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TREATABILITY STUDY BASELINE GROUNDWATER LETTER REPORT UNDERGROUND STORAGE TANK (UST) SITE 1120 NAS PENSACOLA FL

8/26/2003

TETRA TECH

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August 26, 2003

Project Number N5967

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Byas Glover (ES24)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order Number 0302

Subject: Treatability Study Baseline Groundwater 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 Treatability Study Baseline Groundwater 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 under CTO 0302 for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. This letter report provides the results of the baseline groundwater sampling event conducted in June 2003 for 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 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.

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 (F.A.C.). The SAR Addendum (SARA) investigation was conducted in July 2000. Based on the additional site assessment data, the SARA report (May 23, 2001) recommended that monitored natural attenuation was 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 Site 1120, which was approved on April 2, 2002 by the FDEP in an Approval Order which outlined the requirements for natural attenuation monitoring at the site.

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

Enhanced Natural Attenuation Treatability Study

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

The following activities will be conducted for the treatability study at Site 1120:

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

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. This Baseline Monitoring Report, the quarterly performance monitoring letter reports and the Treatability Study Evaluation Report will document this treatability study.

Baseline Groundwater Sampling Activities

TtNUS personnel conducted the baseline groundwater monitoring event from June 24 through June 26, 2003. The baseline groundwater monitoring event included:

- Measurement of static water levels (SWLs) to determine groundwater elevation/flow direction.
- Collection of groundwater samples from 20 monitoring wells for laboratory analysis.
- Field and laboratory analyses for natural attenuation parameters.

The locations of site features and monitoring wells are shown on Figure 2. Groundwater samples for field and laboratory analysis were collected from the following monitoring wells as specified in the treatability study work plan:

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

A groundwater sample was collected from MW-32 in lieu of MW-29 because the sampling crew could not locate MW-29, which may have been buried by road grading operations.

The following monitoring wells were scheduled for sampling, but were dry and could not be sampled:

- MW-8
- MW-11
- MW-15

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 low flow purge technique. During purging, field parameters (pH, conductivity, temperature, DO, and oxidation-reduction potential) were measured at approximately 5 to 10 minute intervals using a Horiba U-22 multiparameter instrument equipped with a flow-through cell. The instrument was calibrated according to the manufacturer's specifications at the beginning of each day. A Field Calibration Log is provided in Attachment A. In addition, turbidity was monitored using a La Motte Turbidimeter.

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

Laboratory Analysis

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

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

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

Groundwater Elevation and Flow Direction

The water level data collected on June 27, 2003 are presented in Table 1. The top-of-casing elevations for the monitoring wells at Site 1120 were surveyed previously using an arbitrary 30-foot vertical datum (the top-of-casing of MW-1). The water level data were used to estimate groundwater elevation and flow direction at the site (Figure 3). Four of the monitoring wells scheduled for water level measurements were reportedly dry. Free product was not detected in the site monitoring wells.

The water level data collected during the baseline monitoring event indicate that groundwater flow in the 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 baseline monitoring event were 3.1 to 3.3 feet higher than the elevations measured during the last quarterly sampling event in July, 2002.

Groundwater Analytical Results

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

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

Compound	Florida GCTL	Location Detected	Concentration
Total Xylenes	20 µg/L	MW-4	28 µg/L
		MW-14R	32 µg/L
Naphthalene	20 µg/L	MW-4	440 µg/L
		MW-14R	52 µg/L
1-Methylnaphthalene	20 µg/L	MW-4	380 µg/L
		MW-14R	160 µg/L
2-Methylnaphthalene	20 µg/L	MW-4	220 µg/L
		MW-14R	150 µg/L

The concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene detected in MW-4 remain above the action level of 200 µg/L for each of these compounds established for contaminated wells in the MOP Approval Order.

Natural Attenuation Parameter Results

The field and off-site laboratory results of the sampling and testing for natural attenuation parameters are summarized in Table 3. The measurements recorded during this baseline monitoring event will provide the values against which the trends in parameter concentrations can be determined over the course of the monitoring period.

Conclusions

Concentrations of PAHs in site groundwater continue to exceed the action levels established in the MOP approval order. Therefore, TTNUS recommends the treatability study be continued as designed in the work plan.

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

Sincerely,

Gerald Walker

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

WDO/wdo

Attachments (9)

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 - SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Monitoring Well Data				Water Level Measurement Data								
				6/27/2003			7/23/2002			4/29/2002		
Well Number	Installation Date	Installed Well Depth (ft)	TOC Elevation[2] (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	GW Elevation (ft)
MW-1	05/24/95	18.85[1]	30.00	NR	NR	NA	DRY	18.80	NA	18.17	18.80	11.83
MW-2	03/29/96	23.5	30.08	16.18	NR	13.90	19.52	23.40	10.56	NR	NR	NR
MW-3	03/29/96	23.5	30.74	16.95	NR	13.79	20.23	23.29	10.51	19.21	23.29	11.53
MW-4	03/29/96	22.5	29.08	15.33	NR	13.75	18.65	22.08	10.43	17.60	22.09	11.48
MW-5	03/29/96	22.5	28.36	NA	NR	NA	NF	NA	NA	NF	NF	NF
MW-5R	7/23/2002	25.2	28.86	13.66	NR	15.20	NA	NA	NA	NA	NA	NA
MW-6	03/29/96	22.5	28.30	NR	NR	NA	NF	NA	NA	NR	NR	NA
MW-7	05/14/96	22.0	29.46	15.81	NR	13.65	19.11	21.50	10.35	18.00	21.59	11.46
MW-8	05/14/96	22.0	29.90	DRY	NR	NA	DRY	NA	NA	DRY	18.62	NA
MW-9	05/14/96	22.0	29.66	DRY	NR	NA	DRY	NA	NA	DRY	15.60	NA
MW-10	05/14/96	22.0	29.21	NR	NR	NA	18.85	21.00	10.36	DRY	NR	NA
MW-11	05/14/96	22.0	28.43	NR	NR	NA	17.90	NM	10.53	DRY	16.32	NA
MW-12	05/14/96	22.0	28.66	14.32	NR	14.34	18.20	21.10	10.46	17.22	NR	11.44
MW-13	05/15/96	22.0	29.42	NR	NR	NA	18.90	21.75	10.52	17.86	21.69	11.56
MW-13R	7/23/2002	24.9	29.58	NR	NR	NA	NA	NA	NA	NA	NA	NA
MW-14	07/31/96	22.0	29.51	NA	NR	NA	19.22	22.20	10.29	DRY	17.58	NA
MW-14R	7/24/2002	24.5	29.50	16.01	NR	13.49	NA	NA	NA	NA	NA	NA
MW-15	07/31/96	22.0	30.38	DRY	NR	NA	DRY	NA	NA	DRY	17.60	NA
MW-16	07/31/96	22.0	28.71	NA	NR	NA	18.26	22.00	10.45	DRY	NR	NA
MW-16R	7/24/2002	24.6	28.49	14.90	NR	13.59	NA	NA	NA	NA	NA	NA
MW-17	08/01/96	22.0	30.71	17.10	NR	13.61	20.35	22.38	10.36	19.25	22.38	11.46
MW-18	08/01/96	22.0	30.59	17.03	NR	13.56	20.22	21.95	10.37	19.20	21.95	11.39
MW-19	08/01/96	22.0	30.22	16.47	NR	13.75	19.70	21.94	10.52	18.61	21.96	11.61
MW-20	08/01/96	22.0	29.85	DRY	NR	NA	DRY	NA	NA	DRY	14.90	NA
MW-21	08/01/96	22.0	28.24	14.39	NR	13.85	18.64	NM	9.60	16.61	16.83	11.63
MW-22	09/18/96	24.0	28.01	14.28	NR	13.73	17.64	23.90	10.37	16.63	NR	11.38
MW-23	09/18/96	23.0	28.52	14.94	NR	13.58	18.22	23.20	10.30	17.24	NR	11.28
MW-24	09/18/96	23.0	29.45	15.96	NR	13.49	19.20	23.40	10.25	18.21	NR	11.24
MW-25	09/19/96	24.0	30.25	16.79	NR	13.46	20.00	23.58	10.25	19.01	23.59	11.24
MW-26	09/19/96	24.0	30.91	17.54	NR	13.37	20.67	23.60	10.24	19.74	23.64	11.17
MW-27	10/22/96	25.0	32.55	19.30	NR	13.25	22.43	23.90	10.12	21.42	NR	11.13
MW-28	10/22/96	25.0	32.68	19.50	NR	13.18	22.61	23.90	10.07	21.69	NR	10.99
MW-29	10/22/96	25.0	31.03	NF	NR	NA	20.92	24.00	10.11	19.98	NR	11.05
MW-30	10/22/96	25.0	29.71	16.35	NR	13.36	19.52	24.10	10.19	18.60	NR	11.11
MW-31	10/22/96	25.0	29.18	15.68	NR	13.50	15.91	23.60	13.27	17.98	NR	11.20
MW-32	12/10/96	25.0	30.43	17.27	NR	13.16	20.40	22.20	10.03	DRY	NR	NA
MW-33	12/10/96	25.0	32.11	NR	NR	NA	22.08	22.50	10.03	21.16	NR	10.95
DMW-34	01/29/97	40.0	31.46	16.81	NR	14.65	20.03	38.50	11.43	19.00	38.62	12.46
DMW-35	05/22/00	39.5	32.26	NR	NR	NA	21.93	42.60	10.33	20.93	42.60	11.33

Notes:

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

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

TOC - Top of Casing

ft - foot or feet

DRY - no water detected in well

NR - Not Recorded

NA - Not applicable

NF - Not Found, well was buried

NM - Not Measured, obstruction.

GW - Groundwater

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

Sample No.			BRN-1120-MW-01	BRN-1120-MW13R-01	BRN-1120-MW14R-01	BRN-1120-MW16R-01	BRN-1120-MW2-01	BRN-1120-MW24-01
Sample Location			MW-01	MW-13R	MW-14R	MW-16R	MW-2	MW-24
Collect Date			6/24/2003	6/25/2003	6/25/2003	6/25/2003	6/24/2003	6/25/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	--	--	16	--	0.5 J	--
m&p-Xylene	NC	NC	--	--	32	--	--	--
o-Xylene	NC	NC	--	--	--	--	0.5 J	--
Total Xylenes	**20**	200	--	--	**32**	--	2	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	**20**	200	--	--	**160**	2.3	5.9	6.7
2-Methylnaphthalene	**20**	200	--	--	**150**	5.6	4.9	5.9
Acenaphthene	20	200	--	--	--	--	--	0.74 J
Fluorene	280	2,800	--	--	--	--	--	0.7 J
Naphthalene	**20**	200	--	--	**52**	--	3	--
TRPH [5] (µg/L)	5000	50,000	--	--	3800	400 J	1600	1200
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	--	7.2	--	7.4	3	3.5
Total Organic Carbon (TOC)	NC	NC	--	--	5.2	--	7.2	--

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, F.A.C.
[2] Natural Attenuation Default Concentrations as provided in Chapter 62-770, F.A.C.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
[5] TRPH = Total Recoverable Petroleum Hydrocarbons (FDEP FL-PRO)
[6] USEPA 375.4 (Sulfate); USEPA 415.1 (TOC)

Notes:

Bold indicates an exceedance
Bold indicated which regulatory limit was exceeded
µg/L = micrograms per liter
-- = Analyte not detected above the instrument detection limit
J = Compound was detected at an estimated concentration
mg/L = milligrams per liter
NC = No Criteria
F.A.C. = Florida Administrative Code
FDEP = Florida Department of Environmental Protection
FL-PRO = Florida Petroleum Range Organics
USEPA = United States Environmental Protection Agency

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

Sample No.			BRN-1120-MW4-01	BRN-1120-MW5R-01	BRN-1120-MW7-01	BRN-1120-MW17-01	BRN-1120-MW18	BRN-1120-MW25-01
Sample Location			MW-4	MW-5R	MW-7	MW-17	MW-18	MW-25
Collect Date			6/24/2003	6/24/2003	6/25/2003	6/26/2003	6/26/2003	6/26/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)						
Volatiles [3] (µg/L)								
Ethylbenzene	30	300	14	0.3 J	--	--	--	1
m&p-Xylene	NC	NC	28	--	--	--	--	--
o-Xylene	NC	NC	--	--	--	--	--	--
Total Xylenes	**20**	200	**28**	--	--	--	--	--
PAHs [4] (µg/L)								
1-Methylnaphthalene	**20**	**200**	**380**	2.2	--	0.11 J	--	7.3
2-Methylnaphthalene	**20**	**200**	**220**	1.3	--	0.092 J	--	20
Acenaphthene	20	200	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	--	--	--
Naphthalene	**20**	**200**	**440**	2.1	--	--	--	6
TRPH [5] (µg/L)	5000	50,000	3200	620	--	400 J	1300	950
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	3.4	8.2	3.8	5.8	25	3
Total Organic Carbon (TOC)	NC	NC	13	--	--	--	6.6	--

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

Sample No.			BRN-1120-MW26-01	BRN-1120-MW27-01	BRN-1120-MW28-01	BRN-1120-MW32-01	BRN-1120-MW35-01	BRN-1120-F.EQ-01
Sample Location			MW-26	MW-27	MW-28	MW-32	MW-35	QA/QC
Collect Date			6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/25/2003
	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	--	--	--	--	--	0.1 J
2-Methylnaphthalene	20	200	--	--	--	--	--	--
Acenaphthene	20	200	--	--	--	--	--	--
Fluorene	280	2,800	--	--	--	--	--	--
Naphthalene	20	200	--	--	--	--	--	--
TRPH [5] (µg/L)	5000	50,000	--	--	--	--	--	--
Miscellaneous [6] (mg/L)								
Sulfate	250	2,500,00	6	11	3.6	4.9	31	NA
Total Organic Carbon (TOC)	NC	NC	--	--	--	--	--	NA

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, F.A.C.
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F.A.C. = Florida Administrative Code
FDEP = Florida Department of Environmental Protection
FL-PRO = Florida Petroleum Range Organics
USEPA = United States Environmental Protection Agency

QA/QC = Quality Assurance/Quality Control Sample
NA = Not analyzed for this parameter

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

Sample No.			BRN-1120-TB	BRN-1120-TB2-01	BRN-1120-TB3-01
Sample Location			QA/QC	QA/QC	QA/QC
Collect Date			6/25/2003	6/26/2003	6/26/2003
	GCTL[1] (µg/L)	NADC[2] (µg/L)			
Volatiles [3] (µg/L)					
Ethylbenzene	30	300	--	--	--
m&p-Xylene	NC	NC	--	--	--
o-Xylene	NC	NC	--	--	--
Total Xylenes	20	200	--	--	--
PAHs [4] (µg/L)					
1-Methylnaphthalene	20	200	NA	NA	NA
2-Methylnaphthalene	20	200	NA	NA	NA
Acenaphthene	20	200	NA	NA	NA
Fluorene	280	2,800	NA	NA	NA
Naphthalene	20	200	NA	NA	NA
TRPH [5] (µg/L)	5000	50,000	NA	NA	NA
Miscellaneous [6] (mg/L)					
Sulfate	250	2,500,00	NA	NA	NA
Total Organic Carbon (TOC)	NC	NC	NA	NA	NA

[1] Groundwater Cleanup Target Level as provided in Chapter 62-777, F.A.C.
[2] Natural Attenuation Default Concentrations as provided in Chapter 62-770, F.A.C.
[3] VOCs (SW-846 8260B)
[4] PAHs = Polynuclear Aromatic Hydrocarbons (SW-846 8270 SIM)
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[6] USEPA 375.4 (Sulfate); USEPA 415.1 (TOC)

Notes:

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-- = Analyte not detected above the instrument detection limit
J = Compound was detected at an estimated concentration
mg/L = milligrams per liter
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F.A.C. = Florida Administrative Code
FDEP = Florida Department of Environmental Protection
FL-PRO = Florida Petroleum Range Organics
USEPA = United States Environmental Protection Agency

QA/QC = Quality Assurance/Quality Control Sample
NA = Not analyzed for this parameter

TABLE 3
SUMMARY OF MNA PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA

Sample No.		BRN-1120-MW-01	BRN-1120-MW13R-01	BRN-1120-MW14R-01	BRN-1120-MW16R-01	BRN-1120-MW2-01	BRN-1120-MW24-01
Sample Location		MW-01	MW-13R	MW-14R	MW-16R	MW-2	MW-24
Collect Date		6/24/2003	6/25/2003	6/25/2003	6/25/2003	6/24/2003	6/25/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	1.06	4.0	0	0.43	3.0	1
Carbon Dioxide	mg/L	40	18	70	35	33	90
Alkalinity	mg/L	70	<10	35	40	16	18
Ferrous iron	mg/L	1.4	0	6.0	2.4	1.2	5
Hydrogen Sulfide	mg/L	1	0	0.5	0	0.3	0
Temperature	°C	23.96	23.18	22.78	23.44	22.83	22.27
pH	SU	6.62	4.39	6.28	5.38	5.20	5.16
Oxidation-Reduction potential	mV	121.0	88.2	-67.6	61.1	22.3	72.0
Laboratory Parameters							
Sulfate	µg/L	--	7.2	--	7.4	3	3.5
Total Organic Carbon (TOC)	µg/L	--	--	5.2	--	7.2	--

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

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

Sample No.		BRN-1120-MW4-01	BRN-1120-MW5R-01	BRN-1120-MW7-01	BRN-1120-MW17-01	BRN-1120-MW18	BRN-1120-MW25-01
Sample Location		MW-4	MW-5R	MW-7	MW-17	MW-18	MW-25
Collect Date		6/24/2003	6/24/2003	6/25/2003	6/26/2003	6/26/2003	6/26/2003
	Units						
Field Parameters							
Dissolved Oxygen	mg/L	0.2	4	4-5	1.0	0.05	0
Carbon Dioxide	mg/L	70	25	16	28	45	60
Alkalinity	mg/L	25	<10	<10	40	10	18
Ferrous iron	mg/L	6.8	1.4	0	3.2	5.7	2.8
Hydrogen Sulfide	mg/L	0.2	1	0	0.2	5.0	0.5
Temperature	°C	23.25	23.48	22.48	22.89	22.35	23.15
pH	SU	5.41	5.33	5.29	4.29	5.15	6.04
Oxidation-Reduction potential	mV	2.6	129	169.5	7.6	-59.9	-43.5
Laboratory Parameters							
Sulfate	µg/L	3.4	8.2	3.8	5.8	--	--
Total Organic Carbon (TOC)	µg/L	13	--	--	--	25	3
						6.6	--

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

TABLE 3

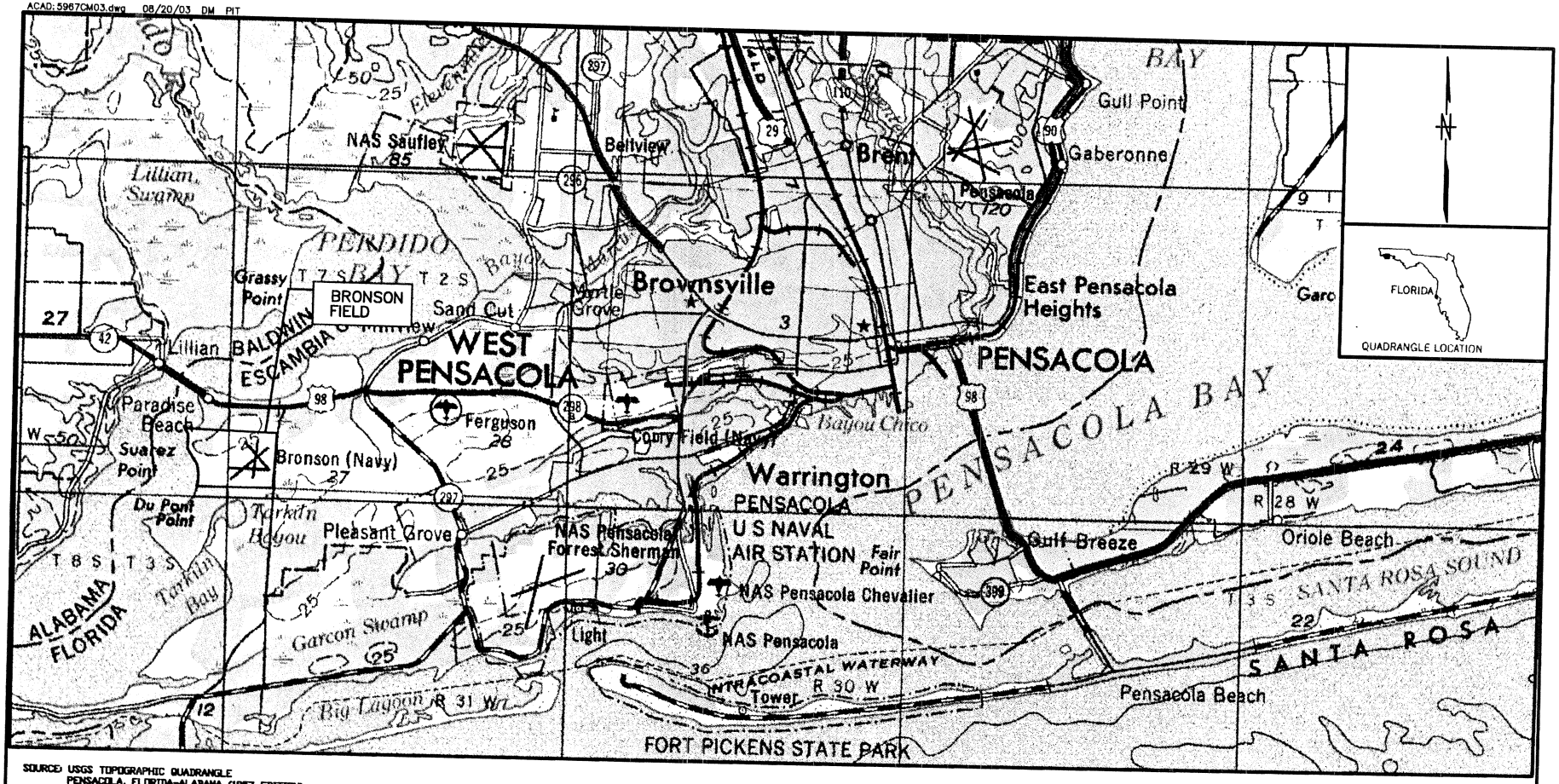
SUMMARY OF MONITORED NATURAL ATTENUATION PARAMETERS IN GROUNDWATER
UST SITE 1120
OLF BRONSON, PENSACOLA, FLORIDA
PAGE 3 OF 3

Sample No.		BRN-1120-MW26-01	BRN-1120-MW27-01	BRN-1120-MW28-01	BRN-1120-MW32-01	BRN-1120-MW35-01
Sample Location		MW-26	MW-27	MW-28	MW-32	MW-35
Collect Date		6/26/2003	6/26/2003	6/26/2003	6/26/2003	6/26/2003
	Units					
Field Parameters						
Dissolved Oxygen	mg/L	4	2	2	2.5	5.5
Carbon Dioxide	mg/L	30	40	40	30	40
Alkalinity	mg/L	<10	0	38	<10	<10
Ferrous iron	mg/L	1.6	0.6	3.1	0.8	0
Hydrogen Sulfide	mg/L	0.1	0	0.1	0	0
Temperature	°C	22.98	21.94	22.38	22.06	23.26
pH	SU	3.67	5.28	5.18	5.06	4.44
Oxidation-Reduction potential	mV	48.6	137.3	-2.7	95.1	260.7
Laboratory Parameters						
Sulfate	µg/L	6	11	3.6	4.9	31
Total Organic Carbon (TOC)	µg/L	--	--	--	--	--

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

FIGURES

ACAD:5967CM03.dwg 08/20/03 DM PIT



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

0 10000 20000
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

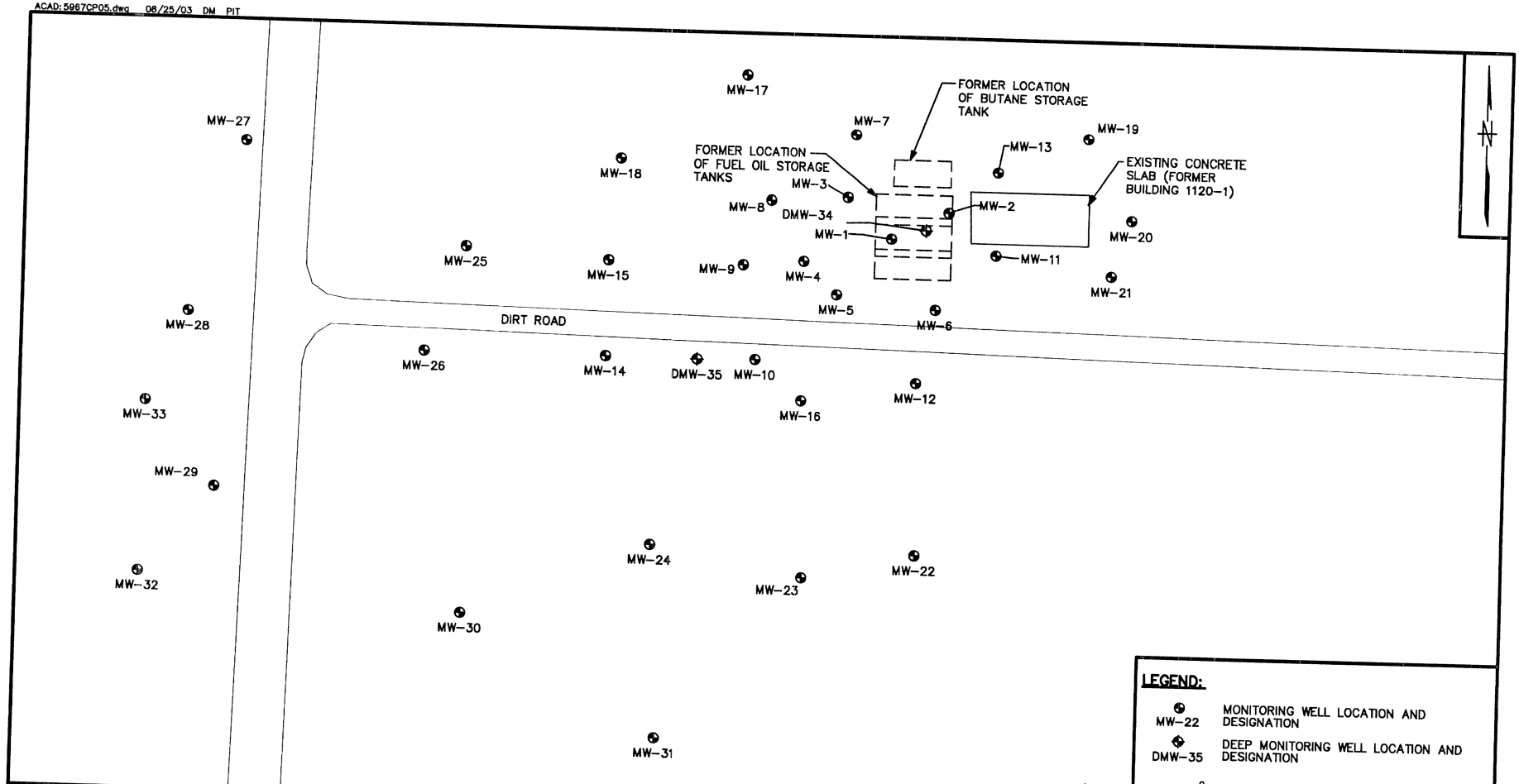
DRAWN BY DM DATE 7/11/02
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

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

CONTRACT NO. 5967
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 1
REV. 0

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

ACAD:5967CP05.dwg 08/25/03 DM 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

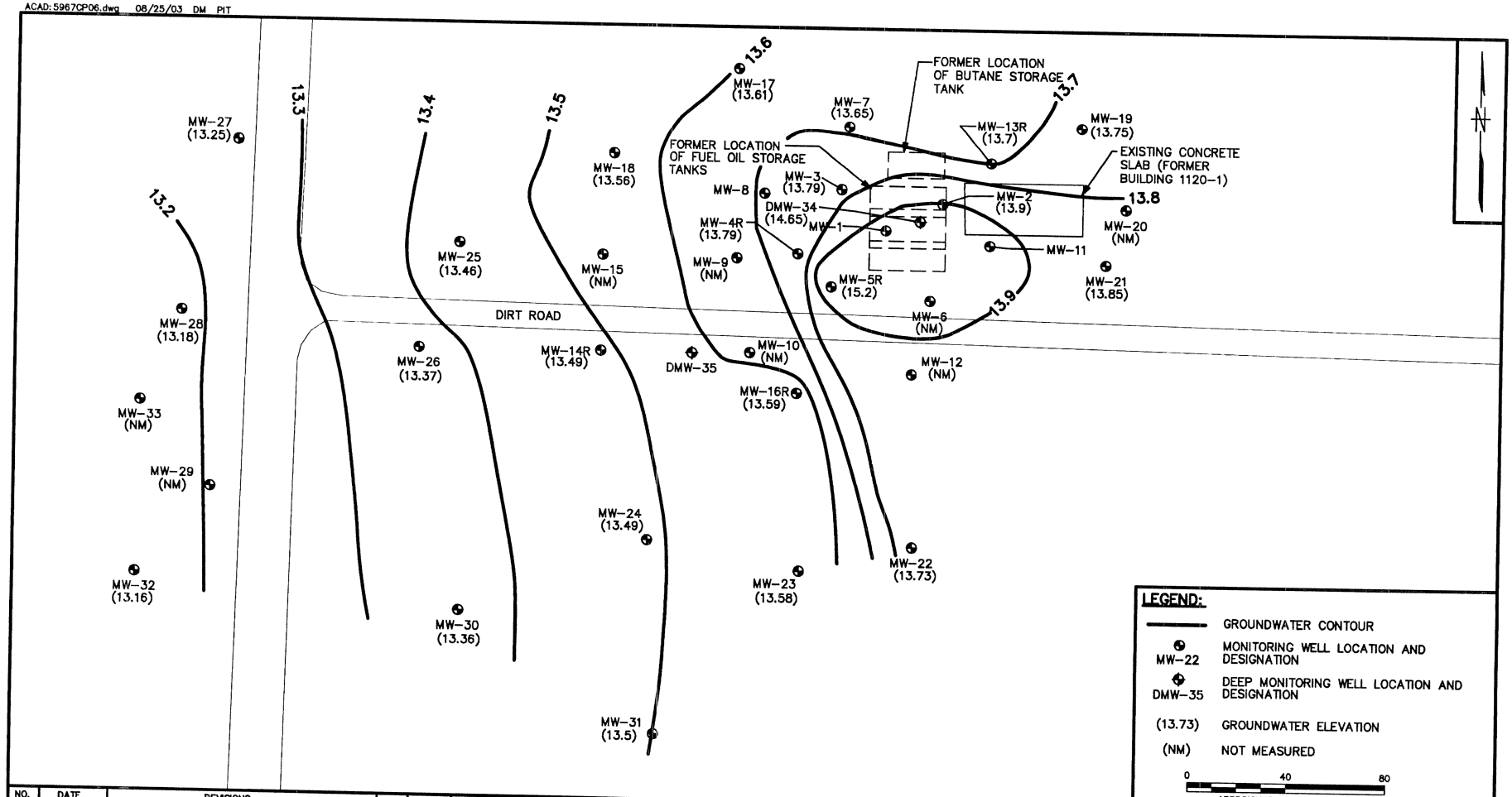
DRAWN BY DM DATE 8/19/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SITE PLAN
SITE 1120
BASELINE GROUNDWATER SAMPLING EVENT
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 5967
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 2
REV. 0

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

ACAD:5967CP06.dwg 08/25/03 DM PIT



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

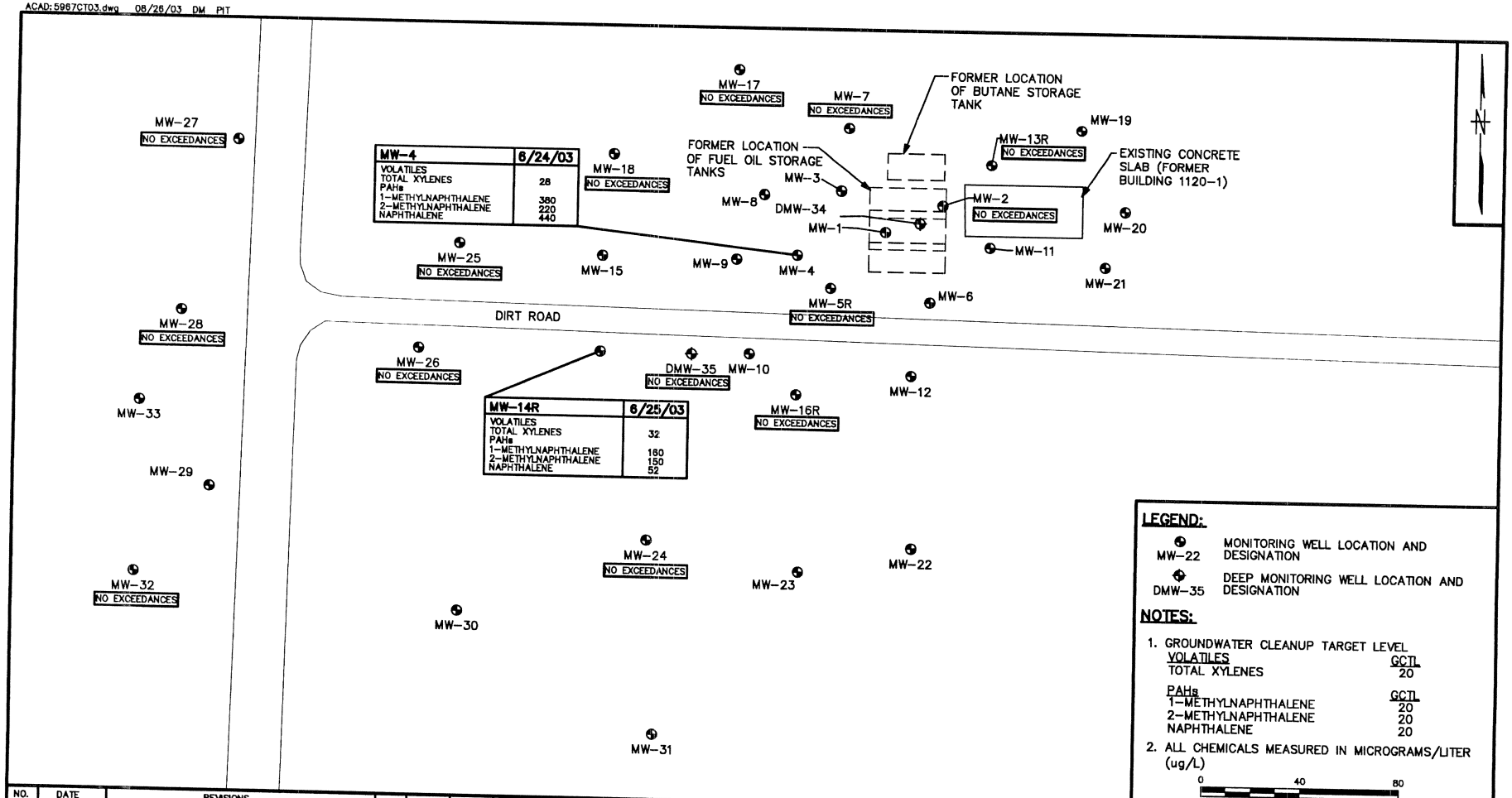
DRAWN BY DM DATE 8/19/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER FLOW
SITE 1120
BASELINE GROUNDWATER SAMPLING EVENT
NAS PENSACOLA
PENSACOLA, FLORIDA

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

FORM CADD NCI SDIV_BHLDVG - REV 0 - 1/20/98

ACAD:5967CT03.dwg 08/26/03 DM PIT



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

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

LEGEND:

MW-22 — MONITORING WELL LOCATION AND DESIGNATION

DMW-35 — DEEP MONITORING WELL LOCATION AND DESIGNATION

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)

0 40 80
APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY DM DATE 8/19/03
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER EXCEEDANCES
SITE 1120
BASELINE GROUNDWATER SAMPLING EVENT
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 5967
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4
REV. 0

FORM CADD NO. SDIV_B4.DWG - REV 0 - 1/20/98

ATTACHMENT A

FIELD DATA FORMS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 1120 Treatability Study
Project No.: N5967
Location: OLF Bronson
Personnel: Chuck Metz
Weather Conditions: clear 89° F
Measuring Device: Pipper - T
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
MW-2	6/27/2003		30.08		16.18	N/A	13.9	
MW-3	6/27/2003		30.74		16.95	N/A	13.79	
MW-4	6/27/2003		29.08		15.33	N/A	13.75	
MW-5R	6/27/2003		28.86		13.66	N/A	15.2	
MW-7	6/27/2003		29.46		15.81	N/A	13.65	
MW-8	6/27/2003		29.9		DRY	N/A	N/A	
MW-9	6/27/2003		29.66		DRY	N/A	N/A	
MW-12	6/27/2003		28.66		14.32	N/A	14.34	
MW-14R	6/27/2003		29.5		16.01	N/A	13.49	
MW-15	6/27/2003		30.38		DRY	N/A	N/A	
MW-16R	6/27/2003		28.49		14.9	N/A	13.59	
MW-17	6/27/2003		30.71		17.1	N/A	13.61	
MW-18	6/27/2003		30.59		17.03	N/A	13.56	
MW-19	6/27/2003		30.22		16.47	N/A	13.75	
MW-20	6/27/2003		29.85		DRY	N/A	N/A	
MW-21	6/27/2003		28.24		14.39	N/A	13.85	
MW-22	6/27/2003		28.01		14.28	N/A	13.73	
MW-23	6/27/2003		28.52		14.94	N/A	13.58	
MW-24	6/27/2003		29.45		15.96	N/A	13.49	
MW-25	6/27/2003		30.25		16.79	N/A	13.46	
MW-26	6/27/2003		30.91		17.54	N/A	13.37	
MW-27	6/27/2003		32.55		19.3	N/A	13.25	
MW-28	6/27/2003		32.68		19.5	N/A	13.18	
MW-30	6/27/2003		29.71		16.35	N/A	13.36	
MW-31	6/27/2003		29.18		15.68	N/A	13.5	
MW-32	6/27/2003		30.43		17.27	N/A	13.16	
MW-34	6/27/2003		31.46		16.81	N/A	14.65	

* All measurements to the nearest 0.01 foot

OLF Bronson

EQUIPMENT CALIBRATION LOG

INSTRUMENT NAME/MODEL :

MANUFACTURER :

PROJECT NAME : OLF Bronson Site 1120

PROJECT NUMBER : N5967

	CALIBRATION DATE	INSTRUMENT/ SERIAL #	INITIAL SETTINGS	STANDARDS USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
PID	6/25	ED 46B12	95.2	100	STD	100	100	DL	
YSI	6/25	03C0391AB	3.95 / 7.00	4 / 7	STD	4 / 7	4 / 7	DI	Cond -1423 → 1409
		01D0435 AA	3.86 / 7.02	4 / 7	STD	4 / 7	4 / 7	DI	Cond 1419 - 1409
LaMot	LaMot	—	1.1 10.3	1 10	STD	1 10	1 10	DS	
	"	—	.95 9.2	1 10	STD	1 10	1 10	DS	
PID	6-26	E046B12	98.2	100	STD	~~Std~~ CAL	99.9	DL	
YSI		03C0391AB	3.83 / 7.09	4 / 7	STD	Cal	4 / 7	DI	Cond 1438 - 1409
		1D0435 AA	3.89 / 7.04	4 / 7	STD	Cal	4 / 7		cond 1425 - 1409
LaMot		—	.88 10.4	1.0 / 10	STD	CAL	1 / 10	DS	
		—	.93 10.7	1 / 10	STD	Cal	1 / 10	DI	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-1-01
Sample Location: MW-1
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-24-03	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP	Other
Time: 1905								
Method: Low Flow Peristaltic	Clear	6.62	0.189	23.96	5.10	1.06	+121.0	

PURGE DATA

Date: 6-24-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): ~~13.85~~ 18.80								
Static Water Level (WL): ~~18.80~~ 13.85								
One Casing Volume(gal): 3.1								
Start Purge (hrs): 1820								
End Purge (hrs): 1900								
Total Purge Time (min): 40								
Total Vol. Purged (gal): 8								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	FL-PRO	HCL	(2)-1L Amber	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
VOC	8260B	HCL	(3) 40 mL vial (glass)	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Charla Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967
WELL ID.: BRN-1120-MW-1-01
DATE: 6-24-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1820	13.85	200	6.72	0.181	23.4	0.75	23.71	—	Start Purge
1840	16.79	200	6.63	0.188	11.6	0.94	23.85	+113.6	
1845	16.80	200	6.62	0.189	7.5	0.96	23.88	+119.5	
1850	16.80	200	6.62	0.189	6.24	1.00	23.90	+121.4	
1855	16.81	200	6.62	0.189	5.75	1.08	23.93	+120.8	
~~1~~1900	16.81	200	6.62	0.189	5.10	1.06	23.96	+121.0	End Purge
1905 = Sample Time									Sample Time

SIGNATURE(S): Charles Mott

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: CM
Field Form Checked as per QA/QC Checklist (initials): ☐

Sample ID No.: BRN-1120-MW-1-01
Sample Location: MW-1
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sat.~~ ORP ~~(%)~~ (mv)	pH (SU)
Date: 6-24-03								
Time: 1905								
Method: Peristaltic Pump	Clear	+121.0	0.189	23.96	5.10	1.06	+121.0	6.62

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT (CHEMetrics (Range: _____mg/L))

Analysis Time: 1907

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT (CHEMetrics (Range: 10-100 mg/L))

Analysis Time: 1911

Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 70 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT (CHEMetrics (Range: 10-100 mg/L))

Analysis Time: 1915

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 20-50 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-1-01
Sample Location: MW-1
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sat.~~ ORP ~~(%)~~ (mv)
Date: 6-24-03							
Time: 1905							
Method: Peristaltic pump	Clear	6.62	0.189	23.96	5.10	1.06	+121.0

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C (circled) Other: _____ Analysis Time: 1909

Concentration: 1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit (circled)

Wave / Program: 500nm / 50.05.1 color wheel Time: 1921

TtNUS Serial No.: _____

Concentration: 1.4 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-2- 01
Sample Location: MW-2
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-24-03	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity ~~%~~ ORP	Other
Time: 1855								
Method: Low Flow Peristaltic	CL	5.20	0.096	22.83	17.1	0.55	22.3	

PURGE DATA

Date: 6-24-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC								
Total Well Depth (TD): 23.5				SEE DATA	SHEETS			
Static Water Level (WL):	16.28							
One Casing Volume(gal/L): 6.2								
Start Purge (hrs): 1805								
End Purge (hrs): 1850								
Total Purge Time (min): 45								
Total Vol. Purged (gal) 13.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	(1) 250 ml plastic	DS
VOC	8260		(3) 40 ml glass	DS
TRPH	TRPH		(2) 1 L Amber	DS

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s): DS

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-2-
DATE: 6-24-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1805	17.28	300							
1835	17.21	300	5.31	0.098	18.2	0.60	22.80	12.6	
1840	17.21	300	5.23	0.099	17.8	0.57	22.82	25.9	
1845	17.21	300	5.22	0.098	17.7	0.56	22.84	25.7	
1850	17.22	300	5.20	0.098	17.1	0.55	22.83	22.3	
1855									

SIGNATURE(S): [illegible]

PAGE___OF___

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Page __ of __

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: DS
Field Form Checked as per QA/QC Checklist (initials): ☐

Sample ID No.: BRN-1120-MW-2-
Sample Location: MW-2
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+ mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 6-24-03								
Time: 1855								
Method: Peristaltic	CL	22.3	0.098	22.83	17.1	0.55	/	5.20

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-10 mg/L) Analysis Time: 1903

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 3.0 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1901

Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 16 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1859

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: 33 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-2-
Sample Location: MW-2
Sampled By: ds & cm

SAMPLING DATA:

Date: 6.24.03	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal (%)	
Time:								
Method: Peristaltic pump	CL	5.20	0.098	22.83	17.1	0.55	22.3	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1905

Concentration: 0.3 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter color wheel HACH IR-18C Test Kit 1906

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

Concentration: 1.2 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-4- 01
Sample Location: MW-4
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-24-03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1725	Visual	Standard	mS/cm	°C	NTU	mg/l	~~ORP~~	
Method: Low Flow Peristaltic	CL	5.41	0.102	23.25	0.97	0.44	2.6	

PURGE DATA

Date: 6-24-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 22.10								
Static Water Level (WL): 15.53								
One Casing Volume(gal/L):								
Start Purge (hrs): 1610								
End Purge (hrs): 1725								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): 22.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	~~(1) 250 ml plastic~~ (2) 40 ml vials	DS
VOC	8260B	HCL	(2) ~~Amber~~	DS
TRPH	FL PRO	HCL	(3) 40 ml	DS

OBSERVATIONS / NOTES

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

Signature(s): [illegible]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-4- 01
DATE: 6-24-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1610	15.53								
1700	16.15	300	5.78	0.096	2.13	0.55	23.40	-27.6	
1705	16.15	300	5.69	0.096	1.12	0.49	23.38	-25.3	
1710	16.17	300	5.49	0.100	1.10	0.44	23.33	-5.9	
1715	16.16	300	5.43	0.101	.98	0.44	23.24	-6.3	
1720	16.16	300	5.41	0.102	.97	0.44	23.25	2.6	
1725	Sample								

SIGNATURE(S): RDR C

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: DS
Field Form Checked as per QA/QC Checklist (initials): ☐

Sample ID No.: BRN-1120-MW-4-01
Sample Location: MW-4
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal (%)~~	pH (SU)
Date: 6-24-03								
Time: 1725								
Method: Peristaltic	CL	216	0.102	23.25	0.97	0.44		5.41

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0.0 – 1.0 mg/L) Analysis Time: 1740

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 0.2 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10 – 100 mg/L) Analysis Time: 1746 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 25 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10 – 100 mg/L) Analysis Time: 1749

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: 70 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-4-
Sample Location: MW-4
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%) ppt	
Date: 6.24.03								
Time: 1725								
Method: Peristaltic pump	CL	5.41	0.102	23.25	0.97	0.44	2.6	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1756

Concentration: 0.2 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter (color wheel) HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

Time 1755

Concentration: 6.8 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NAS Pensacola	Sample ID No.:	BRN-1120-MW-5R-01
Project No.:	N 5967 OLF Bronson, Pensacola, FL	Sample Location:	MW-5R
		Sampled By:	ds & cm
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[X] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 6-24-03 Time: 1710	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP mV	Other
Method: Low Flow Peristaltic	Clear	5.33	0.034	23.39	6.81	0.39	+129	

PURGE DATA

Date: 6-24-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 1.25"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 25.1								
Static Water Level (WL): 13.37								
One Casing Volume(gal/L): 3.1 (Sp screen)								
Start Purge (hrs): 1610								
End Purge (hrs): 1700								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 7								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	FL-PRO	HCL	(2) 2 L amber	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	~~(1) 250 ml plastic~~ (2) 40 ml vials	✓
VOC	8260B	HCL	(2) 40 ml glass vials	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s): Chalk Mee

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-5R-01
DATE: 6-24-08

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1610	13.37	200	—	—	—	—	—	—	Start Purge
1630	17.00	100	5.11	0.031	43.6	0.43	23.21	+174.2	
1640	17.01	100	5.21	0.032	21.8	0.42	23.28	+162.9	
1645	17.01		5.26	0.032	15.6	0.39	23.38	+151.1	
~~1648~~	17.02		5.28	0.033	11.8	0.37	23.41	+136.3	
1650	17.02		5.30	0.033	8.91	0.38	23.43	+138.6	
1655	17.02		5.32	0.034	7.25	0.38	23.46	+130.8	
1700	17.02		5.33	0.034	6.81	0.39	23.48	+129.0	

1710 = Sample Time

SIGNATURE(S): Charles May

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-5R-
Project No.:	N 5967	Sample Location:	MW-5R
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	CM	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal (%)~~	pH (SU)
Date: 6-24-03								
Time: 1710								
Method: Peristaltic	Clear	+129	0.034	23.48	6.81	0.39		5.33

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1713

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 4 mg/L

Notes:

Alkalinity:

Analysis Time: 1717

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes: Never Turned from Pink To green

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1725

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: 25 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-5R-01
Sample Location: MW-5R
Sampled By: ds & cm

SAMPLING DATA:

Date: 6-24-03
Time: 1710
Method: Peristaltic pump

Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	ORP ~~Sat.~~ ~~(mV)~~
Clear	5.33	0.034	23.48	6.81	0.39	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1719

Concentration: 1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit
Wave / Program: 500nm / 50.05.1 color wheel
TtNUS Serial No.: _____

Time: 1730

Concentration: 1.4 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-7-01
Sample Location: MW-7
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-25-03 Time: 1000	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP %/(mV)	Other
Method: Low Flow Peristaltic	Clear	5.29	0.021	22.48	1.16	0.29	+169.5	

PURGE DATA

Date: 6-25-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 21.7'								
Static Water Level (WL): 15.95								
One Casing Volume(gal/L): 3.1								
Start Purge (hrs): 0900								
End Purge (hrs): 0950								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	FL-PRO	HCL	(2) 1L amber	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
VOC	8260B	HCl	(3) 40mL glass vial	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Charles Mc

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967
WELL ID.: BRN-1120-MW-7-01
DATE:

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0900	15.95	200	—	0.	52.1	—	—	—	Start Purge
0920	16.18	200	5.39	0.	10.1	0.63	22.31	+101.4	
0930	16.19	200	5.34	0.	5.14	0.40	22.37	+119.6	
0935	16.19	200	5.33	0.022	2.38	0.32	22.44	+132.4	
0940	16.19	200	5.51	0.022	1.18	0.30	22.45	+149.4	
0945	16.19	200	5.33	0.022	1.08	0.29	22.47	160.6	
0950	16.19	200	5.29	0.021	1.16	0.29	22.48	+169.5	End Purge
1000 = Sample Time									Sample

SIGNATURE(S): Charles Mott

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: CM
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-7-01
Sample Location: MW-7
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sat. (%)	pH (SU)
Date: 6-25-03								
Time: 1000								
Method: Peristaltic Pump	Clear	+169.5	0.021	22.48	1.16	0.29		5.29

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1003

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 4-5 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1008 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1015

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 16 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-7-01
Sample Location: MW-7
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sat. ORP~~ (mV)
Date: 6-25-03							
Time: 1000							
Method: Peristaltic pump	Clear	5.29	0.021	22.48	1.16	~~[illegible]~~ 0.29	+169.5

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1012

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____ Time: 1022

Concentration: 0 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-11-01
Sample Location: MW-11
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date:	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Time:								
Method: Low Flow Peristaltic								

PURGE DATA

Date:	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter:								
Well Casing Material:				SEE DATA	SHEETS			
Total Well Depth (TD): 13.93								
Static Water Level (WL): 0								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	
Sulfate	300		(1) 250 ml plastic	
TOC	415.1	sulfuric	(1) 250 ml plastic	

OBSERVATIONS / NOTES

NO H2O

Circle if Applicable:

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

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-11-
DATE: _____

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments

SIGNATURE(S): _____

PAGE___OF___

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: **N 5967**
Sampled By: **ds & cm**
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-11-
Sample Location: **MW-11**
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: / Time: / Method:	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Analysis Time: _____

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-11-
Sample Location: MW-11
Sampled By: ds & cm

SAMPLING DATA:

Date: / Time:	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	
Method: Peristaltic pump								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: _____

Concentration: _____ mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-13R-01
Sample Location: MW-13R
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-25-03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0955	Visual	Standard	mS/cm	°C	NTU	mg/l	~~%~~ ORP	
Method: Low Flow Peristaltic	CL	439	0.065	23.16	5.3	0.52	85.2	

PURGE DATA

Date: 6-24-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 1.25								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 25.22								
Static Water Level (WL): 16.02								
One Casing Volume(gal/L):								
Start Purge (hrs): 0845								
End Purge (hrs): 0955								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 14								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	(1) ~~250 ml plastic~~ (2) 40 ml vials	DS
VOC	8260B		(2) 40 ml	DS
TRPH	FL-PRO		(2) 1 L Amb	DS

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-13R - 01
DATE: 6-25-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0845	16.02	200							
0935	16.10	200	4.39	0.064	6.8	0.40	23.23	120.	
0940	16.11	200	4.41	0.064	6.5	0.43	23.11	108	
0945	16.11	200	4.38	0.064	5.5	0.47	23.15	108	
0950	16:11	200	4.39	0.065	5.3	0.52	23.18	88.2	
0955	Sample								

SIGNATURE(S): D.O.H.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-13R 01
Project No.:	N 5967	Sample Location:	MW-13R
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	DS	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 6-25-03								
Time: 0955								
Method: Peristaltic	4.39	88.2	0.065	23.18	5.8	0.52		4.39

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1009

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 4.0 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1008 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1000

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 18 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-13R-01
Sample Location: MW-13R
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal (%)~~ ORP	
Date: 6-25-03								
Time: 0955								
Method: Peristaltic pump	CL	4.39	0.065	23.18	5.3	0.52	88.2	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1018

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel Time 1017

TtNUS Serial No.: _____

Concentration: 0 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-14R -01
Sample Location: MW-14R
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-25-03 Time: 1245	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP (mv)	Other
Method: Low Flow Peristaltic	Clear	6.28	0.122	22.78	~~0.03~~ 0.76	0.23	-67.6	

PURGE DATA

Date: 6-25-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 24.51								
Static Water Level (WL): 16.10								
One Casing Volume(gal/L): 5.9								
Start Purge (hrs): 1200								
End Purge (hrs): 1240								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L) 8								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
VOC	8260B	HCL	(3) 40ml glass vials	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
TRPH	FL-PRO	HCL	(2) 1L ambers	✓

OBSERVATIONS / NOTES

Slight Petroleum odor to water.

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles Mc

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-14R -01
DATE: 6-25-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1200	16.10	200	—	—	—	—	—	—	Start Purge
1230	16.23	200	6.33	0.124	1.09		23.18	-70.6	
1232	16.23	200	6.30	0.123	0.98		23.08	-69.3	
1235	16.23	200	6.29	0.123	0.81	0.26	22.98	-68.7	
1238	16.22	200	6.27	0.123	0.68	0.25	22.83	-67.8	~~End Purge~~
1240	16.22	200	6.28	0.122	0.76	0.23	22.78	-67.6	End Purge

1245 = Sample Time

SIGNATURE(S): Charles Mc[illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-14R-01
Project No.:	N 5967	Sample Location:	MW-14R
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	CM	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal.~~ ORP (~~%~~ mv)	pH (SU)
Date: 6-25-03								
Time: 1245								
Method: Peristaltic Pump	Clear	-67.6	0.122	22.78	0.76	0.23	-67.6	6.28

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 1255

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 0 mg/L

Notes:

Alkalinity:

Analysis Time: 1250

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 35 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1248

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: 70 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-14R
Sample Location: MW-14R
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	ORP Sat. (mv) (●)
Date: 6-25-03							
Time: 1245							
Method: Peristaltic pump	Clear	6.28	0.122	22.78	0.76	0.23	-67.6

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1252

Concentration: 0.5 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel Time: 1259

TtNUS Serial No.: _____

Concentration: 6.0 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-15
Sample Location: MW-15
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-25-03 Time: 1100	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Method: Low Flow Peristaltic								

PURGE DATA

Date: 6-25-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	
Sulfate	300		(1) 250 ml plastic	
TOC	415.1	sulfuric	(1) 250 ml plastic	

OBSERVATIONS / NOTES

Didn't Sample, NO Water !!!

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Charles Mc

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-15
DATE: _____

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments

SIGNATURE(S): _____

PAGE___OF___

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**

Project No.: **N 5967**

Sampled By: **ds & cm**

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-15

Sample Location: **MW-15**

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date:								
Time:								
Method:								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-15
Sample Location: MW-15
Sampled By: ds & cm

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	
Time:	(Visual)	(SU)	(mS/cm)	(^{0}C)	(NTU)	(Meter, mg/l)	(%)	
Method: Peristaltic pump								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: _____

Concentration: _____ mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-16R
Sample Location: MW-16R
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-25-03 Time: 1155	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP %/(mV)	Other
Method: Low Flow Peristaltic	Clear	5.38	0.055	23.44	1.38	0.43	+61.6	

PURGE DATA

Date: 6-25-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 1.25								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 24.65								
Static Water Level (WL): 14.85								
One Casing Volume(gal/L):								
Start Purge (hrs) ~~1040~~ 1110								
End Purge (hrs): 1150								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 8								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
VOC		HCL	(3) 40mL glass vial	✓
PAH	8310	~~None~~ NONE	(2) 1 L amber	✓
Sulfate	300	NONE	(1) 250 ml plastic	✓
TOC	415.1	sulfuric H_2SO_4	~~(1) 250 mL~~ plastic (2) 40mL vials	✓
TRPH	FL-PRO	HCL	(2) 1L amber	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Charles Mes

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-16R
DATE: 6-25-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1110	14.85	200	—	—	—	—	—	—	START Purge
1140	~~15~~ 14.99	200	5.46	0.055	2.86	0.49	22.55	+54.7	
1145	15.00	200	5.41	0.056	2.08	0.44	23.59	+57.4	
1148	15.00	200	5.39	0.056	1.69	0.43	23.49	+59.6	
1150	15.00	200	5.38	0.055	1.38	0.43	23.44	61.1	End Purge

1155 = Sample Time

SIGNATURE(S): Charles Mc[illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: **N 5967**
Sampled By: **ds & cm**
Field Analyst: CM
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-16R-01
Sample Location: **MW-16R**
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal.~~ (%)	pH (SU)
Date: 6-25-03								
Time: 1155								
Method: Peristaltic Pump	clear	+61.1	0.055	23.44	1.38	0.43		5.38

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: 1158

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10 - 100 mg/L) Analysis Time: 1202 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1210

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: 35 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-16R-01
Sample Location: MW-16R
Sampled By: ds & cm

SAMPLING DATA:

Date: 6-25-03	Color	pH	S.C.	Temp.	Turbidity	DO	~~Sal.~~ ORP
Time: 1155	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(~~%~~ mv)
Method: Peristaltic pump	Clear	5.38	[redacted]	23.44	1.38	0.43	61.6 (+)

SAMPLE COLLECTION/ANALYSIS INFORMATION: 0.055

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1206

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel Time: 1216

TtNUS Serial No.: _____

Concentration: 2.4 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-17-01
Sample Location: MW-17
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity ~~ORP~~	Other
Time: 1000								
Method: Low Flow Peristaltic	CL	4.29	0.38	22.89	16.3	1.22	7.6	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 17.89								
Static Water Level (WL): 17.19								
One Casing Volume(gal/L) 0.5								
Start Purge (hrs): 0930								
End Purge (hrs): 0955								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L) 5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	FL-PRO	HCL	2 1L amber	DS
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300	NONE	(1) 250 ml plastic	DS
TOC	415.1	sulfuric	(1) 250 ml plastic	DS
VOC	8260B	HCL	(4) 40 ml VOA	DS

OBSERVATIONS / NOTES

Circle if Applicable:

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

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967
WELL ID.: BRN-1120-MW-17
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0930	17.19	200	4.68	0.038	15.5	1.91	22.87	14.1	
0945	17.26	200	4.37	0.38	12.9	1.88	22.85	11.3	
0950	17.26	200	4.35	0.37	12.1	1.48	22.86	9.2	
0955	17.27	200	4.29	0.38	10.3	1.22	22.89	7.6	
0000	sample								

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: DS
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-17-01
Sample Location: MW-17
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (~~%~~)	pH (SU)
Date: 6-26-03								
Time: 1000								
Method: Peristaltic Pump	CL	7.6	0.380	22.85	10.3	1.22	4.29	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 0.0-1.0 mg/L)
Analysis Time: 1003

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: 1.0 mg/L
Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L)
Analysis Time: 1005
Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L
Notes:
Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L)
Analysis Time: 1007

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: 28 mg/L
Notes:
Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-17-01
Sample Location: MW-17
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%) ORP	
Date: 6-26-03								
Time: 1000								
Method: Peristaltic pump	CL	4.29	0.38	22.89	10.3	1.22	7.6	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C (circled) Other: _____ Analysis Time: 1015

Concentration: 0.2 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter ~~color wheel~~ HACH IR-18C Test Kit (circled)

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

1017

Concentration: 3.2 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-DMW-18-01
Sample Location: DMW-35
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Time:								
Method: Low Flow Peristaltic								

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 24.52								
Static Water Level (WL): 19.34								
One Casing Volume(gal/L): 0.[redacted]3 L								
Start Purge (hrs): 1055								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	
Sulfate	300		(1) 250 ml plastic	
TOC	415.1	sulfuric	(1) 250 ml plastic	

OBSERVATIONS / NOTES

Circle if Applicable:

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

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-DMW-18
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments

SIGNATURE(S): Charles Mez

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-DMW-18-01
Sample Location: DMW-35
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date:								
Time:								
Method:								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-DMW-18-01
Sample Location: DMW-35
Sampled By: ds & cm

SAMPLING DATA:

Date:	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	
Time:								
Method: Peristaltic pump								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: _____

Concentration: _____ mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-18 -01
Sample Location: MW-8
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity ~~%~~ ppt	Other
Time: 1130								
Method: Low Flow Peristaltic	CL	5.15	0.192	22.35	1.8	0.33	-59.9	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 22.18								
Static Water Level (WL): 17.08								
One Casing Volume(gal/L): 4.9								
Start Purge (hrs): 1030								
End Purge (hrs): 1120								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		~~(1) 250 ml plastic~~ (2) 40 ml	DS
TOC	415.1	sulfuric	(1) 250 ml plastic	DS
VOC		HCL	(3) 40 ml	DS
TRPH		HCL	(2) 1 l Amber	DS

OBSERVATIONS / NOTES

Circle if Applicable:

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

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-~~8~~ 18 ?01
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1030	17.08	300							
1100	17.15	300	5.24	0.208	10.2	0.37	22.32	-68.1	
1110	17.16	300	5.16	0.193	5.5	0.32	22.38	-62.1	
1115	17.16	300	5.15	0.193	3.2	0.32	22.39	-60.2	
1120	17.16	300	5.15	0.192	1.8	0.33	22.35	-59.9	
1130	Sample								

SIGNATURE(S): [illegible]

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-~~6~~ 13-01
Project No.:	N 5967	Sample Location:	MW-~~8~~ 18
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	DS	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 6-26-03								
Time: 1130								
Method: Reverse Well	CL	-59.9	0.192	22.35	1.8	0.33	~~5~~ 0.15	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0 - 10 mg/L) Analysis Time: 1135

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 0.05 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10 - 100 mg/L) Analysis Time: 1137 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10 - 100 mg/L) Analysis Time: 1140

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 45 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-~~8~~ 18-01
Sample Location: MW-~~8~~ 18
Sampled By: ds & cm

SAMPLING DATA:

Date: 6.26.03	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	
Time: 1130	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%) ~~ppt~~	
Method: Peristaltic pump	CL	5.15	0.192	22.35	1.8	0.33	59.9	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1141

Concentration: 5.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter (color wheel) HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

Time 1142

Concentration: 5.7 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-24 -01
Sample Location: MW-24
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6.25.03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1335	Visual	Standard	mS/cm	°C	NTU	mg/l	~~%~~ ORP	
Method: Low Flow Peristaltic	CL	5.16	0.087	22.27	12.1	0.57	72	

PURGE DATA

Date: 6.25.03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 23.48								
Static Water Level (WL): 16.02								
One Casing Volume(gal/L): 4.9								
Start Purge (hrs): 1230								
End Purge (hrs): 1330								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 18								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	(1) ~~250 ml plastic~~ (2) 40 ml Vials	DS
TRPH	~~8310 FL Pro~~		(3) 40 ml Vials	DS
VOA	8260			DS

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967
WELL ID.: BRN-1120-MW-24 -01
DATE: 6-25-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1330	16.02								
1310		300	5.68	0.084	19.7	0.62	22.89	55.0	
1315		300	5.40	0.083	17.1	0.61	22.67	68.6	
1320		300	5.26	0.086	15.4	0.60	22.24	71.5	
1325		300	5.19	0.087	12.2	0.58	22.26	72.3	
1330		300	5.16	0.087	12.1	0.57	22.27	72.0	
1335	Sample								

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-24
Project No.:	N 5967	Sample Location:	MW-24
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	B	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal (%)	pH (SU)
Date: 6-25-03								
Time: 1335								
Method: Peristaltic	CC	720	0.067	22.27	12.1	0.57		5.16

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1338

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 1 mg/L

Notes: exceeded 0-1 mg/L range

Alkalinity:

Analysis Time: 1340

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 18 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1345

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 90 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-24
Sample Location: MW-24
Sampled By: ds & cm

SAMPLING DATA:

Date: 6-25-03	Color	pH	S.C.	Temp.	Turbidity	DO	~~Sal.~~
Time: 1335	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%) ORP
Method: Peristaltic pump	CL	5.16	0.087	22-27	12.1	0.57	72.0

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: (HS-C) Other: _____ Analysis Time: 1342

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter (HACH IR-18C Test Kit)

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____ Time: 1352

Concentration: 5 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NAS Pensacola	Sample ID No.:	BRN-1120-MW-25 - 01
Project No.:	N 5967 OLF Bronson, Pensacola, FL	Sample Location:	MW-25
		Sampled By:	ds & cm
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[X] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 6-26-03 / Time: 0830	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP (mv) %	Other
Method: Low Flow Peristaltic	clear	6.04	0.112	23.15	2.8	0.37	-43.5	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 23.6								
Static Water Level (WL): 16.83								
One Casing Volume(gal): 0.40								
Start Purge (hrs): 0800								
End Purge (hrs): 0830								
Total Purge Time (min): 30								
Total Vol. Purged (gal): 0.6								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
VOC - 8260		HCL	(3) 40mL glass vials	✓
PAH - 8310	8310	None	(2) 1 L amber	✓
Sulfate -	300	None	(1) 250 ml plastic	✓
TOC —	415.1	sulfuric	(1) 250 ml plastic	✓
TRPH — FL-PRO		HCL	(2) 1 L ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Charles M[illegible]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-25-01
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0800	16.83	200	—	—	—	—	—	—	Start Purge
0820	16.98	200		0.121	8.1	0.88	23.25	-36.3	
0823	16.98	200	6.06	0.115	4.4	0.60	23.22	-41.7	
0825	16.99	200	6.06	0.113	3.6	0.48	23.22	-42.2	
0828	16.99	200	6.08	0.112	3.1	0.41	23.20	-44.5	
0830	16.99	200	6.04	0.112	2.8	0.37	23.15	-43.5	End Purge

0830 = Sample Time

SIGNATURE(S): Charla [illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-25-01
Project No.:	N 5967	Sample Location:	MW-25
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	CM	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

Date: 6-26-03	Color	ORP (Eh)	S.C.	Temp.	Turbidity	DO	Sal	pH
Time: 0830	(Visual)	(+/- mv)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	(SU)
Method: Peristaltic	Clear	-43.5	0.112	23.15	2.8	0.37	-	6.04

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT (CHEMetrics (Range: 0-1 mg/L)) Analysis Time: 0840

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 0 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT (CHEMetrics (Range: 10-100 mg/L)) Analysis Time: 0834 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 18 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT (CHEMetrics (Range: 10-100 mg/L)) Analysis Time: 0838

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 60 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-25 -4
Sample Location: MW-25
Sampled By: ds & cm

SAMPLING DATA:

Date: 6-26-03	Color	pH	S.C.	Temp.	Turbidity	DO	~~Sat.~~ ORP	
Time: 0830	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	~~(%)~~ (mv)	
Method: Peristaltic pump	Clear	6.04	0.112	23.15	2.8	0.37	-435	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 0844

Concentration: ~~0.8~~ 0.5 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit
Wave / Program: 500nm / 50.05.1 color wheel Time: 0846
TtNUS Serial No.: _____

Concentration: 2.8 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-26-01
Sample Location: MW-26
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Date: 6-26-03								
Time: 0850								
Method: Low Flow Peristaltic	CL	3.67	0.093	22.98	5.5	0.88	48.6	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 23.67								
Static Water Level (WL): 17.8								
One Casing Volume(gal/L): 4.3								
Start Purge (hrs): 0800								
End Purge (hrs): 0845								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 14								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	~~(1) 250 ml plastic~~ (3) 40 ml VOA	DS
VOC	8260B		(3) 40 ml	DS
TRPH	FL-PRO		(2) 1 L Amber	DS

OBSERVATIONS / NOTES

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

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-26-01
DATE: 6-26-08

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0800	17.58	300							
0830		300	3.72	0.107	7.7	1.78	23.06	57.6	
0835		300	3.70	0.095	7.2	1.44	23.11	57.5	
0840		300	3.68	0.098	6.9	1.25	23.02	55.9	
0845		200	3.67	0.093	5.5	0.88	22.98	48.6	
0850	Sample								

SIGNATURE(S): RDM

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: DS
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-26
Sample Location: MW-26
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 6-26-03								
Time: 1050								
Method: Peristaltic	CL	48.6	0.093	22.98	5.5	0.88	/	3.67

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1001

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: 4 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1009 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: ~~1st.:~~_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1010

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes: 30

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-26-01
Sample Location: MW-26
Sampled By: ds & cm

SAMPLING DATA:

Date: 6-26-03	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal (%) CRI
Time: 1050							
Method: Peristaltic pump	CL	3.67	0.93	22.98	5.5	0.88	48.6

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1015

Concentration: 0.1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter (color wheel) HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

Time 1017

Concentration: 1.6 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-27-01
Sample Location: MW-27
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03 Time: 1130	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP mv	Other
Method: Low Flow Peristaltic	Clear	5.28	0.069	21.94	3.8	0.98	+137.3	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 24.53								
Static Water Level (WL): 19.34								
One Casing Volume(gal/L): 3.1								
Start Purge (hrs): 1050								
End Purge (hrs): 1128								
Total Purge Time (min): 33								
Total Vol. Purged (gal/L): 6.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	FL-PRO	HCL	(2) 1L amber	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
VOC	8260B	HCL	(3) 40ml glass vial	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Mill

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-27-01
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1055	19.34	200	—	—	—	—	—	—	Start Purge
1115	19.39	200	5.32	0.071	5.8	1.11	22.02	+144.2	
1118	19.39		5.31	0.070	4.6	1.10	21.98	+143.8	
1120	19.39		5.30	0.070	4.4	1.07	21.94	+143.0	
1123	19.39		5.28	0.070	4.0	1.03	21.90	+141.3	
1125	19.39		5.28	0.069	3.6	1.01	21.92	+139.9	
1128	19.39		5.28	0.069	3.8	0.98	21.94	+137.3	

1130 = Sample Time

SIGNATURE(S): Charles Moto

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967
Sampled By: ds & cm
Field Analyst: CM
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-27-01
Sample Location: MW-27
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 6-26-03								
Time: 1130								
Method: Peristaltic	Clear	+137.3	0.069	21.94	3.8	0.98		5.28

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT (CHEMetrics (Range: 2 mg/L))
Analysis Time: 1135

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 1-12 mg/L
Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT (CHEMetrics (Range: 10-100 mg/L))
Analysis Time: 1138
Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 0 mg/L
Notes:
Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT (CHEMetrics (Range: 10-100 mg/L))
Analysis Time: 1140

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 40 mg/L
Notes:
Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**
Project No.: N 5967

Sample ID No.: BRN-1120-MW-27-01
Sample Location: MW-27
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal~~ ORP ~~(%)~~ (mv)
Date: 6-26-03							
Time: 1130							
Method: Peristaltic pump	Clear	5.28	0.069	21.94	3.8	0.98	+137.3

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1033

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel Time: 1143

TtNUS Serial No.: _____

Concentration: 0.6 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-28 - 01
Sample Location: MW-28
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03 Time: 1250	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %ORP	Other
Method: Low Flow Peristaltic	CL	5.18	0.059	22.38	0.7	0.56	-2.7	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 24.05								
Static Water Level (WL): 19.53								
One Casing Volume(gal/L): 3.1								
Start Purge (hrs): 1200								
End Purge (hrs): 1245								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 13.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
PAH	8310	None	(2) 1 L amber	DS
Sulfate	300		(1) 250 ml plastic	DS
TOC	415.1	sulfuric	(1) 250 ml plastic	DS
TRPH	FL-PRO	HCL	(2) 1 l Amb	DS
VOC	8260B	HCL	(3) 40 ml Vials	DS

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-28-01
DATE: 6-26-01

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1200	19.53	300							
1230	19.68	300	5.64	0.058	5.8	0.58	23.21	-0.9	
1235	19.67	300	5.27	0.058	1.2	0.54	22.31	-7.5	
1240	19.67	300	5.25	0.058	0.8	0.55	22.35	-4.9	
1245	19.67	300	5.18	0.059	0.7	0.56	22.38	-2.7	
1260	sample								

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:	OLF Bronson, Pensacola, FL	Sample ID No.:	BRN-1120-MW-28 -01
Project No.:	N 5967	Sample Location:	MW-28
Sampled By:	ds & cm	Duplicate:	☐
Field Analyst:	DS	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

	Color	ORP (Eh)	S.C.	Temp.	Turbidity	DO	Sal.	pH
Date: 6-26 03								
Time: 1250	(Visual)	(+/- mv)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	(SU)
Method: Peristaltic	CL	-2.7	0.059	22.38	0.7	0.56	5	18

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 1300

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: 2 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1303 Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: 38 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1305

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: 40 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-28
Sample Location: MW-28
Sampled By: ds & cm

SAMPLING DATA:

Date: 6.26.03	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (~~%~~ PP)
Time: 1250							
Method: Peristaltic pump	CL	5.18	0.059	22.38	0.7	0.56	-2.7

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1315

Concentration: 0.1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____ T20 1317

Concentration: 3.1 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NAS Pensacola	Sample ID No.:	BRN-1120-MW-32-01
Project No.:	N 5967 OLF Bronson, Pensacola, FL	Sample Location:	MW-32
		Sampled By:	ds & cm
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[X] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 6-26-03 Time: 1300	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP mV %	Other
Method: Low Flow Peristaltic	Clear	5.06	0.092	22.06	0.86	0.49	+951	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 20.2								
Static Water Level (WL): 17.26								
One Casing Volume(gal/L): 1.9								
Start Purge (hrs): 1240								
End Purge (hrs): 1300								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 4								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
TRPH	TRPH		(2) 1L Ambers	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300		(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
VOC	8260B		(3) 40mL glass vials	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s): Charles Mott
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-~~28~~ 32-01
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1240	17.26	200	—	—	—	—	—	—	START Purge
1250	17.31	200	5.14	0.091	2.6	0.46	22.31	+59.0	
1252	17.31	200	5.08	0.091	1.9	0.48	22.31	+67.8	
1255	17.31	200	5.07	0.091	1.3	0.48	22.21	+77.8	
1258	17.31	200	5.06	0.092	1.1	0.49	22.13	+87.6	
1300	17.31	200	5.06	0.092	0.86	0.49	22.06	+95.1	

1300 = Sample Time

SIGNATURE(S): Charla Mott

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**

Project No.: **N 5967**

Sampled By: **ds & cm**

Field Analyst: CM

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: BRN-1120-MW-32-01

Sample Location: MW-32

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

Date: 6-26-03	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal. (%)~~	pH (SU)
Time: 1300								
Method: Peristaltic Pump	Clear	+95.1	0.092	22.06	0.86	0.49		5.06

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L)

Analysis Time: 1303

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: 2.5 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L)

Analysis Time: 1305

Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L)

Analysis Time: 1308

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: 30 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL

Project No.: N 5967

Sample ID No.: BRN-1120-MW-~~2~~ 32

Sample Location: MW-~~2~~ 32

Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	ORP ~~Sal.~~ (mV) (~~%~~)	
Date: 6-26-03								
Time: 1300								
Method: Peristaltic pump	Clear	5.06	0.092	22.06	0.86	0.49	+96.1	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 1302

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter HACH IR-18C Test Kit

Wave / Program: 500nm / 50.05.1 color wheel

TtNUS Serial No.: _____

Time: 1313

Concentration: 0.8 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: N 5967 OLF Bronson, Pensacola, FL

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

Sample ID No.: BRN-1120-MW-~~18~~ 35-01
Sample Location: MW-18
Sampled By: ds & cm
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 6-26-03 Time: 0955	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	~~Salinity~~ ORP mv	Other
Method: Low Flow Peristaltic	Clear	4.44	0.104	23.26	1.1	2.21	+260.7	

PURGE DATA

Date: 6-26-03	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2"								
Well Casing Material: PVC				SEE DATA	SHEETS			
Total Well Depth (TD): 43.31								
Static Water Level (WL): 18.70								
One Casing Volume(gal/L): 3.1								
Start Purge (hrs): 0920								
End Purge (hrs): 0952								
Total Purge Time (min): 32								
Total Vol. Purged (gal/L): 6.3								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
VOC	8260B	HCL	(3) 40 mL glass ~~ambers~~ vials	✓
PAH	8310	None	(2) 1 L amber	✓
Sulfate	300	None	(1) 250 ml plastic	✓
TOC	415.1	sulfuric	(1) 250 ml plastic	✓
TRPH	FL-PRO	HCL	(2) 1L ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Charles Meo

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLF Bronson, Pensacola, FL
PROJECT NUMBER: N 5967

WELL ID.: BRN-1120-MW-~~18~~ 35-01
DATE: 6-26-03

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0920	18.70	~~200~~	—	—	—	—	—	—	Start Purge
0940	18.77	200	4.62	0.100	2.9	1.28	23.44	+253.3	
0943	18.77	200	4.54	0.100	2.8	1.48	23.37	+251.2	
0945	18.77	200	4.49	0.100	2.0	1.58	23.32	+249.6	
0948	18.78	200	4.48	0.101	1.4	1.81	23.27	+250.4	
0950	18.78	200	4.46	0.102	1.6	2.09	23.30	+252.3	
0952	18.78	200	4.45	0.104	1.1	2.22	23.20	+258.7	
0955	18.78	200	4.44	0.104	1.1	2.21	23.26	+260.7	End Purge

0955 = Sample Time

SIGNATURE(S): Charles Mat

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: **OLF Bronson, Pensacola, FL**

Sample ID No.: BRN-1120-MW-35-01

Project No.: **N 5967**

Sample Location: **MW-18**

Sampled By: **ds & cm**

Duplicate: ☐

Field Analyst: CM

Blank: ☐

Field Form Checked as per QA/QC Checklist (initials):

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~Sal (%)~~	pH (SU)
Date: 6-26-03								
Time: 0955								
Method: Peristaltic Pump	Clear	+260.7	0.104	23.26	1.1	2.21		4.44

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 0958

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 5.5 mg/L

Notes: exceeded 0-1 mg/L range

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1005

Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: <10 mg/L

Notes: never turned from pink to green

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1002

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: 40 mg/L

Notes:

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: OLF Bronson, Pensacola, FL
Project No.: N 5967

Sample ID No.: BRN-1120-MW-~~1~~35-01
Sample Location: MW-18
Sampled By: ds & cm

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	~~DO Sat.~~ ORP (mv) (%)	
Date: 6-26-03								
Time: 0955								
Method: Peristaltic pump	Clear	4.44	0.104	23.26	1.1	2.21	260.7	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Hydrogen Sulfide (H_2S):

Equipment: HS-C (circled) Other: _____ Analysis Time: 1000

Concentration: 0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

Ferrous Iron:

Equipment: HACH DR-700 Colorimeter HACH DR-800 Colorimeter color wheel HACH IR-18C Test Kit (circled)

Wave / Program: 500nm / 50.05.1

TtNUS Serial No.: _____

Time: 1007

Concentration: 0 mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

ATTACHMENT B

GROUNDWATER ANALYTICAL REPORT

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

TO: **Mr. Gerry Walker** **DATE: August 12, 2003**

FROM: **Michael T. Akers** **CC: File**

SUBJECT: **Organic and Inorganic Validation – VOCs, PAHs, TRPH, SO_4, TOC**
CTO302 – NAS Pensacola
SDG 3021

SAMPLES: **11 / Aqueous / VOC / PAH / TRPH / SO_4 / TOC**

BRN-1120-F.EQ-01	**BRN-1120-MW1-01**	**BRN-1120-MW13R-01**
BRN-1120-MW14R-01	**BRN-1120-MW-16R-01**	**BRN-1120-MW2-01**
BRN-1120-MW24-01	**BRN-1120-MW4-01**	**BRN-1120-MW5R-01**
BRN-1120-MW-7-01	**BRN-1120-TB**	

11 / Aqueous / PAH / SO_4 / TOC

NASP-17-MW01-01	**NASP-17-MW02-01**	**NASP-17-MW03-01**
NASP-17-MW04-01	**NASP-17-MW05-01**	**NASP-17-MW07-01**
NASP-17-MW09-01	**NASP-11-MW-11-01**	**PEN-681/682-MW1S-01**
PEN-681/682-MW2S-01	**NASP-681/682-TW4-01**	

OVERVIEW

The sample set for CTO302 SDG 3021, Naval Air Station Pensacola, Pensacola , Florida consists of twenty-two (22) aqueous environmental samples. The environmental samples from Site 1120 at Outlying Landing Field (OLF) Bronson (BRN-1120-) were analyzed for Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), Sulfate, and Total Organic Carbon (TOC). The trip blank (BRN-1120-TB) was analyzed for VOCs only. The equipment blank (BRN-1120-F.EQ-01) was not analyzed for sulfate or TOC. The environmental samples from Underground Storage Tank (UST) Sites 14 (PEN-681/682-) and 17 (NASP-17-) were analyzed for PAHs, Sulfate, and TOC.

The samples were collected by Tetra Tech NUS on June 24th and 25th, 2003 and analyzed by Katahdin Analytical Services. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 8260B (VOCs), USEPA 504.1 (EDB), SW-846 8270 SIM (PAHs), FDEP FL-PRO (TRPH), USEPA 375.4 (SO_4), and USEPA 415.1 (TOC) analytical and reporting protocol. The data in this SDG was validated with regard to the following parameters:

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

The symbol (*) indicates that all quality control criteria were met for this parameter.

VOC Fraction

- **Method Blank Analysis**

  Samples Affected: BRN-1120-F.EQ-01, BRN-1120-MW2-01, BRN-1120-MW4-01, and BRN-1120-TB

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

Compound	Maximum Concentration(µg/L)	Action Level (µg/L)
Toluene	0.30	1.50
m&p-Xyene	0.30	1.50

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

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

PAH Fraction

- All quality control criteria were met for this fraction.

TRPH Fraction

- All quality control criteria were met for this fraction.

Miscellaneous (TOC and Sulfate) Fraction

- **Method Blank Analysis**

  Samples Affected: BRN-1120-MW1-01, BRN-1120-MW13R-01, BRN-1120-MW16R-01, BRN-1120-MW24-01, BRN-1120-MW5R-01, BRN-1120-MW7-01, and PEN-681/682-TW4-01.

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

Compound	Maximum Concentration(mg/L)	Action Level (mg/L)
TOC	0.6114	3.057

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

- All other quality control criteria were met for this fraction.7

Executive Summary

Laboratory performance: Toluene, m&p-Xylene, and TOC were qualified as non-detected (U) in multiple samples due to laboratory method blank contamination.

Other factors affecting data quality: None.

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

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

Michael T Akers
Project Chemist
Tetra Tech NUS, Inc.

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-F.EQ-01
samp_date	6/25/2003
lab_id	WT1548-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW1-01
samp_date	6/24/2003
lab_id	WT1548-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW13R-01
samp_date	6/25/2003
lab_id	WT1548-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW14R-01
samp_date	6/25/2003
lab_id	WT1548-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	16			
M+P-XYLENES	32			
METHYL TERT-BUTYL ETHER	1	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	32			

nsample	BRN-1120-MW16R-01
samp_date	6/25/2003
lab_id	WT1548-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW2-01
samp_date	6/24/2003
lab_id	WT1548-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	0.5	J	J	P
M+P-XYLENES	1	B	U ~~B~~	A
METHYL TERT-BUTYL ETHER	1	U	U	
O-XYLENE	0.5	J	J	P
TOLUENE	1	U	U	
TOTAL XYLENES	2			

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW24-01
samp_date	6/25/2003
lab_id	WT1548-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW4-01
samp_date	6/24/2003
lab_id	WT1548-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	14			
M+P-XYLENES	28	~~B~~	~~B~~	
METHYL TERT-BUTYL ETHER	1	U	U	
O-XYLENE	1	U	U	
TOLUENE	1.0 ~~0.8~~	JB	U ~~JB~~	A
TOTAL XYLENES	28			

nsample	BRN-1120-MW5R-01
samp_date	6/24/2003
lab_id	WT1548-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW7-01
samp_date	6/25/2003
lab_id	WT1548-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-TB
samp_date	6/6/2003
lab_id	WT1548-11
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-F.EQ-01
samp_date	6/25/2003
lab_id	WT1548-12RA
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.1	J	J	P
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-MW1-01
samp_date	6/24/2003
lab_id	WT1548-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	U	
2-METHYLNAPHTHALENE	0.2	U	U	
ACENAPHTHENE	0.2	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-MW13R-01
samp_date	6/25/2003
lab_id	WT1548-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW14R-01
samp_date	6/24/2003
lab_id	WT1548-8DL3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	160			
2-METHYLNAPHTHALENE	150			
ACENAPHTHENE	44	U	U	
ACENAPHTHYLENE	44	U	U	
ANTHRACENE	44	U	U	
BENZO(A)ANTHRACENE	44	U	U	
BENZO(A)PYRENE	44	U	U	
BENZO(B)FLUORANTHENE	44	U	U	
BENZO(G,H,I)PERYLENE	44	U	U	
BENZO(K)FLUORANTHENE	44	U	U	
CHRYSENE	44	U	U	
DIBENZO(A,H)ANTHRACENE	44	U	U	
FLUORANTHENE	44	U	U	
FLUORENE	44	U	U	
INDENO(1,2,3-CD)PYRENE	44	U	U	
NAPHTHALENE	52			
PHENANTHRENE	44	U	U	
PYRENE	44	U	U	

nsample	BRN-1120-MW16R-01
samp_date	6/25/2003
lab_id	WT1548-7DL
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	2.3			
2-METHYLNAPHTHALENE	5.6			
ACENAPHTHENE	0.97	U	U	
ACENAPHTHYLENE	0.97	U	U	
ANTHRACENE	0.97	U	U	
BENZO(A)ANTHRACENE	0.97	U	U	
BENZO(A)PYRENE	0.97	U	U	
BENZO(B)FLUORANTHENE	0.97	U	U	
BENZO(G,H,I)PERYLENE	0.97	U	U	
BENZO(K)FLUORANTHENE	0.97	U	U	
CHRYSENE	0.97	U	U	
DIBENZO(A,H)ANTHRACENE	0.97	U	U	
FLUORANTHENE	0.97	U	U	
FLUORENE	0.97	U	U	
INDENO(1,2,3-CD)PYRENE	0.97	U	U	
NAPHTHALENE	0.97	U	U	
PHENANTHRENE	0.97	U	U	
PYRENE	0.97	U	U	

nsample	BRN-1120-MW2-01
samp_date	6/24/2003
lab_id	WT1548-3DL2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	5.9			
2-METHYLNAPHTHALENE	4.9			
ACENAPHTHENE	1	U	U	
ACENAPHTHYLENE	1	U	U	
ANTHRACENE	1	U	U	
BENZO(A)ANTHRACENE	1	U	U	
BENZO(A)PYRENE	1	U	U	
BENZO(B)FLUORANTHENE	1	U	U	
BENZO(G,H,I)PERYLENE	1	U	U	
BENZO(K)FLUORANTHENE	1	U	U	
CHRYSENE	1	U	U	
DIBENZO(A,H)ANTHRACENE	1	U	U	
FLUORANTHENE	1	U	U	
FLUORENE	1	U	U	
INDENO(1,2,3-CD)PYRENE	1	U	U	
NAPHTHALENE	3			
PHENANTHRENE	1	U	U	
PYRENE	1	U	U	

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PAH

~~nsample BRN-1120-MW24-01~~
samp_date 6/25/2003
lab_id WT1548-9DL
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

DELETE

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	4.5			
2-METHYLNAPHTHALENE	7.3			
ACENAPHTHENE	2.1	U	U	
ACENAPHTHYLENE	2.1	U	U	
ANTHRACENE	2.1	U	U	
BENZO(A)ANTHRACENE	2.1	U	U	
BENZO(A)PYRENE	2.1	U	U	
BENZO(B)FLUORANTHENE	2.1	U	U	
BENZO(G,H,I)PERYLENE	2.1	U	U	
BENZO(K)FLUORANTHENE	2.1	U	U	
CHRYSENE	2.1	U	U	
DIBENZO(A,H)ANTHRACENE	2.1	U	U	
FLUORANTHENE	2.1	U	U	
FLUORENE	0.7	J	J	P
INDENO(1,2,3-CD)PYRENE	2.1	U	U	
NAPHTHALENE	2.1	U	U	
PHENANTHRENE	2.1	U	U	
PYRENE	2.1	U	U	

nsample BRN-1120-MW24-01 DL
samp_date 6/24/2003
lab_id WT1548-9DL3
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	6.7			
2-METHYLNAPHTHALENE	5.9			
ACENAPHTHENE	1	U	U	
ACENAPHTHYLENE	0.74	J	J	P
ANTHRACENE	1	U	U	
BENZO(A)ANTHRACENE	1	U	U	
BENZO(A)PYRENE	1	U	U	
BENZO(B)FLUORANTHENE	1	U	U	
BENZO(G,H,I)PERYLENE	1	U	U	
BENZO(K)FLUORANTHENE	1	U	U	
CHRYSENE	1	U	U	
DIBENZO(A,H)ANTHRACENE	1	U	U	
FLUORANTHENE	1	U	U	
FLUORENE	0.7	J	J	P
INDENO(1,2,3-CD)PYRENE	1	U	U	
NAPHTHALENE	1	U	U	
PHENANTHRENE	1	U	U	
PYRENE	1	U	U	

nsample BRN-1120-MW4-01
samp_date 6/24/2003
lab_id WT1548-4DL
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	380			
2-METHYLNAPHTHALENE	220			
ACENAPHTHENE	110	U	U	
ACENAPHTHYLENE	110	U	U	
ANTHRACENE	110	U	U	
BENZO(A)ANTHRACENE	110	U	U	
BENZO(A)PYRENE	110	U	U	
BENZO(B)FLUORANTHENE	110	U	U	
BENZO(G,H,I)PERYLENE	110	U	U	
BENZO(K)FLUORANTHENE	110	U	U	
CHRYSENE	110	U	U	
DIBENZO(A,H)ANTHRACENE	110	U	U	
FLUORANTHENE	110	U	U	
FLUORENE	110	U	U	
INDENO(1,2,3-CD)PYRENE	110	U	U	
NAPHTHALENE	440			
PHENANTHRENE	110	U	U	
PYRENE	110	U	U	

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW5R-01
samp_date	6/24/2003
lab_id	WT1548-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	2.2			
2-METHYLNAPHTHALENE	1.3			
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	2.1			
PHENANTHRENE	0.2	U	U	
PYRENE	0.2	U	U	

nsample	BRN-1120-MW7-01
samp_date	6/25/2003
lab_id	WT1548-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	NASP-17-MW01-01
samp_date	6/24/2003
lab_id	WT1548-13
qc_type	NM ✓
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.17	J	J	P
2-METHYLNAPHTHALENE	0.2	U	U	
ACENAPHTHENE	0.6			
ACENAPHTHYLENE	0.32			
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	0.41			
INDENO(1,2,3-CD)PYRENE	0.2	U	U	
NAPHTHALENE	0.2	U	U	
PHENANTHRENE	0.56			
PYRENE	0.16	J	J	P

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-F.EQ-01
samp_date	6/25/2003
lab_id	WT1548-12
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW1-01
samp_date	6/24/2003
lab_id	WT1548-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW13R-01
samp_date	6/25/2003
lab_id	WT1548-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	510	U	U	

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW14R-01
samp_date	6/25/2003
lab_id	WT1548-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	3800			

nsample	BRN-1120-MW16R-01
samp_date	6/25/2003
lab_id	WT1548-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	400	J	J	P

nsample	BRN-1120-MW2-01
samp_date	6/24/2003
lab_id	WT1548-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1600			

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW24-01
samp_date	6/25/2003
lab_id	WT1548-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1200			

nsample	BRN-1120-MW4-01
samp_date	6/24/2003
lab_id	WT1548-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	3200			

nsample	BRN-1120-MW5R-01
samp_date	6/24/2003
lab_id	WT1548-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	620			

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW7-01
samp_date	6/25/2003
lab_id	WT1548-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

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HOLDING TIME

08/11/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	BRN-1120-F.EQ-01	WT1548-12	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	OV	06/24/03	07/07/03	07/07/03	13	0	13
UG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	OV	06/24/03	07/07/03	07/07/03	13	0	13
UG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-TB	WT1548-11	NORMAL	3021	OV	06/06/03	07/03/03	07/03/03	27	0	27
UG/L	WG2781-BLANK	WG2781-2	P BLANK	3021	OV	/ /	07/03/03	07/03/03	0	0	0
%	WG2781-LCS	WG2781-1	LCS	3021	OV	/ /	07/03/03	07/03/03	0	0	0
UG/L	WG2783-BLANK	WG2783-2	P BLANK	3021	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2783-LCS	WG2783-1	LCS	3021	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2795-BLANK	WG2795-2	P BLANK	3021	OV	/ /	07/07/03	07/07/03	0	0	0
%	WG2795-LCS	WG2795-1	LCS	3021	OV	/ /	07/07/03	07/07/03	0	0	0
%	BRN-1120-F.EQ-01	WT1548-12RA	NORMAL	3021	PAH	06/25/03	07/02/03	08/01/03	7	30	37
%	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	BRN-1120-MW14R-01	WT1548-8DL3	NORMAL	3021	PAH	06/24/03	06/30/03	08/06/03	6	37	43
%	BRN-1120-MW16R-01	WT1548-7DL	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	BRN-1120-MW2-01	WT1548-3DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	BRN-1120-MW24-01	WT1548-9DL3	NORMAL	3021	PAH	06/25/03	06/30/03	08/06/03	5	37	42

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	BRN-1120-MW4-01	WT1548-4DL	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	NASP-17-MW01-01	WT1548-13	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW02-01	WT1548-14	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW03-01	WT1548-15	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW04-01	WT1548-16	NORMAL	3021	PAH	06/24/03	06/30/03	08/06/03	6	37	43
%	NASP-17-MW05-01	WT1548-17	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW07-01	WT1548-18DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	NASP-17-MW09-01	WT1548-19DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	NASP-17-MW11-01	WT1548-20DL	NORMAL	3021	PAH	06/24/03	06/30/03	08/01/03	6	32	38
%	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	PAH	06/23/03	06/30/03	08/01/03	7	32	39
%	PEN-681/682-MW2S-01	WT1548-22DL2	NORMAL	3021	PAH	06/23/03	06/30/03	08/05/03	7	36	43
%	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	PAH	06/23/03	06/30/03	08/01/03	7	32	39
%	WG2734-BLANK	WG2734-1	P BLANK	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2734-LCS	WG2734-2	LCS	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2734-LCSD	WG2734-3	LCSD	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2753-BLANK	WG2753-1	P BLANK	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCS	WG2753-2	LCS	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCSD	WG2753-3	LCSD	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
MG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	LABQC	MBLANK	LCS	3021	SO4	07/08/03	07/14/03	07/14/03	6	0	6
MG/L	NASP-17-MW01-01	WT1548-13	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW02-01	WT1548-14	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW03-01	WT1548-15	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW04-01	WT1548-16	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW05-01	WT1548-17	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW07-01	WT1548-18	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW09-01	WT1548-19	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW11-01	WT1548-20	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	PEN-681/682-MW2S-01	WT1548-22	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW13R-01DUP	WT1548-5 DUP	DUPLICATE	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
%	BRN-1120-MW13R-01MS	WT1548-5 MS	MS	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	LABQC	MBLANK	LCS	3021	TOC	07/14/03	07/08/03	07/08/03	-6	0	-6
MG/L	NASP-17-MW01-01	WT1548-13	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	NASP-17-MW02-01	WT1548-14	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW03-01	WT1548-15	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW04-01	WT1548-16	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW05-01	WT1548-17	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
%	NASP-17-MW05-01MS	WT1548-17 MS	MS	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW07-01	WT1548-18	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW09-01	WT1548-19	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW11-01	WT1548-20	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-MW2S-01	WT1548-22	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-TW4-01DUP	WT1548-23 DUP	DUPLICATE	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
%	PEN-681/682-TW4-01MS	WT1548-23 MS	MS	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
UG/L	BRN-1120-F.EQ-01	WT1548-12	NORMAL	3021	TPH	06/25/03	07/01/03	07/03/03	6	2	8
UG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	TPH	06/24/03	07/01/03	07/03/03	7	2	9
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	TPH	06/24/03	07/01/03	07/04/03	7	3	10
UG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	TPH	06/24/03	07/01/03	07/04/03	7	3	10
UG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	WG2746-BLANK	WG2746-1	P BLANK	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCS	WG2746-2	LCS	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCSD	WG2746-3	LCSD	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW1-01	nsample	BRN-1120-MW13R-01	nsample	BRN-1120-MW14R-01
samp_date	6/24/2003	samp_date	6/25/2003	samp_date	6/25/2003
lab_id	WT1548-1	lab_id	WT1548-5	lab_id	WT1548-8
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	0	Pct_Solids	0	Pct_Solids	0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	1	U	U	
TOTAL ORGANIC CARBON	MG/L	2		U	A

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	7.2			
TOTAL ORGANIC CARBON	MG/L	0.7636	J	W	A

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	2	U	U	
TOTAL ORGANIC CARBON	MG/L	5.2			

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW16R-01
samp_date	6/25/2003
lab_id	WT1548-7
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	7.4			
TOTAL ORGANIC CARBON	MG/L	0.8686	J	U	A

nsample	BRN-1120-MW2-01
samp_date	6/24/2003
lab_id	WT1548-3
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3			
TOTAL ORGANIC CARBON	MG/L	7.2			

nsample	BRN-1120-MW24-01
samp_date	6/25/2003
lab_id	WT1548-9
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.5			
TOTAL ORGANIC CARBON	MG/L	2		U	A

PROJ_NO: 5967

SDG: 3021 MEDIA: WATER DATA FRACTION: MISC

nsample BRN-1120-MW4-01
samp_date 6/24/2003
lab_id WT1548-4
qc_type NM
Pct_Solids 0
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.4			
TOTAL ORGANIC CARBON	MG/L	13			

nsample BRN-1120-MW5R-01
samp_date 6/24/2003
lab_id WT1548-2
qc_type NM
Pct_Solids 0
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	8.2			
TOTAL ORGANIC CARBON	MG/L	3		U	A

nsample BRN-1120-MW7-01
samp_date 6/25/2003
lab_id WT1548-6
qc_type NM
Pct_Solids 0
DUP_OF:

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.8			
TOTAL ORGANIC CARBON	MG/L	0.6928	J	W	A

3021

HOLDING TIME

08/11/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	BRN-1120-F.EQ-01	WT1548-12	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	OV	06/24/03	07/07/03	07/07/03	13	0	13
UG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	OV	06/24/03	07/07/03	07/07/03	13	0	13
UG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	OV	06/24/03	07/03/03	07/03/03	9	0	9
UG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	OV	06/25/03	07/03/03	07/03/03	8	0	8
UG/L	BRN-1120-TB	WT1548-11	NORMAL	3021	OV	06/06/03	07/03/03	07/03/03	27	0	27
UG/L	WG2781-BLANK	WG2781-2	P BLANK	3021	OV	/ /	07/03/03	07/03/03	0	0	0
%	WG2781-LCS	WG2781-1	LCS	3021	OV	/ /	07/03/03	07/03/03	0	0	0
UG/L	WG2783-BLANK	WG2783-2	P BLANK	3021	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2783-LCS	WG2783-1	LCS	3021	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2795-BLANK	WG2795-2	P BLANK	3021	OV	/ /	07/07/03	07/07/03	0	0	0
%	WG2795-LCS	WG2795-1	LCS	3021	OV	/ /	07/07/03	07/07/03	0	0	0
%	BRN-1120-F.EQ-01	WT1548-12RA	NORMAL	3021	PAH	06/25/03	07/02/03	08/01/03	7	30	37
%	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	BRN-1120-MW14R-01	WT1548-8DL3	NORMAL	3021	PAH	06/24/03	06/30/03	08/06/03	6	37	43
%	BRN-1120-MW16R-01	WT1548-7DL	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	BRN-1120-MW2-01	WT1548-3DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	BRN-1120-MW24-01	WT1548-9DL3	NORMAL	3021	PAH	06/25/03	06/30/03	08/06/03	5	37	42

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	BRN-1120-MW4-01	WT1548-4DL	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	PAH	06/25/03	06/30/03	07/31/03	5	31	36
%	NASP-17-MW01-01	WT1548-13	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW02-01	WT1548-14	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW03-01	WT1548-15	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW04-01	WT1548-16	NORMAL	3021	PAH	06/24/03	06/30/03	08/06/03	6	37	43
%	NASP-17-MW05-01	WT1548-17	NORMAL	3021	PAH	06/24/03	06/30/03	07/31/03	6	31	37
%	NASP-17-MW07-01	WT1548-18DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	NASP-17-MW09-01	WT1548-19DL2	NORMAL	3021	PAH	06/24/03	06/30/03	08/05/03	6	36	42
%	NASP-17-MW11-01	WT1548-20DL	NORMAL	3021	PAH	06/24/03	06/30/03	08/01/03	6	32	38
%	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	PAH	06/23/03	06/30/03	08/01/03	7	32	39
%	PEN-681/682-MW2S-01	WT1548-22DL2	NORMAL	3021	PAH	06/23/03	06/30/03	08/05/03	7	36	43
%	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	PAH	06/23/03	06/30/03	08/01/03	7	32	39
%	WG2734-BLANK	WG2734-1	P BLANK	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2734-LCS	WG2734-2	LCS	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2734-LCSD	WG2734-3	LCSD	3021	PAH	06/30/03	06/30/03	08/01/03	0	32	32
%	WG2753-BLANK	WG2753-1	P BLANK	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCS	WG2753-2	LCS	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCSD	WG2753-3	LCSD	3021	PAH	07/02/03	07/02/03	07/08/03	0	6	6
MG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	SO4	06/25/03	07/14/03	07/14/03	19	0	19
MG/L	LABQC	MBLANK	LCS	3021	SO4	07/08/03	07/14/03	07/14/03	6	0	6
MG/L	NASP-17-MW01-01	WT1548-13	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW02-01	WT1548-14	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW03-01	WT1548-15	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW04-01	WT1548-16	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW05-01	WT1548-17	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW07-01	WT1548-18	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW09-01	WT1548-19	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	NASP-17-MW11-01	WT1548-20	NORMAL	3021	SO4	06/24/03	07/14/03	07/14/03	20	0	20
MG/L	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	PEN-681/682-MW2S-01	WT1548-22	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	SO4	06/23/03	07/14/03	07/14/03	21	0	21
MG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW13R-01DUP	WT1548-5 DUP	DUPLICATE	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
%	BRN-1120-MW13R-01MS	WT1548-5 MS	MS	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	TOC	06/25/03	07/08/03	07/08/03	13	0	13
MG/L	LABQC	MBLANK	LCS	3021	TOC	07/14/03	07/08/03	07/08/03	-6	0	-6
MG/L	NASP-17-MW01-01	WT1548-13	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	NASP-17-MW02-01	WT1548-14	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW03-01	WT1548-15	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW04-01	WT1548-16	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW05-01	WT1548-17	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
%	NASP-17-MW05-01MS	WT1548-17 MS	MS	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW07-01	WT1548-18	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW09-01	WT1548-19	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	NASP-17-MW11-01	WT1548-20	NORMAL	3021	TOC	06/24/03	07/08/03	07/08/03	14	0	14
MG/L	PEN-681/682-MW1S-01	WT1548-21	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-MW2S-01	WT1548-22	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-TW4-01	WT1548-23	NORMAL	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
MG/L	PEN-681/682-TW4-01DUP	WT1548-23 DUP	DUPLICATE	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
%	PEN-681/682-TW4-01MS	WT1548-23 MS	MS	3021	TOC	06/23/03	07/08/03	07/08/03	15	0	15
UG/L	BRN-1120-F.EQ-01	WT1548-12	NORMAL	3021	TPH	06/25/03	07/01/03	07/03/03	6	2	8
UG/L	BRN-1120-MW1-01	WT1548-1	NORMAL	3021	TPH	06/24/03	07/01/03	07/03/03	7	2	9
UG/L	BRN-1120-MW13R-01	WT1548-5	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	BRN-1120-MW14R-01	WT1548-8	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW16R-01	WT1548-7	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	BRN-1120-MW2-01	WT1548-3	NORMAL	3021	TPH	06/24/03	07/01/03	07/04/03	7	3	10
UG/L	BRN-1120-MW24-01	WT1548-9	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW4-01	WT1548-4	NORMAL	3021	TPH	06/24/03	07/01/03	07/07/03	7	6	13
UG/L	BRN-1120-MW5R-01	WT1548-2	NORMAL	3021	TPH	06/24/03	07/01/03	07/04/03	7	3	10
UG/L	BRN-1120-MW7-01	WT1548-6	NORMAL	3021	TPH	06/25/03	07/01/03	07/07/03	6	6	12
UG/L	WG2746-BLANK	WG2746-1	P BLANK	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCS	WG2746-2	LCS	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCSD	WG2746-3	LCSD	3021	TPH	07/01/03	07/01/03	07/03/03	0	2	2

W Vidaud Cooler #1 04-8

TETRA TECH NUS, INC. — **CHAIN OF CUSTODY** — NUMBER 0317 — PAGE 1 OF 5 coolers

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N 5965	OLF BROWSON	Gerry Walker	850 385 9899	Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
D. Sieffken, Charles Mc		David Siefken	904 636 6125	340 Country Rd #5
		CARRIER/WAYBILL NUMBER		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 GRAP (G) COMP (C)	No. OF CONTAINERS	VOC	PAH	TRPH	TOC	Sulfate				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL	–	HCL	H_2SO_4	H_2SO_4				
TYPE OF ANALYSIS									8260B		8310	FI-PRO					
6/24	1905	BRN-1120-MW1-01				GW		10	3	2	2	2	1				Cool to 4°C
6/24	1710	BRN-1120-MW5R-01				GW		10	3	2	2	2	1				
6/24	1855	BRN-1120-MW-2-01				GW		10	3	2	2	2	1				
6/24	1725	BRN-1120-MW-4-01				GW		10	3	2	2	2	1				
6/25	0955	BRN-1120-MW13R-01				GW		10	3	2	2	2	1				
6/25	1000	BRN-1120-MW7-01				GW		10	3	2	2	2	1				
6/25	1155	BRN-1120-MW16R-01				GW		10	3	2	2	2	1				
6/25	1245	BRN-1120-MW14R-01				GW		10	3	2	2	2	1				
6/25	1335	BRN-1120-MW24-01				GW		10	3	2	2	2	1				
6/6	0900	BRN-1120-TB				QC		2	2								
6/25	1100	BRN-1120-F. EQ-01				QC		7	3	2	2						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	6-25-03		1. RECEIVED BY	6/26/03	0905
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

9100000

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-1
Client ID: BRN-1120-MW1-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2783
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		120%				
17060-07-0	1,2-Dichloroethane-D4		134%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-2
Client ID: BRN-1120-MW5R-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2783
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		123%				
17060-07-0	1,2-Dichloroethane-D4		*137%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/07/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-3
Client ID: BRN-1120-MW2-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2795
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.5	1.0	1	1	0.1
1330-20-7	Xylenes (total)		2	1.0	1	1	0.3
	m+p-Xylenes	B	1	1.0	1	1	0.2
95-47-6	o-Xylene	J	0.5	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		85%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/07/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-4
Client ID: BRN-1120-MW4-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2795
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	JB	0.3	1.0	1	1	0.2
100-41-4	Ethylbenzene		14	1.0	1	1	0.1
1330-20-7	Xylenes (total)		28	1.0	1	1	0.3
	m+p-Xylenes	B	28	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		87%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-5
Client ID: BRN-1120-MW13R-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		84%				
2037-26-5	Toluene-D8		86%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-6
Client ID: BRN-1120-MW7-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		86%				
2037-26-5	Toluene-D8		86%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-7
Client ID: BRN-1120-MW16R-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		86%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-8
Client ID: BRN-1120-MW14R-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		16	1.0	1	1	0.1
1330-20-7	Xylenes (total)		32	1.0	1	1	0.3
	m+p-Xylenes		32	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		86%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-9
Client ID: BRN-1120-MW24-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/06/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-11
Client ID: BRN-1120-TB
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		85%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/24/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-12
Client ID: BRN-1120-F.EQ-01
SDG: CTO302-1
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-1
Client ID: BRN-1120-MW1-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
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		135%				
81103-79-9	Fluorene-d10		138%				
1718-52-1	Pyrene-d10		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-2
Client ID: BRN-1120-MW5R-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		2.1	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene		1.3	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene		2.2	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		80%				
81103-79-9	Fluorene-d10		106%				
1718-52-1	Pyrene-d10		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 08/05/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-3DL2
Client ID: BRN-1120-MW2-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		3.0	5.0	0.20	1.0	0.26
91-57-6	2-Methylnaphthalene		4.9	5.0	0.20	1.0	0.42
90-12-0	1-Methylnaphthalene		5.9	5.0	0.20	1.0	0.42
208-96-8	Acenaphthylene	U	1.0	5.0	0.20	1.0	0.26
83-32-9	Acenaphthene	U	1.0	5.0	0.20	1.0	0.42
86-73-7	Fluorene	U	1.0	5.0	0.20	1.0	0.31
85-01-8	Phenanthrene	U	1.0	5.0	0.20	1.0	0.42
120-12-7	Anthracene	U	1.0	5.0	0.20	1.0	0.42
206-44-0	Fluoranthene	U	1.0	5.0	0.20	1.0	0.57
129-00-0	Pyrene	U	1.0	5.0	0.20	1.0	0.47
56-55-3	Benzo(a)anthracene	U	1.0	5.0	0.20	1.0	0.52
218-01-9	Chrysene	U	1.0	5.0	0.20	1.0	0.36
205-99-2	Benzo(b)fluoranthene	U	1.0	5.0	0.20	1.0	0.47
207-08-9	Benzo(k)fluoranthene	U	1.0	5.0	0.20	1.0	0.42
50-32-8	Benzo(a)pyrene	U	1.0	5.0	0.20	1.0	0.47
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	5.0	0.20	1.0	0.52
53-70-3	Dibenzo(a,h)anthracene	U	1.0	5.0	0.20	1.0	0.78
191-24-2	Benzo(g,h,i)perylene	U	1.0	5.0	0.20	1.0	0.42
7297-45-2	2-Methylnaphthalene-d10		106%				
81103-79-9	Fluorene-d10		140%				
1718-52-1	Pyrene-d10		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-4DL
Client ID: BRN-1120-MW4-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		440	500	0.20	110	26
91-57-6	2-Methylnaphthalene		220	500	0.20	110	42
90-12-0	1-Methylnaphthalene		380	500	0.20	110	42
208-96-8	Acenaphthylene	U	110	500	0.20	110	26
83-32-9	Acenaphthene	U	110	500	0.20	110	42
86-73-7	Fluorene	U	110	500	0.20	110	32
85-01-8	Phenanthrene	U	110	500	0.20	110	42
120-12-7	Anthracene	U	110	500	0.20	110	42
206-44-0	Fluoranthene	U	110	500	0.20	110	58
129-00-0	Pyrene	U	110	500	0.20	110	48
56-55-3	Benzo(a)anthracene	U	110	500	0.20	110	64
218-01-9	Chrysene	U	110	500	0.20	110	37
205-99-2	Benzo(b)fluoranthene	U	110	500	0.20	110	48
207-08-9	Benzo(k)fluoranthene	U	110	500	0.20	110	42
50-32-8	Benzo(a)pyrene	U	110	500	0.20	110	48
193-39-5	Indeno(1,2,3-cd)pyrene	U	110	500	0.20	110	53
53-70-3	Dibenzo(a,h)anthracene	U	110	500	0.20	110	80
191-24-2	Benzo(g,h,i)perylene	U	110	500	0.20	110	42
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: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-5
Client ID: BRN-1120-MW13R-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.21	1.0	0.20	0.21	0.053
91-57-6	2-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.085
90-12-0	1-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.085
208-96-8	Acenaphthylene	U	0.21	1.0	0.20	0.21	0.053
83-32-9	Acenaphthene	U	0.21	1.0	0.20	0.21	0.085
86-73-7	Fluorene	U	0.21	1.0	0.20	0.21	0.064
85-01-8	Phenanthrene	U	0.21	1.0	0.20	0.21	0.085
120-12-7	Anthracene	U	0.21	1.0	0.20	0.21	0.085
206-44-0	Fluoranthene	U	0.21	1.0	0.20	0.21	0.12
129-00-0	Pyrene	U	0.21	1.0	0.20	0.21	0.096
56-55-3	Benzo(a)anthracene	U	0.21	1.0	0.20	0.21	0.13
218-01-9	Chrysene	U	0.21	1.0	0.20	0.21	0.074
205-99-2	Benzo(b)fluoranthene	U	0.21	1.0	0.20	0.21	0.096
207-08-9	Benzo(k)fluoranthene	U	0.21	1.0	0.20	0.21	0.085
50-32-8	Benzo(a)pyrene	U	0.21	1.0	0.20	0.21	0.096
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.21	1.0	0.20	0.21	0.11
53-70-3	Dibenzo(a,h)anthracene	U	0.21	1.0	0.20	0.21	0.16
191-24-2	Benzo(g,h,i)perylene	U	0.21	1.0	0.20	0.21	0.085
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		141%				
1718-52-1	Pyrene-d10		124%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-6
Client ID: BRN-1120-MW7-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		75%				
81103-79-9	Fluorene-d10		82%				
1718-52-1	Pyrene-d10		115%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 07/31/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-7DL
Client ID: BRN-1120-MW16R-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.97	5.0	0.20	0.97	0.24
91-57-6	2-Methylnaphthalene		5.6	5.0	0.20	0.97	0.39
90-12-0	1-Methylnaphthalene		2.3	5.0	0.20	0.97	0.39
208-96-8	Acenaphthylene	U	0.97	5.0	0.20	0.97	0.24
83-32-9	Acenaphthene	U	0.97	5.0	0.20	0.97	0.39
86-73-7	Fluorene	U	0.97	5.0	0.20	0.97	0.29
85-01-8	Phenanthrene	U	0.97	5.0	0.20	0.97	0.39
120-12-7	Anthracene	U	0.97	5.0	0.20	0.97	0.39
206-44-0	Fluoranthene	U	0.97	5.0	0.20	0.97	0.53
129-00-0	Pyrene	U	0.97	5.0	0.20	0.97	0.44
56-55-3	Benzo(a)anthracene	U	0.97	5.0	0.20	0.97	0.58
218-01-9	Chrysene	U	0.97	5.0	0.20	0.97	0.34
205-99-2	Benzo(b)fluoranthene	U	0.97	5.0	0.20	0.97	0.44
207-08-9	Benzo(k)fluoranthene	U	0.97	5.0	0.20	0.97	0.39
50-32-8	Benzo(a)pyrene	U	0.97	5.0	0.20	0.97	0.44
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.97	5.0	0.20	0.97	0.48
53-70-3	Dibenzo(a,h)anthracene	U	0.97	5.0	0.20	0.97	0.73
191-24-2	Benzo(g,h,i)perylene	U	0.97	5.0	0.20	0.97	0.39
7297-45-2	2-Methylnaphthalene-d10		52%				
81103-79-9	Fluorene-d10		72%				
1718-52-1	Pyrene-d10		134%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 08/06/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-8DL3
Client ID: BRN-1120-MW14R-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		52	200	0.20	44	11
91-57-6	2-Methylnaphthalene		150	200	0.20	44	18
90-12-0	1-Methylnaphthalene		160	200	0.20	44	18
208-96-8	Acenaphthylene	U	44	200	0.20	44	11
83-32-9	Acenaphthene	U	44	200	0.20	44	18
86-73-7	Fluorene	U	44	200	0.20	44	13
85-01-8	Phenanthrene	U	44	200	0.20	44	18
120-12-7	Anthracene	U	44	200	0.20	44	18
206-44-0	Fluoranthene	U	44	200	0.20	44	24
129-00-0	Pyrene	U	44	200	0.20	44	20
56-55-3	Benzo(a)anthracene	U	44	200	0.20	44	26
218-01-9	Chrysene	U	44	200	0.20	44	15
205-99-2	Benzo(b)fluoranthene	U	44	200	0.20	44	20
207-08-9	Benzo(k)fluoranthene	U	44	200	0.20	44	18
50-32-8	Benzo(a)pyrene	U	44	200	0.20	44	20
193-39-5	Indeno(1,2,3-cd)pyrene	U	44	200	0.20	44	22
53-70-3	Dibenzo(a,h)anthracene	U	44	200	0.20	44	33
191-24-2	Benzo(g,h,i)perylene	U	44	200	0.20	44	18
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: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 08/05/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-9DL
Client ID: BRN-1120-MW24-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	2.1	10	0.20	2.1	0.52
91-57-6	2-Methylnaphthalene		7.3	10	0.20	2.1	0.83
90-12-0	1-Methylnaphthalene		4.5	10	0.20	2.1	0.83
208-96-8	Acenaphthylene	U	2.1	10	0.20	2.1	0.52
83-32-9	Acenaphthene	U	2.1	10	0.20	2.1	0.83
86-73-7	Fluorene	J	0.70	10	0.20	2.1	0.62
85-01-8	Phenanthrene	U	2.1	10	0.20	2.1	0.83
120-12-7	Anthracene	U	2.1	10	0.20	2.1	0.83
206-44-0	Fluoranthene	U	2.1	10	0.20	2.1	1.1
129-00-0	Pyrene	U	2.1	10	0.20	2.1	0.94
56-55-3	Benzo(a)anthracene	U	2.1	10	0.20	2.1	1.2
218-01-9	Chrysene	U	2.1	10	0.20	2.1	0.73
205-99-2	Benzo(b)fluoranthene	U	2.1	10	0.20	2.1	0.94
207-08-9	Benzo(k)fluoranthene	U	2.1	10	0.20	2.1	0.83
50-32-8	Benzo(a)pyrene	U	2.1	10	0.20	2.1	0.94
193-39-5	Indeno(1,2,3-cd)pyrene	U	2.1	10	0.20	2.1	1.0
53-70-3	Dibenzo(a,h)anthracene	U	2.1	10	0.20	2.1	1.6
191-24-2	Benzo(g,h,i)perylene	U	2.1	10	0.20	2.1	0.83
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: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 06/30/03
Analysis Date: 08/06/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-9DL3
Client ID: BRN-1120-MW24-01
SDG: CTO302-1
Extracted by: AB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG2734
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	5.0	0.20	1.0	0.26
91-57-6	2-Methylnaphthalene		5.9	5.0	0.20	1.0	0.42
90-12-0	1-Methylnaphthalene		6.7	5.0	0.20	1.0	0.42
208-96-8	Acenaphthylene	J	0.74	5.0	0.20	1.0	0.26
83-32-9	Acenaphthene	U	1.0	5.0	0.20	1.0	0.42
86-73-7	Fluorene	J	0.70	5.0	0.20	1.0	0.31
85-01-8	Phenanthrene	U	1.0	5.0	0.20	1.0	0.42
120-12-7	Anthracene	U	1.0	5.0	0.20	1.0	0.42
206-44-0	Fluoranthene	U	1.0	5.0	0.20	1.0	0.57
129-00-0	Pyrene	U	1.0	5.0	0.20	1.0	0.47
56-55-3	Benzo(a)anthracene	U	1.0	5.0	0.20	1.0	0.62
218-01-9	Chrysene	U	1.0	5.0	0.20	1.0	0.36
205-99-2	Benzo(b)fluoranthene	U	1.0	5.0	0.20	1.0	0.47
207-08-9	Benzo(k)fluoranthene	U	1.0	5.0	0.20	1.0	0.42
50-32-8	Benzo(a)pyrene	U	1.0	5.0	0.20	1.0	0.47
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	5.0	0.20	1.0	0.52
53-70-3	Dibenzo(a,h)anthracene	U	1.0	5.0	0.20	1.0	0.78
191-24-2	Benzo(g,h,i)perylene	U	1.0	5.0	0.20	1.0	0.42
7297-45-2	2-Methylnaphthalene-d10		96%				
81103-79-9	Fluorene-d10		102%				
1718-52-1	Pyrene-d10		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/02/03
Analysis Date: 08/01/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-12RA
Client ID: BRN-1120-F.EQ-01
SDG: CTO302-1
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
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	0.080
90-12-0	1-Methylnaphthalene	J	0.10	1.0	0.20	0.20	0.080
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	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
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	0.090
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	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
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	0.080
4165-60-0	Nitrobenzene-D5		126%				
321-60-8	2-Fluorobiphenyl		63%				
1718-51-0	Terphenyl-D14		130%				

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample Id: WT1548-1
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW1-01	AQ	06/24/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U1.0 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	2 mg/L	1.0	EPA 415.1	07/08/03 13:32	CYD	N/A	N/A	N/A	

Notes

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample Id: WT1548-2
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW5R-01	AQ	06/24/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	8.2 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	3 mg/L	1.0	EPA 415.1	07/08/03 13:44	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1548-3
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW2-01	AQ	06/24/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.0 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	7.2 mg/L	1.0	EPA 415.1	07/08/03 13:56	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1548-4
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW4-01	AQ	06/24/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.4 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	13 mg/L	1.0	EPA 415.1	07/08/03 14:08	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1548-5
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW13R-01	AQ	06/25/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	7.2 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.7636 mg/L	1.0	EPA 415.1	07/08/03 14:20	CYD	N/A	N/A	N/A	1

Notes

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

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Report of Analytical Results

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

Lab Sample Id: WT1548-6
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW7-01	AQ	06/25/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.8 mg/L	1.0	EPA 375.4	07/14/03 14:01	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.6928 mg/L	1.0	EPA 415.1	07/08/03 14:56	CYD	N/A	N/A	N/A	1

Notes

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

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Report of Analytical Results

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

Lab Sample Id: WT1548-7
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW16R-01	AQ	06/25/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	7.4 mg/L	1.0	EPA 375.4	07/14/03 14:32	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.8686 mg/L	1.0	EPA 415.1	07/08/03 15:08	CYD	N/A	N/A	N/A	1

Notes

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

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Report of Analytical Results

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

Lab Sample Id: WT1548-8
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW14R-01	AQ	06/25/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	U2.0 mg/L	2.0	EPA 375.4	07/14/03 14:32	KGT	N/A	N/A	N/A	1
Total Organic Carbon	5.2 mg/L	1.0	EPA 415.1	07/08/03 15:20	CYD	N/A	N/A	N/A	

Notes

(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

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P.O. Box 720, Westbrook, ME 04098
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample Id: WT1548-9
Report Date: 7/16/03 4:54:38 PM
Client PO: MSA-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-1

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW24-01	AQ	06/25/2003	06/26/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.5 mg/L	1.0	EPA 375.4	07/14/03 14:32	KGT	N/A	N/A	N/A	
Total Organic Carbon	2 mg/L	1.0	EPA 415.1	07/08/03 15:32	CYD	N/A	N/A	N/A	

Notes

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/03/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-1
Client ID: BRN-1120-MW1-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
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		88%				
	O-Terphenyl		* 77%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-2
Client ID: BRN-1120-MW5R-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		620	1.0	500	500	270
	n-Triacontane-D62		94%				
	O-Terphenyl		* 75%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-3
Client ID: BRN-1120-MW2-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1600	1.0	500	500	270
	n-Triacontane-D62		95%				
	O-Terphenyl		* 76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/24/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-4
Client ID: BRN-1120-MW4-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3200	1.0	500	530	300
	n-Triacontane-D62		106%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-5
Client ID: BRN-1120-MW13R-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	510	1.0	500	510	290
	n-Triacontane-D62		114%				
	O-Terphenyl		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-6
Client ID: BRN-1120-MW7-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
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		105%				
	O-Terphenyl		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-7
Client ID: BRN-1120-MW16R-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	400	1.0	500	500	280
	n-Triacontane-D62		108%				
	O-Terphenyl		92%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-8
Client ID: BRN-1120-MW14R-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAN
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3800	1.0	500	500	280
	n-Triacontane-D62		107%				
	O-Terphenyl		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-9
Client ID: BRN-1120-MW24-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1200	1.0	500	520	290
	n-Triacontane-D62		101%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/25/03
Received Date: 06/26/03
Extraction Date: 07/01/03
Analysis Date: 07/03/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1548-12
Client ID: BRN-1120-F.EQ-01
SDG: CTO302-1
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		97%				
	O-Terphenyl		* 78%				

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

TO: **Mr. Gerry Walker** **DATE: August 12, 2003**

FROM: **Michael T. Akers** **CC: File**

SUBJECT: **Organic and Inorganic Validation – VOCs, PAHs, TRPH, SO_4, TOC**
CTO302 – NAS Pensacola
SDG 3022

SAMPLES: **10 / Aqueous / VOC / PAH / TRPH / SO_4 / TOC**

BRN-1120-MW17-01	**BRN-1120-MW18-01**	**BRN-1120-MW25-01**
BRN-1120-MW26-01	**BRN-1120-MW27-01**	**BRN-1120-MW28-01**
BRN-1120-MW32-01	**BRN-1120-MW35-01**	**BRN-1120-TB2-01**
BRN-1120-TB3-01		

OVERVIEW

The sample set for CTO302 SDG 3022, Naval Air Station Pensacola, Pensacola , Florida consists of ten (10) aqueous environmental samples. The environmental samples were analyzed for Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Petroleum Hydrocarbons (TRPH), Sulfate, and Total Organic Carbon (TOC). The two trip blanks (BRN-1120-TB2-01 and BRN-1120-TB3-01) were analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on June 26th, 2003 and analyzed by Katahdin Analytical Services. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 8260B (VOCs), USEPA 504.1 (EDB), SW-846 8270 SIM (PAHs), FDEP FL-PRO (TRPH), USEPA 375.4 (SO_4), and USEPA 415.1 (TOC) analytical and reporting protocol. The data in this SDG was validated with regard to the following parameters:

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

The symbol (*) indicates that all quality control criteria were met for this parameter.

VOC Fraction

- **Method Blank Analysis**

  Samples Affected: BRN-1120-MW18-01, BRN-1120-MW25-01, BRN-1120-TB2-01, and BRN-1120-TB3-01

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

Compound	Maximum Concentration(µg/L)	Action Level (µg/L)
Toluene	0.30	1.50
m&p-Xyene	0.30	1.50
o-Xylene	0.20	1.00
Total Xylenes	0.50	2.50

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

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

PAH Fraction

- All quality control criteria were met for this fraction.

TRPH Fraction

- All quality control criteria were met for this fraction.

Miscellaneous (TOC and Sulfate) Fraction

- **Method Blank Analysis**

  Samples Affected: All except BRN-1120-MW18-01

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

Compound	Maximum Concentration(mg/L)	Action Level (mg/L)
TOC	0.6114	3.057

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

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

Executive Summary

Laboratory performance:	Toluene, m&p-Xylene, and TOC were qualified as non-detected (U) in multiple samples due to laboratory method blank contamination.
Other factors affecting data quality:	None.

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

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

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

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: OV

nsample BRN-1120-MW17-01
samp_date 6/26/2003
lab_id WT1561-1
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

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

nsample BRN-1120-MW18-01
samp_date 6/26/2003
lab_id WT1561-3
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
M+P-XYLENES	1.0 ~~0.3~~	JB	U ~~JB~~	A
METHYL TERT-BUTYL ETHER	1	U	U	
O-XYLENE	1	U	U	
TOLUENE	1.0 ~~0.3~~	JB	U ~~JB~~	A
TOTAL XYLENES	1	U	U	

nsample BRN-1120-MW25-01
samp_date 6/26/2003
lab_id WT1561-5
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1			
M+P-XYLENES	1.0 ~~0.3~~	J	U ~~J~~	A
METHYL TERT-BUTYL ETHER	1	U	U	
O-XYLENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	1	U	U	

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW26-01
samp_date	6/26/2003
lab_id	WT1561-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW27-01
samp_date	6/26/2003
lab_id	WT1561-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW28-01
samp_date	6/26/2003
lab_id	WT1561-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-MW32-01
samp_date	6/26/2003
lab_id	WT1561-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW35-01
samp_date	6/26/2003
lab_id	WT1561-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-TB2-01
samp_date	6/6/2003
lab_id	WT1561-10
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U~~U~~	~~H~~
ETHYLBENZENE	1	U	U~~U~~	~~H~~
M+P-XYLENES	1	U	U~~U~~	~~H~~
METHYL TERT-BUTYL ETHER	1	U	U~~U~~	~~H~~
O-XYLENE	1	U	U~~U~~	~~H~~
TOLUENE	1.0 ~~0.4~~	J	W ~~J~~	~~HP~~ A
TOTAL XYLENES	1	U	U~~U~~	~~H~~

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: OV

nsample	BRN-1120-TB3-01
samp_date	6/6/2003
lab_id	WT1561-4
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	UJ	H
ETHYLBENZENE	1	U	UJ	H
M+P-XYLENES	1	U	UJ	H
METHYL TERT-BUTYL ETHER	1	U	UJ	H
O-XYLENE	1	U	UJ	H
TOLUENE	1.0 ~~0.8~~	J	UJ	~~H~~ P
TOTAL XYLENES	1	U	UJ	H

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW17-01	nsample	BRN-1120-MW18-01	nsample	BRN-1120-MW25-01
samp_date	6/26/2003	samp_date	6/26/2003	samp_date	7/29/2003
lab_id	WT1561-1	lab_id	WT1561-3	lab_id	WT1561-5DL3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids	0	Pct_Solids	0	Pct_Solids	0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.11	J	J	P
2-METHYLNAPHTHALENE	0.092	J	J	P
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	0.22	U	U	
2-METHYLNAPHTHALENE	0.22	U	U	
ACENAPHTHENE	0.22	U	U	
ACENAPHTHYLENE	0.22	U	U	
ANTHRACENE	0.22	U	U	
BENZO(A)ANTHRACENE	0.22	U	U	
BENZO(A)PYRENE	0.22	U	U	
BENZO(B)FLUORANTHENE	0.22	U	U	
BENZO(G,H,I)PERYLENE	0.22	U	U	
BENZO(K)FLUORANTHENE	0.22	U	U	
CHRYSENE	0.22	U	U	
DIBENZO(A,H)ANTHRACENE	0.22	U	U	
FLUORANTHENE	0.22	U	U	
FLUORENE	0.22	U	U	
INDENO(1,2,3-CD)PYRENE	0.22	U	U	
NAPHTHALENE	0.22	U	U	
PHENANTHRENE	0.22	U	U	
PYRENE	0.22	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	7.3			
2-METHYLNAPHTHALENE	20			
ACENAPHTHENE	1.9	U	U	
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	1.9	U	U	
INDENO(1,2,3-CD)PYRENE	1.9	U	U	
NAPHTHALENE	6			
PHENANTHRENE	1.9	U	U	
PYRENE	1.9	U	U	

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW26-01
samp_date	6/26/2003
lab_id	WT1561-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW27-01
samp_date	6/26/2003
lab_id	WT1561-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW28-01
samp_date	6/26/2003
lab_id	WT1561-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PAH

nsample	BRN-1120-MW32-01
samp_date	6/26/2003
lab_id	WT1561-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW35-01
samp_date	6/26/2003
lab_id	WT1561-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW17-01
samp_date	6/26/2003
lab_id	WT1561-1
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	400	J	J	P

nsample	BRN-1120-MW18-01
samp_date	6/26/2003
lab_id	WT1561-3
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1300			

nsample	BRN-1120-MW25-01
samp_date	6/26/2003
lab_id	WT1561-5
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	950			

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW26-01
samp_date	6/26/2003
lab_id	WT1561-6
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	520	U	U	

nsample	BRN-1120-MW27-01
samp_date	6/26/2003
lab_id	WT1561-2
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW28-01
samp_date	6/26/2003
lab_id	WT1561-8
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: PET

nsample	BRN-1120-MW32-01
samp_date	6/26/2003
lab_id	WT1561-9
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

nsample	BRN-1120-MW35-01
samp_date	6/26/2003
lab_id	WT1561-7
qc_type	NM
units	UG/L
Pct_Solids	0
DUP_OF:	

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

3022

HOLDING TIME

08/11/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	OV	06/26/03	07/02/03	07/02/03	6	0	6
UG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	OV	06/26/03	07/07/03	07/07/03	11	0	11
UG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	OV	06/26/03	07/03/03	07/03/03	7	0	7
UG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	OV	06/26/03	07/02/03	07/02/03	6	0	6
UG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-TB2-01	WT1561-10	NORMAL	3022	OV	06/06/03	07/08/03	07/08/03	32	0	32
UG/L	BRN-1120-TB3-01	WT1561-4	NORMAL	3022	OV	06/06/03	07/03/03	07/03/03	27	0	27
UG/L	WG2761-BLANK	WG2761-2	P BLANK	3022	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2761-LCS	WG2761-1	LCS	3022	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2781-BLANK	WG2781-2	P BLANK	3022	OV	/ /	07/03/03	07/03/03	0	0	0
%	WG2781-LCS	WG2781-1	LCS	3022	OV	/ /	07/03/03	07/03/03	0	0	0
UG/L	WG2783-BLANK	WG2783-2	P BLANK	3022	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2783-LCS	WG2783-1	LCS	3022	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2795-BLANK	WG2795-2	P BLANK	3022	OV	/ /	07/07/03	07/07/03	0	0	0
%	WG2795-LCS	WG2795-1	LCS	3022	OV	/ /	07/07/03	07/07/03	0	0	0
UG/L	WG2797-BLANK	WG2797-2	P BLANK	3022	OV	/ /	07/08/03	07/08/03	0	0	0
%	WG2797-LCS	WG2797-1	LCS	3022	OV	/ /	07/08/03	07/08/03	0	0	0
%	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW25-01	WT1561-5DL3	NORMAL	3022	PAH	06/26/03	07/02/03	08/06/03	6	35	41
%	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	WG2753-BLANK	WG2753-1	P BLANK	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCS	WG2753-2	LCS	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCSD	WG2753-3	LCSD	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
MG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW17-01DUP	WT1561-1 DUP	DUPLICATE	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
%	BRN-1120-MW17-01MS	WT1561-1 MS	MS	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	LABQC	MBLANK	LCS	3022	SO4	07/14/03	07/08/03	07/08/03	-6	0	-6
MG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW25-01DUP	WT1561-5 DUP	DUPLICATE	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
%	BRN-1120-MW25-01MS	WT1561-5 MS	MS	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	LABQC	MBLANK	LCS	3022	TOC	07/14/03	07/14/03	07/14/03	0	0	0
UG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	TPH	06/26/03	07/01/03	07/07/03	5	6	11
UG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	WG2746-BLANK	WG2746-1	P BLANK	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCS	WG2746-2	LCS	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCSD	WG2746-3	LCSD	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW17-01
samp_date	6/26/2003
lab_id	WT1561-1
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	5.8			
TOTAL ORGANIC CARBON	MG/L	1		U	A

nsample	BRN-1120-MW18-01
samp_date	6/26/2003
lab_id	WT1561-3
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	25			
TOTAL ORGANIC CARBON	MG/L	6.6			

nsample	BRN-1120-MW25-01
samp_date	6/26/2003
lab_id	WT1561-5
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3			
TOTAL ORGANIC CARBON	MG/L	2		U	A

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW26-01
samp_date	6/26/2003
lab_id	WT1561-6
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	6			
TOTAL ORGANIC CARBON	MG/L	1		U	A

nsample	BRN-1120-MW27-01
samp_date	6/26/2003
lab_id	WT1561-2
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	11			
TOTAL ORGANIC CARBON	MG/L	0.9552	J	U	A

nsample	BRN-1120-MW28-01
samp_date	6/26/2003
lab_id	WT1561-8
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	3.6			
TOTAL ORGANIC CARBON	MG/L	0.8211	J	U	A

PROJ_NO: 5967

SDG: 3022 MEDIA: WATER DATA FRACTION: MISC

nsample	BRN-1120-MW32-01
samp_date	6/26/2003
lab_id	WT1561-9
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	4.9			
TOTAL ORGANIC CARBON	MG/L	0.871	J	UJ	A

nsample	BRN-1120-MW35-01
samp_date	6/26/2003
lab_id	WT1561-7
qc_type	NM
Pct_Solids	0
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
SULFATE	MG/L	31			
TOTAL ORGANIC CARBON	MG/L	0.5829	J	UJ	A

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HOLDING TIME
08/11/03

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	OV	06/26/03	07/02/03	07/02/03	6	0	6
UG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	OV	06/26/03	07/07/03	07/07/03	11	0	11
UG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	OV	06/26/03	07/03/03	07/03/03	7	0	7
UG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	OV	06/26/03	07/02/03	07/02/03	6	0	6
UG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	OV	06/26/03	07/04/03	07/04/03	8	0	8
UG/L	BRN-1120-TB2-01	WT1561-10	NORMAL	3022	OV	06/06/03	07/08/03	07/08/03	32	0	32
UG/L	BRN-1120-TB3-01	WT1561-4	NORMAL	3022	OV	06/06/03	07/03/03	07/03/03	27	0	27
UG/L	WG2761-BLANK	WG2761-2	P BLANK	3022	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2761-LCS	WG2761-1	LCS	3022	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2781-BLANK	WG2781-2	P BLANK	3022	OV	/ /	07/03/03	07/03/03	0	0	0
%	WG2781-LCS	WG2781-1	LCS	3022	OV	/ /	07/03/03	07/03/03	0	0	0
UG/L	WG2783-BLANK	WG2783-2	P BLANK	3022	OV	/ /	07/02/03	07/02/03	0	0	0
%	WG2783-LCS	WG2783-1	LCS	3022	OV	/ /	07/02/03	07/02/03	0	0	0
UG/L	WG2795-BLANK	WG2795-2	P BLANK	3022	OV	/ /	07/07/03	07/07/03	0	0	0
%	WG2795-LCS	WG2795-1	LCS	3022	OV	/ /	07/07/03	07/07/03	0	0	0
UG/L	WG2797-BLANK	WG2797-2	P BLANK	3022	OV	/ /	07/08/03	07/08/03	0	0	0
%	WG2797-LCS	WG2797-1	LCS	3022	OV	/ /	07/08/03	07/08/03	0	0	0
%	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW25-01	WT1561-5DL3	NORMAL	3022	PAH	06/26/03	07/02/03	08/06/03	6	35	41
%	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
%	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	PAH	06/26/03	07/02/03	07/08/03	6	6	12
%	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	PAH	06/26/03	07/02/03	08/01/03	6	30	36
%	WG2753-BLANK	WG2753-1	P BLANK	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCS	WG2753-2	LCS	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
%	WG2753-LCSD	WG2753-3	LCSD	3022	PAH	07/02/03	07/02/03	07/08/03	0	6	6
MG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW17-01DUP	WT1561-1 DUP	DUPLICATE	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
%	BRN-1120-MW17-01MS	WT1561-1 MS	MS	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	SO4	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	LABQC	MBLANK	LCS	3022	SO4	07/14/03	07/08/03	07/08/03	-6	0	-6
MG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW25-01DUP	WT1561-5 DUP	DUPLICATE	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
%	BRN-1120-MW25-01MS	WT1561-5 MS	MS	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	TOC	06/26/03	07/08/03	07/08/03	12	0	12
MG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	TOC	06/26/03	07/14/03	07/14/03	18	0	18
MG/L	LABQC	MBLANK	LCS	3022	TOC	07/14/03	07/14/03	07/14/03	0	0	0
UG/L	BRN-1120-MW17-01	WT1561-1	NORMAL	3022	TPH	06/26/03	07/01/03	07/07/03	5	6	11
UG/L	BRN-1120-MW18-01	WT1561-3	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW25-01	WT1561-5	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW26-01	WT1561-6	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW27-01	WT1561-2	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW28-01	WT1561-8	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW32-01	WT1561-9	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	BRN-1120-MW35-01	WT1561-7	NORMAL	3022	TPH	06/26/03	07/01/03	07/08/03	5	7	12
UG/L	WG2746-BLANK	WG2746-1	P BLANK	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCS	WG2746-2	LCS	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2
%	WG2746-LCSD	WG2746-3	LCSD	3022	TPH	07/01/03	07/01/03	07/03/03	0	2	2

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 0311

PAGE ____ OF ____

PROJECT NO:	N 5965
FACILITY:	OLF Bronson
SAMPLERS (SIGNATURE)	Charles M[illegible]
PROJECT MANAGER	Gerry Walker
PHONE NUMBER	850 385 9899
FIELD OPERATIONS LEADER	DAVID SIEGFRIED
PHONE NUMBER	904 636 - 6125
CARRIER/WAYBILL NUMBER	Fed Ex
LABORATORY NAME AND CONTACT:	Ks Hardin Lab / Andrea Colby
ADDRESS	340 Country Rd #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 MW-	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	Sulfate				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)																	
PRESERVATIVE USED																	
6/26	1050	BRN-1120-MW17-01	17			GW		10	3	2	2	2	1				
6/26	1130	BRN-1120-MW27-01	27			GW		10	3	2	2	2	1			X	RUSH TAT
6/26	1130	BRN-1120-MW18-01	18			GW		10	3	2	2	2	1				Have results By 7-8-03
6/06	0902	BRN-1120-TB3-01	TB3			QC		2	2								
																	Cool to 4°C

1. RELINQUISHED BY		DATE 6/26/03	TIME 1830	1. RECEIVED BY	DATE 6/27/03 TIME 0950
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY	DATE TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY	DATE TIME
COMMENTS					

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

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TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 0318

PAGE ___ OF ___

PROJECT NO: N5965

FACILITY: Brunson OLF Pensacola Site 1120

SAMPLERS (SIGNATURE): R.O.S.C. Charles Mer

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 850-385-9899

FIELD OPERATIONS LEADER: David Siefken

PHONE NUMBER: 904-636-6125

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: Katahdin Labs / Andrea Colby

ADDRESS: 340 County Rd #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 MW-	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	TOC	Sulfate				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL	-	HCL	H_2SO_4	H_2SO_4				
6/26	0830	BRN-1120-MW25-01	MW25			GW		10	3	2	2	2	1				Cool to 4° C
6/26	0850	BRN-1120-MW26-01	26			GW		10	3	2	2	2	1				
6/26	0955	BRN-1120-MW35-01	35			GW		10	3	2	2	2	1				
6/26	1250	BRN-1120-MW28-01	28			GW		10	3	2	2	2	1				
6/26	1300	BRN-1120-MW32-01	32			GW		10	3	2	2	2	1				
6/26	0900	BRN-1120-TB2-01	TB-2			QC		2	2								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	6-26-03	1630	1. RECEIVED BY	6/27/03	0955
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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

4/02R

TETRA TECH NUS, INC.

W 1 rse 1

CHAIN OF CUSTODY

NUMBER 0311

PAGE ___ OF ___

PROJECT NO: N5965

FACILITY: OLF Bronson

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 850 385 9899

LABORATORY NAME AND CONTACT: Keystone Lab / Andrea Colby

SAMPLERS (SIGNATURE): Charles M[illegible]

FIELD OPERATIONS LEADER: DAVID SIEFKEN

PHONE NUMBER: 904 636 - 6125

ADDRESS: 340 Country Rd #5

CARRIER/WAYBILL NUMBER: Fed Ex

CITY, STATE: Westbrook, ME 04092

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

CONTAINER TYPE PLASTIC (P) or GLASS (G)

PRESERVATIVE USED

TYPE OF ANALYSIS

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID MW-	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	Sulfate			COMMENTS
6/26	1050	BRN-1120-MW17-01	17			GW		10	3	2	2	2	1			
6/26	1130	BRN-1120-MW27-01	27			GW		10	3	2	2	2	1			
6/26	1130	BRN-1120-MW18-01	18			GW		10	3	2	2	2	1			RUSH TAT
6/06	0902	BRN-1120-TB3-01	TB3			QC		2	2							Have results By 7-8-03
																Cool to 4°C

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	6/26/03	1830	1. RECEIVED BY [signature]	6/27/03	0950
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		
COMMENTS					

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TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 0318

PAGE ___ OF ___

PROJECT NO: N5965

FACILITY: Brunswick OLF Pensacola Site 1120

SAMPLERS (SIGNATURE): R.O.S. Charles Moore

PROJECT MANAGER: Gerry Walker

PHONE NUMBER: 850-385-9899

FIELD OPERATIONS LEADER: David Siefken

PHONE NUMBER: 904-636-6125

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: Katahdin Labs / Andrea Colby

ADDRESS: 340 County Rd 25

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 MW-	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	Sulfate				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G	G	G	P				
PRESERVATIVE USED									HCL	-	HCL	H_2SO_4	H_2SO_4				
TYPE OF ANALYSIS									8260B		8310						
6/26	0830	BRW-1120-MW25-01	MW 25			GW		10	3	2	2	2	1				Cool to 4° C
6/26	0850	BRW-1120-MW26-01	26			GW		10	3	2	2	2	1				
6/26	0955	BRW-1120-MW35-01	35			GW		10	3	2	2	2	1				
6/26	1250	BRW-1120-MW28-01	28			GW		10	3	2	2	2	1				
6/26	1300	BRW-1120-MW32-01	32			GW		10	3	2	2	2	1				
6/26	0900	BRW-1120-TB2-01	TB-2			QC		2	2								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	6-26-03	1630	1. RECEIVED BY	6/27/03	8:15
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

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

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/02/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-1
Client ID: BRN-1120-MW17-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG2761
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		114%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/02/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-2
Client ID: BRN-1120-MW27-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG2761
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		118%				
17060-07-0	1,2-Dichloroethane-D4		121%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/07/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-3
Client ID: BRN-1120-MW18-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2795
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	JB	0.3	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	JB	0.3	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		86%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/06/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-4
Client ID: BRN-1120-TB3-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2783
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		128%				
17060-07-0	1,2-Dichloroethane-D4		134%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/03/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-5
Client ID: BRN-1120-MW25-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	J	0.3	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		86%				
17060-07-0	1,2-Dichloroethane-D4		82%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-6
Client ID: BRN-1120-MW26-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		86%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-7
Client ID: BRN-1120-MW35-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-8
Client ID: BRN-1120-MW28-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/04/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-9
Client ID: BRN-1120-MW32-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: NB
Analysis Method: SW846 8260B
Lab Prep Batch: WG2781
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		87%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/06/03
Received Date: 06/27/03
Extraction Date:
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-10
Client ID: BRN-1120-TB2-01
SDG: CTO302-2
Extracted by:
Extraction Method: SW846 5030
Analyst: JAW
Analysis Method: SW846 8260B
Lab Prep Batch: WG2797
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	1	1.0	1	1	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		85%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 07/08/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-1
Client ID: BRN-1120-MW17-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
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	J	0.092	1.0	0.20	0.20	0.081
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	0.081
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.061
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.081
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.081
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	0.091
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	0.071
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.091
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.081
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.091
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
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	0.081
90-12-0	1-Methylnaphthalene	J	0.11	1.0	0.20	0.20	0.081
4165-60-0	Nitrobenzene-D5		63%				
321-60-8	2-Fluorobiphenyl		40%				
1718-51-0	Terphenyl-D14		68%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 07/08/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-2
Client ID: BRN-1120-MW27-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
4165-60-0	Nitrobenzene-D5		46%				
321-60-8	2-Fluorobiphenyl		35%				
1718-51-0	Terphenyl-D14		63%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 07/08/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-3
Client ID: BRN-1120-MW18-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JJC
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.22	1.0	0.20	0.22	0.054
91-57-6	2-Methylnaphthalene	U	0.22	1.0	0.20	0.22	0.087
208-96-8	Acenaphthylene	U	0.22	1.0	0.20	0.22	0.054
83-32-9	Acenaphthene	U	0.22	1.0	0.20	0.22	0.087
86-73-7	Fluorene	U	0.22	1.0	0.20	0.22	0.065
85-01-8	Phenanthrene	U	0.22	1.0	0.20	0.22	0.087
120-12-7	Anthracene	U	0.22	1.0	0.20	0.22	0.087
206-44-0	Fluoranthene	U	0.22	1.0	0.20	0.22	0.12
129-00-0	Pyrene	U	0.22	1.0	0.20	0.22	0.098
56-55-3	Benzo(a)anthracene	U	0.22	1.0	0.20	0.22	0.13
218-01-9	Chrysene	U	0.22	1.0	0.20	0.22	0.076
205-99-2	Benzo(b)fluoranthene	U	0.22	1.0	0.20	0.22	0.098
207-08-9	Benzo(k)fluoranthene	U	0.22	1.0	0.20	0.22	0.087
50-32-8	Benzo(a)pyrene	U	0.22	1.0	0.20	0.22	0.098
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.22	1.0	0.20	0.22	0.11
53-70-3	Dibenzo(a,h)anthracene	U	0.22	1.0	0.20	0.22	0.16
191-24-2	Benzo(g,h,i)perylene	U	0.22	1.0	0.20	0.22	0.087
90-12-0	1-Methylnaphthalene	U	0.22	1.0	0.20	0.22	0.087
4165-60-0	Nitrobenzene-D5		47%				
321-60-8	2-Fluorobiphenyl		39%				
1718-51-0	Terphenyl-D14		50%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 07/29/03
Received Date: 07/27/03
Extraction Date: 07/02/03
Analysis Date: 08/06/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-5DL3
Client ID: BRN-1120-MW25-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		6.0	10	0.20	1.9	0.48
91-57-6	2-Methylnaphthalene		17	10	0.20	1.9	0.77
90-12-0	1-Methylnaphthalene		7.3	10	0.20	1.9	0.77
208-96-8	Acenaphthylene	U	1.9	10	0.20	1.9	0.48
83-32-9	Acenaphthene	U	1.9	10	0.20	1.9	0.77
86-73-7	Fluorene	U	1.9	10	0.20	1.9	0.58
85-01-8	Phenanthrene	U	1.9	10	0.20	1.9	0.77
120-12-7	Anthracene	U	1.9	10	0.20	1.9	0.77
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	0.86
56-55-3	Benzo(a)anthracene	U	1.9	10	0.20	1.9	1.2
218-01-9	Chrysene	U	1.9	10	0.20	1.9	0.67
205-99-2	Benzo(b)fluoranthene	U	1.9	10	0.20	1.9	0.86
207-08-9	Benzo(k)fluoranthene	U	1.9	10	0.20	1.9	0.77
50-32-8	Benzo(a)pyrene	U	1.9	10	0.20	1.9	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.9	10	0.20	1.9	0.96
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	0.77
4165-60-0	Nitrobenzene-D5		D				
321-60-8	2-Fluorobiphenyl		D				
1718-51-0	Terphenyl-D14		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 08/01/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-6
Client ID: BRN-1120-MW26-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.21	1.0	0.20	0.21	0.052
91-57-6	2-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.083
90-12-0	1-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.083
208-96-8	Acenaphthylene	U	0.21	1.0	0.20	0.21	0.052
83-32-9	Acenaphthene	U	0.21	1.0	0.20	0.21	0.083
86-73-7	Fluorene	U	0.21	1.0	0.20	0.21	0.062
85-01-8	Phenanthrene	U	0.21	1.0	0.20	0.21	0.083
120-12-7	Anthracene	U	0.21	1.0	0.20	0.21	0.083
206-44-0	Fluoranthene	U	0.21	1.0	0.20	0.21	0.11
129-00-0	Pyrene	U	0.21	1.0	0.20	0.21	0.094
56-55-3	Benzo(a)anthracene	U	0.21	1.0	0.20	0.21	0.12
218-01-9	Chrysene	U	0.21	1.0	0.20	0.21	0.073
205-99-2	Benzo(b)fluoranthene	U	0.21	1.0	0.20	0.21	0.094
207-08-9	Benzo(k)fluoranthene	U	0.21	1.0	0.20	0.21	0.083
50-32-8	Benzo(a)pyrene	U	0.21	1.0	0.20	0.21	0.094
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.21	1.0	0.20	0.21	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.21	1.0	0.20	0.21	0.16
191-24-2	Benzo(g,h,i)perylene	U	0.21	1.0	0.20	0.21	0.083
4165-60-0	Nitrobenzene-D5		65%				
321-60-8	2-Fluorobiphenyl		56%				
1718-51-0	Terphenyl-D14		133%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 08/01/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-7
Client ID: BRN-1120-MW35-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
4165-60-0	Nitrobenzene-D5		43%				
321-60-8	2-Fluorobiphenyl		46%				
1718-51-0	Terphenyl-D14		121%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 08/01/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-8
Client ID: BRN-1120-MW28-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.21	1.0	0.20	0.21	0.052
91-57-6	2-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.083
90-12-0	1-Methylnaphthalene	U	0.21	1.0	0.20	0.21	0.083
208-96-8	Acenaphthylene	U	0.21	1.0	0.20	0.21	0.052
83-32-9	Acenaphthene	U	0.21	1.0	0.20	0.21	0.083
86-73-7	Fluorene	U	0.21	1.0	0.20	0.21	0.062
85-01-8	Phenanthrene	U	0.21	1.0	0.20	0.21	0.083
120-12-7	Anthracene	U	0.21	1.0	0.20	0.21	0.083
206-44-0	Fluoranthene	U	0.21	1.0	0.20	0.21	0.11
129-00-0	Pyrene	U	0.21	1.0	0.20	0.21	0.094
56-55-3	Benzo(a)anthracene	U	0.21	1.0	0.20	0.21	0.12
218-01-9	Chrysene	U	0.21	1.0	0.20	0.21	0.073
205-99-2	Benzo(b)fluoranthene	U	0.21	1.0	0.20	0.21	0.094
207-08-9	Benzo(k)fluoranthene	U	0.21	1.0	0.20	0.21	0.083
50-32-8	Benzo(a)pyrene	U	0.21	1.0	0.20	0.21	0.094
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.21	1.0	0.20	0.21	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.21	1.0	0.20	0.21	0.16
191-24-2	Benzo(g,h,i)perylene	U	0.21	1.0	0.20	0.21	0.083
4165-60-0	Nitrobenzene-D5		53%				
321-60-8	2-Fluorobiphenyl		47%				
1718-51-0	Terphenyl-D14		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/02/03
Analysis Date: 08/01/03
Report Date: 08/06/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-9
Client ID: BRN-1120-MW32-01
SDG: CTO302-2
Extracted by: MF
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG2753
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
4165-60-0	Nitrobenzene-D5		41%				
321-60-8	2-Fluorobiphenyl		70%				
1718-51-0	Terphenyl-D14		111%				

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

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

Lab Sample Id: WT1561-1
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW17-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	5.8 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	07/08/03 15:44	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1561-2
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW27-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	11 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.9552 mg/L	1.0	EPA 415.1	07/08/03 15:56	CYD	N/A	N/A	N/A	1

Notes

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

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Report of Analytical Results

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

Lab Sample Id: WT1561-3
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW18-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	25 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	6.6 mg/L	1.0	EPA 415.1	07/08/03 16:08	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1561-5
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW25-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	2 mg/L	1.0	EPA 415.1	07/14/03 16:02	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1561-6
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW26-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	6.0 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	1 mg/L	1.0	EPA 415.1	07/14/03 16:38	CYD	N/A	N/A	N/A	

Notes

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Report of Analytical Results

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

Lab Sample Id: WT1561-7
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW35-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	31 mg/L	5.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.5829 mg/L	1.0	EPA 415.1	07/14/03 16:50	CYD	N/A	N/A	N/A	1

Notes

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

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Report of Analytical Results

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

Lab Sample Id: WT1561-8
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW28-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	3.6 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.8211 mg/L	1.0	EPA 415.1	07/14/03 17:02	CYD	N/A	N/A	N/A	1

Notes

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

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

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

Lab Sample Id: WT1561-9
Report Date: 7/16/03 4:54:38 PM
Client PO: MAS-0402-N4113-05 N5967-WR348(SS)
Project: NAS PENSACOLA CTO 302
SDG: CTO302-2

Sample Description	Matrix	Date Sampled	Date Received
BRN-1120-MW32-01	AQ	06/26/2003	06/27/2003

Parameter	Result	Adj Pql	Method	Anal Date/Time	By	Prep Method	Prep Date	By	Notes
Sulfate-Turbidimetric	4.9 mg/L	1.0	EPA 375.4	07/08/03 16:02	KGT	N/A	N/A	N/A	
Total Organic Carbon	J0.871 mg/L	1.0	EPA 415.1	07/14/03 17:14	CYD	N/A	N/A	N/A	1

Notes

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

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/07/03
Report Date: 07/08/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-1
Client ID: BRN-1120-MW17-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	400	1.0	500	520	290
	n-Triacontane-D62		97%				
	O-Terphenyl		* 79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/08/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-2
Client ID: BRN-1120-MW27-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	260
	n-Triacontane-D62		102%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/08/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-3
Client ID: BRN-1120-MW18-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1300	1.0	500	520	290
	n-Triacontane-D62		101%				
	O-Terphenyl		82%				

Page 01 of 01 CTG2032.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-5
Client ID: BRN-1120-MW25-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		950	1.0	500	500	270
	n-Triacontane-D62		98%				
	O-Terphenyl		* 81%				

Page 01 of 01 CTG2033.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-6
Client ID: BRN-1120-MW26-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	520	1.0	500	520	290
	n-Triacontane-D62		110%				
	O-Terphenyl		95%				

Page 01 of 01 CTG2037.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-7
Client ID: BRN-1120-MW35-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
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		94%				
	O-Terphenyl		* 79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-8
Client ID: BRN-1120-MW28-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		130%				
	O-Terphenyl		107%				

Page 01 of 01 CTG2039.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NAS PENSACOLA CTO 302
PO No:
Sample Date: 06/26/03
Received Date: 06/27/03
Extraction Date: 07/01/03
Analysis Date: 07/08/03
Report Date: 07/23/2003
Matrix: WATER
% Solids: NA

Lab ID: WT1561-9
Client ID: BRN-1120-MW32-01
SDG: CTO302-2
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG2746
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		101%				
	O-Terphenyl		84%				