
- MW-13R
- MW-14R
- MW-16R
- MW-17
- MW-18
- MW-24
- MW-25
- MW-26
- MW-27
- MW-28
- MW-29
- DMW-35

Two additional monitoring wells, MW-11 and MW-15, were scheduled for sampling in the first quarter, but were dry and could not be sampled.

During the baseline sampling event, groundwater samples were not collected from MW-8 and MW-29. MW-8 was dry and could not be sampled. Monitoring well MW-29 could not be located by the sampling crew and may have been buried by road grading operations. A groundwater sample was collected from monitoring well MW-32 as a replacement for monitoring well MW-29.

Groundwater samples were collected from the monitoring wells in accordance with the current FDEP Standard Operating Procedures (SOPs). Depth-to-water was measured and the wells were purged prior to sample collection. Purging was accomplished with a peristaltic pump using the low flow purge technique. During purging, field parameters (pH, conductivity, temperature, DO, and oxidation-reduction potential) were measured at approximately 5 to 10 minute intervals using a Horiba U-22 multiparameter instrument equipped with a flow-through cell. The instrument was calibrated according to the manufacturer's specifications at the beginning of each day. In addition, turbidity was monitored using a La Motte Turbidimeter.

Following the well purging activities, the groundwater samples were analyzed in the field for the following natural attenuation parameters: ferrous iron, alkalinity, carbon dioxide, DO, and hydrogen sulfide. Groundwater Sample Log Sheets compiled during purging and sampling at each location are also provided in Attachment A.

Laboratory Analysis

Groundwater samples were collected from site monitoring wells for off-site analysis of:

- Benzene, ethylbenzene, toluene, and total xylenes (BTEX) and methyl-tert-butyl ether (MTBE) by United States Environmental Protection Agency (USEPA) SW 846 Method 8260B.
- Polynuclear aromatic hydrocarbons (PAHs) by SW 846 Method 8270 with selective ion monitoring (SIM).
- Total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Range Organics (FL-PRO) method.
- Total Organic Carbon (TOC) by USEPA Method 415.1.
- Sulfate by USEPA Method 375.4.

After collection, groundwater samples were placed on ice and shipped overnight via Federal Express to Katahdin Analytical Services in Westbrook, Maine. The validated groundwater analytical reports are included in Attachment B.

Groundwater Elevation and Flow Direction

The water level data collected on September 24, 2003 are presented in Table 1. The top-of-casing elevations for the monitoring wells at UST Site 1120 were surveyed previously using an arbitrary 30-foot vertical datum (the top-of-casing of MW-1). The water level data were used to estimate groundwater elevation and flow direction at the site (Figure 3). Free product was not detected in the site monitoring wells.

The water level data collected during the first quarter monitoring event indicate that groundwater flow in the UST Site 1120 area is generally to the southwest. A localized groundwater elevation high occurred in the area of MW-5R and the former location of the USTs. This flow direction is consistent with previously reported groundwater flow data. Groundwater elevations measured during the first quarterly monitoring event were 0.8 to 2.1 feet higher than the elevations measured during the baseline sampling event in June 2003.

Groundwater Analytical Results

The analytical results for the groundwater samples collected at UST Site 1120 during the first quarter monitoring event have been compared to the appropriate groundwater cleanup target levels (GCTLs) and site specific natural attenuation action levels. The analytical results for the monitoring wells are summarized in Table 2. The sampling locations with GCTL exceedances are shown on Figure 4.

The following GCTL exceedances were reported in groundwater samples collected from UST Site 1120 during the first quarter sampling event:

Compound	Florida GCTL	Location Detected	Concentration
Naphthalene	20 micrograms per liter (µg/L)	MW-14R	41 µg/L
1-Methylnaphthalene	20 µg/L	MW-14R	76 µg/L
2-Methylnaphthalene	20 µg/L	MW-14R	97 µg/L

The concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene detected in MW-14R are less than the action level of 200 µg/L for each of these compounds established for contaminated wells in the MOP Approval Order.

Natural Attenuation Parameter Results

The field and analytical results for natural attenuation parameters are summarized in Table 3. The measurements recorded during the baseline monitoring event will provide the values against which the trends in parameter concentrations can be determined over the course of the monitoring period. A more detailed discussion of natural attenuation parameter results and trends will be included in the next quarterly monitoring report, when more data will be available.

DO levels increased by 2 milligrams per liter (mg/L) or more in eleven of the monitoring wells that were sampled. Oxidation-reduction potential increases of one to two orders of magnitude also were observed in eleven monitoring wells.

Conclusions

Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene concentrations in MW-4 and MW-14R have decreased significantly compared to the analytical results from the baseline sampling event. In the groundwater sample from monitoring well MW-4 concentrations of these three analytes have decreased from the levels in the baseline sample to less than the laboratory detection limits. The concentrations detected in MW-14R remain in excess of the GCTLs but have decreased substantially compared to the baseline values. The total xylenes concentrations in MW-4 and MW-14R have also decreased significantly compared to the analytical results from the baseline sampling event and are now less than the GCTL in both wells.

The ORC® injection appears to be releasing additional oxygen to the site groundwater. DO level increases of 2 mg/L or more compared to the baseline values were observed in eleven monitoring wells. Significant increases in oxidation-reduction potential compared to the baseline values were also observed in eleven monitoring wells. Therefore, TtNUS recommends the treatability study be continued as designed in the work plan.

If you have any questions with regard to this submittal, please contact me by calling (850) 385-9899 or via e-mail at walkerg@ttnus.com.

Sincerely,

Gerald Walker

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

GW/wdo

Attachments (4)

c: Ms. T. Vaught, FDEP
Mr. G. Campbell, NAS Pensacola
Ms. D. Wroblewski, TtNUS (cover letter only)
Mr. M. Perry/File, TtNUS (unbound copy)
Project File/Tallahassee

TABLES

TABLE 1
GROUNDWATER ELEVATION SUMMARY
UST SITE 1120
OLF BRONSON
PENSACOLA, FLORIDA

				Baseline 6/27/2003			First Quarter 9/24/2003		
Well Number	Installation Date	Installed Well Depth (ft)	TOC Elevation[2] (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)
MW-1	5/24/1995	18.85[1]	30.00	NR	NR	NA	14.01	18.79	15.99
MW-2	3/29/1996	23.5	30.08	16.18	NR	13.90	14.08	23.45	16.00
MW-3	3/29/1996	23.5	30.74	16.95	NR	13.79	14.81	23.29	15.93
MW-4	3/29/1996	22.5	29.08	15.33	NR	13.75	13.21	22.04	15.87
MW-5	3/29/1996	22.5	28.36	NA	NR	NA	NA	NA	NA
MW-5R	7/23/2002	25.2	28.86	13.66	NR	15.20	12.84	25.07	16.02
MW-6	3/29/1996	22.5	28.30	NR	NR	NA	NF	NF	NF
MW-7	5/14/1996	22.0	29.46	15.81	NR	13.65	13.68	21.55	15.78
MW-8	5/14/1996	22.0	29.90	DRY	NR	NA	14.12	17.00	15.78
MW-9	5/14/1996	22.0	29.66	DRY	NR	NA	NF	NF	NF
MW-10	5/14/1996	22.0	29.21	NR	NR	NA	NR	NR	NR
MW-11	5/14/1996	22.0	28.43	NR	NR	NA	12.41	13.00	16.02
MW-12	5/14/1996	22.0	28.66	14.32	NR	14.34	NR	NR	NR
MW-13	5/15/1996	22.0	29.42	NR	NR	NA	NA	NA	NA
MW-13R	7/23/2002	24.9	29.58	NR	NR	NA	13.72	25.00	15.86
MW-14	7/31/1996	22.0	29.51	NA	NR	NA	NA	NA	NA
MW-14R	07/24/02	24.5	29.50	16.01	NR	13.49	14.38	24.62	15.12
MW-15	7/31/1996	22.0	30.38	DRY	NR	NA	15.01	15.25	15.37
MW-16	7/31/1996	22.0	28.71	NA	NR	NA	NA	NA	NA
MW-16R	7/24/2002	24.6	28.49	14.90	NR	13.59	15.26	24.52	13.23
MW-17	8/1/1996	22.0	30.71	17.10	NR	13.61	15.11	17.75	15.60
MW-18	8/1/1996	22.0	30.59	17.03	NR	13.56	15.21	21.96	15.38
MW-19	8/1/1996	22.0	30.22	16.47	NR	13.75	14.30	16.20	15.92
MW-20	8/1/1996	22.0	29.85	DRY	NR	NA	13.89	14.08	15.96
MW-21	8/1/1996	22.0	28.24	14.39	NR	13.85	12.55	15.83	15.69
MW-22	9/18/1996	24.0	28.01	14.28	NR	13.73	12.69	23.95	15.32
MW-23	9/18/1996	23.0	28.52	14.94	NR	13.58	13.39	15.30	15.13
MW-24	9/18/1996	23.0	29.45	15.96	NR	13.49	14.45	23.35	15.00
MW-25	9/19/1996	24.0	30.25	16.79	NR	13.46	15.16	23.55	15.09
MW-26	9/19/1996	24.0	30.91	17.54	NR	13.37	15.95	19.50	14.96
MW-27	10/22/1996	25.0	32.55	19.30	NR	13.25	17.59	24.49	14.96
MW-28	10/22/1996	25.0	32.68	19.50	NR	13.18	17.99	21.90	14.69
MW-29	10/22/1996	25.0	31.03	NF	NR	NA	16.30	24.40	14.73
MW-30	10/22/1996	25.0	29.71	16.35	NR	13.36	NF	NF	NF
MW-31	10/22/1996	25.0	29.18	15.68	NR	13.50	14.25	15.15	14.93
MW-32	12/10/1996	25.0	30.43	17.27	NR	13.16	15.91	17.95	14.52
MW-33	12/10/1996	25.0	32.11	NR	NR	NA	17.50	19.85	14.61
DMW-34	1/29/1997	40.0	31.46	16.81	NR	14.65	15.02	38.60	16.44
DMW-35	5/22/2000	39.5	32.26	NR	NR	NA	17.07	42.59	15.19

Notes:

[1] MW-1 is former MW-7, stickup well screened 7 to 17 ft below grade.

[2] TOC Elevations based upon arbitrary elevation datum of 30 ft. assigned to MW-1 TOC.

TOC - Top of Casing

ft - foot or feet

DRY - no water detected in well

NR - Not Recorded

NA - Not applicable

NF - Not Found

R indicates a replacement well installed adjacent to the original monitoring well location.

GW - Groundwater

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No. Sample Location Collect Date	GCTL[1] (µg/L)	NADC[2] (µg/L)	BRN-1120-MW01-01 MW-01 6/24/2003	BRN-1120-MW01-02 MW-01 9/25/2003	BRN-1120-MW02-01 MW-02 6/24/2003	BRN-1120-MW2-02 MW-2 9/25/2003	BRN-1120-MW4-01 MW-4 6/24/2003	BRN-1120-MW04-02 MW-4 9/25/2003
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	0.5 J	--	14	--
m&p-Xylene	NC	NC	--	--	--	--	28	--
o-Xylene	NC	NC	--	--	0.5 J	--	--	--
Total Xylenes	20	200	--	--	2	--	**28**	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	--	--	5.9	--	**380**	--
2-Methylnaphthalene	20	200	--	--	4.9	--	**220**	--
Acenaphthene	20	200	--	--	--	--	--	--
Benzo(a)Anthracene	0.2	20	--	--	--	--	--	--
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	--	--
Chrysene	4.8	480	--	--	--	--	--	--
Fluoranthene	280	2,800	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	--	--	--
Naphthalene	20	200	--	--	3	--	**440**	--
Phenanthrene	210	2,100	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	--	--	--
TRPH [5] (µg/L)	5000	50,000	--	290 J	1600	--	3200	720
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	--	--	3	--	3.4	7
Total Organic Carbon (TOC)	NC	NC	--	--	7.2	--	13	6.2

See notes at end of table.

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.			BRN-1120-MW5R-01	BRN-1120-MW5R-02	BRN-1120-MW7-01	BRN-1120-MW7-02	Not Sampled	BRN-1120-MW8-01
Sample Location			MW-5R	MW-5R	MW-7	MW-7	MW-8	MW-8
Collect Date			6/24/2003	9/25/2003	6/25/2003	9/26/2003	6/25/2003	9/25/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	0.3 J	--	--	--	NS	--
m&p-Xylene	NC	NC	--	--	--	--	NS	--
o-Xylene	NC	NC	--	--	--	--	NS	--
Total Xylenes	20	200	--	--	--	--	NS	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	2.2	--	--	--	NS	--
2-Methylnaphthalene	20	200	1.3	--	--	--	NS	--
Acenaphthene	20	200	--	--	--	--	NS	--
Benzo(a)Anthracene	0.2	20	--	--	--	--	NS	--
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	NS	--
Chrysene	4.8	480	--	--	--	--	NS	--
Fluoranthene	280	2,800	--	--	--	--	NS	--
Fluorene	280	2,800	--	--	--	--	NS	--
Naphthalene	20	200	2.1	--	--	--	NS	--
Phenanthrene	210	2,100	--	--	--	--	NS	--
Pyrene	210	2,100	--	--	--	--	NS	--
TRPH [5] (µg/L)	5000	50,000	620	890	--	--	NS	--
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	8.2	--	3.8	3.3	NS	10
Total Organic Carbon (TOC)	NC	NC	--	9.9	--	--	NS	--

See notes at end of table.

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.			BRN-1120-MW13R-01	BRN-1120-MW13R-02	BRN-1120-MW14R-01	BRN-1120-MW14R-02	BRN-1120-MW16R-01	BRN-1120-MW16R-02
Sample Location			MW-13R	MW-13R	MW-14R	MW-14R	MW-16R	MW-16R
Collect Date			6/25/2003	9/25/2003	6/25/2003	9/25/2003	6/25/2003	9/24/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	16	3	--	0.7 J
m&p-Xylene	NC	NC	--	--	32	5	--	3
o-Xylene	NC	NC	--	--	--	--	--	--
Total Xylenes	20	200	--	--	**32**	5	--	3
PAHs [4] (µg/L)								
1-Methylnaphthalene	**20**	200	--	--	**160**	**76**	2.3	5
2-Methylnaphthalene	**20**	200	--	--	**150**	**97**	5.6	6.2
Acenaphthene	20	200	--	--	--	--	--	--
Benzo(a)Anthracene	0.2	20	--	--	--	--	--	--
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	--	
Chrysene	4.8	480	--	--	--	--	--	--
Fluoranthene	280	2,800	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	2.5 J	--	--
Naphthalene	**20**	200	--	--	**52**	**41**	--	1.4
Phenanthrene	210	2,100	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	--	--	--
TRPH [5] (µg/L)	5000	50,000	--	--	3800	4600	400 J	360 J
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	7.2	7.5	--	--	7.4	3.9
Total Organic Carbon (TOC)	NC	NC	--	--	5.2	6.6	--	--

See notes at end of table

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.			BRN-1120-MW17-01	BRN-1120-MW17-02	BRN-1120-MW18-01	BRN-1120-MW18-02	BRN-1120-MW24-01	BRN-1120-MW24-02
Sample Location			MW-17	MW-17	MW-18	MW-18	MW-24	MW-24
Collect Date			6/26/2003	9/26/2003	6/26/2003	9/26/2003	6/25/2003	9/24/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	--	--	--	--
m&p-Xylene	NC	NC	--	--	--	--	--	--
o-Xylene	NC	NC	--	--	--	--	--	--
Total Xylenes	20	200	--	--	--	--	--	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	0.11 J	--	--	--	6.7	--
2-Methylnaphthalene	20	200	0.092 J	--	--	--	5.9	0.12 J
Acenaphthene	20	200	--	--	--	--	0.74 J	0.17 J
Benzo(a)Anthracene	0.2	20	--	--	--	--	--	0.13 J
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	--	0.16 J
Chrysene	4.8	480	--	--	--	--	--	--
Fluoranthene	280	2,800	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	--	0.7 J	--
Naphthalene	20	200	--	--	--	--	--	0.13 J
Phenanthrene	210	2,100	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	--	--	0.19 J
TRPH [5] (µg/L)	5000	50,000	400 J	--	1300	--	1200	--
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	5.8	5.4	25	9.8	3.5	9
Total Organic Carbon (TOC)	NC	NC	--	--	6.6	--	--	1

See notes at end of table

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No Sample Location Collect Date	GCTL[1] (µg/L)	NADC[2] (µg/L)	BRN-1120-MW25-01 MW-25 6/26/2003	BRN-1120-MW25-02 MW-25 9/25/2003	BRN-1120-MW26-01 MW-26 6/26/2003	BRN-1120-MW26-02 MW-26 9/24/2003	BRN-1120-MW27-01 MW-27 6/26/2003	BRN-1120-MW27-02 MW-27 9/25/2003
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	1	--	--	--	--	--
m&p-Xylene	NC	NC	--	--	--	--	--	--
o-Xylene	NC	NC	--	--	--	--	--	--
Total Xylenes	20	200	--	--	--	--	--	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	7.3	--	--	--	--	--
2-Methylnaphthalene	20	200	20	0.11 J	--	--	--	--
Acenaphthene	20	200	--	--	--	--	--	--
Benzo(a)Anthracene	0.2	20	--	--	--	--	--	0.17 J
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	--	--
Chrysene	4.8	480	--	--	--	--	--	0.14 J
Fluoranthene	280	2,800	--	--	--	--	--	0.17 J
Fluorene	280	2,800	--	--	--	--	--	--
Naphthalene	20	200	6	--	--	--	--	--
Phenanthrene	210	2,100	--	--	--	--	--	0.077 J
Pyrene	210	2,100	--	--	--	--	--	0.22
TRPH [5] (µg/L)	5000	50,000	950	--	--	--	--	--
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	3	5	6	3.5	11	5.5
Total Organic Carbon (TOC)	NC	NC	--	--	--	--	--	--

See notes at end of table

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No			BRN-1120-MW28-01	BRN-1120-MW28-02	Not Sampled	BRN-1120-MW29-02	BRN-1120-MW32-01	Not Sampled
Sample Location			MW-28	MW-28	MW-29	MW-29	MW-32	MW-32
Collect Date			6/26/2003	9/25/2003	6/26/2003	9/25/2003	6/26/2003	9/25/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	NS	--	--	NS
m&p-Xylene	NC	NC	--	--	NS	--	--	NS
o-Xylene	NC	NC	--	--	NS	--	--	NS
Total Xylenes	20	200	--	--	NS	--	--	NS
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	--	--	NS	--	--	NS
2-Methylnaphthalene	20	200	--	--	NS	--	--	NS
Acenaphthene	20	200	--	--	NS	--	--	NS
Benzo(a)Anthracene	0.2	20	--	--	NS	--	--	NS
Benzo(k)Fluoranthene	0.2	20	--	--	NS	--	--	NS
Chrysene	4.8	480	--	--	NS	--	--	NS
Fluoranthene	280	2,800	--	--	NS	--	--	NS
Fluorene	280	2,800	--	--	NS	--	--	NS
Naphthalene	20	200	--	--	NS	--	--	NS
Phenanthrene	210	2,100	--	--	NS	--	--	NS
Pyrene	210	2,100	--	--	NS	--	--	NS
TRPH [5] (µg/L)	5000	50,000	--	--	NS	--	--	NS
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	3.6	5	NS	8.3	4.9	NS
Total Organic Carbon (TOC)	NC	NC	--	--	NS	--	--	NS

See notes at end of table

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.			BRN-1120-MW35-01	BRN-1120-MW35-02	BRN-1120-FEQ-02	TRIP BLANK-092403	TRIPBLANK-092503-1,2	TRIP BLANK-092603
Sample Location			MW-35	MW-35	Rinsate	QA/QC	QA/QC	QA/QC
Collect Date			6/26/2003	9/25/2003	9/24/2003	9/24/2003	9/25/2003	9/26/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	--	--	--	--
m&p-Xylene	NC	NC	--	--	--	--	--	--
o-Xylene	NC	NC	--	--	--	--	--	--
Total Xylenes	20	200	--	--	--	--	--	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	20	200	--	--	--	NA	NA	NA
2-Methylnaphthalene	20	200	--	--	--	NA	NA	NA
Acenaphthene	20	200	--	--	--	NA	NA	NA
Benzo(a)Anthracene	0.2	20	--	--	--	NA	NA	NA
Benzo(k)Fluoranthene	0.2	20	--	--	--	NA	NA	NA
Chrysene	4.8	480	--	--	--	--	--	--
Fluoranthene	280	2,800	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	NA	NA	NA
Naphthalene	20	200	--	--	0.11 J	NA	NA	NA
Phenanthrene	210	2,100	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	NA	NA	NA
TRPH [5] (µg/L)	5000	50,000	--	--	--	NA	NA	NA
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	31	16	--	NA	NA	NA
Total Organic Carbon (TOC)	NC	NC	--	--	--	NA	NA	NA

See notes at end of table.

TABLE 2
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Notes:

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, F.A.C.
[2] Natural Attenuation Default Concentrations as provided in Chapter 62-770, F.A.C.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
[6] USEPA 375 4 (Sulfate); USEPA 415 1 (TOC)

Bold indicates an exceedance
Bold indicated which regulatory limit was exceeded
µg/L = micrograms per liter
-- = Analyte not detected
J = Estimated concentration
mg/L = milligrams per liter
NC = No Criteria
F.A.C. = Florida Administrative Code
QA/QC = Quality Assurance/Quality Control Sample
NA = Not analyzed for this parameter
NS = Not sampled

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW01-01	BRN-1120-MW01-02	BRN-1120-MW02-01	BRN-1120-MW2-02	BRN-1120-MW4-01	BRN-1120-MW04-02
Sample Location		MW-01	MW-01	MW-02	MW-2	MW-4	MW-4
Collect Date		6/24/2003	9/25/2003	6/24/2003	9/25/2003	6/24/2003	9/25/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	1.06	4	3.0	12	0.2	2
Carbon Dioxide	mg/L	40	40	33	25	70	70
Alkalinity	mg/L	70	80	16	45	25	40
Ferrous iron	mg/L	1.4	0	1.2	0	6.8	0.6
Hydrogen Sulfide	mg/L	1	0	0.3	0	0.2	0.7
Temperature	°C	23.96	25.97	22.83	24.68	23.25	24.97
pH	SU	6.62	6.43	5.20	6.05	5.41	5.51
Oxidation-Reduction potential	mV	121.0	121	22.3	10	2.6	27
Laboratory Parameters							
Sulfate	µg/L	--	--	3	--	3.4	7
Total Organic Carbon (TOC)	µg/L	--	--	7.2	--	13	6.2

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
-- = Analyte not detected above the instrument detection limit

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW5R-01	BRN-1120-MW5R-02	BRN-1120-MW7-01	BRN-1120-MW7-02	Not Sampled	BRN-1120-MW8-01
Sample Location		MW-5R	MW-5R	MW-7	MW-7	MW-8	MW-8
Collect Date		6/24/2003	9/25/2003	6/25/2003	9/26/2003	6/25/2003	9/25/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	4	2	4-5	5		3.0
Carbon Dioxide	mg/L	25	65	16	25		35
Alkalinity	mg/L	<10	75	<10	5		<5
Ferrous iron	mg/L	1.4	0.2	0	0		0.6
Hydrogen Sulfide	mg/L	1	0	0	0		0
Temperature	°C	23.48	25.84	22.48	24.25		24.04
pH	SU	5.33	5.76	5.29	4.34		3.84
Oxidation-Reduction potential	mV	129	53	169.5	339		108
Laboratory Parameters							
Sulfate	µg/L	8.2	--	3.8	3.3		10
Total Organic Carbon (TOC)	µg/L	--	9.9	--	--		--

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
-- = Analyte not detected above the instrument detection limit

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW13R-01	BRN-1120-MW13R-02	BRN-1120-MW14R-01	BRN-1120-MW14R-02	BRN-1120-MW16R-01	BRN-1120-MW16R-02
Sample Location		MW-13R	MW-13R	MW-14R	MW-14R	MW-16R	MW-16R
Collect Date		6/25/2003	9/25/2003	6/25/2003	9/25/2003	6/25/2003	9/24/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	4.0	6	0	2.0	0.43	6
Carbon Dioxide	mg/L	18	30	70	65	35	25
Alkalinity	mg/L	<10	35	35	60	40	40
Ferrous iron	mg/L	0	0	6.0	5.0	2.4	0.8
Hydrogen Sulfide	mg/L	0	0	0.5	0	0	0
Temperature	°C	23.18	23.43	22.78	23.75	23.44	23.33
pH	SU	4.39	5.92	6.28	5.42	5.38	4.17
Oxidation-Reduction potential	mV	88.2	165	-67.6	4	61.1	280
Laboratory Parameters							
Sulfate	µg/L	7.2	7.5	--	--	7.4	3.9
Total Organic Carbon (TOC)	µg/L	--	--	5.2	6.6	--	--

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
-- = Analyte not detected above the instrument detection limit

TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW17-01	BRN-1120-MW17-02	BRN-1120-MW18-01	BRN-1120-MW18-02	BRN-1120-MW24-01	BRN-1120-MW24-02
Sample Location		MW-17	MW-17	MW-18	MW-18	MW-24	MW-24
Collect Date		6/26/2003	9/26/2003	6/26/2003	9/26/2003	6/25/2003	9/24/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	1.0	4.0	0.05	4	1	5.5
Carbon Dioxide	mg/L	28	30	45	30	90	20
Alkalinity	mg/L	40	60	10	5	18	15
Ferrous iron	mg/L	3.2	0	5.7	0	5	0
Hydrogen Sulfide	mg/L	0.2	0	5.0	0	0	0
Temperature	°C	22.89	23.22	22.35	23.52	22.27	23.63
pH	SU	4.29	3.79	5.15	4.79	5.16	3.67
Oxidation-Reduction potential	mV	7.6	342	-59.9	281	72.0	336
Laboratory Parameters							
Sulfate	µg/L	5.8	5.4	25	9.8	3.5	9
Total Organic Carbon (TOC)	µg/L	--	--	6.6	--	--	1

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
-- = Analyte not detected above the instrument detection limit

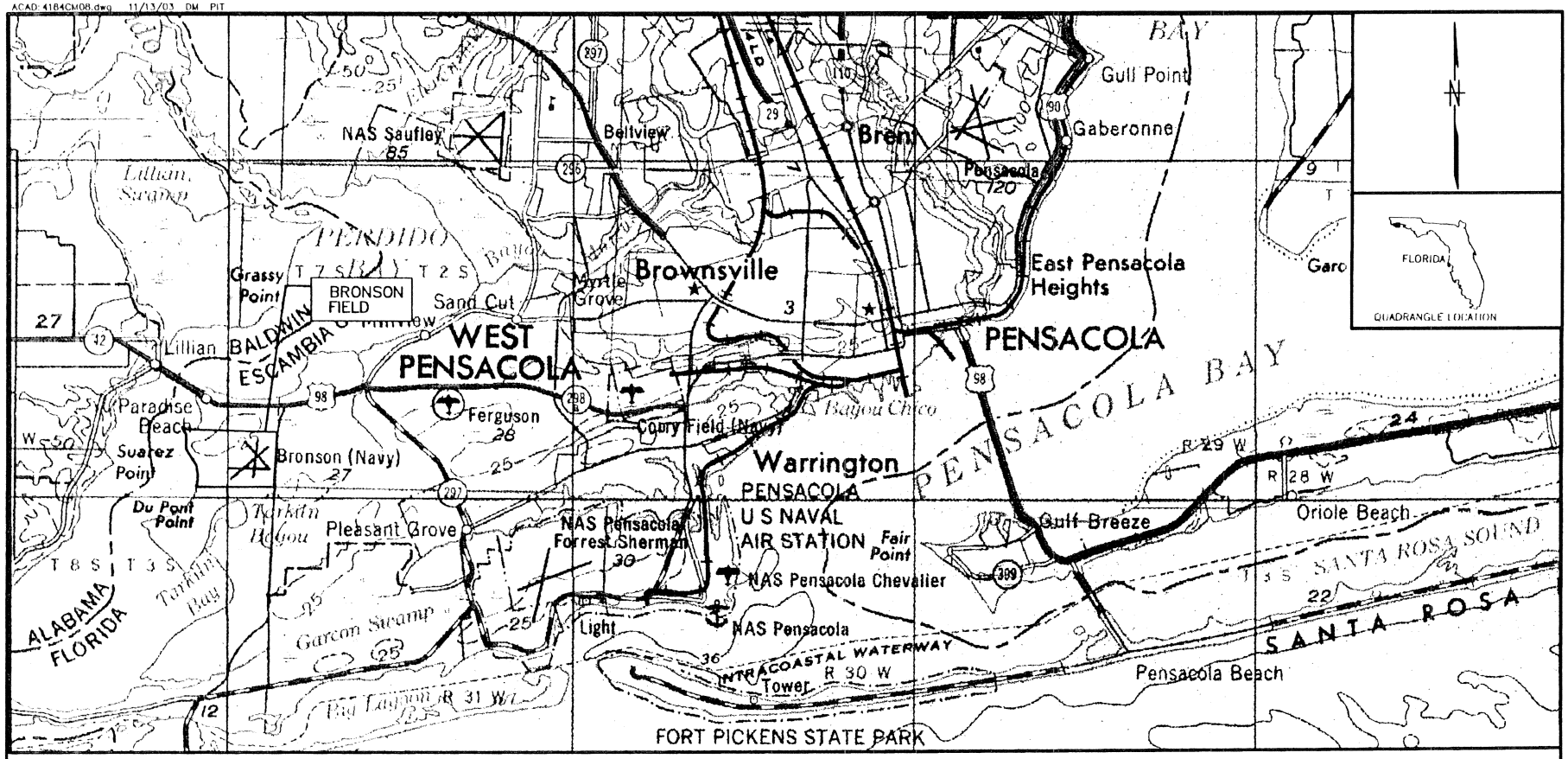
TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW28-01	BRN-1120-MW28-02	BRN-1120-MW29-02	BRN-1120-MW32-02	BRN-1120-MW35-02	BRN-1120-MW35-02
Sample Location		MW-28	MW-28	MW-29	MW-32	MW-35	MW-35
Collect Date		6/26/2003	9/25/2003	9/25/2003	6/26/2003	6/26/2003	9/25/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	2	3.0	5.0	2.5	5.5	5
Carbon Dioxide	mg/L	40	30	55	30	40	65
Alkalinity	mg/L	38	40	40	<10	<10	60
Ferrous iron	mg/L	3.1	0.40	0.20	0.8	0	0
Hydrogen Sulfide	mg/L	0.1	0	0	0	0	0.03
Temperature	°C	22.38	23.42	22.93	22.06	23.26	23.19
pH	SU	5.18	3.79	5.06	5.06	4.44	3.77
Oxidation-Reduction potential	mV	-2.7	208	180	95.1	260.7	372
Laboratory Parameters							
Sulfate	µg/L	3.6	5	8.3	4.9	31	16
Total Organic Carbon (TOC)	µg/L	--	--	--	--	--	--

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
-- = Analyte not detected above the instrument detection limit

FIGURES

ACAD: 4184CM08.dwg 11/13/03 DM PIT



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

0 10000 20000
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

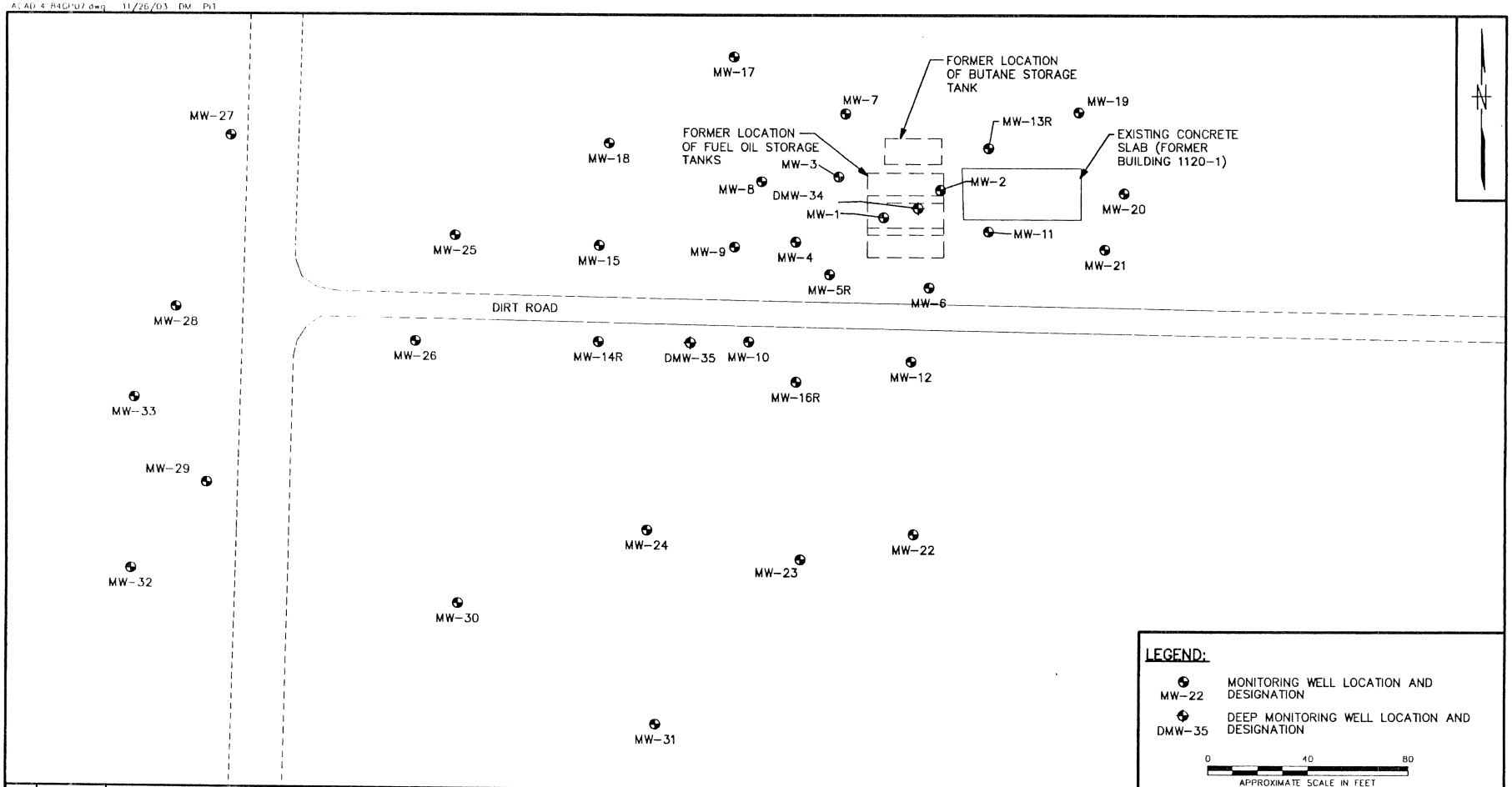
DRAWN BY DM DATE 11/13/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SITE LOCATION MAP
UST SITE 1120
FIRST QUARTER GROUNDWATER SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 4184
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 1
REV. 0

FORM CADD NO. SDIV_BLDWG - REV 0 - 1/20/98

ACAD 4184GP07.dwg 11/26/03 DM PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

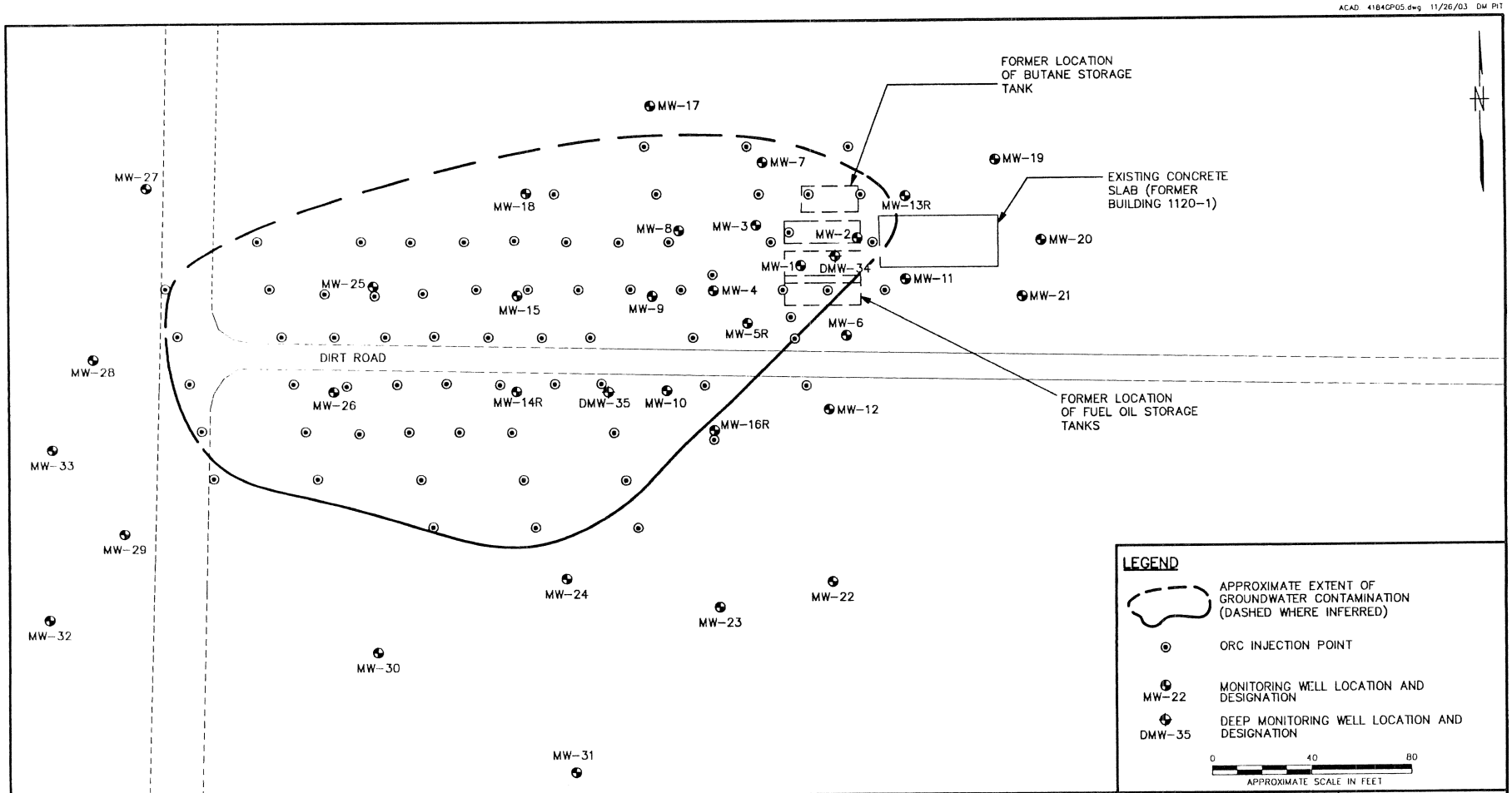
DRAWN BY DM DATE 11/26/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SITE PLAN
UST SITE 1120
FIRST QUARTER GROUNDWATER SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 4184
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2 REV. 0

FORM CADD NO. SDIV_BHDWG - REV 0 - 1/20/98

ACAD 4184GP05.dwg 11/26/03 DM Plt



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

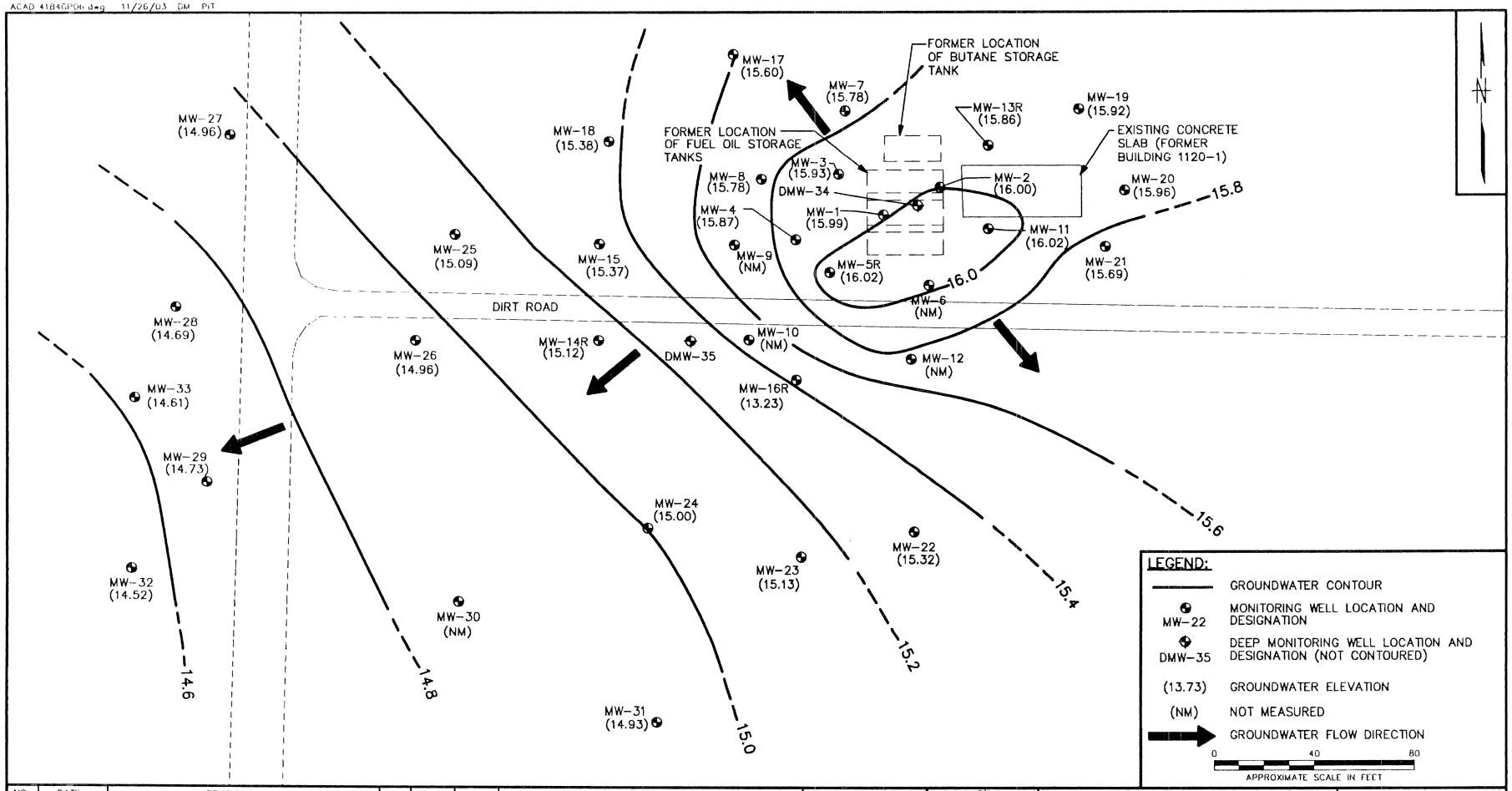
DRAWN BY DM DATE 11/24/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

ORC INJECTION POINT LOCATIONS
UST SITE 1120
FIRST QUARTER GROUNDWATER SAMPLING EVENT
OLF BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 5967
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 3
REV. 0

FORM CADD NO. SIMV_BH.DWG - REV 0 1/20/98

ACAD 4184GP06.dwg 11/26/03 DM PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

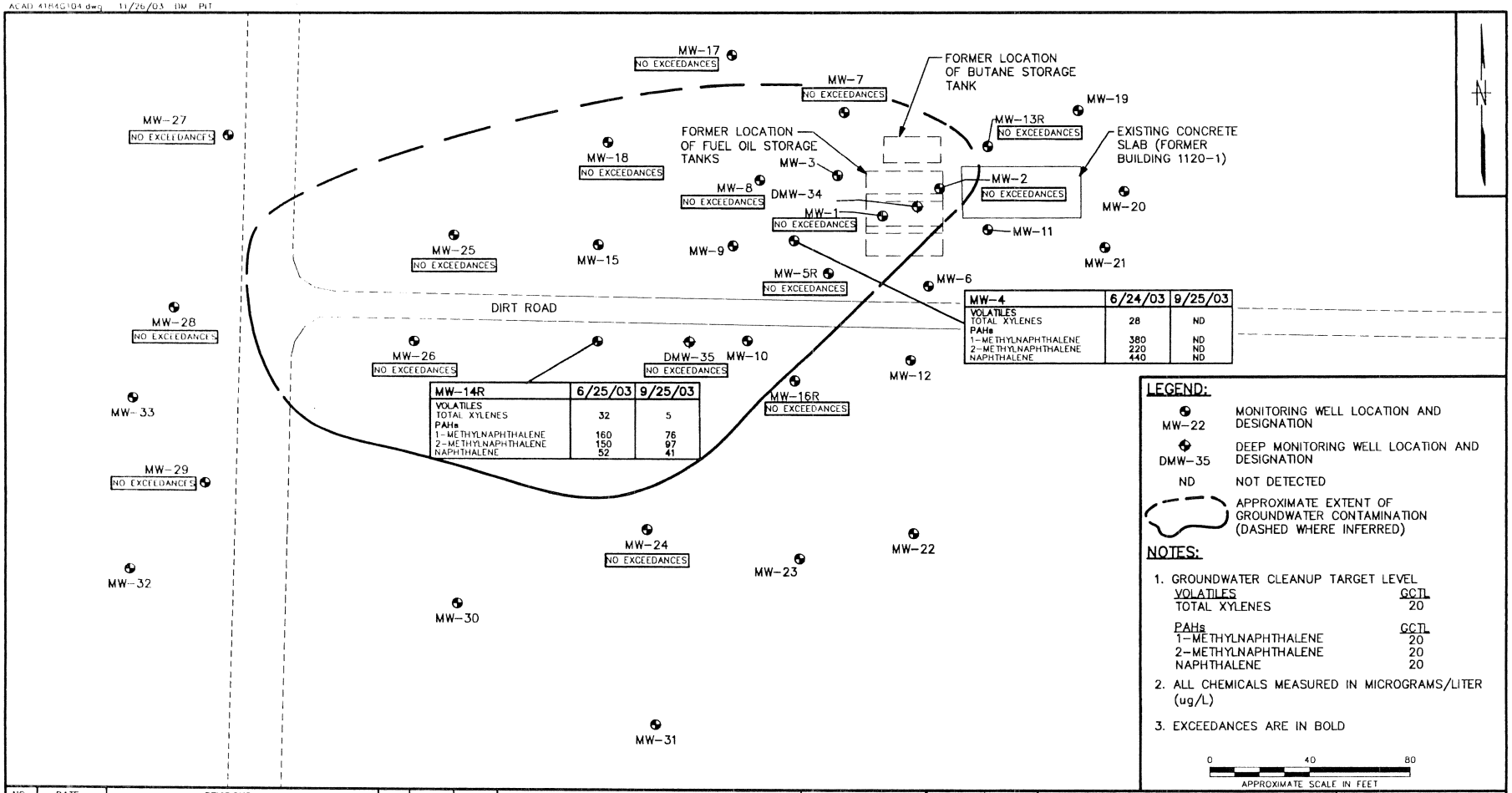
DRAWN BY DM DATE 11/26/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER POTENTIOMETRIC SURFACE - SHALLOW
UST SITE 1120
FIRST QUARTER GROUNDWATER SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 4184
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4
REV. 0

FORM CADD NO. SDIV_B11.DWG REV. 0 - 1/20/90

ACAD 4184G104.dwg 11/26/03 DM PIT



MW-4	6/24/03	9/25/03
VOLATILES		
TOTAL XYLENES	28	ND
PAHs		
1-METHYLNAPHTHALENE	380	ND
2-METHYLNAPHTHALENE	220	ND
NAPHTHALENE	440	ND

MW-14R	6/25/03	9/25/03
VOLATILES		
TOTAL XYLENES	32	5
PAHs		
1-METHYLNAPHTHALENE	160	76
2-METHYLNAPHTHALENE	150	97
NAPHTHALENE	52	41

LEGEND:

MW-22 — MONITORING WELL LOCATION AND DESIGNATION

DMW-35 — DEEP MONITORING WELL LOCATION AND DESIGNATION

ND — NOT DETECTED

APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION (DASHED WHERE INFERRED)

NOTES:

1. GROUNDWATER CLEANUP TARGET LEVEL

VOLATILES	GCTL
TOTAL XYLENES	20
PAHs	**GCTL**
1-METHYLNAPHTHALENE	20
2-METHYLNAPHTHALENE	20
NAPHTHALENE	20

2. ALL CHEMICALS MEASURED IN MICROGRAMS/LITER (ug/L)
3. EXCEEDANCES ARE IN BOLD

0 40 80
APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY DM DATE 11/26/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER EXCEEDANCES
UST SITE 1120
FIRST QUARTER GROUNDWATER SAMPLING EVENT
OUTLYING LANDING FIELD BRONSON
PENSACOLA, FLORIDA

CONTRACT NO. 4184
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 5 REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/26/98

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: CTO 302 / NAS Pensacola
Project No.: N5767
Location: OLFB Site 1120
Personnel: M. Akers, B. Olson
Weather Conditions: Sunny + Clear
Measuring Device: WLI
Tidally Influenced: Yes ___ No ✓
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
MW-25	9/24/03	1237	30.25	23.55	15.16		15.09	
MW-15	9/24/03		30.38	15.25	15.01		15.37	* DRY *
MW-18			30.59	21.96	15.21		15.38	
MW-8			29.90	17.00	14.12		15.78	
MW-17			30.71	17.75	15.11		15.60	
MW-4			29.08	22.04	13.21		15.87	
MW-5			28.86	25.07	12.84		16.02	
MW-1				18.79	14.01			
DMW-34			31.46	38.60	15.02		16.44	
MW-2			30.08	23.45	14.08		16.00	
MW-7			29.46	21.55	13.68		15.78	
MW-3			30.74	23.29	14.81		15.93	
MW-11				13.00	12.41			* DRY *
MW-21			28.24	15.83	12.55		15.69	
MW-20			29.85	14.08	13.89		15.96	
MW-19			30.22	16.20	14.30		15.92	
MW-13				25.00	13.72			
MW-16R			28.49	24.52	15.26		13.23	
MW-22			28.01	23.95	12.69		15.32	
MW-23			28.52	15.30	13.39		15.13	
MW-31			29.18	15.15	14.25		14.93	
MW-24			29.45	23.35	14.45		15.00	
MW-26			30.91	19.50	15.95		14.96	
MW-14R			29.50	24.62	14.38		15.12	
DMW-35	↓	1325		42.59	17.07			

* All measurements to the nearest 0.01 foot

* Couldn't locate MW-30 *

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: CTO 802 / NAS Pensacola
Project No.: N5967
Location: OLF3 Site 1120
Personnel: M. Akers / B. Olson
Weather Conditions: Sunny + Clear
Measuring Device: WLI
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
MW-27	9/24/03		32.55	24.49	17.59		14.96	
MW-28	↓		32.68	21.90	17.99		14.69	
MW-29	↓			24.40	16.30			
MW-32	↓		30.43	17.95	15.91		14.52	
MW-33	↓	1345		19.85	17.50			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW01-02
Sample Location: MW01
Sampled By: WAO
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 1215								
Method: low Flow								

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: Low Flow	INIT	6.43	0.222	91.2	25.97	5.80	121	0.0
Monitor Reading (ppm): –	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material Type: 2" PVC	1/2 g	6.31	0.217	39	25.70	4.71	120	0.0
	1 g	6.32	0.217	13	25.62	4.24	120	0.0
Total Well Depth (TD): 18.79	1.5 g	6.33	0.215	9.8	25.55	4.25	122	0.0
Static Water Level (WL): 14.01	2 g	6.34	0.216	11	25.53	4.28	125	0.0
One Casing Volume(gal/L): 0.77	2.5 g	6.35	0.218	9.8	25.60	4.22	125	0.0
Start Purge (hrs): 1145								
End Purge (hrs): 1215								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 2.5								

18.79
14.01
4.78
.48
.24
.05
0.77

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

CO_2 = 40 mg/L
DO = 4.1 mg/L
H_2S = 0 mg/L
Alkalinity = Ø/80 mg/L
Fe 2+ = 0 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW2-02
Sample Location: mw2
Sampled By: WAO
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	Temp.	DO	ORP	Salinity
Date: 9/25/03	Visual	Standard	mS/cm	NTU	°C	mg/l	mV	%
Time: 1090								
Method: Low Flow	Clear	6.05	0.114	30	24.68	7.59	140	

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: Low Flow	1 liter	5.93	0.105	79.2	24.53	7.15	127	0.0
Monitor Reading (ppm): -		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	1 g	5.96	0.114	55	24.80	7.32	147	0.0
Type: 2" PVC	2 g	6.00	0.114	45	24.83	7.57	145	0.0
Total Well Depth (TD): 23.45	3 g	5.98	0.114	31	24.78	7.63	144	0.0
Static Water Level (WL): 14.08	4 g	6.02	0.114	29	24.78	7.66	141	0.0
One Casing Volume (gal/L): 1.5	5 g	6.05	0.114	30	24.68	7.59	140	0.0
Start Purge (hrs): 1025								
End Purge (hrs): 1050								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 5g								

23.45
14.08
9.37
2.94
.47
.09
1.50

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

CO_2 = 25 mg/L
Alkalinity = 45 mg/L
H_2S = 0 mg/L
DO = 12 mg/L
Fe^{2+} = 0 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW4-02
Sample Location: mw 4
Sampled By: WAD
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 1440								
Method: LOW FLOW								

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: LOW FLOW	1WIT	5.51	0.124	110	24.97	2.84	27	0.0
Monitor Reading (ppm): —	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	1 gal	5.37	0.125	20	25.09	0.60	-57	0.0
Type: 2" PVC	2.5 g	5.54	0.126	9.0	25.13	0.50	-76	0.0
Total Well Depth (TD): 22.04	3.5 g	5.57	0.126	3.4	25.16	0.58	-79	0.0
Static Water Level (WL): 13.21	4.5 g	5.59	0.126	2.8	25.15	0.70	-80	0.0
One Casing Volume(gal/L): 1.41								
Start Purge (hrs): 1420								
End Purge (hrs): 1440								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 4.5								

22.04
13.21
8.83
3
.88
.44
.09
1.41

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

sulfur odor

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

CO_2 = 70 mg/L
DO = 2 mg/L
Fe 2+ = 0.6 mg/L
H_2S = 0.7 mg/L

Alkalinity = 0/40 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW5R-02
Sample Location: MW5R
Sampled By: WDO
C.O.C. No.:
Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 1325								
Method: Low Flow	Clear	5.76	0.169	17	25.84	1.06	53	0.0

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: Low Flow	1 W/T	5.79	0.167	19	25.45	3.85	133	0.0
Monitor Reading (ppm): –		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	0.5 g	5.55	0.156	38	25.72	1.46	67	0.0
Type: 1" PVC	1 g	5.62	0.162	22	25.85	1.29	55	0.0
Total Well Depth (TD): 25.07	1.5 g	5.69	0.166	19	25.83	1.14	54	0.0
Static Water Level (WL): 12.84	2 g	5.74	0.168	18	25.84	1.09	53	0.0
One Casing Volume(gal/L): 0.45	2.5 g	5.76	0.169	17	25.84	1.06	53	0.0
Start Purge (hrs): 1305								
End Purge (hrs): 1325								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 2.5								

25.07
12.84
12.23

1.22
.61
.12
1.95

.45

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

Alkalinity = Ø / 75 mg/L
CO_2 = 65 mg/L
DO = 2 mg/L
Fe^{2+} = 0.2 mg/L
H_2S = 0 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Wade D. Olson

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW07-02
Sample Location: MW-07
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/26/03								
Time: 0935								
Method:	Clear	4.34	0.043	Ø	24.25	4.23	339	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/26/03									
Method:	5L	4.31	0.042	Ø	24.24	3.45	348	Ø	0920
Monitor Reading (ppm):		See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	6.5L	4.31	0.043	Ø	24.26	3.36	345	Ø	0923
Type: 2" PVC	8.0L	4.33	0.043	Ø	24.26	3.60	341	Ø	0926
Total Well Depth (TD): 21.55	9.5L	4.34	0.043	Ø	24.25	4.23	339	Ø	0929
Static Water Level (WL): 13.68									
One Casing Volume(gal/L): 5L									
Start Purge (hrs): 0910									
End Purge (hrs): 0930									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 10 L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

Flow Rate = 500 ml/min

D.O. 5 mg/L CO_2 25 mg/L
Fe^{2+} Ø mg/L ALK Ø/5 mg/L
H_2S Ø mg/L

Circle if Applicable:

MS/MSD Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0 30>2

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

Sample ID No.: BRN-1120-~~TB6~~ MW 08-01
Sample Location: MW 08
Sampled By: WAD
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	Temp.	DO	ORP	Salinity
Date: 9/25/03								
Time: 1545	Visual	Standard	mS/cm	NTU	°C	mg/l	mV	%
Method: Low Flow	Clear	3.89	0.071	0.00	24.04	3.86	108	0.0

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: Low Flow	1W 1T	4.16	0.070	0.35	24.74	3.73	143	0.0
Monitor Reading (ppm): ~		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	0.5	4.05	0.070	0.00	24.30	2.36	135	0.0
Type: 2" PVC	1.0	3.83	0.071	0.00	24.10	3.10	121	0.0
Total Well Depth (TD): 17.00	1.5	3.83	0.071	0.00	24.06	3.63	113	0.0
Static Water Level (WL): 14.32	2.0	3.84	0.071	0.00	24.04	3.86	108	0.0
One Casing Volume(gal/L): 0.43								
Start Purge (hrs): 1525								
End Purge (hrs): 1545								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 2								

6.9
17.00
14.32
2.68
.27
.13
.03
.43

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

Alkalinity test did not work high or low range, color turned immediately
See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

Fe^{2+} = 0.6 mg/L
H_2S = ∅ mg/L
DO = 3.0 mg/L
CO_2 = 35 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW13R-02
Sample Location: MW13R
Sampled By: WPO
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 0920								
Method: Low Flow	Clear	5.92	0.128	11	23.43	7.46	165	0.0

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/25/03								
Method: Low Flow	1 Wit	5.11	0.202	19.4	23.38	8.96	136	0.0
Monitor Reading (ppm): —	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	1 gal	5.82	0.131	26	23.44	7.44	161	0.0
Type: 1" PVC	1.5 gal	5.89	0.128	15	23.43	7.44	166	0.0
Total Well Depth (TD): 25.00	2 gal	5.90	0.127	12	23.42	7.49	166	0.0
Static Water Level (WL): 13.72	2.5 g	5.92	0.128	11	23.42	7.46	165	0.0
One Casing Volume (gal/L): .45								
Start Purge (hrs): 0900								
End Purge (hrs): 0920								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 2.5								

25.00
13.72
11.18
1.12
.56
.11
1.79
.45

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).
Fe 2+ = 0 mg/L
alkalinity = 35 mg/L
DO = 6 mg/L
H_2S = 0 mg/L
CO_2 = 30 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
		[illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW14R-02
Sample Location: MW-14R
Sampled By: AEERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 1415								
Method:	clear	5.42	0.175	4.2	23.75	1.92	4	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/25/03									
Method:	1L	5.38	0.170	5.4	23.74	2.20	11	Ø	1402
Monitor Reading (ppm):	See Low Flow Purge Data Sheet								
Well Casing Diameter & Material	2.5L	5.39	0.171	5.1	23.74	2.18	10	Ø	1405
Type: 2" PVC	4.0L	5.39	0.171	5.0	23.74	2.16	9	Ø	1408
Total Well Depth (TD): 24.62	5.5L	5.42	0.175	4.2	23.75	1.92	4	Ø	1411
Static Water Level (WL): 14.38									
One ~~Casing~~ Pump Volume(gal/L): 1L									
Start Purge (hrs): 14:00									
End Purge (hrs): 1411									
Total Purge Time (min): 11									
Total Vol. Purged (gal/L): 5.5L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

H_2S Ø mg/L
Fe^{2+} 5.0 mg/L
D.O. 2.0 mg/L

ALK Ø / 60 mg/L
CO_2 65 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): TA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW16R-02
Sample Location: MW16R
Sampled By: AICEPS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/24/03								
Time: 1615								
Method:	clear	4.17	0.025	Ø	23.33	6.98	280	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/24/03									
Method:	6L	4.14	0.023	Ø	23.42	7.33	300	Ø	1602
Monitor Reading (ppm):	See Low Flow Purge Data Sheet								
Well Casing Diameter & Material	7.5L	4.15	0.025	Ø	23.39	6.99	290	Ø	1605
Type: 2" PVC	9.0L	4.15	0.024	Ø	23.36	6.97	288	Ø	1608
Total Well Depth (TD): 24.52	10.5L	4.17	0.025	Ø	23.33	6.98	280	Ø	1611
Static Water Level (WL): 15.26									
One Casing Volume(gal/L): 5.7L									
Start Purge (hrs): 1550									
End Purge (hrs): 1611									
Total Purge Time (min): 21									
Total Vol. Purged (gal/L): 10.5L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation). 500 mL/min

H_2S = 0 mg/L
Fe 2+ = 0.8 mg/L
DO 6 mg/L
ALK Ø / 40 mg/L
CO_2 25 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW17-02
Sample Location: MW-17
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/26/03								
Time: 0820								
Method:	clear	3.79	0.040	5.7	23.22	2.88	342	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/26/03									
Method:	2L	3.61	0.040	6.8	23.20	3.01	351	Ø	0804
Monitor Reading (ppm):		See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	3.5L	3.72	0.040	6.5	23.22	2.97	345	Ø	0807
Type: 2" PVC	5.0L	3.74	0.040	5.9	23.22	2.90	342	Ø	0811
Total Well Depth (TD): 17.75	6.5L	3.79	0.040	5.7	23.22	2.88	342	Ø	0814
Static Water Level (WL): 15.11									
One Casing Volume(gal/L): 1.6L									
Start Purge (hrs): 0800									
End Purge (hrs): 0815									
Total Purge Time (min): 15									
Total Vol. Purged (gal/L): 7L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

~~Flow Rate~~ 500 mL/min

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

D.O. 4.0 mg/L ALK Ø / 60 mg/L
Fe^{2+} Ø mg/L CO_2 30 mg/L
H_2S Ø mg/L

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

Signature(s): TK

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW18-02
Sample Location: MW 18
Sampled By: WDO
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/26/03								
Time: 0830								
Method: Low Flow								

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/26/03								
Method: Low Flow	INIT	4.79	0.073	3.7	23.52	5.61	281	0.0
Monitor Reading (ppm): –		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	1 gal	4.20	0.068	0.85	23.30	4.37	290	0.0
Type: 2" PVC	2 gal	4.19	0.068	0.20	23.28	4.27	268	0.0
Total Well Depth (TD): 21.96	3 gal	4.20	0.068	0.00	23.27	4.18	257	0.0
Static Water Level (WL): 15.21	3.5 gal	4.20	0.068	0.00	23.26	4.14	250	0.0
One Casing Volume (gal/L): 1.09								
Start Purge (hrs): 0805								
End Purge (hrs): 0830								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 3.5								

21.96
15.21
6.75

.68
.34
.07
1.09

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

H_2S = ~~[illegible]~~ 0 mg/L WDO 9/26/03

CO_2 = 30 mg/L
Alkalinity = 0/5 mg/L
DO = 4 mg/L
Fe^{2+} = 0 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW24-02
Sample Location: MW24
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/24/03								
Time: 1450								
Method:	Clear	3.67	0.055	2.6	23.63	5.59	336	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/24/03									
Method:	5.5L	3.68	0.057	5.4	23.73	5.73	321	Ø	1436
Monitor Reading (ppm):		See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	7.0L	3.67	0.055	4.9	23.70	5.77	320	Ø	1439
Type: 2" PVC	8.5L	3.67	0.055	3.4	23.63	5.62	331	Ø	1442
Total Well Depth (TD): 23.35	10.0L	3.67	0.055	2.6	23.63	5.59	336	Ø	1445
Static Water Level (WL): 14.45									
One Casing Volume(gal/L): 5.3L									
Start Purge (hrs): 1425									
End Purge (hrs): 1445									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 10 L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	(YES) / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	(YES) / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	(YES) / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	(YES) / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	(YES) / NO

OBSERVATIONS / NOTES:

500mL/min

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

Fe^{2+} Ø mg/L
H_2S Ø mg/L
D.O. 5.5 mg/L
ALK Ø / 15 mg/L
CO_2 20 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): JAR

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW25-02
Sample Location: MW25
Sampled By: ~~TA~~
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 1525								
Method:	clear	5.25	0.096	8.0	24.42	3.93	173	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/25/03									
Method:	5L	5.10	0.091	9.7	24.54	4.45	149	Ø	1510
Monitor Reading (ppm):	See Low Flow Purge Data Sheet								
Well Casing Diameter & Material	6.5L	5.15	0.092	9.4	24.56	4.19	165	Ø	1513
Type: 2" PVC	8.0L	5.22	0.095	8.1	24.48	3.96	175	Ø	1516
Total Well Depth (TD): 23.55	9.5L	5.25	0.096	8.0	24.42	3.93	173	Ø	1515
Static Water Level (WL): 15.16									
One Casing Volume(gal/L): 5L									
Start Purge (hrs): 1500									
End Purge (hrs): 1520									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 10L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation). 500mL/min

D.O. 5.0 mg/L H_2S Ø mg/L
Fe^{2+} 1.4 mg/L
CO_2 40 mg/L ALK Ø / 40 mg/L

Circle if Applicable:

MS/MSD Duplicate ID No.:

Signature(s): TA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW26-02
Sample Location: mw26
Sampled By: WDO
C.O.C. No.:
Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/24/03								
Time: 1425								
Method: Low Flow	clear	5.77	0.052	4.6	24.84	1.09	85	0.0

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity
Date: 9/24/03								
Method: Low Flow	1W1T	5.79	0.059	170	25.83	4.56	43	0.0
Monitor Reading (ppm): ~		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	1/2 g	5.39	0.053	14	25.04	1.41	93	0.0
Type: 2" PVC	1 g	5.49	0.052	6.2	25.12	1.33	103	0.0
Total Well Depth (TD): 19.50	1.5 g	5.61	0.052	5.3	25.09	1.11	98	0.0
Static Water Level (WL): 15.95	1.75 g	5.70	0.052	5.0	24.93	1.07	92	0.0
One Casing Volume(gal/L): 0.58	2.0 g	5.77	0.052	4.6	24.84	1.09	85	0.0
Start Purge (hrs): 1415								
End Purge (hrs): 1445								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 2 g								

6'4"
19.50
15.95
3.55
.36
.18
.04
0.58

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2SO4	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).
Alkalinity = 15 mg/L
DO = 2.0 mg/L
CO_2 = 35 mg/L
H_2S = 0.0 mg/L

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

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW27-02
Sample Location: MW27
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/25/03								
Time: 0920								
Method:	clear	4.88	0.107	9.7	22.53	2.50	235	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/25/03									
Method:	4.5L	4.69	0.107	15	22.52	2.81	280	Ø	0909
Monitor Reading (ppm):	See Low Flow Purge Data Sheet								
Well Casing Diameter & Material	6.0L	4.80	0.105	12	22.52	2.71	260	Ø	0912
Type: 2" PVC	7.5L	4.85	0.105	10	22.53	2.61	252	Ø	0915
Total Well Depth (TD): 24.49	9.0L	4.88	0.107	9.7	22.53	2.50	235	Ø	0918
Static Water Level (WL): 17.59									
One Casing Volume(gal/L): 4.2L									
Start Purge (hrs): 0900									
End Purge (hrs): 0918									
Total Purge Time (min): 18									
Total Vol. Purged (gal/L): 9.0L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation). 500 mL/min

CO_2 35 mg/L Fe^{2+} 0.40 mg/L
D.O. 5.5 mg/L ALK 40 mg/L
H_2S 0 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW28-02
Sample Location: MW 28
Sampled By: TTA
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Date: 9/24/03								
Time: 1030								
Method:	Clear	3.79	0.055	Ø	23.42	0.87	208	Ø

PURGE DATA:

	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Date: 9/24/03									
Method:	2.5L	3.77	0.054	Ø	23.40	0.79	220	Ø	1015
Monitor Reading (ppm):	—	See Low Flow Purge Data Sheet						Ø	
Well Casing Diameter & Material	4.0L	3.77	0.055	Ø	23.41	0.93	224	Ø	1018
Type: 2" PVC	5.5L	3.78	0.055	Ø	23.41	0.88	216	Ø	1021
Total Well Depth (TD): 21.90	7.0L	3.79	0.055	Ø	23.42	0.87	208	Ø	1024
Static Water Level (WL): 17.99									
One Casing Volume(gal/L): 2.4									
Start Purge (hrs): 1010									
End Purge (hrs): 1025									
Total Purge Time (min): 15									
Total Vol. Purged (gal/L): 7L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

CO_2 30 mg/L Fe^{2+} Ø.40 mg/L
D.O. 3.0 mg/L ALK Ø/40 mg/L
H_2S Ø mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): TTA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 0302

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

Sample ID No.: BRN-1120-MW~~32~~29-02
Sample Location: MW-29
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/25/03	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	Temp. °C	DO mg/l	ORP mV	Salinity %
Time: 1145								
Method:	clear	5.06	0.124	8.4	22.93	3.26	180	Ø

PURGE DATA:

Date: 9/25/03	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Method:	5L	5.03	0.135	11	22.82	3.96	185	Ø	1135
Monitor Reading (ppm):		See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	6.5L	5.05	0.132	10	22.88	3.53	202	Ø	1138
Type: 2" PVC	8.0L	5.05	0.130	9.7	22.90	3.39	201	Ø	1141
Total Well Depth (TD): 24.40	9.5L	5.06	0.124	8.4	22.93	3.26	180	Ø	1144
Static Water Level (WL): 16.30									
One Casing Volume(gal/L): 5L									
Start Purge (hrs): 1125									
End Purge (hrs): 1145									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 9.5L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation).

500 mL/min

D.O. 5.0 mg/L
Fe^{2+} 8.20 mg/L
CO_2 55 mg/L
H_2S Ø mg/L
ALK Ø / 40 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): TA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS PENSACOLA - GW TS @ SITE 1120
Project No.: 03002

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

Sample ID No.: BRN-1120-MW35-02
Sample Location: MW 35
Sampled By: AKERS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/25/03	Color	pH	S.C.	Turbidity	Temp.	DO	ORP	Salinity
Time: 1315	Visual	Standard	mS/cm	NTU	°C	mg/l	mV	%
Method:	Clear	3.77	0.121	7.1	23.19	5.82	372	Ø

PURGE DATA:

Date: 9/25/03	Volume	pH	S.C.	Turbidity	Temp. (C)	DO	ORP	Salinity	
Method:	1L	3.79	0.130	9.7	23.20	6.15	359	Ø	1302
Monitor Reading (ppm):	See Low Flow Purge Data Sheet								
Well Casing Diameter & Material	2.5L	3.74	0.123	9.1	23.22	5.83	362	Ø	1305
Type: 2" PVC	4.0L	3.77	0.122	7.6	23.20	5.81	367	Ø	1308
Total Well Depth (TD): 42.59	5.5L	3.77	0.121	7.1	23.19	5.82	372	Ø	1311
Static Water Level (WL): 17.07									
One ~~Casing~~ Pump Volume(gal/L): 1L									
Start Purge (hrs): 1300									
End Purge (hrs): 1312									
Total Purge Time (min): 12									
Total Vol. Purged (gal/L): 5.5L									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
SW-846 8260B - VOC	HCL	3 - 40mL VOA	YES / NO
SW-846 8310 - PAH	N/A	2 - 1L Amber	YES / NO
FDEP FL-PRO - TRPH	H2S04	2 - 1L Amber	YES / NO
USEPA 415.1 - TOC	H2SO4	2 - 40mL VOA	YES / NO
USEPA 300.0 - Sulfate	4degC	1 - 125mL HDPE	YES / NO

OBSERVATIONS / NOTES:

See Field Analytical Log Sheets for Geochemical Parameters (i.e. natural attenuation). 500mL/min

500mL Horiba + 500mL of tubing (45ft x 0.25" tubing)

D.O. 5 mg/L | Fe^{2+} Ø mg/L | CO_2 65 mg/L

ALK Ø/60 mg/L | H_2S ~~≈ 0.03~~ mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

ATTACHMENT B

GROUNDWATER ANALYTICAL REPORT

Tetra Tech NUS, Inc.

Internal Correspondence

TO: Mr. Gerry Walker

DATE: November 5, 2003

FROM: Michael T. Akers

CC: File

SUBJECT: Organic and Inorganic Validation – VOCs, PAHs, TRPH, SO_4, TOC
CTO302 – NAS Pensacola
SDG 3023

SAMPLES: 4 / Aqueous / VOC / PAH / TRPH / SO_4 / TOC

BRN-1120-FEQ-02	BRN-1120-MW16R-02	BRN-1120-MW24-02
BRN-1120-MW26-02	TRIP BLANK-092403*	

11 / Aqueous / PAH / SO_4 / TOC

NASP-17-MW01-02	NASP-17-MW02-02	NASP-17-MW03-02
NASP-17-MW04-02	NASP-17-MW05-02	NASP-17-MW07-02
NASP-17-MW09-02	NASP-17-MW11-02	PEN-681/682-MW1S-02
PEN-681/682-MW2S-02	PEN-681/682-TW04-02	

OVERVIEW

The sample set for CTO302 SDG 3023, Naval Air Station Pensacola, Pensacola , Florida consists of fifteen (15) aqueous environmental samples and one (1) trip blank. The environmental samples from Site 1120 at Outlying Landing Field (OLF) Bronson (BRN-1120-) were analyzed for Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), Sulfate, and Total Organic Carbon (TOC). The trip blank denotes with an asterisk (*) was analyzed for VOCs only. The environmental samples from Underground Storage Tank (UST) Sites 14 (PEN-681/682-) and 17 (NASP-17-) were analyzed for PAHs, Sulfate, and TOC.

The samples were collected by Tetra Tech NUS on September 23rd and 24th, 2003 and analyzed by Katahdin Analytical Services. 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 8260B (VOCs), USEPA 504.1 (EDB), SW-846 8270 SIM (PAHs), FDEP FL-PRO (TRPH), USEPA 375.4 (SO_4), and USEPA 415.1 (TOC) analytical and reporting protocol. 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.

VOC Fraction

- All quality control criteria were met for this fraction.

PAH Fraction

- All control criteria were met for this fraction.

TRPH Fraction

- All quality control criteria were met for this fraction.

Miscellaneous (TOC and Sulfate) Fraction

- **Method Blank Analysis**

  Samples Affected: BRN-1120-FEQ-02, BRN-1120-MW16R-02, BRN-1120-MW24-02, BRN-1120-MW26-02, NASP-17-MW01-02.

  The following compounds were detected in the aqueous laboratory method and or preparation blanks at the maximum concentrations as indicated below:

Compound	Maximum Concentration(mg/L)	Action Level (mg/L)
TOC	0.9193	4.60

  An action level of 5X the maximum detected concentration was established for evaluating blank contamination for all analytes. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. All positive results less than the calculated action level were qualified as non-detected (U) in the associated aqueous samples.

- All other quality control criteria were met for this fraction.

Executive Summary

Laboratory performance: TOC was qualified as non-detected (U) in multiple samples due to laboratory method blank contamination.

Other factors affecting data quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), 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)."

Michael T. Akers
Project Chemist
Tetra Tech NUS, Inc.

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-FEQ-02
samp_date	9/24/2003
lab_id	WT2319-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	2	U	U	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3	U	U	

nsample	BRN-1120-MW16R-02
samp_date	9/24/2003
lab_id	WT2319-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	0.7	J	J	
M+P-XYLENES	3			
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3			

nsample	BRN-1120-MW24-02
samp_date	9/24/2003
lab_id	WT2319-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	2	U	U	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3	U	U	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW26-02
samp_date	9/24/2003
lab_id	WT2319-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	2	U	U	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3	U	U	

nsample	TRIP BLANK-092403
samp_date	9/24/2003
lab_id	WT2319-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	2	U	U	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3	U	U	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-FEQ-02
samp_date	9/24/2003
lab_id	WT2319-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	0.2	U	U	
ACENAPHTHENE	0.2	U	U	
ACENAPHTHYLENE	0.2	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.2	U	U	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.2	U	U	
BENZO(G,H,I)PERYLENE	0.2	U	U	
BENZO(K)FLUORANTHENE	0.2	U	U	
CHRYSENE	0.2	U	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	U	
FLUORANTHENE	0.2	U	U	
FLUORENE	0.2	U	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.11	J	J	
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

nsample	BRN-1120-MW16R-02~~DL~~
samp_date	9/24/2003
lab_id	WT2319-6~~DL~~
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	5			
2-METHYLNAPHTHALENE	6.2			
ACENAPHTHENE	0.75	U	U	
ACENAPHTHYLENE	0.75	U	U	
ANTHRACENE	0.75	U	U	
BENZO(A)ANTHRACENE	0.75	U	U	
BENZO(A)PYRENE	0.75	U	U	
BENZO(B)FLUORANTHENE	0.75	U	U	
BENZO(G,H,I)PERYLENE	0.75	U	U	
BENZO(K)FLUORANTHENE	0.75	U	U	
CHRYSENE	0.75	U	U	
DIBENZO(A,H)ANTHRACENE	0.75	U	U	
FLUORANTHENE	0.75	U	U	
FLUORENE	0.75	U	U	
INDENO(1,2,3-CD)PYRENE	0.75	U	U	
NAPHTHALENE	1.4			
PHENANTHRENE	0.75	U	U	
PYRENE	0.75	U	U	

nsample	BRN-1120-MW24-02
samp_date	9/24/2003
lab_id	WT2319-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	0.12	J	J	
ACENAPHTHENE	0.17	J	J	
ACENAPHTHYLENE	0.2	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.13	J	J	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.2	U	U	
BENZO(G,H,I)PERYLENE	0.2	U	U	
BENZO(K)FLUORANTHENE	0.16	J	J	
CHRYSENE	0.2	U	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	U	
FLUORANTHENE	0.2	U	U	
FLUORENE	0.2	U	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.13	J	J	
PHENANTHRENE	0.2	U	U	
PYRENE	0.19	J	J	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW26-02
samp_date	9/24/2003
lab_id	WT2319-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	0.2	U	U	
ACENAPHTHENE	0.2	U	U	
ACENAPHTHYLENE	0.2	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.2	U	U	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.2	U	U	
BENZO(G,H,I)PERYLENE	0.2	U	U	
BENZO(K)FLUORANTHENE	0.2	U	U	
CHRYSENE	0.2	U	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	U	
FLUORANTHENE	0.2	U	U	
FLUORENE	0.2	U	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.2	U	U	
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

nsample	NASP-17-MW01-02
samp_date	9/24/2003
lab_id	WT2319-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	0.2	U	U	
ACENAPHTHENE	0.91			
ACENAPHTHYLENE	0.2	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.2	U	U	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.2	U	U	
BENZO(G,H,I)PERYLENE	0.2	U	U	
BENZO(K)FLUORANTHENE	0.2	U	U	
CHRYSENE	0.2	U	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	U	
FLUORANTHENE	0.2	U	U	
FLUORENE	0.9			
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.2	U	U	
PHENANTHRENE	0.65			
PYRENE	0.21			

nsample	NASP-17-MW02-02
samp_date	9/23/2003
lab_id	WT2299-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.37			
2-METHYLNAPHTHALENE	0.34			
ACENAPHTHENE	0.35			
ACENAPHTHYLENE	0.2	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.2	U	U	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.2	U	U	
BENZO(G,H,I)PERYLENE	0.2	U	U	
BENZO(K)FLUORANTHENE	0.2	U	U	
CHRYSENE	0.2	U	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	U	
FLUORANTHENE	0.2	U	U	
FLUORENE	0.56			
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	1.1			
PHENANTHRENE	0.2	U	U	
PYRENE	0.11	J	J	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-FEQ-02
samp_date	9/24/2003
lab_id	WT2319-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	U	

nsample	BRN-1120-MW16R-02
samp_date	9/24/2003
lab_id	WT2319-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	360	J	J	

nsample	BRN-1120-MW24-02
samp_date	9/24/2003
lab_id	WT2319-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	U	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW26-02
samp_date	9/24/2003
lab_id	WT2319-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	U	

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-FEQ-02
samp_date	9/24/2003
lab_id	WT2319-8
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	0.5911	J	U	A

nsample	BRN-1120-MW16R-02
samp_date	9/24/2003
lab_id	WT2319-6
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.0			
TOTAL ORGANIC CARBON	MG/L	0.6627	J	U	A

nsample	BRN-1120-MW24-02
samp_date	9/24/2003
lab_id	WT2319-5
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	9			
TOTAL ORGANIC CARBON	MG/L	1		U	A

PROJ_NO: 5967

SDG: 3023 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW26-02
samp_date	9/24/2003
lab_id	WT2319-7
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.5			
TOTAL ORGANIC CARBON	MG/L	0.7394	~~J~~	UJ	A

nsample	NASP-17-MW01-02
samp_date	9/24/2003
lab_id	WT2319-1
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	0.8554	~~J~~	UJ	A

nsample	NASP-17-MW02-02
samp_date	9/23/2003
lab_id	WT2299-5
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	6.7			

3023

HOLDING TIME
10/28/03

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	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	TRIP BLANK-092403	WT2319-9	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	WG3600-BLANK	WG3600-2	P BLANK	3023	OV	/ /	10/02/03	10/02/03	0	0	0
%	WG3600-LCS	WG3600-1	LCS	3023	OV	/ /	10/02/03	10/02/03	0	0	0
%	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	PAH	09/24/03	09/29/03	10/16/03	5	17	22
%	BRN-1120-MW16R-02DL	WT2319-6DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	PAH	09/24/03	09/29/03	10/14/03	5	15	20
%	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	PAH	09/24/03	09/29/03	10/16/03	5	17	22
%	NASP-17-MW01-02	WT2319-1	NORMAL	3023	PAH	09/24/03	09/29/03	10/14/03	5	15	20
%	NASP-17-MW02-02	WT2299-5	NORMAL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	NASP-17-MW03-02RA	WT2299-4RA	NORMAL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	NASP-17-MW04-02DL2	WT2299-6DL2DL2	NORMAL	3023	PAH	09/23/03	09/29/03	10/20/03	6	21	27
%	NASP-17-MW05-02	WT2319-2	NORMAL	3023	PAH	09/24/03	10/01/03	10/16/03	7	15	22
%	NASP-17-MW07-02	WT2299-7DL3	NORMAL	3023	PAH	09/23/03	09/29/03	10/21/03	6	22	28
%	NASP-17-MW09-02DL	WT2319-4DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	NASP-17-MW11-02DL	WT2319-3DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	PAH	09/23/03	09/29/03	10/14/03	6	15	21
%	PEN-681/682-MW2S-02DL	WT2299-2DL	DL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	PEN-681/682-TW04-02DL2	WT2299-3DL2DL2	NORMAL	3023	PAH	09/23/03	09/29/03	10/20/03	6	21	27
%	WG3560-BLANK	WG3560-1	P BLANK	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15
%	WG3560-LCS	WG3560-4	LCS	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15

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
%	WG3560-LCSD	WG3560-5	LCSD	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15
%	WG3589-BLANK	WG3589-1	P BLANK	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
%	WG3589-LCS	WG3589-2	LCS	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
%	WG3589-LCSD	WG3589-3	LCSD	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
MG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	LABQC	MBLANK	P BLANK	3023	SO4	10/10/03	10/10/03	10/10/03	0	0	0
MG/L	NASP-17-MW01-02	WT2319-1	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW02-02	WT2299-5	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW03-02	WT2299-4	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW04-02	WT2299-6	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW05-02	WT2319-2	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW07-02	WT2299-7	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW09-02	WT2319-4	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW11-02	WT2319-3	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
%	PEN-681/682-MW1S-02MS	WT2299-1 MS	MS	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	PEN-681/682-MW2S-02	WT2299-2	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	PEN-681/682-TW04-02	WT2299-3	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	LABQC	MBLANK	P BLANK	3023	TOC	10/10/03	10/09/03	10/09/03	-1	0	-1
MG/L	NASP-17-MW01-02	WT2319-1	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20

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/L	NASP-17-MW02-02	WT2299-5	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW03-02	WT2299-4	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW04-02	WT2299-6	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW05-02	WT2319-2	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW07-02	WT2299-7	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW09-02	WT2319-4	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW11-02	WT2319-3	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW11-02DUP	WT2319-3 DUP	DUPLICATE	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
%	NASP-17-MW11-02MS	WT2319-3 MS	MS	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	PEN-681/682-MW2S-02	WT2299-2	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	PEN-681/682-TW04-02	WT2299-3	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
UG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	WG3582-BLANK	WG3582-1	P BLANK	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16
%	WG3582-LCS	WG3582-2	LCS	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16
%	WG3582-LCSD	WG3582-3	LCSD	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16

3023

HOLDING TIME
10/28/03

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	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	TRIP BLANK-092403	WT2319-9	NORMAL	3023	OV	09/24/03	10/02/03	10/02/03	8	0	8
UG/L	WG3600-BLANK	WG3600-2	P BLANK	3023	OV	/ /	10/02/03	10/02/03	0	0	0
%	WG3600-LCS	WG3600-1	LCS	3023	OV	/ /	10/02/03	10/02/03	0	0	0
%	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	PAH	09/24/03	09/29/03	10/16/03	5	17	22
%	BRN-1120-MW16R-02DL	WT2319-6DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	PAH	09/24/03	09/29/03	10/14/03	5	15	20
%	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	PAH	09/24/03	09/29/03	10/16/03	5	17	22
%	NASP-17-MW01-02	WT2319-1	NORMAL	3023	PAH	09/24/03	09/29/03	10/14/03	5	15	20
%	NASP-17-MW02-02	WT2299-5	NORMAL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	NASP-17-MW03-02RA	WT2299-4RA	NORMAL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	NASP-17-MW04-02DL2	WT2299-6DL2DL2	NORMAL	3023	PAH	09/23/03	09/29/03	10/20/03	6	21	27
%	NASP-17-MW05-02	WT2319-2	NORMAL	3023	PAH	09/24/03	10/01/03	10/16/03	7	15	22
%	NASP-17-MW07-02	WT2299-7DL3	NORMAL	3023	PAH	09/23/03	09/29/03	10/21/03	6	22	28
%	NASP-17-MW09-02DL	WT2319-4DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	NASP-17-MW11-02DL	WT2319-3DL	DL	3023	PAH	09/24/03	09/29/03	10/21/03	5	22	27
%	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	PAH	09/23/03	09/29/03	10/14/03	6	15	21
%	PEN-681/682-MW2S-02DL	WT2299-2DL	DL	3023	PAH	09/23/03	09/29/03	10/16/03	6	17	23
%	PEN-681/682-TW04-02DL2	WT2299-3DL2DL2	NORMAL	3023	PAH	09/23/03	09/29/03	10/20/03	6	21	27
%	WG3560-BLANK	WG3560-1	P BLANK	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15
%	WG3560-LCS	WG3560-4	LCS	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15

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
%	WG3560-LCSD	WG3560-5	LCSD	3023	PAH	09/29/03	09/29/03	10/14/03	0	15	15
%	WG3589-BLANK	WG3589-1	P BLANK	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
%	WG3589-LCS	WG3589-2	LCS	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
%	WG3589-LCSD	WG3589-3	LCSD	3023	PAH	10/01/03	10/01/03	10/16/03	0	15	15
MG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	LABQC	MBLANK	P BLANK	3023	SO4	10/10/03	10/10/03	10/10/03	0	0	0
MG/L	NASP-17-MW01-02	WT2319-1	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW02-02	WT2299-5	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW03-02	WT2299-4	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW04-02	WT2299-6	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW05-02	WT2319-2	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW07-02	WT2299-7	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	NASP-17-MW09-02	WT2319-4	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	NASP-17-MW11-02	WT2319-3	NORMAL	3023	SO4	09/24/03	10/10/03	10/10/03	16	0	16
MG/L	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
%	PEN-681/682-MW1S-02MS	WT2299-1 MS	MS	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	PEN-681/682-MW2S-02	WT2299-2	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	PEN-681/682-TW04-02	WT2299-3	NORMAL	3023	SO4	09/23/03	10/01/03	10/01/03	8	0	8
MG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	LABQC	MBLANK	P BLANK	3023	TOC	10/10/03	10/09/03	10/09/03	-1	0	-1
MG/L	NASP-17-MW01-02	WT2319-1	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	[illegible]

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/L	NASP-17-MW02-02	WT2299-5	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW03-02	WT2299-4	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW04-02	WT2299-6	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW05-02	WT2319-2	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW07-02	WT2299-7	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	NASP-17-MW09-02	WT2319-4	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW11-02	WT2319-3	NORMAL	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	NASP-17-MW11-02DUP	WT2319-3 DUP	DUPLICATE	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
%	NASP-17-MW11-02MS	WT2319-3 MS	MS	3023	TOC	09/24/03	10/14/03	10/14/03	20	0	20
MG/L	PEN-681/682-MW1S-02	WT2299-1	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	PEN-681/682-MW2S-02	WT2299-2	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
MG/L	PEN-681/682-TW04-02	WT2299-3	NORMAL	3023	TOC	09/23/03	10/09/03	10/09/03	16	0	16
UG/L	BRN-1120-FEQ-02	WT2319-8	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW16R-02	WT2319-6	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW24-02	WT2319-5	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	BRN-1120-MW26-02	WT2319-7	NORMAL	3023	TPH	09/24/03	10/01/03	10/18/03	7	17	24
UG/L	WG3582-BLANK	WG3582-1	P BLANK	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16
%	WG3582-LCS	WG3582-2	LCS	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16
%	WG3582-LCSD	WG3582-3	LCSD	3023	TPH	10/01/03	10/01/03	10/17/03	0	16	16

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 4208 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N5967	NAS Pensacola	Gerry Walker	850/385-9899	Katahdin / Andrea Colby

SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]	Bill Olson	850/510-2852	340 County Road No. 5

CARRIER/WAYBILL NUMBER	CITY, STATE
FED-EX	Westbrook ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS (STEXM)	VOCs 82608 G↔HCL	PAH's 8310 G↔N/A	TRPH FDEP FL-PRO G↔HCL	TOC 415.1 G↔H2SO4	Sulfate 300.0 P↔N/A			COMMENTS
9/24	0910	NASP-17-MW01-02	—	—	—	GW	G	5	—	2	—	2	1				See WR#
9/24	0815	NASP-17-MW05-02	—	—	—	GW	G	5	—	2	—	2	1				N5967-WR383(SS)
9/24	0825	NASP-17-MW11-02	—	—	—	GW	G	5	—	2	—	2	1				for Compound Lists
9/24	0925	NASP-17-MW09-02	—	—	—	GW	G	5	—	2	—	2	1				and CRDL's.
9/24	1450	BRN-1120-MW24-02	—	—	—	GW	G	10	3	2	2	2	1				
9/24	1615	BRN-1120-MW16R-02	—	—	—	GW	G	10	3	2	2	2	1				
9/24	1445	BRN-1120-MW26-02	—	—	—	GW	G	10	3	2	2	2	1				
9/24	1600	BRN-1120-F.EQ-02	—	—	—	~~GW~~ QC MA 9/24/03	G	10	3	2	2	2	1				
9/24	—	Trip Blank-092403	—	—	—	QC	G	2	2	—	—	—	—				

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
[signature]	9/24/03	1900	[signature]	912563	0910
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 09/29/03
Analysis Date: 10/14/03
Report Date: 10/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-5
Client ID: BRN-1120-MW24-02
SDG: CTO302-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.13	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	J	0.12	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	J	0.17	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	J	0.19	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	J	0.13	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	J	0.16	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		61%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		115%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 09/29/03
Analysis Date: 10/21/03
Report Date: 10/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-6DL
Client ID: BRN-1120-MW16R-02
SDG: CTO302-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		1.4	4.0	0.20	0.75	0.19
91-57-6	2-Methylnaphthalene		6.2	4.0	0.20	0.75	0.30
90-12-0	1-Methylnaphthalene		5.0	4.0	0.20	0.75	0.30
208-96-8	Acenaphthylene	U	0.75	4.0	0.20	0.75	0.19
83-32-9	Acenaphthene	U	0.75	4.0	0.20	0.75	0.30
86-73-7	Fluorene	U	0.75	4.0	0.20	0.75	0.23
85-01-8	Phenanthrene	U	0.75	4.0	0.20	0.75	0.30
120-12-7	Anthracene	U	0.75	4.0	0.20	0.75	0.30
206-44-0	Fluoranthene	U	0.75	4.0	0.20	0.75	0.42
129-00-0	Pyrene	U	0.75	4.0	0.20	0.75	0.34
56-55-3	Benzo(a)anthracene	U	0.75	4.0	0.20	0.75	0.45
218-01-9	Chrysene	U	0.75	4.0	0.20	0.75	0.26
205-99-2	Benzo(b)fluoranthene	U	0.75	4.0	0.20	0.75	0.34
207-08-9	Benzo(k)fluoranthene	U	0.75	4.0	0.20	0.75	0.30
50-32-8	Benzo(a)pyrene	U	0.75	4.0	0.20	0.75	0.34
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.75	4.0	0.20	0.75	0.38
53-70-3	Dibenzo(a,h)anthracene	U	0.75	4.0	0.20	0.75	0.57
191-24-2	Benzo(g,h,i)perylene	U	0.75	4.0	0.20	0.75	0.30
7297-45-2	2-Methylnaphthalene-d10		72%				
81103-79-9	Fluorene-d10		38%				
1718-52-1	Pyrene-d10		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 09/29/03
Analysis Date: 10/16/03
Report Date: 10/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-7
Client ID: BRN-1120-MW26-02
SDG: CTO302-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		63%				
81103-79-9	Fluorene-d10		93%				
1718-52-1	Pyrene-d10		118%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 09/29/03
Analysis Date: 10/16/03
Report Date: 10/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-8
Client ID: BRN-1120-FEQ-02
SDG: CTO302-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.11	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		65%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 10/01/03
Analysis Date: 10/18/03
Report Date: 10/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-5
Client ID: BRN-1120-MW24-02
SDG: CTO302-3
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		134%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 10/01/03
Analysis Date: 10/18/03
Report Date: 10/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-6
Client ID: BRN-1120-MW16R-02
SDG: CTO302-3
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	360	1.0	500	500	270
	n-Triacontane-D62		82%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT0302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 10/01/03
Analysis Date: 10/18/03
Report Date: 10/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-7
Client ID: BRN-1120-MW26-02
SDG: CT0302-3
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		71%				
	O-Terphenyl		* 74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date: 10/01/03
Analysis Date: 10/18/03
Report Date: 10/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-8
Client ID: BRN-1120-FEQ-02
SDG: CTO302-3
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		53%				
	O-Terphenyl		* 64%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date:
Analysis Date: 10/02/03
Report Date: 10/07/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-5
Client ID: BRN-1120-MW24-02
SDG: CTO302-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3600
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		109%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date:
Analysis Date: 10/02/03
Report Date: 10/07/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-6
Client ID: BRN-1120-MW16R-02
SDG: CTO302-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3600
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.7	1.0	1	1	0.1
1330-20-7	Xylenes (total)		3	1.0	3	3	0.2
	m+p-Xylenes		3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date:
Analysis Date: 10/02/03
Report Date: 10/07/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-7
Client ID: BRN-1120-MW26-02
SDG: CTO302-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3600
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date:
Analysis Date: 10/02/03
Report Date: 10/07/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-8
Client ID: BRN-1120-FEQ-02
SDG: CTO302-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3600
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		107%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO302 NAS PENSACOLA
PO No:
Sample Date: 09/24/03
Received Date: 09/25/03
Extraction Date:
Analysis Date: 10/02/03
Report Date: 10/07/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2319-9
Client ID: TRIP BLANK-092403
SDG: CTO302-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3600
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		87%				

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2319-5
Report Date: 10/22/03 9:10:29 AM
Client PO: MSA-0402-N4113-05 N5967-WR383(S
Project: CTO302 NAS PENSACOLA
SDG: CTO302-3

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW24-02	AQ	09/24/2003	09/25/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	9.0 mg/L	1.0	EPA 375.4	10/10/03 14:51	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/14/03 19:27	CYD	N/A	N/A	N/A	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2319-6
Report Date: 10/22/03 9:10:29 AM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO302 NAS PENSACOLA
SDG: CTO302-3

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW16R-02	AQ	09/24/2003	09/25/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.9 mg/L	1.0	EPA 375.4	10/10/03 14:51	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.8827 mg/L	1.0	EPA 415.1	10/14/03 19:39	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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sales@katahdinlab.com

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2319-7
Report Date: 10/22/03 9:10:29 AM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO302 NAS PENSACOLA
SDG: CTO302-3

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW26-02	AQ	09/24/2003	09/25/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.5 mg/L	1.0	EPA 375.4	10/10/03 14:51	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.7394 mg/L	1.0	EPA 415.1	10/14/03 19:51	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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sales@katahdinlab.com

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2319-8
Report Date: 10/22/03 9:10:29 AM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO302 NAS PENSACOLA
SDG: CTO302-3

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-FEQ-02	AQ	09/24/2003	09/25/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	10/10/03 14:51	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.5911 mg/L	1.0	EPA 415.1	10/14/03 20:03	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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Tel:(207) 874-2400 Fax:(207) 775-4029

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sales@katahdinlab.com

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW01-02
samp_date	9/25/2003
lab_id	WT2337-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW02-02
samp_date	9/25/2003
lab_id	WT2337-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW04-02
samp_date	9/25/2003
lab_id	WT2337-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW08-01
samp_date	9/25/2003
lab_id	WT2337-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW13R-02
samp_date	9/25/2003
lab_id	WT2337-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW14R-02
samp_date	9/25/2003
lab_id	WT2337-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	3		
M+P-XYLENES	5		
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	5		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW17-02	nsample	BRN-1120-MW18-02	nsample	BRN-1120-MW27-02
samp_date	9/26/2003	samp_date	9/26/2003	samp_date	9/25/2003
lab_id	WT2348-1	lab_id	WT2348-3	lab_id	WT2337-1
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW28-02
samp_date	9/25/2003
lab_id	WT2337-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW29-02
samp_date	9/25/2003
lab_id	WT2337-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW2S-02
samp_date	9/25/2003
lab_id	WT2337-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW35-02
samp_date	9/25/2003
lab_id	WT2337-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW5R-02
samp_date	9/25/2003
lab_id	WT2337-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	BRN-1120-MW7-02
samp_date	9/26/2003
lab_id	WT2348-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OV

nsample	TRIP BLANK-092603
samp_date	9/26/2003
lab_id	WT2348-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

nsample	TRIPBLANK-092503-1,2
samp_date	9/25/2003
lab_id	WT2337-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
O-XYLENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OS

nsample	BRN-1120-MW01-02
samp_date	9/25/2003
lab_id	WT2337-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW02-02
samp_date	9/25/2003
lab_id	WT2337-8RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW04-02
samp_date	9/25/2003
lab_id	WT2337-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OS

nsample	BRN-1120-MW08-01
samp_date	9/25/2003
lab_id	WT2337-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW13R-02
samp_date	9/25/2003
lab_id	WT2337-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW14R-02
samp_date	9/25/2003
lab_id	WT2337-5DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	76		
2-METHYLNAPHTHALENE	97		
ACENAPHTHENE	7.5	U	
ACENAPHTHYLENE	7.5	U	
ANTHRACENE	7.5	U	
BENZO(A)ANTHRACENE	7.5	U	
BENZO(A)PYRENE	7.5	U	
BENZO(B)FLUORANTHENE	7.5	U	
BENZO(G,H,I)PERYLENE	7.5	U	
BENZO(K)FLUORANTHENE	7.5	U	
CHRYSENE	7.5	U	
DIBENZO(A,H)ANTHRACENE	7.5	U	
FLUORANTHENE	7.5	U	
FLUORENE	2.5	J	P
INDENO(1,2,3-CD)PYRENE	7.5	U	
NAPHTHALENE	41		
PHENANTHRENE	7.5	U	
PYRENE	7.5	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OS

nsample	BRN-1120-MW17-02
samp_date	9/26/2003
lab_id	WT2348-1RA2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW18-02
samp_date	9/26/2003
lab_id	WT2348-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW27-02
samp_date	9/25/2003
lab_id	WT2337-1RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.17	J	P
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	0.14	J	P
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.17	J	P
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.077	J	P
PYRENE	0.22		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OS

nsample	BRN-1120-MW28-02
samp_date	9/25/2003
lab_id	WT2337-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW29-02
samp_date	9/25/2003
lab_id	WT2337-3RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW28-02
samp_date	9/25/2003
lab_id	WT2337-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.11	J	P
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: OS

nsample	BRN-1120-MW35-02
samp_date	9/25/2003
lab_id	WT2337-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW5R-02
samp_date	9/25/2003
lab_id	WT2337-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	BRN-1120-MW7-02
samp_date	9/26/2003
lab_id	WT2348-2RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	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	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW01-02
samp_date	9/25/2003
lab_id	WT2337-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	290	J	P

nsample	BRN-1120-MW02-02
samp_date	9/25/2003
lab_id	WT2337-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	BRN-1120-MW04-02
samp_date	9/25/2003
lab_id	WT2337-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	720		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW08-01	nsample	BRN-1120-MW13R-02	nsample	BRN-1120-MW14R-02
samp_date	9/25/2003	samp_date	9/25/2003	samp_date	9/25/2003
lab_id	WT2337-12	lab_id	WT2337-7	lab_id	WT2337-5
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	4600		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW17-02
samp_date	9/26/2003
lab_id	WT2348-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	BRN-1120-MW18-02
samp_date	9/26/2003
lab_id	WT2348-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	BRN-1120-MW27-02
samp_date	9/25/2003
lab_id	WT2337-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW28-02	nsample	BRN-1120-MW29-02	nsample	BRN-1120-MW~~28~~ 25-02
samp_date	9/25/2003	samp_date	9/25/2003	samp_date	9/25/2003
lab_id	WT2337-2	lab_id	WT2337-3	lab_id	WT2337-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW35-02
samp_date	9/25/2003
lab_id	WT2337-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	BRN-1120-MW5R-02
samp_date	9/25/2003
lab_id	WT2337-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	890		

nsample	BRN-1120-MW7-02
samp_date	9/26/2003
lab_id	WT2348-2RE
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW01-02
samp_date	9/25/2003
lab_id	WT2337-9
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	1	U	
TOTAL ORGANIC CARBON	2	U	A

nsample	BRN-1120-MW02-02
samp_date	9/25/2003
lab_id	WT2337-8
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	1	U	
TOTAL ORGANIC CARBON	3	U	A

nsample	BRN-1120-MW04-02
samp_date	9/25/2003
lab_id	WT2337-11
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	7		
TOTAL ORGANIC CARBON	6.2		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW08-01
samp_date	9/25/2003
lab_id	WT2337-12
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	10		
TOTAL ORGANIC CARBON	2	U	A

nsample	BRN-1120-MW13R-02
samp_date	9/25/2003
lab_id	WT2337-7
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	7.5		
TOTAL ORGANIC CARBON	1	U	A

nsample	BRN-1120-MW14R-02
samp_date	9/25/2003
lab_id	WT2337-5
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	1	U	
TOTAL ORGANIC CARBON	6.6		

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW17-02
samp_date	9/26/2003
lab_id	WT2348-1
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	5.4		
TOTAL ORGANIC CARBON	1	U	A

nsample	BRN-1120-MW18-02
samp_date	9/26/2003
lab_id	WT2348-3
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	9.8		
TOTAL ORGANIC CARBON	1	U	A

nsample	BRN-1120-MW27-02
samp_date	9/25/2003
lab_id	WT2337-1
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	5.5		
TOTAL ORGANIC CARBON	1	U	A

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW28-02	nsample	BRN-1120-MW29-02	nsample	BRN-1120-MW~~23~~25-02
samp_date	9/25/2003	samp_date	9/25/2003	samp_date	9/25/2003
lab_id	WT2337-2	lab_id	WT2337-3	lab_id	WT2337-6
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	5		
TOTAL ORGANIC CARBON	1	U	A

Parameter	Result	Val Qual	Qual Code
SULFATE	8.3		
TOTAL ORGANIC CARBON	1	U	A

Parameter	Result	Val Qual	Qual Code
SULFATE	5		
TOTAL ORGANIC CARBON	1	U	A

PROJ_NO: 5967

SDG: 3024 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW35-02
samp_date	9/25/2003
lab_id	WT2337-4
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	16		
TOTAL ORGANIC CARBON	1	U	A

nsample	BRN-1120-MW5R-02
samp_date	9/25/2003
lab_id	WT2337-10
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	1	U	
TOTAL ORGANIC CARBON	9.9		

nsample	BRN-1120-MW7-02
samp_date	9/26/2003
lab_id	WT2348-2
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
SULFATE	3.3		
TOTAL ORGANIC CARBON	1	U	A

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-9
Client ID: BRN-1120-MW01-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		113%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-8
Client ID: BRN-1120-MW02-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-11
Client ID: BRN-1120-MW04-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		114%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-12
Client ID: BRN-1120-MW08-01
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		113%				
17060-07-0	1,2-Dichloroethane-D4		112%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-7
Client ID: BRN-1120-MW13R-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		109%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-5
Client ID: BRN-1120-MW14R-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		3	1.0	1	1	0.1
1330-20-7	Xylenes (total)		5	1.0	3	3	0.2
	m+p-Xylenes		5	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		111%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICA
Report of Analytic

Client: Tetra Tech NUS,
Project: CTO 302 NAS PE
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: W
Client ID
SDG: CTO3
Extracted
Extractio
Analyst:
Analysis
Lab Prep
Units: ug/

CAS#	Compound	Flags	Results
1634-04-4	Methyl tert-butyl ether	U	2
71-43-2	Benzene	U	1
108-88-3	Toluene	U	1
100-41-4	Ethylbenzene	U	1
1330-20-7	Xylenes (total)	U	3
	m+p-Xylenes	U	2
95-47-6	o-Xylene	U	1
1868-53-7	Dibromofluoromethane		116%
17060-07-0	1,2-Dichloroethane-D4		119%
2037-26-5	Toluene-D8		97%
460-00-4	P-Bromofluorobenzene		90%

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-3
Client ID: BRN-1120-MW18-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		117%				
17060-07-0	1,2-Dichloroethane-D4		121%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		92%				

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/06/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

CAS#	Compound
1634-04-4	Methyl tert-butyl [illegible]
71-43-2	Benzene
108-88-3	Toluene
100-41-4	Ethylbenzene
1330-20-7	Xylenes (total)
	m+p-Xylenes
95-47-6	o-Xylene
1868-53-7	Dibromofluoromethane
17060-07-0	1,2-Dichloroethane
2037-26-5	Toluene-D8
460-00-4	P-Bromofluorobenzene

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/06/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-2
Client ID: BRN-1120-MW28-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3636
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		117%				
17060-07-0	1,2-Dichloroethane-D4		115%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/06/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-3
Client ID: BRN-1120-MW29-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3636
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		116%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-6
Client ID: BRN-1120-MW2S-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/06/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-4
Client ID: BRN-1120-MW35-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3636
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		118%				
17060-07-0	1,2-Dichloroethane-D4		114%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-10
Client ID: BRN-1120-MW5R-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		112%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-2
Client ID: BRN-1120-MW7-02
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		115%				
17060-07-0	1,2-Dichloroethane-D4		120%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-4
Client ID: TRIP BLANK-092603
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date:
Analysis Date: 10/07/03
Report Date: 10/10/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-13
Client ID: TRIPBLANK-092503-1,
SDG: CTO302-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG3661
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-9
Client ID: BRN-1120-MW01-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		58%				
81103-79-9	Fluorene-d10		50%				
1718-52-1	Pyrene-d10		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-8RA
Client ID: BRN-1120-MW02-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		70%				
81103-79-9	Fluorene-d10		88%				
1718-52-1	Pyrene-d10		112%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-11
Client ID: BRN-1120-MW04-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		71%				
81103-79-9	Fluorene-d10		90%				
1718-52-1	Pyrene-d10		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-12
Client ID: BRN-1120-MW08-01
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		55%				
81103-79-9	Fluorene-d10		81%				
1718-52-1	Pyrene-d10		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-7
Client ID: BRN-1120-MW13R-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		94%				
1718-52-1	Pyrene-d10		120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 09/29/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-5DL
Client ID: BRN-1120-MW14R-02
SDG: CT0302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		41	40	0.20	7.5	1.9
91-57-6	2-Methylnaphthalene		97	40	0.20	7.5	3.0
90-12-0	1-Methylnaphthalene		76	40	0.20	7.5	3.0
208-96-8	Acenaphthylene	U	7.5	40	0.20	7.5	1.9
83-32-9	Acenaphthene	U	7.5	40	0.20	7.5	3.0
86-73-7	Fluorene	J	2.5	40	0.20	7.5	2.3
85-01-8	Phenanthrene	U	7.5	40	0.20	7.5	3.0
120-12-7	Anthracene	U	7.5	40	0.20	7.5	3.0
206-44-0	Fluoranthene	U	7.5	40	0.20	7.5	4.2
129-00-0	Pyrene	U	7.5	40	0.20	7.5	3.4
56-55-3	Benzo(a)anthracene	U	7.5	40	0.20	7.5	4.5
218-01-9	Chrysene	U	7.5	40	0.20	7.5	2.6
205-99-2	Benzo(b)fluoranthene	U	7.5	40	0.20	7.5	3.4
207-08-9	Benzo(k)fluoranthene	U	7.5	40	0.20	7.5	3.0
50-32-8	Benzo(a)pyrene	U	7.5	40	0.20	7.5	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	7.5	40	0.20	7.5	3.8
53-70-3	Dibenzo(a,h)anthracene	U	7.5	40	0.20	7.5	5.7
191-24-2	Benzo(g,h,i)perylene	U	7.5	40	0.20	7.5	3.0
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/01/03
Analysis Date: 10/23/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-1RA2
Client ID: BRN-1120-MW17-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		90%				
81103-79-9	Fluorene-d10		66%				
1718-52-1	Pyrene-d10		140%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/01/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-3
Client ID: BRN-1120-MW18-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		61%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 09/29/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-1RA
Client ID: BRN-1120-MW27-02
SDG: CTO302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	J	0.077	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	J	0.17	1.0	0.20	0.20	0.10
129-00-0	Pyrene		0.22	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	J	0.17	1.0	0.20	0.20	0.12
218-01-9	Chrysene	J	0.14	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		64%				
81103-79-9	Fluorene-d10		62%				
1718-52-1	Pyrene-d10		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 09/29/03
Analysis Date: 10/14/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-2
Client ID: BRN-1120-MW28-02
SDG: CTO302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		56%				
81103-79-9	Fluorene-d10		63%				
1718-52-1	Pyrene-d10		120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 09/29/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-3RA
Client ID: BRN-1120-MW29-02
SDG: CT0302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		78%				
81103-79-9	Fluorene-d10		106%				
1718-52-1	Pyrene-d10		125%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-6
Client ID: BRN-1120-MW2S-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	J	0.11	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		71%				
81103-79-9	Fluorene-d10		58%				
1718-52-1	Pyrene-d10		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 09/29/03
Analysis Date: 10/21/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-4
Client ID: BRN-1120-MW35-02
SDG: CTO302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3560
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		71%				
81103-79-9	Fluorene-d10		64%				
1718-52-1	Pyrene-d10		131%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/22/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-10
Client ID: BRN-1120-MW5R-02
SDG: CT0302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		102%				
1718-52-1	Pyrene-d10		102%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/01/03
Analysis Date: 10/23/03
Report Date: 10/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-2RA
Client ID: BRN-1120-MW7-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG3589
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		82%				
81103-79-9	Fluorene-d10		82%				
1718-52-1	Pyrene-d10		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-9
Client ID: BRN-1120-MW01-02
SDG: CT0302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	290	1.0	500	500	270
	n-Triacontane-D62		105%				
	O-Terphenyl		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-8
Client ID: BRN-1120-MW02-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		95%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-11
Client ID: BRN-1120-MW04-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		720	1.0	500	500	270
	n-Triacontane-D62		108%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-12
Client ID: BRN-1120-MW08-01
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		103%				
	O-Terphenyl		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-7
Client ID: BRN-1120-MW13R-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		78%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-5
Client ID: BRN-1120-MW14R-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		4600	1.0	500	500	270
	n-Triacontane-D62		65%				
	O-Terphenyl		82%				

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/02/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

CAS#	Compound
	Petroleum Range Org
	n-Triacontane-D62
	O-Terphenyl

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/02/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-3
Client ID: BRN-1120-MW18-02
SDG: CTO302-4
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3596
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		87%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-1
Client ID: BRN-1120-MW27-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		69%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-2
Client ID: BRN-1120-MW28-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		51%				
	O-Terphenyl		* 64%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-3
Client ID: BRN-1120-MW29-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		64%				
	O-Terphenyl		* 79%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/19/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-4
Client ID: BRN-1120-MW35-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		61%				
	O-Terphenyl		* 76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-6
Client ID: BRN-1120-MW2S-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		64%				
	O-Terphenyl		* 81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/25/03
Received Date: 09/26/03
Extraction Date: 10/01/03
Analysis Date: 10/21/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2337-10
Client ID: BRN-1120-MW5R-02
SDG: CTO302-4
Extracted by: ls
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG3582
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		890	1.0	500	500	270
	n-Triacontane-D62		104%				
	O-Terphenyl		* 80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 09/26/03
Received Date: 09/27/03
Extraction Date: 10/24/03
Analysis Date: 10/24/03
Report Date: 10/28/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2348-2RE
Client ID: BRN-1120-MW7-02
SDG: CTO302-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4003
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		95%				
	O-Terphenyl		* 79%				

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-9
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW01-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	2 mg/L	1.0	EPA 415.1	10/14/03 22:56	CYD	N/A	N/A	N/A	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-8
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW02-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	3 mg/L	1.0	EPA 415.1	10/14/03 22:44	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-11
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW04-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	7.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	6.2 mg/L	1.0	EPA 415.1	10/14/03 23:20	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-12
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW08-01	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	10 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	2 mg/L	1.0	EPA 415.1	10/14/03 23:32	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-7
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW13R-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	7.5 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/14/03 22:32	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-5
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(S
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW14R-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	10/22/03 17:57	KGT	N/A	N/A	N/A	
Total Organic Carbon	6.6 mg/L	1.0	EPA 415.1	10/14/03 22:08	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
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661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2348-1
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW17-02	AQ	09/26/2003	09/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	5.4 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.58 mg/L	1.0	EPA 415.1	10/15/03 10:14	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2348-3
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS,
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW18-02	AQ	09/26/2003	09/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	9.8 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/15/03 10:38	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-1
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW27-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	5.5 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/14/03 20:15	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-2
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW28-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	5.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.7415 mg/L	1.0	EPA 415.1	10/14/03 20:27	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-3
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW29-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	8.3 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/14/03 20:39	CYD	N/A	N/A	N/A	

Notes

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-6
Report Date: 10/28/03 5:10:10 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(S
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW2S-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	5.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	10/14/03 22:20	CYD	N/A	N/A	N/A	

Notes

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-4
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW35-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	16 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.4773 mg/L	1.0	EPA 415.1	10/14/03 20:51	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2337-10
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW5R-02	AQ	09/25/2003	09/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	9.9 mg/L	1.0	EPA 415.1	10/14/03 23:08	CYD	N/A	N/A	N/A	

Notes

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sales@katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

Lab Sample Id: WT2348-2
Report Date: 10/28/03 3:30:00 PM
Client PO: MSA-0402-N4113-05 N5967-WR383(SS)
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-4

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW7-02	AQ	09/26/2003	09/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.3 mg/L	1.0	EPA 375.4	10/18/03 16:21	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.4145 mg/L	1.0	EPA 415.1	10/15/03 10:26	CYD	N/A	N/A	N/A	1

Notes

(1) 'J' flag denotes an estimated value. The analyte was detected in the sample at a concentration greater than the measured detection limit but less than the laboratory's Practical Quantitation Level.

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sales@katahdinlab.com

Tetratech W12537

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4270 | PAGE 1 OF

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N5967	NAS Pensacola	Gerry Walker	850/3859899	Katahdin Analytical
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
TTA		Bill Olson	850/5102852	340 County Rd No. 5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed Ex		Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G, P

PRESERVATIVE USED: HCL, N/A, HCL, H2SO4, N/A

TYPE OF ANALYSIS: VOC's 8260B, PAH's 8310, TRPH FDEPFLTRD, TOC 415.1, Sulfate 300.0

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	VOC's 8260B	PAH's 8310	TRPH FDEPFLTRD	TOC 415.1	Sulfate 300.0				COMMENTS
9/25	0920	BRN-1120-MW27-02	—	—	—	GW	G	10	3	2	2	2	1				See WR#
9/25	1030	BRN-1120-MW28-02	—	—	—	GW	G	10	3	2	2	2	1				N5967-WR383
9/25	1145	BRN-1120-MW29-02	—	—	—	GW	G	10	3	2	2	2	1				for Compound Lists
9/25	1315	BRN-1120-MW35-02	—	—	—	GW	G	10	3	2	2	2	1				and CRDLs.
9/25	1415	BRN-1120-MW14R-02	—	—	—	GW	G	10	3	2	2	2	1				
9/25	1525	BRN-1120-MW25-02	—	—	—	GW	G	10	3	2	2	2	1				
	0900	BRN-1120-MW13R-02	—	—	—	GW	G	10	3	2	2	2	1				
	1050	BRN-1120-MW02-02	—	—	—	GW	G	10	3	2	2	2	1				
	1215	BRN-1120-MW01-02	—	—	—	GW	G	10	3	2	2	2	1				
	1325	BRN-1120-MW5R-02	—	—	—	GW	G	10	3	2	2	2	1				
	1440	BRN-1120-MW04-02	—	—	—	GW	G	10	3	2	2	2	1				
	1545	BRN-1120-MW08-01	—	—	—	GW	G	10	3	2	2	2	1				
	—	Trip Blank-092503-1, 2	—	—	—	GW	G	10	4	—	—	—	—				1 in each cooler w/ volatiles

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	9/25/03	1900	1. RECEIVED BY [signature]	9/26/03	0945
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 4269 | PAGE 1 OF

PROJECT NO: N5967	FACILITY: NAS Pensacola	PROJECT MANAGER Gerry Walker	PHONE NUMBER 850/385 9899	LABORATORY NAME AND CONTACT: Katahdin / Andrea Co
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Bill Olson	PHONE NUMBER 850/5102852	ADDRESS 340 County Rd No. 5
		CARRIER/WAYBILL NUMBER FED-EX		CITY, STATE Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G P

PRESERVATIVE USED: HCL N/A HCL H_2SO_4 N/A

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	VOC's 8260	PAH's 8310	TRPH EPA FL PRO	TOC 4151.1	Sulfate 300.0				COMMENTS
9/26	0820	BRN-1120-MW17-02				GW	G	10	3	2	2	2	1				
	0935	BRN-1120-MW7-02															
	0830	BRN-1120-MW18-02															
9/26	—	TripBlank-072603				QC	G	2	2								

1. RELINQUISHED BY	DATE 9/26/03	TIME 1300	1. RECEIVED BY	DATE 9/27/03	TIME 1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R