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

2/11/2004

TETRA TECH

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TtNUS/TAL-04-10/4184-6.1

February 11, 2004

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
Second 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 (NA) Treatability Study Second 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 second quarter groundwater monitoring event conducted in December 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 NA 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 NA monitoring at the site.

TtNUS personnel conducted the first and second quarterly groundwater monitoring events in April 2002 and July 2002, respectively. Data collected during the second quarterly groundwater monitoring event indicated that concentrations of contaminants of concern (COCs) in the groundwater exceeded FDEP site-specific action levels. A confirmation sampling event was completed in September 2002 which confirmed the exceedance. Based on these results TtNUS recommended that an Enhanced NA Treatability Study using Oxygen-Release Compound (ORC®) be completed at UST Site 1120.

Enhanced NA Treatability Study

The following activities were 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 June 24 through 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, the quarterly performance monitoring letter reports and the Treatability Study Evaluation Report will document this treatability study.

Groundwater Monitoring Activities

TtNUS personnel conducted the second quarterly groundwater monitoring event from December 8 through December 11, 2003. The second 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 NA 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-01
- MW-02
- MW-04
- MW-5R
- MW-7
- MW-13R
- MW-14R
- MW-16R
- MW-17
- MW-18
- MW-24
- MW-25
- MW-26
- MW-27
- MW-28
- MW-29
- DMW-35

Three additional monitoring wells, MW-8, MW-11 and MW-15, were scheduled for sampling in the second quarter, but were dry and could not be sampled.

During the baseline sampling event, groundwater samples were not collected from MW-08 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. During the baseline field event, a groundwater sample was collected from monitoring well MW-32 as a replacement for monitoring well MW-29.

During the first quarter sampling event, monitoring well MW-29 was located and sampled as specified in the treatability study work plan. MW-08 was also sampled during the first quarter.

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, dissolved oxygen (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 NA parameters: ferrous iron, alkalinity, carbon dioxide, DO, and hydrogen sulfide. Groundwater Sample Log Sheets compiled during purging and sampling at each location are 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 December 8, 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-01). The water level data were used to estimate groundwater elevation and flow direction at the site (Figure 4). Free product was not detected in the site monitoring wells.

The water level data collected during the second 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 second quarterly monitoring event were 0.53 to 2.08 feet lower than the elevations measured during the baseline sampling event in June 2003 and 0.23 to 2.90 feet lower than the elevations measured during the first quarterly event in September 2003.

Groundwater Analytical Results

The analytical results for the groundwater samples collected at UST Site 1120 during the second quarter monitoring event have been compared to the appropriate groundwater cleanup target levels (GCTLs) and site specific NA action levels. The analytical results for the monitoring wells are summarized in Table 2. The sampling locations with GCTL exceedances are shown on Figure 5. The following GCTL exceedances were reported in groundwater samples collected from UST Site 1120 during the second quarter sampling event:

Compound	Florida GCTL	Location Detected	Concentration
1-Methylnaphthalene	20 micrograms per liter (μg/L)	MW-04 MW-5R MW-14R MW-24	36 μg/L 34 μg/L 130 μg/L 26 μg/L
2-Methylnaphthalene	20 μg/L	MW-04 MW-5R MW-14R MW-16R MW-24 MW-25	52 μg/L 43 μg/L 200 μg/L 23 μg/L 50 μg/L 56 μg/L
Naphthalene	20 μg/L	MW-04 MW-5R MW-14R	42 μg/L 48 μg/L 98 μg/L
Total Xylenes	20 μg/L	MW-5R	30 μg/L

The concentrations of 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, and total xylenes detected in samples from Site 1120 monitoring wells are less than the action level of 200 μg/L for each of these compounds established for contaminated wells in the MOP Approval Order. An overall review of the data indicates a general increase in detected concentrations when compared to the first quarter groundwater sampling results.

NA Parameter Results

Table 3 provides a summary of the NA results and a list of the preferred range of NA parameters to have conditions conducive to biodegradation. The concentration of each parameter and concentration changes between monitoring events with respect to background levels indicate whether the site is conducive to aerobic degradation of naturally occurring microbes. This geochemical data provides a secondary line of evidence to determine if enhanced NA is occurring. The first measurements were recorded on June 24 and 25, 2003, and are considered baseline values of the parameters because they were recorded prior to ORC® injection. The trends and a discussion of how the NA parameter measurements compare to the baseline values are discussed below.

DO readings observed in the monitoring wells during the current sampling event are included in Table 3 along with the other NA parameters. In general the wells that exhibited an increase in DO concentrations between the baseline and first quarter events were the same wells that exhibited a decrease in DO concentrations between the first and second quarter events. This may be the result of NA, as the microbes are consuming the oxygen as it is released from the ORC® to biodegrade the contamination.

The carbon dioxide levels observed in each well measured have decreased in comparison to first quarter concentrations, but are fairly consistent with baseline concentrations of carbon dioxide. Carbon dioxide is the carbon product of biodegradation for every respiration process other than methanogenesis. The increase in carbon dioxide concentrations between the baseline and first quarter events may indicate increased biodegradation due to the increased oxygen available from the ORC® injection. The decrease of carbon dioxide concentrations between the first and second quarter events may indicate the biodegradation rate has slowed. This may be the result from enhanced NA where DO is consumed faster than it is released by the ORC®.

In general, the alkalinity levels in each of the monitoring wells have fluctuated. The alkalinity levels measured to date have not exhibited an evident pattern or trend. High alkalinity levels usually indicate that a site is conducive to aerobic biodegradation. However, since there has been an inconsistent trend with alkalinity values, no conclusions can be made.

The presence of ferrous iron is indicative of a site in the process of bioremediation via anaerobic microbial activity. In general, ferrous iron concentrations in each of the monitoring wells have fluctuated. Ferrous iron concentrations measured to date have not exhibited an evident pattern or trend. The concentrations range from 0 to 3.8 milligrams per liter (mg/L), with wells having an average concentration of 1.84 mg/L. Favorable conditions for anaerobic bioremediation have ferrous iron concentrations of 1 mg/L or greater.

In general, monitoring wells at Site 1120 have experienced apparent decreases in hydrogen sulfide concentrations, with nine wells having no detectable concentration of hydrogen sulfide. The decrease and absence of hydrogen sulfide is indicative of oxidizing conditions or aerobic biodegradation.

In all of the wells, the temperature of the water has fluctuated between quarters. This is most likely because of seasonal changes in temperature in the area. The temperature of the groundwater is in the range that provides an environment conducive to biodegradation.

The trend of sulfate measured in the groundwater shows that the concentrations have fluctuated throughout the monitoring process. Sulfate concentrations measured to date have not exhibited an evident pattern or trend. Increasing sulfate concentrations would normally be indicative that oxidizing conditions exist and are promoting the transition from reduced sulfides to sulfates.

Conclusions

Naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and total xylene concentrations in monitoring well MW-04 have decreased significantly compared to the analytical results from the baseline sampling event. Reported concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene remain in excess of their GCTL of 20 μg/L, however, are less than the FDEP action level of 200 μg/L for contaminated monitoring well MW-04.

Reported concentrations of naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and total xylenes have fluctuated in samples collected from contaminated monitoring well MW-14R. 1-Methylnaphthalene and total xylenes have decreased in concentration while 2-methylnaphthalene and naphthalene have increased in concentration compared to analytical results for monitoring well MW-14R from the baseline sampling event. Reported concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene still exceed their GCTL of 20 μg/L for contaminated monitoring well MW-14R.

Four contaminated monitoring wells, MW-5R, MW-16R, MW-24, and MW-25 have had one or more contaminants increase in concentration. Reported concentrations of 2-methylnaphthalene above its GCTL of 20 μg/L were reported for samples collected from contaminated monitoring wells MW-16R and MW-25. Reported concentrations for total xylenes, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene exceeded their GCTLs of 20 μg/L in various samples collected from contaminated monitoring wells.

The ORC® injection appears to have released 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 during the first quarter, however, second quarter DO measurements indicate DO concentrations have decreased. Whereas, some wells have exhibited a decrease in contaminant concentration and others have exhibited an increase, the fluctuating contaminant concentrations may be related to the fluctuating water table at the site between quarterly sampling events.

TtNUS recommends that the Treatability Study be continued as specified in the Treatability Study Workplan, with the exception that sampling of monitoring well MW-28 be discontinued and a sample from monitoring well MW-30 be collected in its place. This change may help to better define the current groundwater plume contaminant levels and the evaluation of the ongoing natural attenuation processes.

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/mta

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

			Sampling Event Measurement Date	Baseline 6/27/2003			First Quarter 9/24/2003			Second Quarter 12/8/2003		
Well Designation	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)	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	15.92	18.81	14.08
MW-2	3/29/1996	23.5	30.08	16.18	NR	13.90	14.08	23.45	16.00	16.81	23.44	13.27
MW-3	3/29/1996	23.5	30.74	16.95	NR	13.79	14.81	23.29	15.93	17.60	23.29	13.14
MW-4	3/29/1996	22.5	29.08	15.33	NR	13.75	13.21	22.04	15.87	16.08	22.03	13.00
MW-5R	7/23/2002	25.2	28.86	13.66	NR	15.20	12.84	25.07	16.02	15.74	25.19	13.12
MW-7	5/14/1996	22.0	29.46	15.81	NR	13.65	13.68	21.55	15.78	16.45	21.51	13.01
MW-8	5/14/1996	22.0	29.90	DRY	NR	NA	14.12	17.00	15.78	16.3	17.21	13.60
MW-9	5/14/1996	22.0	29.66	DRY	NR	NA	NF	NF	NF	DRY	14.70	NA
MW-10	5/14/1996	22.0	29.21	NR	NR	NA	NR	NR	NR	16.25	16.29	12.96
MW-11	5/14/1996	22.0	28.43	NR	NR	NA	12.41	13.00	16.02	DRY	14.00	NA
MW-12	5/14/1996	22.0	28.66	14.32	NR	14.34	NR	NR	NR	DRY	14.99	NA
MW-13R	7/23/2002	24.9	29.58	NR	NR	NA	13.72	25.00	15.86	16.43	24.94	13.15
MW-14R	07/24/02	24.5	29.50	16.01	NR	13.49	14.38	24.62	15.12	16.65	24.53	12.85
MW-15	7/31/1996	22.0	30.38	DRY	NR	NA	15.01	15.25	15.37	DRY	15.40	NA
MW-16R	7/24/2002	24.6	28.49	14.90	NR	13.59	15.26	24.52	13.23	15.49	24.41	13.00
MW-17	8/1/1996	22.0	30.71	17.10	NR	13.61	15.11	17.75	15.60	17.69	18.06	13.02
MW-18	8/1/1996	22.0	30.59	17.03	NR	13.56	15.21	21.96	15.38	17.74	21.96	12.85
MW-19	8/1/1996	22.0	30.22	16.47	NR	13.75	14.30	16.20	15.92	17.00	17.36	13.22
MW-20	8/1/1996	22.0	29.85	DRY	NR	NA	13.89	14.08	15.96	DRY	14.91	NA
MW-21	8/1/1996	22.0	28.24	14.39	NR	13.85	12.55	15.83	15.69	15.00	15.58	13.24
MW-22	9/18/1996	24.0	28.01	14.28	NR	13.73	12.69	23.95	15.32	15.13	23.90	12.88
MW-23	9/18/1996	23.0	28.52	14.94	NR	13.58	13.39	15.30	15.13	DRY	15.24	NA
MW-24	9/18/1996	23.0	29.45	15.96	NR	13.49	14.45	23.35	15.00	16.75	23.40	12.70
MW-25	9/19/1996	24.0	30.25	16.79	NR	13.46	15.16	23.55	15.09	17.50	23.50	12.75
MW-26	9/19/1996	24.0	30.91	17.54	NR	13.37	15.95	19.50	14.96	18.30	23.61	12.61
MW-27	10/22/1996	25.0	32.55	19.30	NR	13.25	17.59	24.49	14.96	19.91	24.47	12.64
MW-28	10/22/1996	25.0	32.68	19.50	NR	13.18	17.99	21.90	14.69	20.25	24.15	12.43
MW-29	10/22/1996	25.0	31.03	NF	NR	NA	16.30	24.40	14.73	18.55	24.51	12.48
MW-30	10/22/1996	25.0	29.71	16.35	NR	13.36	NF	NF	NF	17.18	24.15	12.53
MW-31	10/22/1996	25.0	29.18	15.68	NR	13.50	14.25	15.15	14.93	DRY	15.89	NA
MW-32	12/10/1996	25.0	30.43	17.27	NR	13.16	15.91	17.95	14.52	18.00	18.06	12.43
MW-33	12/10/1996	25.0	32.11	NR	NR	NA	17.50	19.85	14.61	19.70	20.60	12.41
DMW-34	1/29/1997	40.0	31.46	16.81	NR	14.65	15.02	38.60	16.44	17.46	38.63	14.00
DMW-35	5/22/2000	39.5	32.26	NR	NR	NA	17.07	42.59	15.19	19.44	42.59	12.82

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

GW - Groundwater

DRY - no water detected in well

NR - Not Recorded

NA - Not applicable

NF - Not Found

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

Sample Designation			BRN-1120-MW01-03			BRN-1120-MW02-03			BRN-1120-MW04-03		
Sample Location			MW-1			MW-2			MW-4		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	6/24/2003	9/25/2003	12/10/2003	6/24/2003	9/25/2003	12/10/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)									
Volatiles [3] (µg/L)											
Benzene	1	100	--	--	--	--	--	0.09 J	--	--	--
Ethylbenzene	30	300	--	--	--	0.5 J	--	--	14	--	6
m&p-Xylene	NC	NC	--	--	--	--	--	--	28	--	12
o-Xylene	NC	NC	--	--	--	0.5 J	--	--	--	--	--
Toluene	40	400	--	--	--	--	--	0.3 J	--	--	--
Total Xylenes	20	200	--	--	--	2	--	--	**28**	--	12
PAHs [4] (µg/L)											
1-Methylnaphthalene	**20**	200	--	--	--	5.9	--	1.4	**380**	--	**36**
2-Methylnaphthalene	**20**	200	--	--	--	4.9	--	1.2	**220**	--	**52**
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	--	1.3	**440**	--	**42**
Phenanthrene	210	2,100	--	--	--	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	--	--	--	--	--	--
TRPH [6] (µg/L)	5000	50,000	--	290 J	--	1600	--	--	3200	720	--

See notes at end of table

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

Sample Designation			BRN-1120-MW5R-03			BRN-1120-MW07-03			BRN-1120-MW8-02		
Sample Location			MW-5R			MW-7			MW-8		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	6/25/2003	9/26/2003	12/11/2003	NA	9/25/2003	NA
	GCTL[1] (µg/L)	NADC[2] (µg/L)									
Volatiles [3] (µg/L)											
Ethylbenzene	30	300	0.35	--	10	--	--	--	NS	--	NS
m&p-Xylene	NC	NC	--	--	30	--	--	--	NS	--	NS
o-Xylene	NC	NC	--	--	--	--	--	--	NS	--	NS
Total Xylenes	**20**	200	--	--	**30**	--	--	--	NS	--	NS
PAHs [4] (µg/L)											
1-Methylnaphthalene	**20**	200	2.2	--	**34**	--	--	0.37	NS	--	NS
2-Methylnaphthalene	**20**	200	1.3	--	**43**	--	--	0.25	NS	--	NS
Acenaphthene	20	200	--	--	--	--	--	--	NS	--	NS
Acenaphthylene			--	--	--	--	--	0.051	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	--	--	--	--	--	0.11	NS	--	NS
Naphthalene	**20**	200	2.1	--	**48**	--	--	--	NS	--	NS
Phenanthrene	210	2,100	--	--	--	--	--	--	NS	--	NS
Pyrene	210	2,100	--	--	--	--	--	--	NS	--	NS
TRPH [5] (µg/L)	5000	50,000	620	890	--	--	--	--	NS	--	NS

See notes at end of table

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

Sample Designation			BRN-1120-MW13R-03			BRN-1120-MW14R-03			BRN-1120-MW16R-03		
Sample Location			MW-13R			MW-14R			MW-16R		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/25/2003	9/25/2003	12/10/2003	6/25/2003	9/25/2003	12/10/2003	6/25/2003	9/24/2003	12/10/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)									
Volatiles [3] (µg/L)											
Ethylbenzene	30	300	--	--	--	16	3	9	--	0.7 J	--
m&p-Xylene	NC	NC	--	--	--	32	5	12	--	3	--
o-Xylene	NC	NC	--	--	--	--	--	--	--	--	--
Total Xylenes	20	200	--	--	--	**32**	5	12	--	3	--
PAHs [4] (µg/L)											
1-Methylnaphthalene	**20**	200	--	--	--	**160**	**76**	**130**	2.3	5	13
2-Methylnaphthalene	**20**	**200**	--	--	--	**150**	**97**	**200**	5.6	6.2	**23**
Acenaphthene	20	200	--	--	--	--	--	--	--	--	0.98 J
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	--	--	--	1.1 J
Naphthalene	**20**	200	--	--	--	**52**	**41**	**98**	--	1.4	--
Phenanthrene	210	2,100	--	--	--	--	--	--	--	--	--
Pyrene	210	2,100	--	--	--	--	--	--	--	--	--
TRPH [5] (µg/L)	5000	50,000	--	--	--	3800	4600	4000	400 J	360 J	--

See notes at end of table

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

Sample Designation			BRN-1120-MW17-03			BRN-1120-MW18-03			BRN-1120-MW24-03		
Sample Location			MW-17			MW-18			MW-24		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/26/2003	12/11/2003	6/26/2003	9/26/2003	12/11/2003	6/25/2003	9/24/2003	12/10/2003
	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	--	**26**
2-Methylnaphthalene	**20**	200	0.092 J	--	--	--	--	--	5.9	0.12 J	**50**
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	--	2.9 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	--	--

See notes at end of table.

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

Sample Designation			BRN-1120-MW25-03			BRN-1120-MW26-03			BRN-1120-MW27-03		
Sample Location			MW-25			MW-26			MW-27		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/25/2003	12/11/2003	6/26/2003	9/24/2003	12/11/2003	6/26/2003	9/25/2003	12/10/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)									
Volatiles [3] (µg/L)											
Ethylbenzene	30	300	1	--	--	--	--	--	--	--	--
m&p-Xylene	NC	NC	--	--	0.4 J	--	--	--	--	--	--
o-Xylene	NC	NC	--	--	--	--	--	--	--	--	--
Total Xylenes	20	200	--	--	--	--	--	--	--	--	--
PAHs [4] (µg/L)											
1-Methylnaphthalene	20	200	7.3	--	17	--	--	--	--	--	--
2-Methylnaphthalene	**20**	200	20	0.11 J	**56**	--	--	--	--	--	--
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	--	16	--	--	--	--	--	--
Phenanthrene	210	2,100	--	--	--	--	--	--	--	0.077 J	--
Pyrene	210	2,100	--	--	--	--	--	--	--	0.22	--
TRPH [5] (µg/L)	5000	50,000	950	--	--	--	--	--	--	--	--

See notes at end of table

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

Sample Designation			BRN-1120-MW28-03			BRN-1120-MW29-03			BRN-1120-MW32-03		
Sample Location			MW-28			MW-29			MW-32		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/25/2003	12/10/2003	NA	9/25/2003	12/10/2003	6/26/2003	NA	NA
	GCTL[1] (µg/L)	NADC[2] (µg/L)									
Volatiles [3] (µg/L)											
Ethylbenzene	30	300	--	--	--	NS	--	--	--	NS	NS
m&p-Xylene	NC	NC	--	--	--	NS	--	--	--	NS	NS
o-Xylene	NC	NC	--	--	--	NS	--	--	--	NS	NS
Total Xylenes	20	200	--	--	--	NS	--	--	--	NS	NS
PAHs [4] (µg/L)											
1-Methylnaphthalene	20	200	--	--	--	NS	--	--	--	NS	NS
2-Methylnaphthalene	20	200	--	--	--	NS	--	1.2	--	NS	NS
Acenaphthene	20	200	--	--	--	NS	--	--	--	NS	NS
Benzo(a)Anthracene	0.2	20	--	--	--	NS	--	--	--	NS	NS
Benzo(k)Fluoranthene	0.2	20	--	--	--	NS	--	--	--	NS	NS
Chrysene	4.8	480	--	--	--	NS	--	--	--	NS	NS
Fluoranthene	280	2,800	--	--	--	NS	--	--	--	NS	NS
Fluorene	280	2,800	--	--	--	NS	--	0.11 J	--	NS	NS
Naphthalene	20	200	--	--	--	NS	--	0.12 J	--	NS	NS
Phenanthrene	210	2,100	--	--	--	NS	--	--	--	NS	NS
Pyrene	210	2,100	--	--	--	NS	--	--	--	NS	NS
TRPH [6] (µg/L)	5000	50,000	--	--	--	NS	--	--	--	NS	NS

See notes at end of table

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

Sample Designation			BRN-1120-DMW35-03			BRN-1120-FEQ-02	BRN-1120-RB121003-03	TB-092403	TB-092503-1,2	TB-092603	TB 121003	TB-121103
Sample Location			DMW-35			Rinsate	Rinsate	QA/QC	QA/QC	QA/QC	QA/QC	QA/QC
Sampling Event			Baseline	1Q	2Q	Rinsate	Rinsate	QA/QC	QA/QC	QA/QC	QA/QC	QA/QC
Collect Date			6/26/2003	9/25/2003	12/10/2003	9/24/2003	12/10/2003	9/24/2003	9/25/2003	9/26/2003	12/10/2003	12/11/2003
	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	NA	NA
2-Methylnaphthalene	20	200	--	--	--	--	--	NA	NA	NA	NA	NA
Acenaphthene	20	200	--	--	--	--	--	NA	NA	NA	NA	NA
Benzo(a)Anthracene	0.2	20	--	--	--	--	--	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	0.2	20	--	--	--	--	--	NA	NA	NA	NA	NA
Chrysene	4.8	480	--	--	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	280	2,800	--	--	--	--	--	NA	NA	NA	NA	NA
Fluorene	280	2,800	--	--	--	--	--	NA	NA	NA	NA	NA
Naphthalene	20	200	--	--	--	--	--	NA	NA	NA	NA	NA
Phenanthrene	210	2,100	--	--	--	0.11 J	0.078 J	NA	NA	NA	NA	NA
Pyrene	210	2,100	--	--	--	--	--	NA	NA	NA	NA	NA
TRPH [5] (µg/L)	5000	50,000	--	--	--	--	--	NA	NA	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, FAC
[2] Natural Attenuation Default Concentrations as provided in Chapter 62-770, FAC.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)

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

FL-PRO = Florida Petroleum Range Organics
TOC = Total Organic Carbon
TB = Trip Blank

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

Sample Designation			BRN-1120-MW01-03			BRN-1120-MW02-03			BRN-1120-MW04-03		
Sample Location			MW-1			MW-2			MW-4		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	6/24/2003	9/25/2003	12/10/2003	6/24/2003	9/25/2003	12/10/2003
	Preferred Range	Units									
Field Parameters											
Dissolved Oxygen	> 5 mg/L	mg/L	1.06	4	5.0	3.0	12	1.0	0.2	2	0.8
Carbon Dioxide	> 2X	mg/L	40	40	11	33	25	14.5	70	70	14
Alkalinity	> 2X	mg/L	70	80	40	16	45	50	25	40	25
Ferrous Iron	> 1 mg/L	mg/L	1.4	--	0.06	1.2	--	0.8	6.8	0.6	2.8
Hydrogen Sulfide	NA	mg/L	1	--	--	0.3	--	--	0.2	0.7	0.08
Temperature	> 20 °C	°C	23.96	25.97	22.5	22.83	24.68	22.39	23.25	24.97	23.06
pH	5 < pH < 9	SU	6.62	6.43	7.06	5.20	6.05	7.26	5.41	5.51	6.55
Oxidation-Reduction Potential	<50mV or <-100mV	mV	121.0	121	45	22.3	10	-165	2.6	27	-179
Laboratory Parameters											
Sulfate	NA	µg/L	--	--	4.2	3	--	0.53 J	3.4	7	3.5
Total Organic Carbon (TOC)	NA	µg/L	--	--	3.2	7.2	--	8	13	6.2	4.6

See notes at end of table.

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

Sample Designation			BRN-1120-MW5R-03			BRN-1120-MW7-03			BRN-1120-MW8-02		
Sample Location			MW-5R			MW-7			MW-8		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/24/2003	9/25/2003	12/10/2003	6/25/2003	9/26/2003	12/11/2003	NA	9/25/2003	NA
	Preferred Range	Units									
Field Parameters											
Dissolved Oxygen	> 5 mg/L	mg/L	4	2	0.9	4-5	5	5	NS	3.0	NS
Carbon Dioxide	> 2X	mg/L	25	65	20	16	25	14	NS	35	NS
Alkalinity	> 2X	mg/L	<10	75	20	<10	5	< 10	NS	<5	NS
Ferrous Iron	> 1 mg/L	mg/L	1.4	0.2	2.6	--	--	1.4	NS	0.6	NS
Hydrogen Sulfide	NA	mg/L	1	--	--	--	--	--	NS	--	NS
Temperature	> 20 °C	°C	23.48	25.84	22.73	22.48	24.25	22.61	NS	24.04	NS
pH	5 < pH < 9	SU	5.33	5.76	6.61	5.29	4.34	5.51	NS	3.84	NS
Oxidation-Reduction Potential	<50mV or <-100mV	mV	129	53	-89	169.5	339	139	NS	108	NS
Laboratory Parameters											
Sulfate	NA	µg/L	8.2	--	6.2	3.8	3.3	4	NS	10	NS
Total Organic Carbon (TOC)	NA	µg/L	--	9.9	6.2	--	--	1.1	NS	--	NS

See notes at end of table.

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

Sample Designation			BRN-1120-MW13R			BRN-1120-MW14R			BRN-1120-MW16R		
Sample Location			MW-13R			MW-14R			MW-16R		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/25/2003	9/25/2003	12/10/2003	6/25/2003	9/25/2003	12/10/2003	6/25/2003	9/24/2003	12/10/2003
	Preferred Range	Units									
Field Parameters											
Dissolved Oxygen	> 5 mg/L	mg/L	4.0	6	4.0	--	2.0	0.7	0.43	6	2.5
Carbon Dioxide	> 2X	mg/L	18	30	12.5	70	65	18	35	25	17
Alkalinity	> 2X	mg/L	<10	35	< 10	35	60	35	40	40	18
Ferrous Iron	> 1 mg/L	mg/L	--	--	0.1	6.0	5.0	1.4	2.4	0.8	2.0
Hydrogen Sulfide	NA	mg/L	--	--	--	0.5	--	0.05	--	--	--
Temperature	> 20 °C	°C	23.18	23.43	22.17	22.78	23.75	23.01	23.44	23.33	23.01
pH	5 < pH < 9	SU	4.39	5.92	5.87	6.28	5.42	6.88	5.38	4.17	6.46
Oxidation-Reduction Potential	<50mV or <-100mV	mV	88.2	165	73	-67.6	4	-121	61.1	280	-43
Laboratory Parameters											
Sulfate	NA	µg/L	7.2	7.5	8.7	--	--	--	7.4	3.9	1
Total Organic Carbon (TOC)	NA	µg/L	--	--	0.66 J	5.2	6.6	4.9	--	--	1.3

See notes at end of table.

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

Sample Designation			BRN-1120-MW17-03			BRN-1120-MW18-03			BRN-1120-MW24-03		
Sample Location			MW-17			MW-18			MW-24		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/26/2003	12/11/2003	6/26/2003	9/26/2003	12/11/2003	6/25/2003	9/24/2003	12/10/2003
	Preferred Range	Units									
Field Parameters											
Dissolved Oxygen	> 5 mg/L	mg/L	1.0	4.0	0.5	0.05	4	0.05	1	5.5	1.5
Carbon Dioxide	> 2X	mg/L	28	30	12	45	30	25	90	20	30
Alkalinity	> 2X	mg/L	40	60	< 10	10	5	< 10	18	15	22.5
Ferrous Iron	> 1 mg/L	mg/L	3.2	--	2.8	5.7	--	3.8	5	--	2.2
Hydrogen Sulfide	NA	mg/L	--	--	0.18	5.0	--	0.39	--	--	--
Temperature	> 20 °C	°C	22.89	23.22	21.51	22.35	23.52	22.06	22.27	23.63	22.78
pH	5 < pH < 9	SU	4.29	3.79	5.77	5.15	4.79	5.86	5.16	3.67	6.58
Oxidation-Reduction Potential	<50mV or <-100mV	mV	7.6	342	-163	-59.9	281	-192	72.0	336	-71
Laboratory Parameters											
Sulfate	NA	µg/L	5.8	5.4	6.5	25	9.8	14	3.5	9	3.1
Total Organic Carbon (TOC)	NA	µg/L	--	--	2.1	6.6	--	3.7	--	1	3.1

See notes at end of table.

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

Sample Designation			BRN-1120-MW25-03			BRN-1120-MW26-03			BRN-1120-MW27-03		
Sample Location			MW-25			MW-26			MW-27		
Sampling Event			Baseline	1Q	2Q	Baseline	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/25/2003	12/11/2003	6/26/2003	9/24/2003	12/11/2003	6/26/2003	9/25/2003	12/10/2003
	Preferred Range	Units									
Field Parameters											
Dissolved Oxygen	> 5 mg/L	mg/L	--	5.0	1.0	4	2.0	1.0	2	5.5	2.0
Carbon Dioxide	> 2X	mg/L	60	40	16	30	35	12	40	35	12
Alkalinity	> 2X	mg/L	18	40	12	<10	15	< 10	--	40	12
Ferrous Iron	> 1 mg/L	mg/L	2.8	1.4	2.4	1.6	NR	2.0	0.6	0.40	2.2
Hydrogen Sulfide	NA	mg/L	0.5	--	0.05	0.1	--	0.13	--	--	--
Temperature	> 20 °C	°C	23.15	24.42	22.99	22.98	24.84	22.54	21.94	22.53	22.17
pH	5 < pH < 9	SU	6.04	5.25	6.52	3.67	5.77	5.57	5.28	4.88	6.05
Oxidation-Reduction Potential	<50mV or <-100mV	mV	-43.5	173	-100	48.6	85	23	137.3	235	-45
Laboratory Parameters											
Sulfate	NA	µg/L	3	5	4.7	6	3.5	7.2	11	5.5	10
Total Organic Carbon (TOC)	NA	µg/L	--	--	4.2	--	--	1.4	--	--	0.91 J

See notes at end of table.

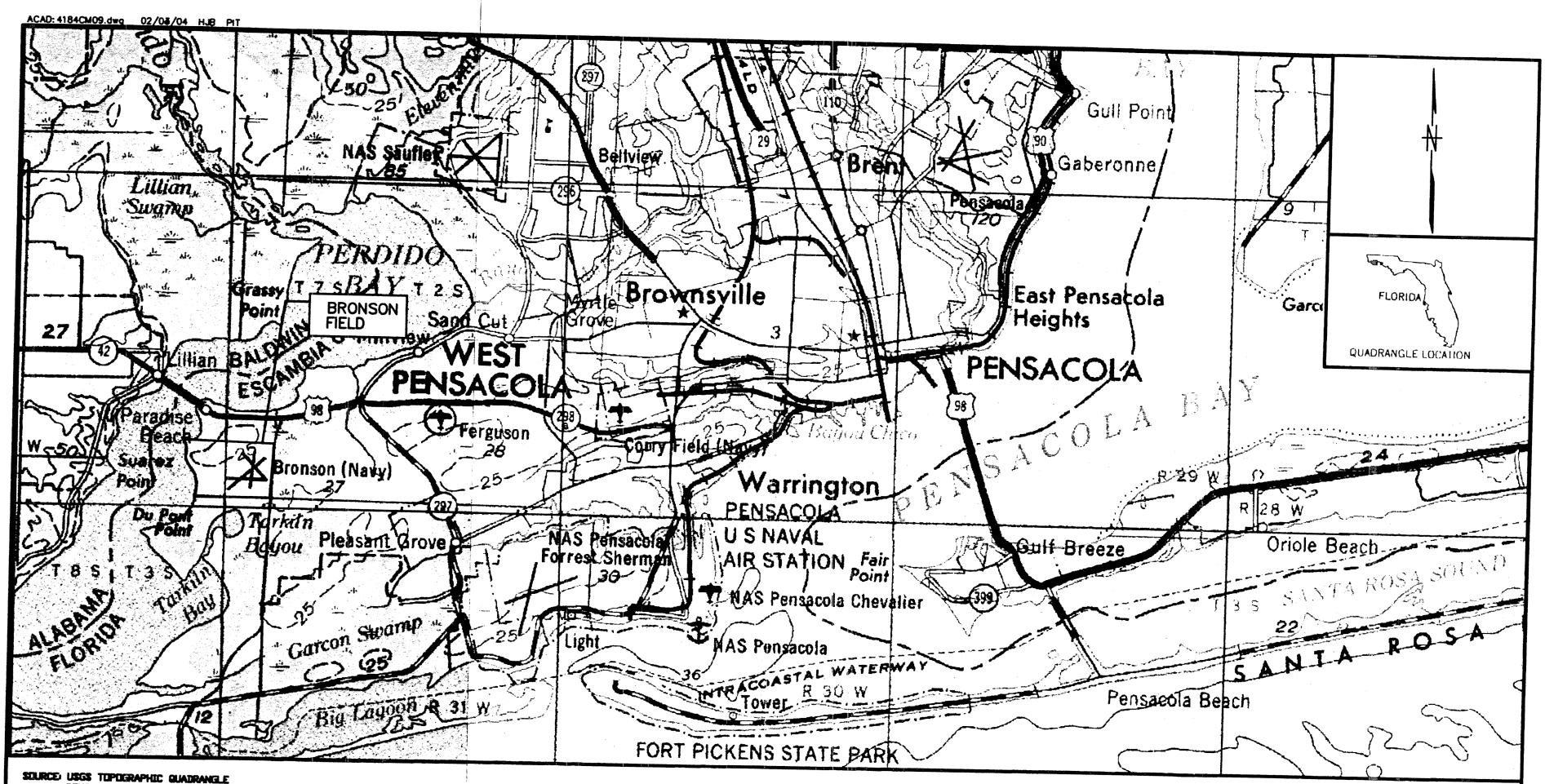
TABLE 3
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample Designation			BRN-1120-MW28-03			BRN-1120-MW29-02		BRN-1120-DMW35-03		
Sample Location			MW-28			MW-29		DMW-35		
Sampling Event			Baseline	1Q	2Q	1Q	2Q	Baseline	1Q	2Q
Collect Date			6/26/2003	9/25/2003	12/10/2003	9/25/2003	12/10/2003	6/26/2003	9/25/2003	12/10/2003
	Preferred Range	Units								
Field Parameters										
Dissolved Oxygen	> 5 mg/L	mg/L	2	3.0	2.0	5.0	3.0	5.5	5	5
Carbon Dioxide	> 2X	mg/L	40	30	13	55	14.5	40	65	16
Alkalinity	> 2X	mg/L	38	40	< 10	40	< 10	<10	60	10
Ferrous Iron	> 1 mg/L	mg/L	3.1	0.40	2.8	0.20	2.0	--	--	--
Hydrogen Sulfide	NA	mg/L	0.1	--	0.11	--	--	--	0.03	--
Temperature	> 20 °C	°C	22.38	23.42	23.01	22.93	22.82	23.26	23.19	22.66
pH	5 < pH < 9	SU	5.18	3.79	5.41	5.06	5.75	4.44	3.77	4.45
Oxidation-Reduction Potential	<50mV or <-100mV	mV	-2.7	208	-20	180	50	260.7	372	323
Laboratory Parameters										
Sulfate	NA	µg/L	3.6	5	7.8	8.3	6.5	31	16	11
Total Organic Carbon (TOC)	NA	µg/L	--	--	1.2	--	1.1	--	--	0.37 J

Notes:
2X = two times background concentration
mg/L = milligrams per liter
NA = not applicable
°C = Degrees Celsius
SU = Standard pH Units
mV = Millivolts
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit

FIGURES

ACAD: 4184CM09.dwg 02/06/04 HJB PIT



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

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

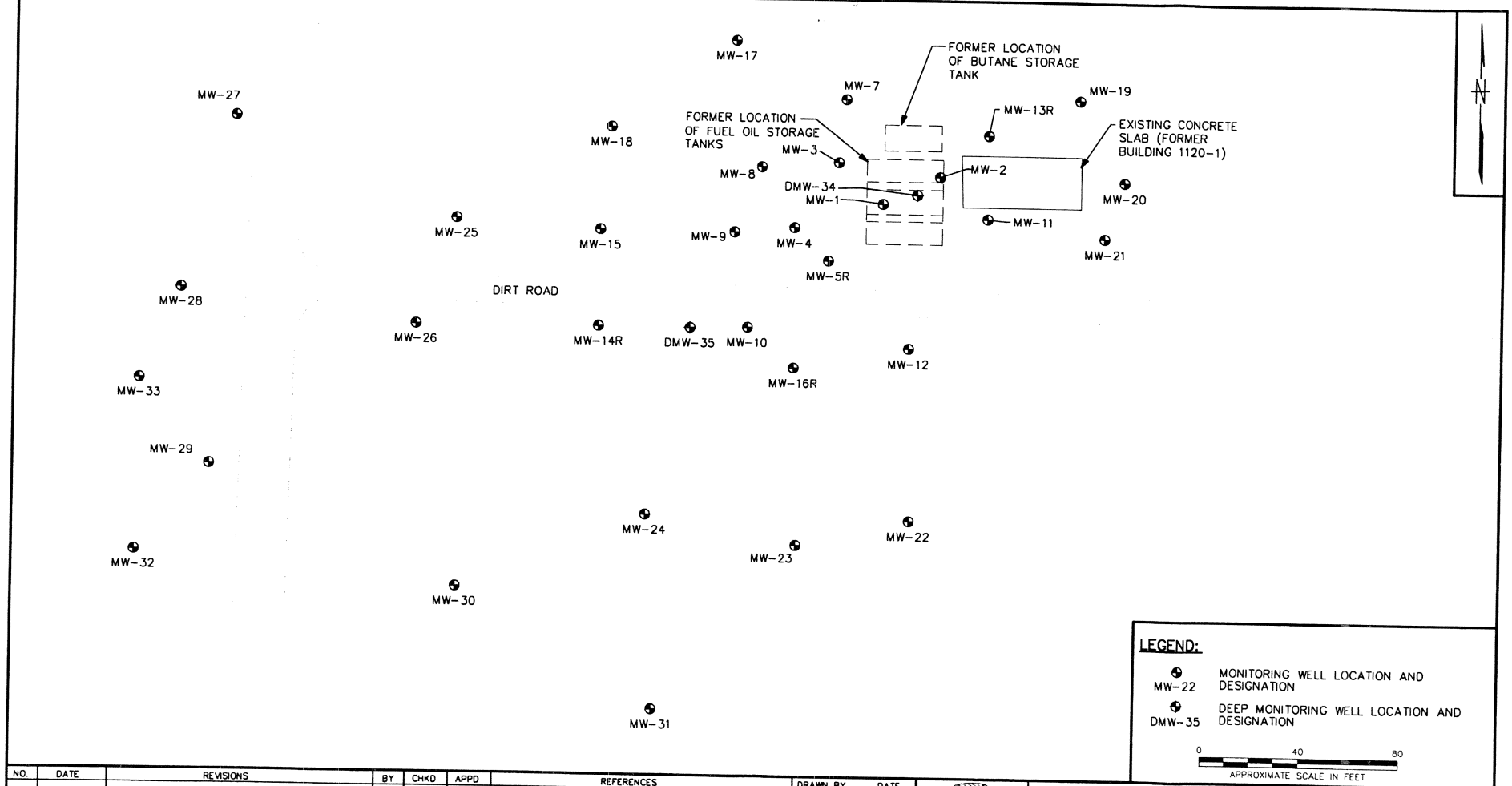
DRAWN BY HJB DATE 2/3/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SITE LOCATION MAP
UST SITE 1120
SECOND 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 CABB NO. SBIV_BHJDVG - REV 8 - 1/20/98

ACAD: 4184GP08.dwg 02/10/04 HJB PIT



LEGEND:

MW-22 — MONITORING WELL LOCATION AND DESIGNATION

DMW-35 — DEEP MONITORING WELL LOCATION AND DESIGNATION

0 40 80

APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY HJB DATE 2/3/04

CHECKED BY DATE

COST/SCHED-AREA

SCALE AS NOTED

DEPARTMENT OF THE NAVY — NAVAL AIR FACILITIES ENGINEERING COMMAND

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

CONTRACT NO. 4184

APPROVED BY DATE

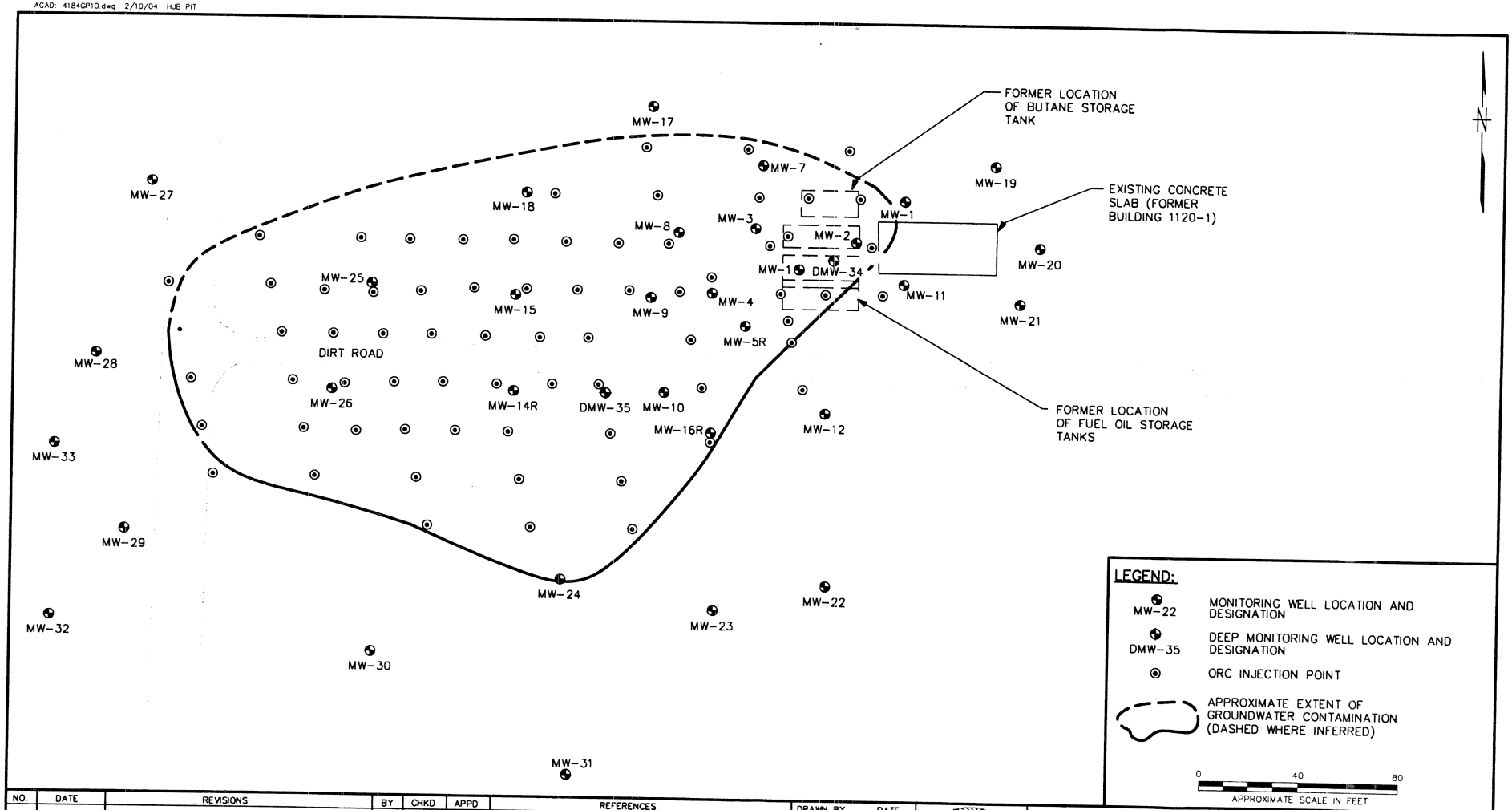
APPROVED BY DATE

DRAWING NO. FIGURE 2

REV. 0

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

ACAD: 4184GP10.dwg 2/10/04 HJB PIT



LEGEND:

MW-22	MONITORING WELL LOCATION AND DESIGNATION
DMW-35	DEEP MONITORING WELL LOCATION AND DESIGNATION
	ORC INJECTION POINT
	APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION (DASHED WHERE INFERRED)

0 40 80
APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

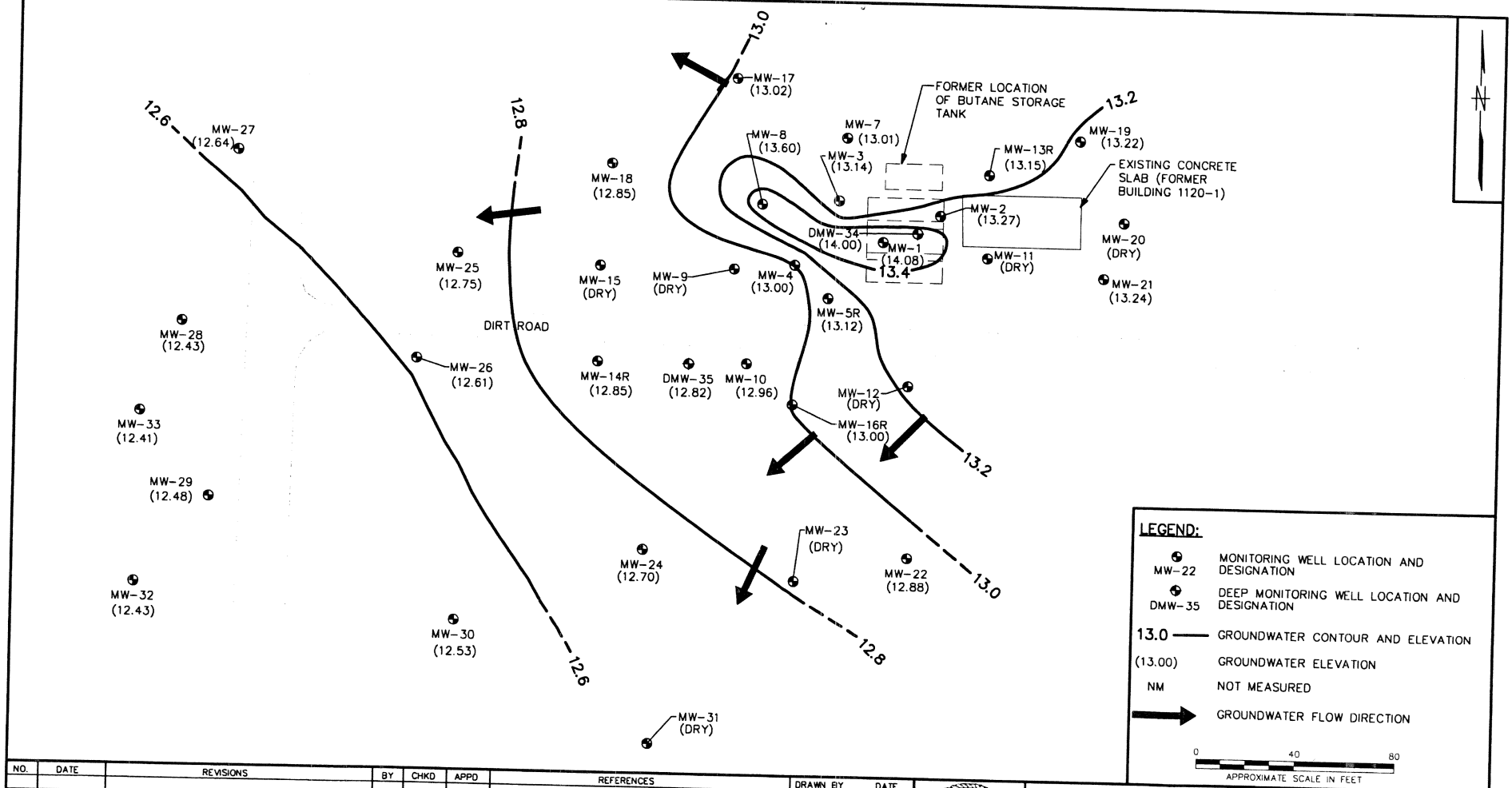
DRAWN BY HJB DATE 2/3/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

ORC INJECTION POINT LOCATIONS
UST SITE 1120
SECOND 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. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 4184GP09.dwg 02/11/04 HJB PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

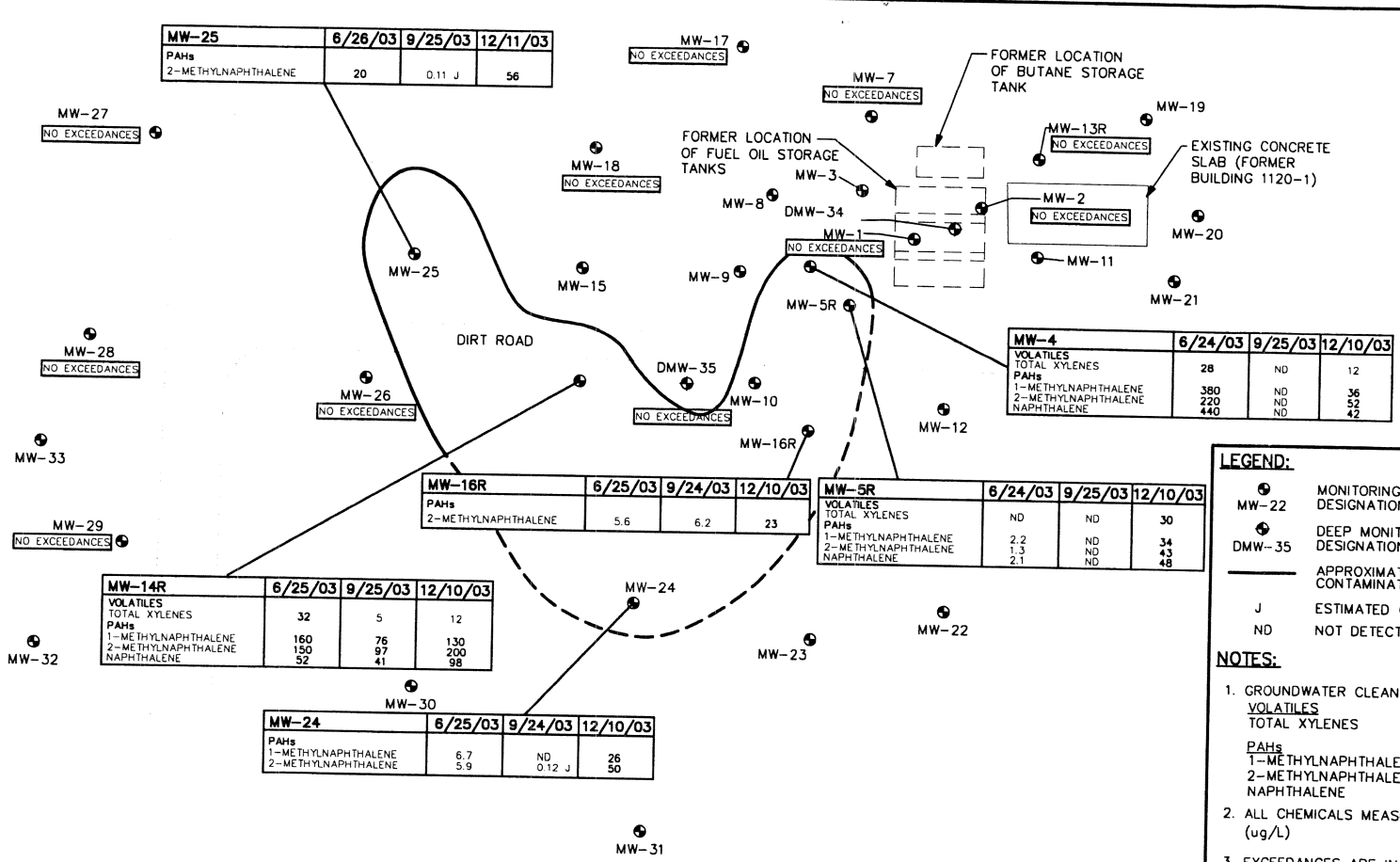
DRAWN BY HJB DATE 2/3/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER ELEVATIONS
DECEMBER 8, 2003
UST SITE 1120
SECOND 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_BH.DWG - REV 0 - 1/20/98

ACAD: 4184GT05.dwg 02/11/04 HJB PIT



MW-25	6/26/03	9/25/03	12/11/03
PAHs			
2-METHYLNAPHTHALENE	20	0.11 J	56

MW-4	6/24/03	9/25/03	12/10/03
VOLATILES			
TOTAL XYLENES	28	ND	12
PAHs			
1-METHYLNAPHTHALENE	380	ND	36
2-METHYLNAPHTHALENE	220	ND	52
NAPHTHALENE	440	ND	42

MW-16R	6/25/03	9/24/03	12/10/03
PAHs			
2-METHYLNAPHTHALENE	5.6	6.2	23

MW-5R	6/24/03	9/25/03	12/10/03
VOLATILES			
TOTAL XYLENES	ND	ND	30
PAHs			
1-METHYLNAPHTHALENE	2.2	ND	34
2-METHYLNAPHTHALENE	1.3	ND	43
NAPHTHALENE	2.1	ND	48

MW-14R	6/25/03	9/25/03	12/10/03
VOLATILES			
TOTAL XYLENES	32	5	12
PAHs			
1-METHYLNAPHTHALENE	160	76	130
2-METHYLNAPHTHALENE	150	97	200
NAPHTHALENE	52	41	98

MW-24	6/25/03	9/24/03	12/10/03
PAHs			
1-METHYLNAPHTHALENE	6.7	ND	26
2-METHYLNAPHTHALENE	5.9	0.12 J	50

LEGEND:

MW-22	MONITORING WELL LOCATION AND DESIGNATION
DMW-35	DEEP MONITORING WELL LOCATION AND DESIGNATION
———	APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION (DASHED WHERE INFERRED)
J	ESTIMATED CONCENTRATIONS
ND	NOT DETECTED

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 HJB DATE 2/3/04
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

DEPARTMENT OF THE NAVY SOUTHERN DIV FACILITIES ENGINEERING COMD

GROUNDWATER EXCEEDANCES
UST SITE 1120
SECOND 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 - 1/20/98

ATTACHMENT A

FIELD DATA FORMS

Tetra Tech NUS, Inc.

Internal Correspondence

TO: Mr. Gerald Walker

FROM: Michael T. Akers

DATE: January 23, 2004

CC: File

SUBJECT: Data Validation – VOC, PAH, TRPH, TOC, Sulfate
CTO302 – NAS Pensacola / OLF Bronson
SDG 302-5

SAMPLES: 9 / Aqueous / VOC / PAH / TRPH / TOC / Sulfate

BRN-1120-MW13R-03
BRN-1120-MW24-03
BRN-1120-MW29-03
BRN-1120-MW14R-03
BRN-1120-MW27-03
BRN-1120-MW35-03
BRN-1120-MW16R-03
BRN-1120-MW28-03
BRN-1120-RB121003-03

11 / Aqueous / PAH / TOC / Sulfate

NASP-17-MW01-03
NASP-17-MW04-03
NASP-17-MW09-03
PEN-681/682-MW2S-03
NASP-17-MW02-03
NASP-17-MW05-03
NASP-17-MW11-03
PEN-681/682-TW4-03
NASP-17-MW03-03
NASP-17-MW07-03
PEN-681/682-MW1S-03

OVERVIEW

The sample set for CTO 302, SDG F302-5, Naval Air Station (NAS) Pensacola and Outlying Landing Field (OLF) Bronson, Pensacola, Florida consists of twenty (20) aqueous environmental samples. The environmental samples from OLF Bronson were analyzed for Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), Total Organic Carbon (TOC), and Sulfate. The environmental samples from NAS Pensacola were analyzed PAHs, TOC, and Sulfate

The samples were collected by Tetra Tech NUS on December 9th and 10th, 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), SW-846 8270 SIM (PAHs), FDEP FL-PRO (TRPH), USEPA 415.1 (TOC) and USEPA 375.4 (Sulfate) 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 control criteria were met for this fraction.

PAH Fraction

- All quality control criteria were met for this fraction.

TRPH Fraction

- *Laboratory Blank Analysis*

  Affected samples: BRN-1120-MW13R-03, BRN-1120-MW14R-03, BRN-1120-MW16R-03, BRN-1120-MW24-03, BRN-1120-MW27-03, BRN-1120-MW28-03, BRN-1120-MW35-03, BRN-1120-RB121003-03

Parameter	Maximum Concentration (µg/L)	Action Level (µg/L)
TRPH	590	2950

The action level is set at 5x the maximum concentration found in the associated blanks. Any detections between the IDL and the AL are qualified "U" due to blank contamination.

- All other control criteria were met for this fraction.

Miscellaneous (TOC and Sulfate) Fraction

- All quality control criteria were met for this fraction.

Executive Summary

Laboratory performance: TRPH was qualified as non-detected 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 (February, 1996), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

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

Michael T. Akers

Project Chemist
Tetra Tech NUS, Inc.

ROJ_NO: 4184

. 3025 MEDIA: WATER DATA FRACTION: OV

nple	BRN-1120-MW13R-03	nsample	BRN-1120-MW14R-03	nsample	BRN-1120-MW16R-03
ɔ_date	12/10/2003	samp_date	12/10/2003	samp_date	12/10/2003
d	WT3130-9	lab_id	WT3130-8	lab_id	WT3130-6
ype	NM	qc_type	NM	qc_type	NM
	UG/L	units	UG/L	units	UG/L
Solids	100.0	Pct_Solids	100.0	Pct_Solids	100.0
_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ZENE	1	U	U	
YLBENZENE	1	U	U	
-XYLENES	2	U	U	
HYL TERT-BUTYL ETHER	2	U	U	
LENE	1	U	U	
JENE	1	U	U	
AL XYLENES	3	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	9			
M+P-XYLENES	12			
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	12			

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: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW24-03
samp_date	12/10/2003
lab_id	WT3130-5
qc_type	NM
units	UG/L
Pct_Solids	100.0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ENZENE	1	U	U	
THYLBENZENE	1	U	U	
+P-XYLENES	2	U	U	
ETHYL TERT-BUTYL ETHER	2	U	U	
XYLENE	1	U	U	
OLUENE	1	U	U	
TAL XYLENES	3	U	U	

nsample	BRN-1120-MW27-03
samp_date	12/10/2003
lab_id	WT3130-1
qc_type	NM
units	UG/L
Pct_Solids	100.0
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-MW28-03
samp_date	12/10/2003
lab_id	WT3130-2
qc_type	NM
units	UG/L
Pct_Solids	100.0
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	

ROJ_NO: 4184

G: 3025 MEDIA: WATER DATA FRACTION: OV

mple	BRN-1120-MW29-03	nsample	BRN-1120-MW35-03	nsample	BRN-1120-RB121003-03
ip_date	12/10/2003	samp_date	12/10/2003	samp_date	12/10/2003
id	WT3130-4	lab_id	WT3130-7	lab_id	WT3130-3
type	NM	qc_type	NM	qc_type	NM
s	UG/L	units	UG/L	units	UG/L
Solids	100.0	Pct_Solids	100.0	Pct_Solids	100.0
P_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ZENE	1	U	U	
YLBENZENE	1	U	U	
-XYLENES	2	U	U	
HYL TERT-BUTYL ETHER	2	U	U	
YLENE	1	U	U	
UENE	1	U	U	
AL XYLENES	3	U	U	

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	

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: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW13R-03
samp_date	12/10/2003
lab_id	WT3130-9RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
-METHYLNAPHTHALENE	0.2	U	U	
-METHYLNAPHTHALENE	0.2	U	U	
CENAPHTHENE	0.2	U	U	
CENAPHTHYLENE	0.2	U	U	
NTHRACENE	0.2	U	U	
ENZO(A)ANTHRACENE	0.2	U	U	
ENZO(A)PYRENE	0.2	U	U	
ENZO(B)FLUORANTHENE	0.2	U	U	
ENZO(G,H,I)PERYLENE	0.2	U	U	
ENZO(K)FLUORANTHENE	0.2	U	U	
HRYSENE	0.2	U	U	
BENZO(A,H)ANTHRACENE	0.2	U	U	
UORANTHENE	0.2	U	U	
JORENE	0.2	U	U	
DENO(1,2,3-CD)PYRENE	0.2	U	U	
PHTHALENE	0.2	U	U	
ENANTHRENE	0.2	U	U	
RENE	0.2	U	U	

nsample	BRN-1120-MW14R-03
samp_date	12/10/2003
lab_id	WT3130-8DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	130			
2-METHYLNAPHTHALENE	200			
ACENAPHTHENE	19	U	U	
ACENAPHTHYLENE	19	U	U	
ANTHRACENE	19	U	U	
BENZO(A)ANTHRACENE	19	U	U	
BENZO(A)PYRENE	19	U	U	
BENZO(B)FLUORANTHENE	19	U	U	
BENZO(G,H,I)PERYLENE	19	U	U	
BENZO(K)FLUORANTHENE	19	U	U	
CHRYSENE	19	U	U	
DIBENZO(A,H)ANTHRACENE	19	U	U	
FLUORANTHENE	19	U	U	
FLUORENE	19	U	U	
INDENO(1,2,3-CD)PYRENE	19	U	U	
NAPHTHALENE	98			
PHENANTHRENE	19	U	U	
PYRENE	19	U	U	

nsample	BRN-1120-MW16R-03
samp_date	12/10/2003
lab_id	WT3130-6DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	13			
2-METHYLNAPHTHALENE	23			
ACENAPHTHENE	0.98	J	J	
ACENAPHTHYLENE	1.9	U	U	
ANTHRACENE	1.9	U	U	
BENZO(A)ANTHRACENE	1.9	U	U	
BENZO(A)PYRENE	1.9	U	U	
BENZO(B)FLUORANTHENE	1.9	U	U	
BENZO(G,H,I)PERYLENE	1.9	U	U	
BENZO(K)FLUORANTHENE	1.9	U	U	
CHRYSENE	1.9	U	U	
DIBENZO(A,H)ANTHRACENE	1.9	U	U	
FLUORANTHENE	1.9	U	U	
FLUORENE	1.1	J	J	
INDENO(1,2,3-CD)PYRENE	1.9	U	U	
NAPHTHALENE	1.9	U	U	
PHENANTHRENE	1.9	U	U	
PYRENE	1.9	U	U	

ROJ_NO: 4184

G: 3025 MEDIA: WATER DATA FRACTION: PAH

mple	BRN-1120-MW24-03	nsample	BRN-1120-MW27-03	nsample	BRN-1120-MW28-03
p_date	12/10/2003	samp_date	12/10/2003	samp_date	12/10/2003
id	WT3130-5DL3	lab_id	WT3130-1	lab_id	WT3130-2
ype	NM	qc_type	NM	qc_type	NM
s	UG/L	units	UG/L	units	UG/L
Solids		Pct_Solids		Pct_Solids	
_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
THYLNAPHTHALENE	26			
THYLNAPHTHALENE	50			
NAPHTHENE	7.5	U	U	
NAPHTHYLENE	7.5	U	U	
HRACENE	7.5	U	U	
ZO(A)ANTHRACENE	7.5	U	U	
ZO(A)PYRENE	7.5	U	U	
ZO(B)FLUORANTHENE	7.5	U	U	
ZO(G,H,I)PERYLENE	7.5	U	U	
ZO(K)FLUORANTHENE	7.5	U	U	
YSENE	7.5	U	U	
NZO(A,H)ANTHRACENE	7.5	U	U	
ORANTHENE	7.5	U	U	
ORENE	2.9	J	J	
NO(1,2,3-CD)PYRENE	7.5	U	U	
HTHALENE	7.5	U	U	
NANTHRENE	7.5	U	U	
ENE	7.5	U	U	

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	

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	

PROJ_NO: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW29-03
samp_date	12/10/2003
lab_id	WT3130-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	1.2			
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	0.11	J	J	
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.12	J	J	
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

nsample	BRN-1120-MW35-03
samp_date	12/10/2003
lab_id	WT3130-7
qc_type	NM
units	UG/L
Pct_Solids	
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	BRN-1120-RB121003-03
samp_date	12/10/2003
lab_id	WT3130-3
qc_type	NM
units	UG/L
Pct_Solids	
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	0.078	J	J	
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

ROJ_NO: 4184

G: 3025 MEDIA: WATER DATA FRACTION: PET

nple	BRN-1120-MW13R-03	nsample	BRN-1120-MW14R-03	nsample	BRN-1120-MW16R-03
p_date	12/10/2003	samp_date	12/10/2003	samp_date	12/10/2003
id	WT3130-9	lab_id	WT3130-8	lab_id	WT3130-6
ype	NM	qc_type	NM	qc_type	NM
s	UG/L	units	UG/L	units	UG/L
Solids		Pct_Solids		Pct_Solids	
_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AL PETROLEUM HYDROCARBONS	280	JB	~~JB~~ J	U

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	4000	~~B~~	~~B~~	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1100	B	~~UB~~	4

PROJ_NO: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: PET

sample	BRN-1120-MW24-03
amp_date	12/10/2003
ıb_id	WT3130-5
c_type	NM
ıits	UG/L
ct_Solids	
UP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TAL PETROLEUM HYDROCARBONS	2200	~~B~~	~~B~~ U	A

nsample	BRN-1120-MW27-03
samp_date	12/10/2003
lab_id	WT3130-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	330	JB	~~JB~~ U	A

nsample	BRN-1120-MW28-03
samp_date	12/10/2003
lab_id	WT3130-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	340	JB	~~JB~~ U	A

OJ_NO: 4184

: 3025 MEDIA: WATER DATA FRACTION: PET

ple	BRN-1120-MW29-03
_date	12/10/2003
l	WT3130-4
pe	NM
	UG/L
Solids	
OF:	

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

nsample	BRN-1120-MW35-03
samp_date	12/10/2003
lab_id	WT3130-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	.

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	350	JB	~~JB~~ U	~~A~~

nsample	BRN-1120-RB121003-03
samp_date	12/10/2003
lab_id	WT3130-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	520	B	~~B~~ U	~~A~~

PROJ_NO: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: MISC

sample BRN-1120-MW13R-03
amp_date 12/10/2003
ab_id WT3130-9
c_type NM
ct_Solids
UP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ULFATE	MG/L	8.7			
OTAL ORGANIC CARBON	MG/L	0.66	J	J	

nsample BRN-1120-MW14R-03
samp_date 12/10/2003
lab_id WT3130-8
qc_type NM
Pct_Solids
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	4.9			

nsample BRN-1120-MW16R-03
samp_date 12/10/2003
lab_id WT3130-6
qc_type NM
Pct_Solids
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1			
TOTAL ORGANIC CARBON	MG/L	1.3			

OJ_NO: 4184

i: 3025 MEDIA: WATER DATA FRACTION: MISC

ıple	BRN-1120-MW24-03
›_date	12/10/2003
d	WT3130-5
ype	NM
Solids	
_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
FATE	MG/L	3.1			
AL ORGANIC CARBON	MG/L	3.1			

nsample	BRN-1120-MW27-03
samp_date	12/10/2003
lab_id	WT3130-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	10			
TOTAL ORGANIC CARBON	MG/L	0.91	J	J	

nsample	BRN-1120-MW28-03
samp_date	12/10/2003
lab_id	WT3130-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	7.8			
TOTAL ORGANIC CARBON	MG/L	1.2			

PROJ_NO: 4184

SDG: 3025 MEDIA: WATER DATA FRACTION: MISC

nsample BRN-1120-MW29-03
samp_date 12/10/2003
lab_id WT3130-4
qc_type NM
Pct_Solids
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	6.5			
TOTAL ORGANIC CARBON	MG/L	1.1			

nsample BRN-1120-MW35-03
samp_date 12/10/2003
lab_id WT3130-7
qc_type NM
Pct_Solids
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	11			
TOTAL ORGANIC CARBON	MG/L	0.37	J	J	

nsample BRN-1120-RB121003-03
samp_date 12/10/2003
lab_id WT3130-3
qc_type NM
Pct_Solids
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	0.46	J	J	

WT3130-WT5151

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 4305 | PAGE 1 OF 2

PROJECT NO: N4184

FACILITY: OLFB / NASP

SAMPLERS (SIGNATURE)

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 8503859899

FIELD OPERATIONS LEADER: Bill Olson

PHONE NUMBER: 8505102787

CARRIER/WAYBILL NUMBER

LABORATORY NAME AND CONTACT: Katahdin

ADDRESS: 340 County Rd No. 5

CITY, STATE: Westbrook ME 04092

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

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC 8260B	PAH 8310	TRPH FDEP FL-PRO	TOC HLS.1	SO4 300.0				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL	/	HCL	H_2SO_4	/				
12/10	0835	BRN-1120-MW27-03	MW27	—	—	GW	G	10	3	2	2	2	1				See WR N5967-WR406 for Compd Lists and CRDLs
12/10	1025	BRN-1120-MW28-03	MW28	—	—	GW	G	10	3	2	2	2	1				
12/10	0930	BRN-1120-RB121003-03	—	—	—	QC	G	10	3	2	2	2	1				
12/10	1115	BRN-1120-MW29-03	MW29	—	—	GW	G	10	3	2	2	2	1				
12/10	1210	BRN-1120-MW24-03	MW24	—	—	GW	G	10	3	2	2	2	1				
12/10	1305	BRN-1120-MW16R-03	MW16R	—	—	GW	G	10	3	2	2	2	1				
12/10	1350	BRN-1120-MW35-03	MW35	—	—	GW	G	10	3	2	2	2	1				
12/10	1505	BRN-1120-MW14R-03	MW14R	—	—	GW	G	10	3	2	2	2	1				
12/10	0840	BRN-1120-MW13R-03	MW13R	—	—	GW	G	10	3	2	2	2	1				
12/10	1010	BRN-1120-MW02-03	MW02	—	—	GW	G	10	3	2	2	2	1				
12/10	1325	BRN-1120-MW5R-03	MW5R	—	—	GW	G	10	3	2	2	2	1				
12/10	1400	BRN-1120-MW01-03	MW01	—	—	GW	G	10	3	2	2	2	1				
12/10	1505	BRN-1120-MW04-03	MW04	—	—	GW	G	10	3	2	2	2	1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	12/10/03	1800	1. RECEIVED BY	12/10/03	0720
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 4306

PAGE 2 OF 2

PROJECT NO: N4184

FACILITY: OLFB / NASP

SAMPLERS (SIGNATURE): TAN

PROJECT MANAGER: Berry Walker

PHONE NUMBER: 8503859899

FIELD OPERATIONS LEADER: Bill Olson

PHONE NUMBER: 8505102787

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: Katahdin

ADDRESS: 340 County Rd No. 5

CITY, STATE: Westbrook ME 04092

STANDARD TAT ☒

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

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC	PAH	TRPH	TOC	SO4			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P			
PRESERVATIVE USED									HCL							
TYPE OF ANALYSIS									8260	8310	FDEP ALRPO	415.1	300.0			
12/10	—	Trip Blank. 121003				QC	—	2	2	—						See WR N5967-WR406 for Compound Lists and CRDLs.

RELINQUISHED BY: TAN — DATE 12/10/03 — TIME 1800 — 1. RECEIVED BY: [signature]

RELINQUISHED BY — DATE — TIME — 2. RECEIVED BY: [signature] — DATE 12-11-03 — TIME 0820

RELINQUISHED BY — DATE — TIME — 3. RECEIVED BY — DATE — TIME

COMMENTS — DATE — TIME — DATE — TIME

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-1
Client ID: BRN-1120-MW27-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-2
Client ID: BRN-1120-MW28-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		100%				
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: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-3
Client ID: BRN-1120-RB121003-0
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-4
Client ID: BRN-1120-MW29-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		99%				

 Z9535.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-5
Client ID: BRN-1120-MW24-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-6
Client ID: BRN-1120-MW16R-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		100%				

 Z9537.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-7
Client ID: BRN-1120-MW35-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-9
Client ID: BRN-1120-MW13R-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		99%				

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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: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3130-8
Client ID: BRN-1120-MW14R-03
SDG: CTO302-5
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		9	1.0	1	1	0.2
	m+p-Xylenes		12	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)		12	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/07/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-1
Client ID: BRN-1120-MW27-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
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		84%				
81103-79-9	Fluorene-d10		76%				
1718-52-1	Pyrene-d10		98%				

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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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/07/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-2
Client ID: BRN-1120-MW28-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
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		88%				
81103-79-9	Fluorene-d10		79%				
1718-52-1	Pyrene-d10		113%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/07/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-3
Client ID: BRN-1120-RB121003-0
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.078	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		92%				
81103-79-9	Fluorene-d10		86%				
1718-52-1	Pyrene-d10		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/07/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-4
Client ID: BRN-1120-MW29-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.12	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene		1.2	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	J	0.11	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		92%				
81103-79-9	Fluorene-d10		89%				
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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/09/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-5DL3
Client ID: BRN-1120-MW24-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	7.5	40	0.20	7.5	1.9
91-57-6	2-Methylnaphthalene		50	40	0.20	7.5	3.0
90-12-0	1-Methylnaphthalene		26	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	2.9	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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/08/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-6DL
Client ID: BRN-1120-MW16R-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.9	10	0.20	1.9	0.47
91-57-6	2-Methylnaphthalene		23	10	0.20	1.9	0.75
90-12-0	1-Methylnaphthalene		13	10	0.20	1.9	0.75
208-96-8	Acenaphthylene	U	1.9	10	0.20	1.9	0.47
83-32-9	Acenaphthene	J	0.98	10	0.20	1.9	0.75
86-73-7	Fluorene	J	1.1	10	0.20	1.9	0.57
85-01-8	Phenanthrene	U	1.9	10	0.20	1.9	0.75
120-12-7	Anthracene	U	1.9	10	0.20	1.9	0.75
206-44-0	Fluoranthene	U	1.9	10	0.20	1.9	1.0
129-00-0	Pyrene	U	1.9	10	0.20	1.9	0.85
56-55-3	Benzo(a)anthracene	U	1.9	10	0.20	1.9	1.1
218-01-9	Chrysene	U	1.9	10	0.20	1.9	0.66
205-99-2	Benzo(b)fluoranthene	U	1.9	10	0.20	1.9	0.85
207-08-9	Benzo(k)fluoranthene	U	1.9	10	0.20	1.9	0.75
50-32-8	Benzo(a)pyrene	U	1.9	10	0.20	1.9	0.85
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.9	10	0.20	1.9	0.94
53-70-3	Dibenzo(a,h)anthracene	U	1.9	10	0.20	1.9	1.4
191-24-2	Benzo(g,h,i)perylene	U	1.9	10	0.20	1.9	0.75
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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/08/04
Report Date: 01/13/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-9RA
Client ID: BRN-1120-MW13R-03
SDG: CTO302-5
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
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	0.076
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	U	0.20	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	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	0.11
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	U	0.20	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		90%				
81103-79-9	Fluorene-d10		81%				
1718-52-1	Pyrene-d10		126%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-2
Client ID: BRN-1120-MW28-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	340	1.0	500	500	270
	n-Triacontane-D62		93%				
	O-Terphenyl		* 77%				

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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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-1
Client ID: BRN-1120-MW27-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	330	1.0	500	500	270
	n-Triacontane-D62		94%				
	O-Terphenyl		* 77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-3
Client ID: BRN-1120-RB121003-0
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	520	1.0	500	500	270
	n-Triacontane-D62		89%				
	O-Terphenyl		* 74%				

CTL2239.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-4
Client ID: BRN-1120-MW29-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
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		* 74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-5
Client ID: BRN-1120-MW24-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	2200	1.0	500	500	270
	n-Triacontane-D62		89%				
	O-Terphenyl		* 71%				

 CTL2244.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-6
Client ID: BRN-1120-MW16R-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	1100	1.0	500	500	270
	n-Triacontane-D62		87%				
	O-Terphenyl		* 69%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/06/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-7
Client ID: BRN-1120-MW35-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	350	1.0	500	500	270
	n-Triacontane-D62		95%				
	O-Terphenyl		* 79%				

 CTL2246.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/06/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-8
Client ID: BRN-1120-MW14R-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	4000	1.0	500	500	270
	n-Triacontane-D62		92%				
	O-Terphenyl		* 74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/06/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3130-9
Client ID: BRN-1120-MW13R-03
SDG: CTO302-5
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	280	1.0	500	500	270
	n-Triacontane-D62		88%				
	O-Terphenyl		* 74%				

 CTL2248.d

Katahdin
ANALYTICAL SERVICES

Cert N

Report of Analytical Results

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

Lab Sample ID: WT3130-1
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW27-03	AQ	10-DEC-03	11-DEC-0

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	10. mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.91 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

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Report of Analytical Results

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

Lab Sample ID: WT3130-2
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receiv
BRN-1120-MW28-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footno
Sulfate-Turbidimetric	7.8 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	1.2 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Report of Analytical Results

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

Lab Sample ID: WT3130-3
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-RB121003-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnote
Sulfate-Turbidimetric	U1.0 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.46 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Report of Analytical Results

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

Lab Sample ID: WT3130-4
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW29-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	6.5 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	1.1 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Report of Analytical Results

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

Lab Sample ID: WT3130-5
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW24-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	3.1 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	3.1 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Report of Analytical Results

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

Lab Sample ID: WT3130-6
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW16R-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnote
Sulfate-Turbidimetric	1.0 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	1.3 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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ANALYTICAL SERVICES

Cert No E87

Report of Analytical Results

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

Lab Sample ID: WT3130-7
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Recei
BRN-1120-MW35-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footn
Sulfate-Turbidimetric	11. mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.37 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Report of Analytical Results

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

Lab Sample ID: WT3130-8
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description

BRN-1120-MW14R-03

Matrix	Date Sampled	Date Receiv
AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	U1.0 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	4.9 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Cert No E876

Report of Analytical Results

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

Lab Sample ID: WT3130-9
Report Date: 06-JAN-04
Client PO: MSA-0402-N4113-05 N5967-
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-5

Sample Description	Matrix	Date Sampled	Date Receiv
BRN-1120-MW13R-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footno
Sulfate-Turbidimetric	8.7 mg/L	1	EPA 375.4	WG5290	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.66 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

Tetra Tech NUS, Inc.

Internal Correspondence

TO: Mr. Gerald Walker

DATE: January 23, 2004

FROM: Michael T. Akers

CC: File

SUBJECT: Data Validation – VOC, PAH, TRPH, TOC, Sulfate
CTO225 – NAS Pensacola / OLF Bronson
SDG 302-6

SAMPLES: 11 / Aqueous

BRN-1120-MW01-03	BRN-1120-MW02-03	BRN-1120-MW04-03
BRN-1120-MW07-03	BRN-1120-MW17-03	BRN-1120-MW18-03
BRN-1120-MW25-03	BRN-1120-MW26-03	BRN-1120-MW5R-03
TRIP BLANK-121003	TRIP BLANK-121103	

OVERVIEW

The sample set for CTO225, SDG F302-6, Outlying Landing Field Bronson, Pensacola, Florida consists of nine (9) aqueous environmental samples and two (2) trip blanks. The environmental samples were analyzed for Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), Total Organic Carbon (TOC), and Sulfate.

The samples were collected by Tetra Tech NUS on December 10th and 11th, 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), SW-846 8270 SIM (PAHs), FDEP FL-PRO (TRPH), USEPA 415.1 (TOC) and USEPA 375.4 (Sulfate) 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

- *Laboratory Blank Analysis*

  Affected samples: BRN-1120-MW25-03

Parameter	Maximum Concentration (µg/L)	Action Level (µg/L)
Ethylbenzene	0.20	1.0

The action level is set at 5x the maximum concentration found in the associated blanks. Any detections between the IDL and the AL are qualified "U" due to blank contamination.

- All other control criteria were met for this fraction.

PAH Fraction

- All quality control criteria were met for this fraction.

TRPH Fraction

- *Laboratory Blank Analysis*

  Affected samples: BRN-1120-MW01-03, BRN-1120-MW02-03, BRN-1120-MW04-03 BRN-1120-MW-17-03, BRN-1120-MW18-03, BRN-1120-MW25-03, BRN-1120-MW5R-03

Parameter	Maximum Concentration (µg/L)	Action Level (µg/L)
TRPH	590	2950

The action level is set at 5x the maximum concentration found in the associated blanks. Any detections between the IDL and the AL are qualified "U" due to blank contamination.

- All other control criteria were met for this fraction.

Miscellaneous (TOC and Sulfate) Fraction

- All quality control criteria were met for this fraction.

Executive Summary

Laboratory performance:

Ethylbenzene was qualified as non-detected in sample BRN-1120-MW25-03 due to laboratory method blank contamination. TRPH was qualified as non-detected 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 (February, 1996), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

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

Michael T. Akers

Project Chemist
Tetra Tech NUS, Inc.

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW01-03
samp_date	12/10/2003
lab_id	WT3131-3
qc_type	NM
units	UG/L
Pct_Solids	
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-MW02-03
samp_date	12/10/2003
lab_id	WT3131-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.09	J	J	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	2	U	U	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	0.3	J	J	
TOTAL XYLENES	3	U	U	

nsample	BRN-1120-MW04-03
samp_date	12/10/2003
lab_id	WT3131-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	6			
M+P-XYLENES	12			
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	12			

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW07-03
samp_date	12/11/2003
lab_id	WT3146-3
qc_type	NM
units	UG/L
Pct_Solids	
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-MW17-03
samp_date	12/11/2003
lab_id	WT3146-4
qc_type	NM
units	UG/L
Pct_Solids	
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-MW18-03
samp_date	12/11/2003
lab_id	WT3146-5
qc_type	NM
units	UG/L
Pct_Solids	
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: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW25-03
samp_date	12/11/2003
lab_id	WT3146-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	0.8	J	U	A
M+P-XYLENES	0.4	J	J	
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	3	U	U	

nsample	BRN-1120-MW26-03
samp_date	12/11/2003
lab_id	WT3146-2
qc_type	NM
units	UG/L
Pct_Solids	
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-MW5R-03
samp_date	12/10/2003
lab_id	WT3131-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	10	~~B~~	~~B~~	
M+P-XYLENES	30			
METHYL TERT-BUTYL ETHER	2	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	30			

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: OV

nsample	TRIP BLANK 121003
samp_date	12/10/2003
lab_id	WT3131-5
qc_type	NM
units	UG/L
Pct_Solids	
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-121103
samp_date	12/11/2003
lab_id	WT3146-6
qc_type	NM
units	UG/L
Pct_Solids	
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: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW01-03
samp_date	12/10/2003
lab_id	WT3131-3RA
qc_type	NM
units	UG/L
Pct_Solids	
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	BRN-1120-MW02-03
samp_date	12/10/2003
lab_id	WT3131-1RA2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.4			
2-METHYLNAPHTHALENE	1.2			
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	1.3			
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

nsample	BRN-1120-MW04-03
samp_date	12/10/2003
lab_id	WT3131-4DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	36			
2-METHYLNAPHTHALENE	52			
ACENAPHTHENE	7.7	U	U	
ACENAPHTHYLENE	7.7	U	U	
ANTHRACENE	7.7	U	U	
BENZO(A)ANTHRACENE	7.7	U	U	
BENZO(A)PYRENE	7.7	U	U	
BENZO(B)FLUORANTHENE	7.7	U	U	
BENZO(G,H,I)PERYLENE	7.7	U	U	
BENZO(K)FLUORANTHENE	7.7	U	U	
CHRYSENE	7.7	U	U	
DIBENZO(A,H)ANTHRACENE	7.7	U	U	
FLUORANTHENE	7.7	U	U	
FLUORENE	7.7	U	U	
INDENO(1,2,3-CD)PYRENE	7.7	U	U	
NAPHTHALENE	42			
PHENANTHRENE	7.7	U	U	
PYRENE	7.7	U	U	

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW07-03
samp_date	12/11/2003
lab_id	WT3146-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.37			
2-METHYLNAPHTHALENE	0.25			
ACENAPHTHENE	0.2	U	U	
ACENAPHTHYLENE	0.051			
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	0.11			
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	BRN-1120-MW17-03
samp_date	12/11/2003
lab_id	WT3146-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.096			
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	BRN-1120-MW18-03
samp_date	12/11/2003
lab_id	WT3146-5
qc_type	NM
units	UG/L
Pct_Solids	
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	

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW25-03
samp_date	12/11/2003
lab_id	WT3146-1DL3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	17			
2-METHYLNAPHTHALENE	56			
ACENAPHTHENE	7.7	U	U	
ACENAPHTHYLENE	7.7	U	U	
ANTHRACENE	7.7	U	U	
BENZO(A)ANTHRACENE	7.7	U	U	
BENZO(A)PYRENE	7.7	U	U	
BENZO(B)FLUORANTHENE	7.7	U	U	
BENZO(G,H,I)PERYLENE	7.7	U	U	
BENZO(K)FLUORANTHENE	7.7	U	U	
CHRYSENE	7.7	U	U	
DIBENZO(A,H)ANTHRACENE	7.7	U	U	
FLUORANTHENE	7.7	U	U	
FLUORENE	7.7	U	U	
INDENO(1,2,3-CD)PYRENE	7.7	U	U	
NAPHTHALENE	16			
PHENANTHRENE	7.7	U	U	
PYRENE	7.7	U	U	

nsample	BRN-1120-MW26-03
samp_date	12/11/2003
lab_id	WT3146-2
qc_type	NM
units	UG/L
Pct_Solids	
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	BRN-1120-MW5R-03
samp_date	12/10/2003
lab_id	WT3131-2DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	34			
2-METHYLNAPHTHALENE	43			
ACENAPHTHENE	7.6	U	U	
ACENAPHTHYLENE	7.6	U	U	
ANTHRACENE	7.6	U	U	
BENZO(A)ANTHRACENE	7.6	U	U	
BENZO(A)PYRENE	7.6	U	U	
BENZO(B)FLUORANTHENE	7.6	U	U	
BENZO(G,H,I)PERYLENE	7.6	U	U	
BENZO(K)FLUORANTHENE	7.6	U	U	
CHRYSENE	7.6	U	U	
DIBENZO(A,H)ANTHRACENE	7.6	U	U	
FLUORANTHENE	7.6	U	U	
FLUORENE	7.6	U	U	
INDENO(1,2,3-CD)PYRENE	7.6	U	U	
NAPHTHALENE	48			
PHENANTHRENE	7.6	U	U	
PYRENE	7.6	U	U	

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW01-03
samp_date	12/10/2003
lab_id	WT3131-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	530	B	U ~~B~~	A

nsample	BRN-1120-MW02-03
samp_date	12/10/2003
lab_id	WT3131-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1700	B	U ~~B~~	A

nsample	BRN-1120-MW04-03
samp_date	12/10/2003
lab_id	WT3131-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1800	B	U ~~B~~	A

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW07-03	nsample	BRN-1120-MW17-03	nsample	BRN-1120-MW18-03
samp_date	12/11/2003	samp_date	12/11/2003	samp_date	12/11/2003
lab_id	WT3146-3	lab_id	WT3146-4	lab_id	WT3146-5
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	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	310	JB	U ~~JB~~	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	570	B	U ~~B~~	A

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW25-03
samp_date	12/11/2003
lab_id	WT3146-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1300	B	U ~~B~~	A

nsample	BRN-1120-MW26-03
samp_date	12/11/2003
lab_id	WT3146-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

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

nsample	BRN-1120-MW5R-03
samp_date	12/10/2003
lab_id	WT3131-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1800	B	U ~~B~~	A

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW01-03
samp_date	12/10/2003
lab_id	WT3131-3
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	4.2			
TOTAL ORGANIC CARBON	MG/L	3.2			

nsample	BRN-1120-MW02-03
samp_date	12/10/2003
lab_id	WT3131-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	0.53	J	J	
TOTAL ORGANIC CARBON	MG/L	8			

nsample	BRN-1120-MW04-03
samp_date	12/10/2003
lab_id	WT3131-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.5			
TOTAL ORGANIC CARBON	MG/L	4.6			

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW07-03
samp_date	12/11/2003
lab_id	WT3146-3
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	4			
TOTAL ORGANIC CARBON	MG/L	1.1			

nsample	BRN-1120-MW17-03
samp_date	12/11/2003
lab_id	WT3146-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	6.5			
TOTAL ORGANIC CARBON	MG/L	2.1			

nsample	BRN-1120-MW18-03
samp_date	12/11/2003
lab_id	WT3146-5
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	14			
TOTAL ORGANIC CARBON	MG/L	3.7			

PROJ_NO: 4184

SDG: 3026 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW25-03
samp_date	12/11/2003
lab_id	WT3146-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	4.7			
TOTAL ORGANIC CARBON	MG/L	4.2			

nsample	BRN-1120-MW26-03
samp_date	12/11/2003
lab_id	WT3146-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	7.2			
TOTAL ORGANIC CARBON	MG/L	1.4			

nsample	BRN-1120-MW5R-03
samp_date	12/10/2003
lab_id	WT3131-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	6.2			
TOTAL ORGANIC CARBON	MG/L	6.2			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/16/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3131-2
Client ID: BRN-1120-MW5R-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5129
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	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	B	10	1.0	1	1	0.2
1330-20-7	Xylenes (total)		30	1.0	3	3	0.5
	m+p-Xylenes		30	1.0	2	2	0.3
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		100%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		100%				

 M1548.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3131-3
Client ID: BRN-1120-MW01-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		95%				
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: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/18/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3131-4
Client ID: BRN-1120-MW04-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5177
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
	m+p-Xylenes		12	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)		12	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		97%				

 Z9531.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/17/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3131-5
Client ID: TRIP BLANK 121003
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG5151
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	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		98%				

 Z9507.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-1
Client ID: BRN-1120-MW25-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.8	1.0	1	1	0.2
	m+p-Xylenes	J	0.4	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		100%				

 Z9552.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-2
Client ID: BRN-1120-MW26-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		94%				

 Z9553.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-3
Client ID: BRN-1120-MW07-03
SDG: CT0302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		94%				

 Z9554.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-4
Client ID: BRN-1120-MW17-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		98%				

 Z9555.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-5
Client ID: BRN-1120-MW18-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date:
Analysis Date: 12/19/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3146-6
Client ID: TRIP BLANK-121103
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5189
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		101%				

 Z9545.D

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/09/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-1RA2
Client ID: BRN-1120-MW02-03
SDG: CTO302-6
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		1.3	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		1.2	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene		1.4	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	U	0.20	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	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	0.11
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	U	0.20	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		66%				
81103-79-9	Fluorene-d10		71%				
1718-52-1	Pyrene-d10		62%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/09/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-2DL2
Client ID: BRN-1120-MW5R-03
SDG: CTO302-6
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		48	40	0.20	7.6	1.9
91-57-6	2-Methylnaphthalene		43	40	0.20	7.6	3.0
90-12-0	1-Methylnaphthalene		34	40	0.20	7.6	3.0
208-96-8	Acenaphthylene	U	7.6	40	0.20	7.6	1.9
83-32-9	Acenaphthene	U	7.6	40	0.20	7.6	3.0
86-73-7	Fluorene	U	7.6	40	0.20	7.6	2.3
85-01-8	Phenanthrene	U	7.6	40	0.20	7.6	3.0
120-12-7	Anthracene	U	7.6	40	0.20	7.6	3.0
206-44-0	Fluoranthene	U	7.6	40	0.20	7.6	4.2
129-00-0	Pyrene	U	7.6	40	0.20	7.6	3.4
56-55-3	Benzo(a)anthracene	U	7.6	40	0.20	7.6	4.6
218-01-9	Chrysene	U	7.6	40	0.20	7.6	2.7
205-99-2	Benzo(b)fluoranthene	U	7.6	40	0.20	7.6	3.4
207-08-9	Benzo(k)fluoranthene	U	7.6	40	0.20	7.6	3.0
50-32-8	Benzo(a)pyrene	U	7.6	40	0.20	7.6	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	7.6	40	0.20	7.6	3.8
53-70-3	Dibenzo(a,h)anthracene	U	7.6	40	0.20	7.6	5.7
191-24-2	Benzo(g,h,i)perylene	U	7.6	40	0.20	7.6	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: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/08/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-3RA
Client ID: BRN-1120-MW01-03
SDG: CTO302-6
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
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	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.079
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.079
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.079
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	0.079
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.079
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	0.089
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	0.089
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.079
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.089
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.099
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	0.079
7297-45-2	2-Methylnaphthalene-d10		90%				
81103-79-9	Fluorene-d10		76%				
1718-52-1	Pyrene-d10		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/09/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-4DL2
Client ID: BRN-1120-MW04-03
SDG: CTO302-6
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5065
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		42	40	0.20	7.7	1.9
91-57-6	2-Methylnaphthalene		52	40	0.20	7.7	3.1
90-12-0	1-Methylnaphthalene		36	40	0.20	7.7	3.1
208-96-8	Acenaphthylene	U	7.7	40	0.20	7.7	1.9
83-32-9	Acenaphthene	U	7.7	40	0.20	7.7	3.1
86-73-7	Fluorene	U	7.7	40	0.20	7.7	2.3
85-01-8	Phenanthrene	U	7.7	40	0.20	7.7	3.1
120-12-7	Anthracene	U	7.7	40	0.20	7.7	3.1
206-44-0	Fluoranthene	U	7.7	40	0.20	7.7	4.2
129-00-0	Pyrene	U	7.7	40	0.20	7.7	3.5
56-55-3	Benzo(a)anthracene	U	7.7	40	0.20	7.7	4.6
218-01-9	Chrysene	U	7.7	40	0.20	7.7	2.7
205-99-2	Benzo(b)fluoranthene	U	7.7	40	0.20	7.7	3.5
207-08-9	Benzo(k)fluoranthene	U	7.7	40	0.20	7.7	3.1
50-32-8	Benzo(a)pyrene	U	7.7	40	0.20	7.7	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	7.7	40	0.20	7.7	3.8
53-70-3	Dibenzo(a,h)anthracene	U	7.7	40	0.20	7.7	5.8
191-24-2	Benzo(g,h,i)perylene	U	7.7	40	0.20	7.7	3.1
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: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/15/03
Analysis Date: 01/09/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-1DL3
Client ID: BRN-1120-MW25-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5115
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		16	40	0.20	7.7	1.9
91-57-6	2-Methylnaphthalene		56	40	0.20	7.7	3.1
90-12-0	1-Methylnaphthalene		17	40	0.20	7.7	3.1
208-96-8	Acenaphthylene	U	7.7	40	0.20	7.7	1.9
83-32-9	Acenaphthene	U	7.7	40	0.20	7.7	3.1
86-73-7	Fluorene	U	7.7	40	0.20	7.7	2.3
85-01-8	Phenanthrene	U	7.7	40	0.20	7.7	3.1
120-12-7	Anthracene	U	7.7	40	0.20	7.7	3.1
206-44-0	Fluoranthene	U	7.7	40	0.20	7.7	4.2
129-00-0	Pyrene	U	7.7	40	0.20	7.7	3.5
56-55-3	Benzo(a)anthracene	U	7.7	40	0.20	7.7	4.6
218-01-9	Chrysene	U	7.7	40	0.20	7.7	2.7
205-99-2	Benzo(b)fluoranthene	U	7.7	40	0.20	7.7	3.5
207-08-9	Benzo(k)fluoranthene	U	7.7	40	0.20	7.7	3.1
50-32-8	Benzo(a)pyrene	U	7.7	40	0.20	7.7	3.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	7.7	40	0.20	7.7	3.8
53-70-3	Dibenzo(a,h)anthracene	U	7.7	40	0.20	7.7	5.8
191-24-2	Benzo(g,h,i)perylene	U	7.7	40	0.20	7.7	3.1
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: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/15/03
Analysis Date: 12/19/03
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-2
Client ID: BRN-1120-MW26-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5115
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		60%				
81103-79-9	Fluorene-d10		63%				
1718-52-1	Pyrene-d10		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/15/03
Analysis Date: 12/29/03
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-3
Client ID: BRN-1120-MW07-03
SDG: CT0302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5115
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		0.25	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene		0.37	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene		0.051	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		0.11	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		63%				
81103-79-9	Fluorene-d10		62%				
1718-52-1	Pyrene-d10		130%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/15/03
Analysis Date: 12/29/03
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-4
Client ID: BRN-1120-MW17-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5115
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		0.096	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		81%				
81103-79-9	Fluorene-d10		88%				
1718-52-1	Pyrene-d10		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/15/03
Analysis Date: 12/29/03
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-5
Client ID: BRN-1120-MW18-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5115
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		66%				
81103-79-9	Fluorene-d10		64%				
1718-52-1	Pyrene-d10		48%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-1
Client ID: BRN-1120-MW02-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	1700	1.0	500	500	270
	n-Triacontane-D62		86%				
	O-Terphenyl		* 67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-2
Client ID: BRN-1120-MW5R-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	1800	1.0	500	500	270
	n-Triacontane-D62		74%				
	O-Terphenyl		* 55%				

 CTL2250.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-3
Client ID: BRN-1120-MW01-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	530	1.0	500	500	270
	n-Triacontane-D62		84%				
	O-Terphenyl		* 66%				

 CTL2251.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date: 12/11/03
Analysis Date: 01/01/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3131-4
Client ID: BRN-1120-MW04-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5066
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	1800	1.0	500	500	270
	n-Triacontane-D62		100%				
	O-Terphenyl		* 81%				

CTL2252.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/16/03
Analysis Date: 01/02/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-1
Client ID: BRN-1120-MW25-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5138
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	1300	1.0	500	500	270
	n-Triacontane-D62		94%				
	O-Terphenyl		* 78%				

 CTL2256.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/16/03
Analysis Date: 01/02/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-2
Client ID: BRN-1120-MW26-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5138
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		102%				
	O-Terphenyl		85%				

 CTL2257.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/16/03
Analysis Date: 01/02/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-3
Client ID: BRN-1120-MW07-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5138
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		108%				
	O-Terphenyl		89%				

 CTL2258.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/16/03
Analysis Date: 01/02/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-4
Client ID: BRN-1120-MW17-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5138
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	310	1.0	500	500	270
	n-Triacontane-D62		96%				
	O-Terphenyl		86%				

 CTL2259.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/11/03
Received Date: 12/12/03
Extraction Date: 12/16/03
Analysis Date: 01/02/04
Report Date: 01/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WT3146-5
Client ID: BRN-1120-MW18-03
SDG: CTO302-6
Extracted by: AZ
Extraction Method: SW846 3520
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5138
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	570	1.0	500	500	270
	n-Triacontane-D62		103%				
	O-Terphenyl		82%				

 CTL2260.d

Katahdin
ANALYTICAL SERVICES

Cert No E

Report of Analytical Results

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

Lab Sample ID: WT3131-1
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW02-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnote
Sulfate-Turbidimetric	J0.53 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	8.0 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

340 County Road No 5
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ANALYTICAL SERVICES

Cert No E8

Report of Analytical Results

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

Lab Sample ID: WT3131-2
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW5R-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnote
Sulfate-Turbidimetric	6.2 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	6.2 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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ANALYTICAL SERVICES

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Report of Analytical Results

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

Lab Sample ID: WT3131-3
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receive
BRN-1120-MW01-03	AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnote
Sulfate-Turbidimetric	4.2 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	3.2 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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ANALYTICAL SERVICES

Cert No

Report of Analytical Results

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

Lab Sample ID: WT3131-4
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO 302 NAS PENSACOLA
SDG: CTO302-6

Sample Description

BRN-1120-MW04-03

Matrix	Date Sampled	Date Recei
AQ	10-DEC-03	11-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footno
Sulfate-Turbidimetric	3.5 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	4.6 mg/L	1	EPA 415.1	WG5305	31-DEC-03	CYD	N/A	N/A	N/A	

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Katahdin
ANALYTICAL SERVICES

Cert N

Report of Analytical Results

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

Lab Sample ID: WT3146-1
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO302 NAS PENSACOLA
SDG: CTO302-6

Sample Description

BRN-1120-MW25-03

Matrix	Date Sampled	Date Recei
AQ	11-DEC-03	12-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnc
Sulfate-Turbidimetric	4.7 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	4.2 mg/L	1	EPA 415.1	WG5200	18-DEC-03	CYD	N/A	N/A	N/A	

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Katahdin
ANALYTICAL SERVICES

Cert No

Report of Analytical Results

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

Lab Sample ID: WT3146-2
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receiv
BRN-1120-MW26-03	AQ	11-DEC-03	12-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footno
Sulfate-Turbidimetric	7.2 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	1.4 mg/L	1	EPA 415.1	WG5200	18-DEC-03	CYD	N/A	N/A	N/A	

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Katahdin
ANALYTICAL SERVICES

Cert No E

Report of Analytical Results

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

Lab Sample ID: WT3146-3
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receiv
BRN-1120-MW07-03	AQ	11-DEC-03	12-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	4.0 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	1.1 mg/L	1	EPA 415.1	WG5200	18-DEC-03	CYD	N/A	N/A	N/A	

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

Report of Analytical Results

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

Lab Sample ID: WT3146-4
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO302 NAS PENSACOLA
SDG: CTO302-6

Sample Description	Matrix	Date Sampled	Date Receiv
BRN-1120-MW17-03	AQ	11-DEC-03	12-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footno
Sulfate-Turbidimetric	6.5 mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	2.1 mg/L	1	EPA 415.1	WG5200	18-DEC-03	CYD	N/A	N/A	N/A	

340 County Road No. 5
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TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 4305

PAGE 1 OF 2

PROJECT NO: N4184

FACILITY: OLEB / NASP

SAMPLERS (SIGNATURE): [signature]

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 8503859899

FIELD OPERATIONS LEADER: Bill Olson

PHONE NUMBER: 8505102787

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: Katahdin

ADDRESS: 340 County Rd No. 5

CITY, STATE: Westbrook ME 04092

STANDARD TAT ☒

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

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOC 8260B	PAH 8310	TRPH FD-P FL-PRO	TOC HLS.1	SO4 300.0				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL	HCL	H_2SO_4						
12/10	0835	BRN-1120-MW27-03	MW27	—	—	GW	G	10	3	2	2	2	1				See WR N5967-WR406 for Cmpd Lists and CRDLs
12/10	1025	BRN-1120-MW28-03	MW08	—	—	GW	G	10	3	2	2	2	1				
12/10	0930	BRN-1120-RB121003-03	—	—	—	QC	G	10	3	2	2	2	1				
12/10	1115	BRN-1120-MW29-03	MW29	—	—	GW	G	10	3	2	2	2	1				
12/10	1210	BRN-1120-MW24-03	MW24	—	—	GW	G	10	3	2	2	2	1				
12/10	1305	BRN-1120-MW16R-03	MW16R	—	—	GW	G	10	3	2	2	2	1				
12/10	1350	BRN-1120-MW35-03	MW35	—	—	GW	G	10	3	2	2	2	1				
12/10	1505	BRN-1120-MW14R-03	MW14R	—	—	GW	G	10	3	2	2	2	1				
12/10	0840	BRN-1120-MW13R-03	MW13R	—	—	GW	G	10	3	2	2	2	1				
12/10	1010	BRN-1120-MW02-03	MW02	—	—	GW	G	10	3	2	2	2	1				
12/10	1325	BRN-1120-MW5R-03	MW5R	—	—	GW	G	10	3	2	2	2	1				
12/10	1400	BRN-1120-MW01-03	MW01	—	—	GW	G	10	3	2	2	2	1				
12/10	1505	BRN-1120-MW04-03	MW04	—	—	GW	G	10	3	2	2	2	1				

RELINQUISHED BY: [signature] DATE 12/10/03 TIME 1800

RELINQUISHED BY: DATE TIME

RELINQUISHED BY: DATE TIME

1. RECEIVED BY: [signature] DATE 12/10/03 TIME 1800

2. RECEIVED BY: DATE TIME

3. RECEIVED BY: DATE TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE)

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 4396

PAGE 2 OF 2

PROJECT NO: N4184

FACILITY: OLFB / NASP

SAMPLERS (SIGNATURE): TAN

PROJECT MANAGER: Cherry Walker

PHONE NUMBER: 8503859899

FIELD OPERATIONS LEADER: Bill Olson

PHONE NUMBER: 8505102787

CARRIER/WAYBILL NUMBER

LABORATORY NAME AND CONTACT: Katahdin

ADDRESS: 340 County Rd No. 5

CITY, STATE: Westbrook ME 04092

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

DATE YEAR	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	PAH	TRPH	TOC	SO4			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P			
PRESERVATIVE USED									HCL							
TYPE OF ANALYSIS									8260	8310	FDEP ARPO	415.1	360.0			
12/10 2003	—	Trip Blank-121003				QC	—	2	2	—	—	—	—			See WR N5967-WR406 for Compound Lists and CRDLs.

RELINQUISHED BY: TAN

DATE 12/10/03 TIME 1800

1. RECEIVED BY: [signature]

RELINQUISHED BY

DATE TIME

2. RECEIVED BY

DATE 12-11-03 TIME 0900

RELINQUISHED BY

DATE TIME

3. RECEIVED BY

DATE TIME

COMMENTS

DISTRIBUTION: W ACC ANIF

WT3146

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 4304

PAGE 1 OF 1

PROJECT NO: 4184

FACILITY: OLF Brunson / NASP

SAMPLERS (SIGNATURE): [signature] / David P. Olson

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 850 385 9899

FIELD OPERATIONS LEADER: Bill Olson

PHONE NUMBER: 850 510 2787

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: Katahdin ; Andrea Colby

ADDRESS: 340 County Rd No. 5

CITY, STATE: Westbrook ME 04092

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

DATE (MM DD YEAR)	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 8260B	PAH 8310	TRPH EDEP FLPRO	TOC 415.1	SO4 300.0				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL								
12/11	0940	BRN-1120-MW25-03	MW25	—		GW	G	10	3	2	2	2	1				See WR
12/11	0831	BRN-1120-MW26-03	MW26	—		GW	G	10	3	2	2	2	1				N5967-WR406
12/11	1055	BRN-1120-MW07-03	MW07	—		GW	G	10	3	2	2	2	1				for Cmpd Lists
12/11	0830	BRN-1120-MW17-03	MW17	—		GW	G	10	3	2	2	2	1				and CRDLs
12/11	1005	BRN-1120-MW18-03	MW18	—		GW	G	10	3	2	2	2	1				
12/11	—	Trip Blank-121103	—	—		QC	—	2	2								

1. RELINQUISHED BY [signature] DATE 12/11/03 TIME 1700
2. RELINQUISHED BY DATE TIME
3. RELINQUISHED BY DATE TIME

1. RECEIVED BY [signature] DATE 12-12-03 TIME 0905
2. RECEIVED BY DATE TIME
3. RECEIVED BY DATE TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 302 NAS PENSACOLA
PO No:
Sample Date: 12/10/03
Received Date: 12/11/03
Extraction Date:
Analysis Date: 12/16/03
Report Date: 12/30/2003
Matrix: WATER
% Solids: NA

Lab ID: WT3131-1
Client ID: BRN-1120-MW02-03
SDG: CTO302-6
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5129
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	0.2
71-43-2	Benzene	J	0.09	1.0	1	1	0.09
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
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		100%				
460-00-4	P-Bromofluorobenzene		96%				

Katahdin
ANALYTICAL SERVICES

Cert No

Report of Analytical Results

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

Lab Sample ID: WT3146-5
Report Date: 08-JAN-04
Client PO: MSA-0402-N4113-05 N5967
Project: CTO302 NAS PENSACOLA
SDG: CTO302-6

Sample Description

BRN-1120-MW18-03

Matrix	Date Sampled	Date Receiv
AQ	11-DEC-03	12-DEC-03

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnot
Sulfate-Turbidimetric	14. mg/L	1	EPA 375.4	WG5291	31-DEC-03	KGT	N/A	N/A	N/A	
Total Organic Carbon	3.7 mg/L	1	EPA 415.1	WG5200	18-DEC-03	CYD	N/A	N/A	N/A	

340 County Road No. 5
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