Rev. 1
01/29/01

Site Assessment Report
for
Old Gas Station (UST 14)

Naval Air Station Jacksonville
Jacksonville, Florida

Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order 0145

January 2002

Rev. 1
01/29/01

SITE ASSESSMENT REPORT
FOR
OLD GAS STATION (UST 14)

NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION-NAVY (CLEAN) CONTRACT

Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
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Pittsburgh, Pennsylvania 15220

CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0145

JANUARY 2002

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PROFESSIONAL REVIEW CERTIFICATION

The Site Assessment contained in this report was prepared using sound hydrogeologic principles and judgement. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment described in this report. This Site Assessment Report was developed for the Old Gasoline Station (UST 14) at Naval Air Station Jacksonville, Jacksonville, Florida, and should not be construed to apply to any other site.

Mark A. Peterson 11/29/02

Mark A. Peterson
Florida Professional Geologist
P.G. No. 0001852

TABLE OF CONTENTS

APPENDICES

TABLES

NUMBER **PAGE**

FIGURES

NUMBER **PAGE**

ACRONYMS

BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
bls	Below Land Surface
CLEAN III	Comprehensive Long-term Environmental Action Navy
CompQAP	Comprehensive Quality Assurance Plan
CTO	Contract Task Order
ºC	Degrees Celsius
DPT	Direct-push Technology
DRO	Diesel Range Organics
EDB	1,2-Dibromoethane
FAC	Florida Administrative Code
FECC	Florida Environmental Compliance Corporation
FDEP	Florida Department of Environmental Protection
FL-PRO	Florida Petroleum Range Organics
ft	Foot/Feet
ft/day	Feet per Day
ft/ft	Feet per Foot
ft/yr	Feet per Year
FID	Flame Ionization Detector
GCTLs	Groundwater Cleanup Target Levels
IAS	Initial Assessment Study
ID	Inside Diameter
IDW	Investigation Derived Waste
ILDs	Instrument Detection Limits
ml	Milliliter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
MTBE	Methyl Tert-Butyl Ether
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
NAS	Naval Air Station
Navy	United States Navy
OU	Operable Unit
OVA	Organic Vapor Analyzer
PAHs	Polynuclear Aromatic Hydrocarbons

ACRONYMS (Continued)

PSC	Potential Source of Contamination
ppm	Parts per Million
PWC	Public Works Center
PVC	Polyvinyl Chloride
SA	Site Assessment
SAR	Site Assessment Report
SCTLs	Soil Cleanup Target Levels
SOUTHNAVFACENGCOM	Southern Division, Naval Facilities Engineering Command
SPLP	Soil Precipitation Leaching Protocol
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
USTs	Underground Storage Tanks

EXECUTIVE SUMMARY

Tetra Tech NUS, Inc. (TtNUS) has completed a Site Assessment (SA) at the above-referenced facility in accordance with the requirements of Chapter 62-770, Florida Administrative Code (FAC). This assessment report is being submitted to the Florida Department of Environmental Protection (FDEP) for approval.

TtNUS performed the following tasks during the SA:

- Reviewed available United States Navy (Navy) documents and identified potential sources and receptors for petroleum hydrocarbons in the vicinity, evaluated private potable wells within a 0.25-mile radius and public water supply wells within a 0.5-mile radius, located nearby surface water bodies, and determined surface hydrology and drainage.

- Conducted a site survey to construct a site plan and collected two rounds of depth to groundwater measurements to evaluate the groundwater flow direction and gradient.

- Advanced 32 soil borings using Direct-Push Technology (DPT) and analyzed the soil and groundwater with a mobile laboratory.

- Installed nine shallow monitoring wells and two deep well for analysis of the constituents included in the Gasoline and Kerosene Analytical Groups.

- Surveyed monitoring well top of casing elevations.

- Referenced and obtained the appropriate aquifer data from the United States Geological Survey (USGS) to determine aquifer characteristics at Naval Air Station (NAS) Jacksonville.

The results of the soil vapor analysis during the SA revealed "excessively contaminated" soil, as defined by Chapter 62-770.200, FAC in two areas: the former pump island and UST 26-4. Soil samples collected for laboratory analysis at these two locations confirmed soil vapor analysis results. At the former pump island and UST 26-4, confirmatory soil sample analytical results exceeded the residential direct exposure soil cleanup target levels (SCTLs) for total recoverable petroleum hydrocarbons (TRPH). At the same locations, soil samples exceeded leachability based SCTLS for volatile and semi-volatile compounds and for TRPH. An estimated soil contamination plume has been illustrated on Figure 3-1 on this document.

The results of the SA revealed hydrocarbon-impacted groundwater that exceeded groundwater cleanup target levels (GCTLs) in MW-01 and MW-03, but less than the natural attenuation default source concentration standards.

Based on the results of the SA, TtNUS recommends that a Remedial Action Plan be prepared for the removal of soil at the locations of the former pump island and UST 26-4 as a result of the exceedance of residential direct exposure SCTLs. TtNUS recommends that a Natural Attenuation Monitoring Plan be implemented for groundwater.

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

A SA was conducted by TtNUS for the Navy Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) under Contract Task Order (CTO) 0145, for the Comprehensive Long-term Environmental Action Navy (CLEAN III), Contract Number N62467-94-D-0888. The SA was conducted at the Old Gas Station (UST 14) site located near the northeast corner of Birmingham Avenue and Langley Street at NAS Jacksonville.

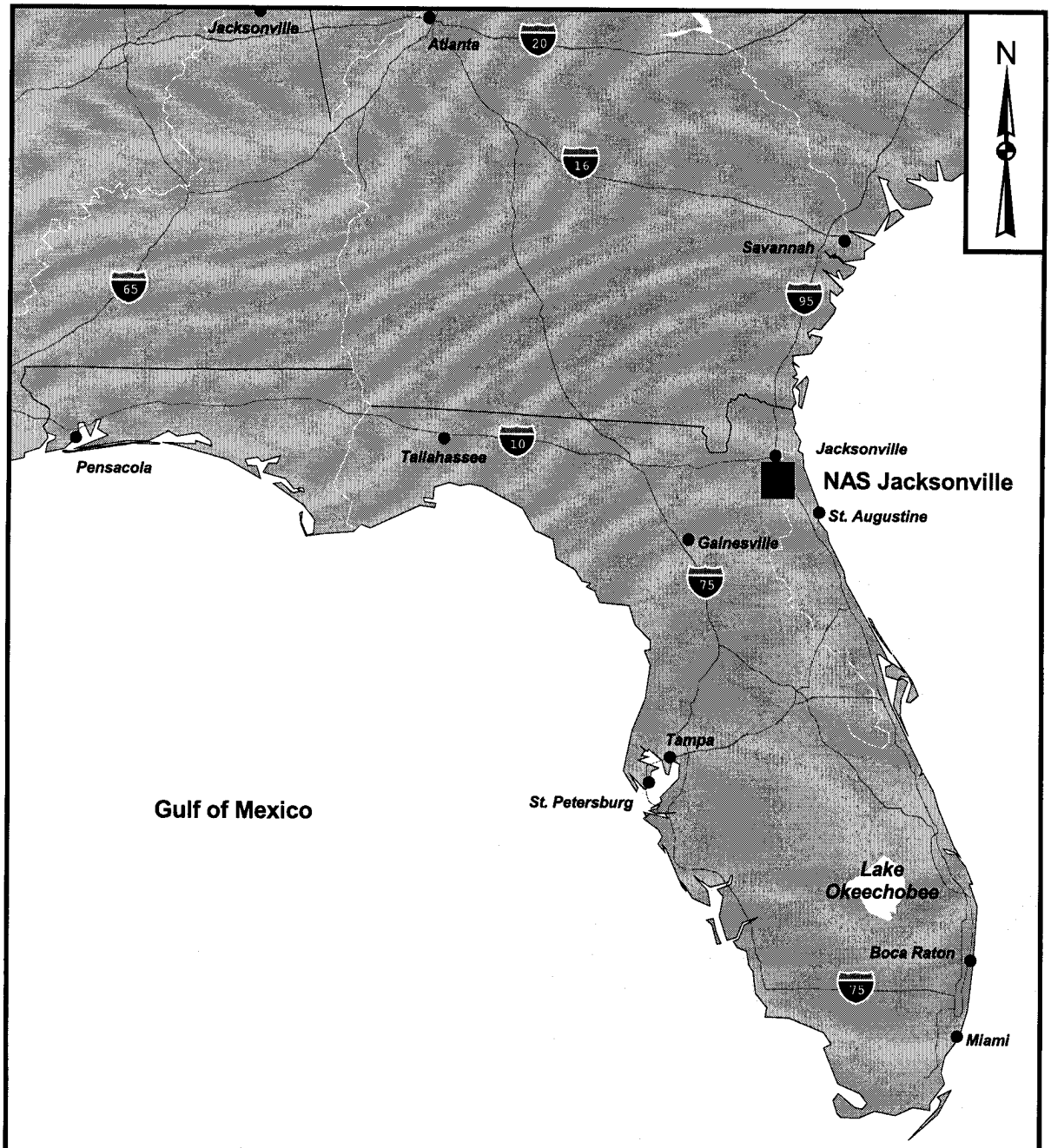
The purpose of this SA was to evaluate the extent of petroleum hydrocarbons in subsurface soils and groundwater in accordance with the requirements of Chapter 62-770, FAC. The Old Gas Station (UST 14) was previously investigated under the Installation Restoration Program as Potential Source of Contamination (PSC) 19 due to the presence of abandoned underground storage tanks (USTs) in close proximity to a potable water well, which was also abandoned. The tanks were reportedly installed in 1940 and were in operation until approximately 1970.

A SAR Summary Sheet is included in Appendix A.

1.2 SITE DESCRIPTION

1.2.1 Location

NAS Jacksonville is located in northeast Florida on the west bank of the St. Johns River, southwest of downtown Jacksonville, Florida as depicted on Figure 1-1. The St. Johns River borders the facility to the west and Highway 17 borders the facility to the east. Communities border the facility to the south, and a golf course borders the facility to the north. The Old Gas Station (UST 14) is located in the east-central portion of the base near the northeast corner of Birmingham and Langley Street as indicated on Figure 1-2. Mostly pavement and buildings cover this area of the base.



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DRAWN BY: J. LAMEY — DATE: 5/18/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	SITE VICINITY MAP OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
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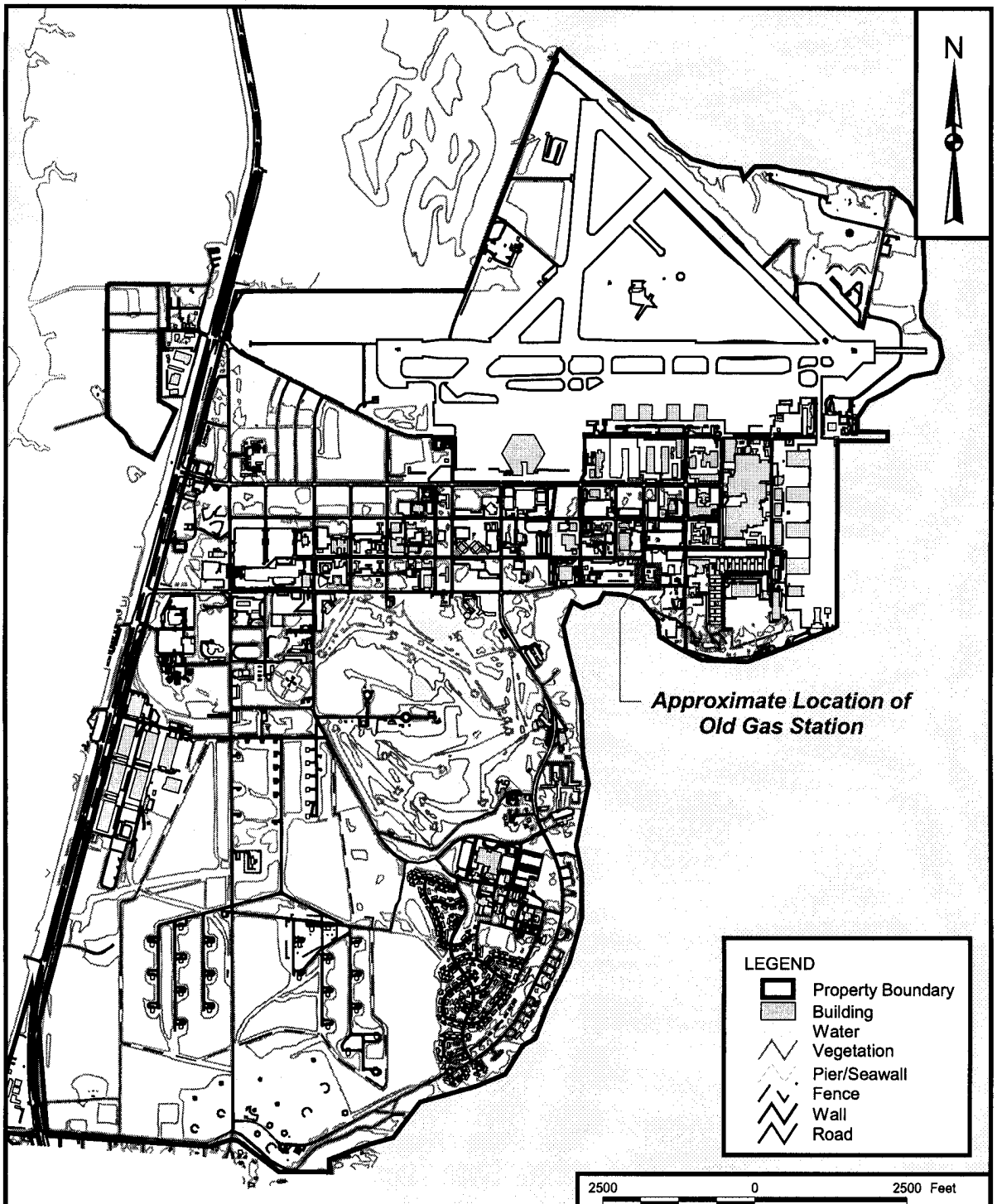

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COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 1-2	REV: 0

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1.2.2 Topography and Drainage

According to the USGS Map (Orange Park Quadrangle, Orange Park, Florida), the land surface elevation at the Old Gas Station (UST 14) varies from approximately 2 feet (ft) above mean sea level in the southern section, to a high of 10 ft above mean sea level just north of Building 26. The overall topography at the Old Gas Station (UST 14) slopes to the south towards the St. Johns River. Figure 1-3 is a photocopy of the USGS Physiographic Map.

1.2.3 Regional Geology and Hydrogeology

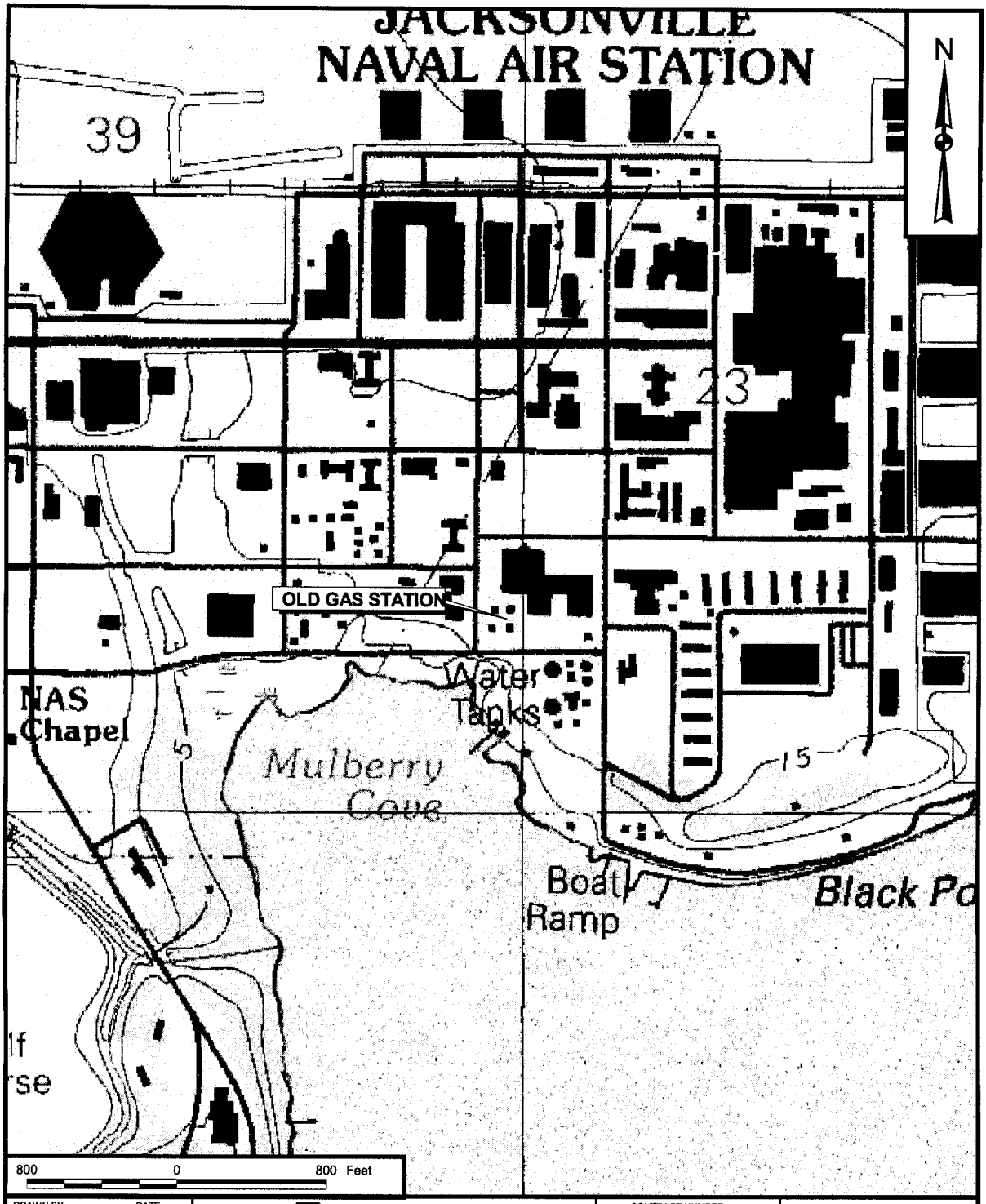
The surficial soil at the Old Gas Station (UST 14) consists of post-Miocene fluvial deposits including fine grained sand, silty sand, clayey sand, and sandy clay overlying the Hawthorn Group. The underlying Hawthorn Group is composed mainly of low permeability clays, which form the base of the surficial aquifer. The surficial aquifer is composed of Pliocene-aged sedimentary deposits. The surficial aquifer is recharged by rainfall and the average recharge rate is estimated to be 10 to 16 inches per year (USGS 1998). The depth to groundwater at the Old Gas Station (UST 14) ranged from approximately 2 to 6 ft below land surface (bls) during the investigation that occurred from March to September 2001.

1.2.4 Land Use

The Old Gas Station (UST 14) site is currently used by Morale, Welfare and Recreation, and is operated by a civilian contractor that performs various maintenance activities for the Navy. The site is depicted on Figure 1-4. Access to the Old Gas Station (UST 14) site is controlled through a chain link fence. The Old Gas Station (UST 14) site was used primarily as a service station from approximately 1940 to 1970.

1.2.5 Site Description

Mostly pavement and buildings cover the Old Gas Station (UST 14) area. The Building 48 area, which includes Building 931, is currently a canopy that appears to have been the previous location of a pump island. There is no visual evidence that the concrete in this area has been disturbed. The USTs associated with this building are believed to have been located immediately east of the building, beneath the recently constructed Building 25. The Building 26 area is also mostly paved. There are overhead utilities and the area is heavily used for small engine repair activities and storage.



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COST/SCHEDULE-AREA:		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 1-3	REV: 0

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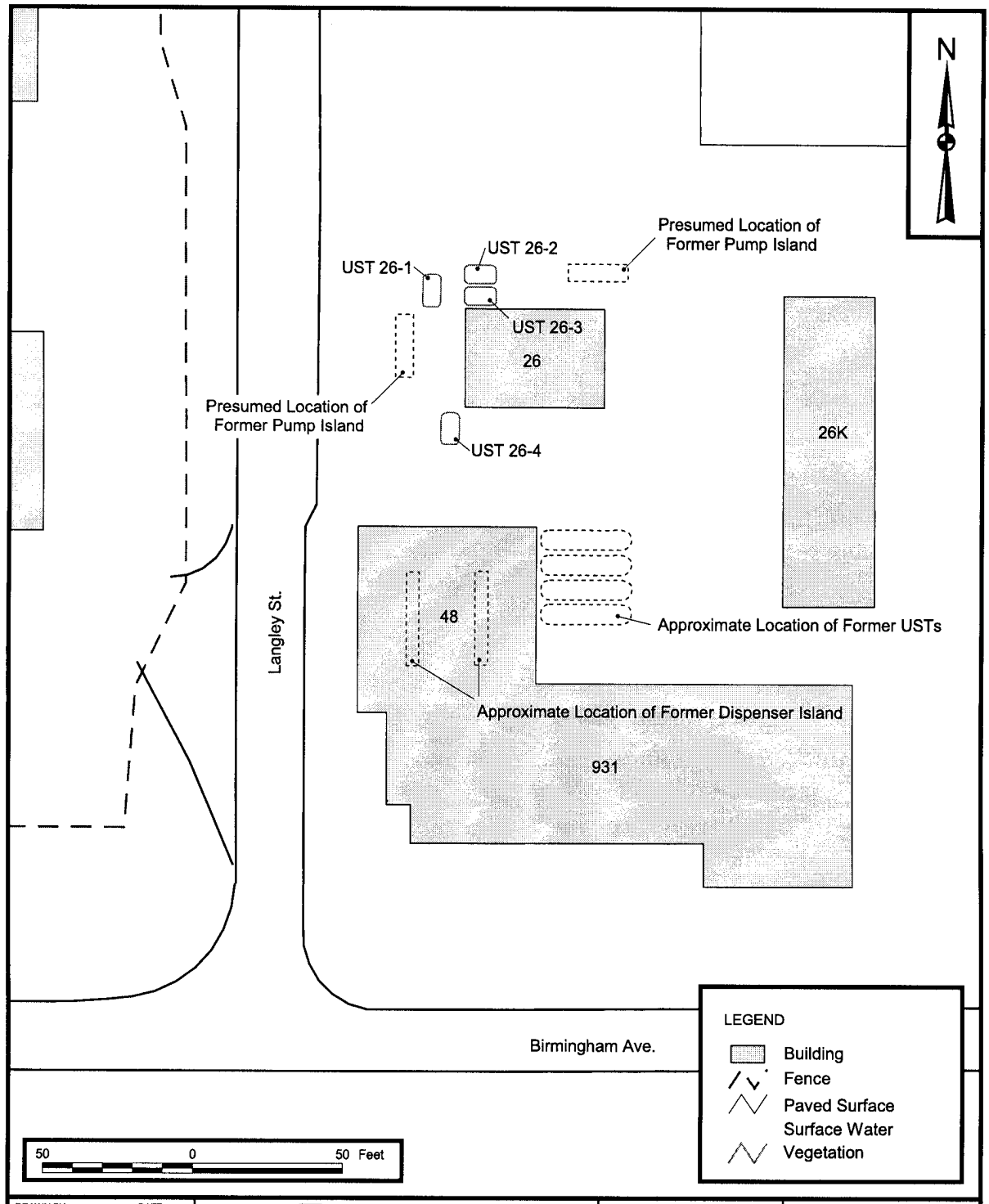

DRAWN BY: J. LAMEY — DATE: 5/7/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	SITE PLAN OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 1-4	REV: 0

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1.2.6 Potable Water Well Survey

The potable water supply information presented in this report was obtained through Mike Mantz, NAS Jacksonville Facilities and Environmental Department. Well construction and use data is summarized on Table 1-1. The three wells identified in close proximity are owned by the Navy Public Works Center (PWC). A map of the potable wells, in relation to the Old Gas Station site, is provided as Figure 1-5.

1.3 SITE HISTORY AND OPERATIONS

1.3.1 Site History

The Old Gas Station (UST 14) was built in 1957. Retail business for the station was conducted from Building 26. Four steel 2000-gallon USTs, formerly containing diesel fuel and gasoline, were situated around Building 26. These tanks were reportedly installed in 1940 and last used in 1970. The UST closure documentation indicates that the tanks were removed in February 1998. During closure, liquids were observed in each UST. Analytical results of the liquid indicated that USTs 26-2 and 26-3 had elevated concentrations of benzene. USTs 26-1, 26-2, and 26-3 were heavily corroded with numerous holes around the tank. UST 26-4 was moderately corroded. Elevated Flame Ionization Detector (FID) readings were noted in soil samples collected during the tank removals.

Three temporary monitoring wells were installed and sampled during the tank removal activities. Monitoring well TW-26-1 was installed in the excavation for UST 26-1. TW-26-2 was installed in the excavation for USTs 26-2 and 26-3. TW-26-3 was installed in the excavation for UST 26-4. The analytical results of the groundwater sampled from TW-26-3 reported ethylbenzene at 10 micrograms per liter (µg/L), trichloroethene at 2 µg/L, total xylenes at 26 µg/L, petroleum range organics at 0.36 milligrams per liter (mg/l), and lead at 0.004 mg/l. No other constituents were detected in the three samples collected.

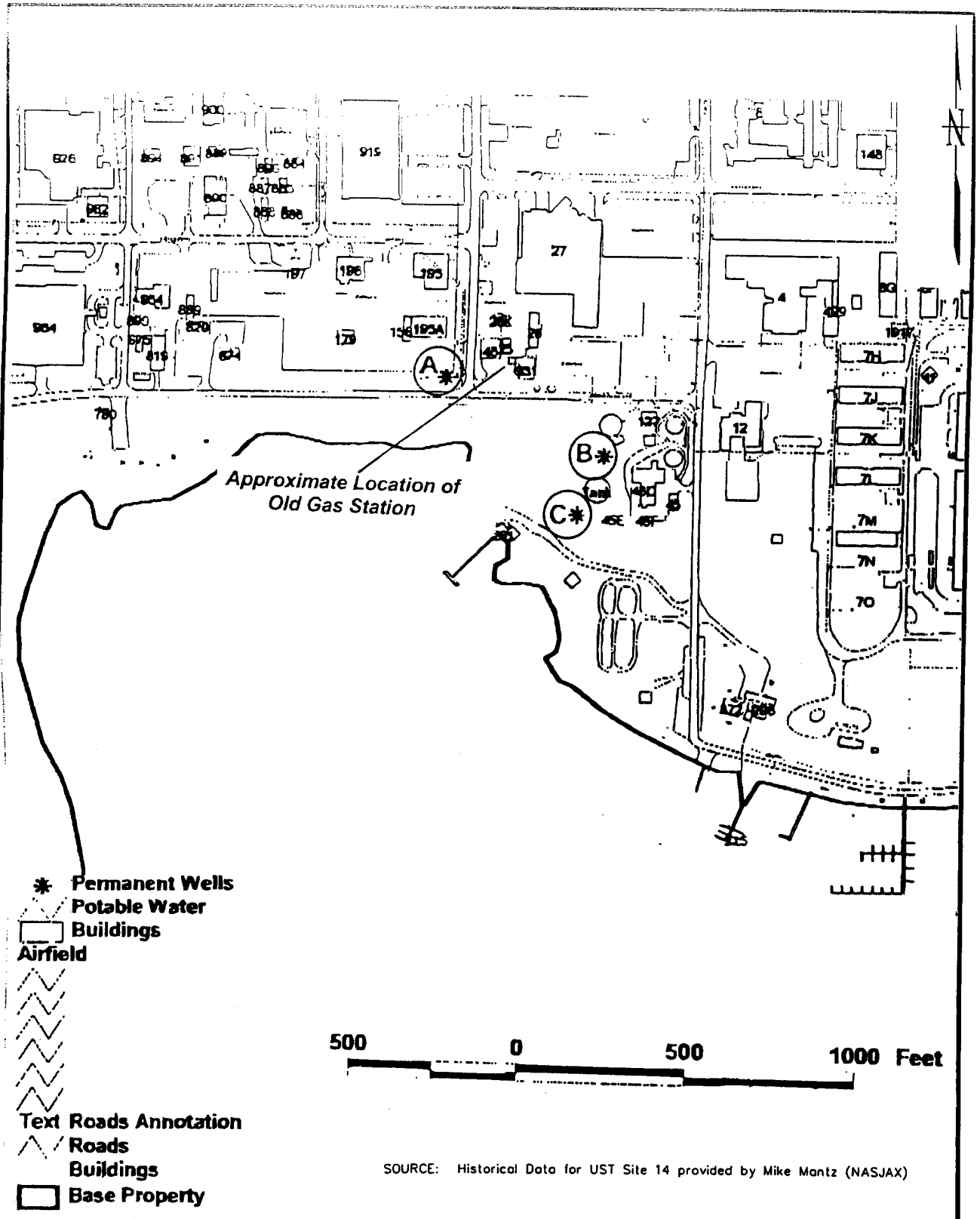
Four additional steel USTs, each with 10,000-gallon capacities, are associated with Building 48 and are located approximately 40 ft south of Building 26. In 1980, these USTs were taken out of service and closed when the fire department filled each tank with water. All fill pipes, cross-connecting lines, and vent pipes were removed and capped at that time. According to information from base personnel, the four USTs associated with Building 48 were excavated and removed in 1988.

Table 1-1
Potable Water Well Survey Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Well ID	Distance From Site (miles)	Diameter (inches)	Depth of Well (ft bls)	Use
A	300 ft	12	1,215	PWC-WTP #1
B	500 ft	18	1,200	PWC-WTP #1
C	700 ft	18	1,200	PWC-WTP #1
unknown	0.5	unknown	unknown	abandoned
unknown	0.5	unknown	unknown	abandoned
unknown	0.5	unknown	unknown	abandoned

Notes:
WTP = Water Treatment Plan



SOURCE: Historical Data for UST Site 14 provided by Mike Mantz (NASJAX)

DRAWN BY LK DATE 10/31/01		POTABLE WATER WELL MAP OLD GAS STATION (UST-14) NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NO. 3870
CHECKED BY DATE			APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-5 REV. 0

1.3.2 Initial Verification Study

During a verification study performed by Geraghty & Miller, Inc. in 1985, four USTs were identified, each having a capacity of 10,000 gallons. According to the verification study report, the tanks were abandoned in 1980 when the fire department completely filled each tank with water. All fill pipes, cross-connecting lines, and vent pipes were removed and capped. Although this action occurred prior to the 1984 promulgation of Chapter 17-61, FAC, which outlined the requirements for stationary tanks, Geraghty & Miller, Inc. recommended these tanks be abandoned or removed in accordance with this regulation. In addition, they recommended that all water contained in the tanks be pumped out for treatment at the wastewater treatment plant.

1.3.3 Closure Assessment

According to NAS Jacksonville Facilities and Environmental Department Personnel and existing literature, the four USTs associated with Building 48 were removed in 1988.

In February 1998, Environmental Detachment Charleston was contracted to perform the closure of USTs 26-1, 26-2, 26-3, and 26-4 located near Building 26 at NAS Jacksonville. The USTs and their associated piping and vents were removed on February 23, 1998. A Closure Assessment Report and Closure Assessment Form were filed in March 1998. The report stated the USTs were removed, drained, cut open at both ends, and cleaned with a steam cleaner. The USTs were then cut up for recycling as scrap metal and delivered to the NAS Jacksonville Recycling Center. Base personnel noted that UST 26-1 was heavily corroded and had numerous holes. The worst areas were noted to be on the west side and north end at approximately 1 ft above the bottom of the UST. USTs 26-2 and 26-3 were also noted to be heavily corroded, but had no visible holes. UST 26-4 was noted as being mildly corroded with four or five holes and pitting on the south end of the tank. NAS Jacksonville personnel sampled fluid in UST 26-1 through 26-4. Results indicated high levels of benzene in USTs 26-2 and 26-3. The fluid was pumped out by a contractor and transported to a treatment facility. After removal, soil samples were collected in each corner of the excavation and sent to Navy PWC Pensacola Laboratory for analysis. The results indicated no soil contamination was identified at a depth of 3 ft or less in the samples analyzed.

1.4 PURPOSE

The objective of the proposed field investigation is to determine if soil and/or groundwater have been adversely impacted by previous operations at the site. The data collected during the investigation was used to prepare this Site Assessment Report (SAR) as required by Chapter 62-770.600, FAC. This SAR provides a characterization of site conditions from which to base future courses of action.

2.0 SUBSURFACE INVESTIGATION METHODS

2.1 QUALITY ASSURANCE

The site investigation was conducted in accordance with the Standard Operating Procedures prescribed by the FDEP Quality Assurance Section Document DER-001/92 and adopted by the TtNUS Comprehensive Quality Assurance Plan (CompQAP) Number 980038.

2.2 SOIL BORING AND SAMPLING PROCEDURES

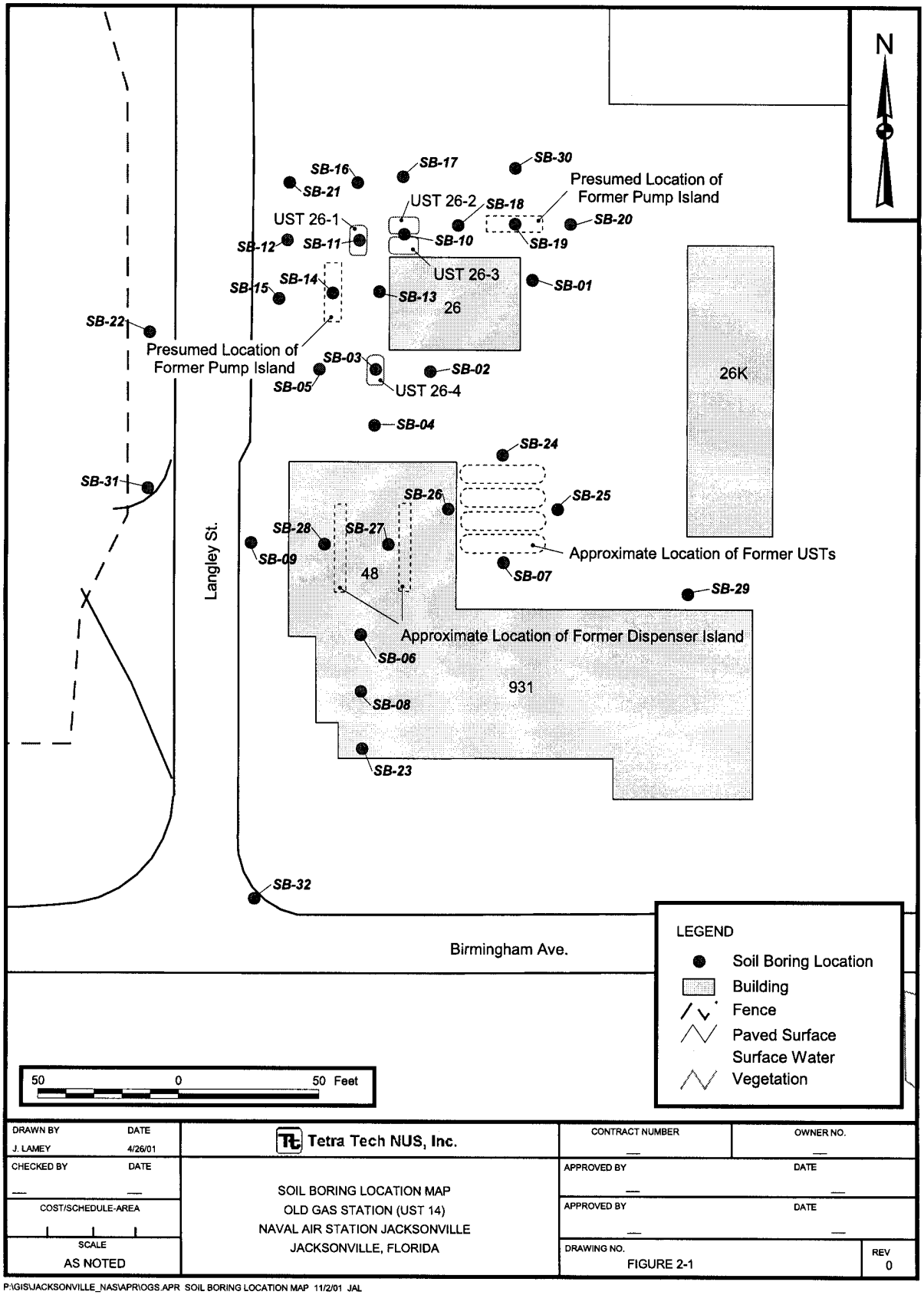
2.2.1 Direct-Push Soil Borings

A soil vapor assessment was conducted between March 5 and March 7, 2001. Thirty-two soil borings were advanced in and around the Old Gas Station (UST 14) area. Soil borings were advanced using a truck mounted, direct-push, hydraulic soil probe. Soil cores were collected using 2-ft long stainless steel split barrel samplers lined with plastic sleeves beginning at approximately 1 ft bls and continued at 2-ft intervals until approximately 1 ft into the saturated zone, typically at 4 to 6 ft in depth. Soil boring locations are depicted on Figure 2-1.

The cores were visually inspected and classified for lithology and evidence of staining. Soil samples were collected from each soil core and screened with an Organic Vapor Analyzer (OVA)-FID. Soil vapor analysis was performed in accordance with the headspace screening methodology prescribed by Chapter 62-770.200(2), FAC. This method of headspace screening is described in detail in Appendix B. A duplicate of the sample from the split spoon interval with the highest OVA-FID reading from above the water table was retained and analyzed by an onsite mobile laboratory for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tert-butyl ether (MTBE); naphthalene; 1-methylnaphthalene; 2-methylnaphthalene; and screening diesel range organics (DRO).

2.2.2 Hand Augered Soil Borings

On March 6, 2001, TtNUS advanced three soil borings (SB-26, SB-27, and SB-28), under the canopy area, using a stainless steel, 3-inch, inside diameter (ID) hand-auger. The soil borings were advanced to a depth of 5 ft bls, and soil samples were collected at 2-ft intervals and screened with an OVA-FID. Headspace data is discussed in Section 3.0. Soil vapor analysis was performed in accordance with the headspace screening method prescribed by Chapter 62-770.200(2), FAC. A duplicate sample from the interval with the highest OVA-FID reading was retained and analyzed by the mobile laboratory for BTEX, MTBE, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and screening DRO.



DRAWN BY: J. LAMEY — DATE: 4/26/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	SOIL BORING LOCATION MAP OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 2-1	REV: 0

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Investigation derived waste (IDW) was containerized in 55-gallon drums and removed by Florida Environmental Compliance Corporation (FECC). A copy of the manifest provided by FECC is included in Appendix C.

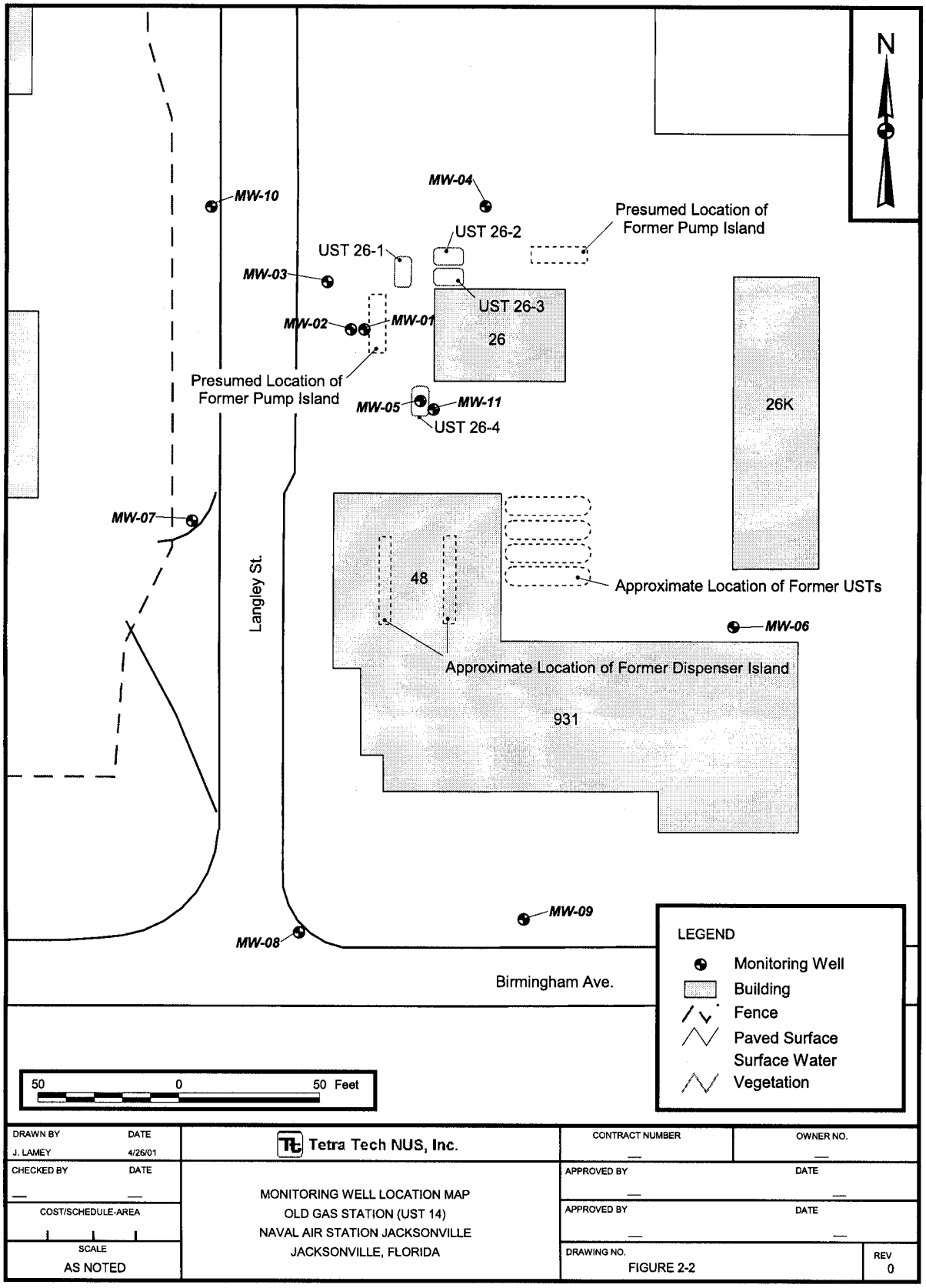
2.2.3 Monitoring Well Soil Borings

On March 8 and 9, 2001, nine monitoring wells (MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, and MW-09) were drilled by Partridge Well Drilling under the supervision of TtNUS personnel. Soil grab samples collected during borehole advancement were used to characterize the site lithology and to provide additional assessment data. The locations of the monitoring wells are shown on Figure 2-2. Soil boring logs are included in Appendix D.

On July 2, 2001, TtNUS personnel installed two additional monitoring wells (one upgradient well and one vertical extent monitoring well) at the Old Gas Station Site. The upgradient shallow well (MW-10) was installed across Langley Street approximately 60 ft northwest of MW-3 for further delineation to the northwest. The prior advanced boring (SB-33) was used for lithologic description to a depth of approximately 20 ft bls. MW-11, approximately 5 ft to the southeast of MW-5, was installed to a depth of 18 ft bls to further delineate the vertical extent of contamination from the previous Tank 26-4 location.

Underground utilities were cleared by base personnel and also investigated at each boring location by advancing the boring with a post hole digger from 0 to 4 ft bls. The borings were continued with a truck-mounted drill rig using 4 ¼-inch ID hollow-stem augers.

Soil cuttings generated during the well installations were placed in 55-gallon steel drums. A composite soil sample was collected from the drums and analyzed for BTEX, MTBE, and Resource Conservation and Recovery Act metals for pre-disposal characterization.



DRAWN BY: J. LAMEY — DATE: 4/26/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	MONITORING WELL LOCATION MAP OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
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2.3 WELL CONSTRUCTION

2.3.1 Monitoring Well Construction and Development

Monitoring wells were installed in select locations based on the DPT screening results. The monitoring wells were placed to provide spatial coverage around the site and to confirm the nature and extent of the hydrocarbon plume at the Old Gas Station (UST 14) area.

Monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10 and MW-11 were advanced using 4 ¼-inch ID hollow-stem augers. Each well was constructed of 2-inch ID flush threaded, schedule 40 polyvinyl chloride (PVC) solid riser and 0.010-inch slot well screen with a silt trap and well bottom cap.

The shallow wells (MW-02 through MW-10) were installed to approximately 13 ft with a 10-ft screened interval. The deep wells MW-01 and MW-11were installed to 22 ft bls and 18 ft bls respectively, with a 5-ft screened interval. Each annulus was filled to approximately 2 ft above the well screen with US Standard Sieve size 20/30 silica sand. The 20/30 sand was capped to about 1 ft bls with 30/65 sand. The remainder of the annulus was grouted to the surface with a cement/bentonite grout. Each well was secured with a locking, watertight cap within a steel, 8-inch diameter steel manhole. The manhole was set within a 24-inch square apron finished slightly above grade. A well construction diagram is included as Figure 2-3. Well completion logs are provided in Appendix E.

Each well was developed using a submersible pump. During well development, field measurements of pH, temperature, and specific conductance were monitored from the purge water generated. The wells were developed under supervision of a geologist up to a maximum of 1 hour or until the field measurements became stable and the purge water clear. Water quality stabilization was determined using the following criteria: temperature ±5 degrees Celsius (°C), pH ±0.1 unit, and specific conductance ±10 micro-ohms per centimeter (µmhos/cm). All development water was containerized for disposal in 55-gallon steel drums. The water in the drums was sampled prior to disposal.

2.4 LITHOLOGIC SAMPLING

Representative soil samples were collected during the DPT boring advancement to assess the shallow subsurface geologic conditions at the site. Samples used for lithologic description were collected from a stainless steel split spoon sampler lined with plastic sleeves. Grab samples from soil cuttings generated during monitoring well installations were also used for lithologic description. Seven split spoon samples were collected during the installation of MW-01 and six split spoon samples were collected from the

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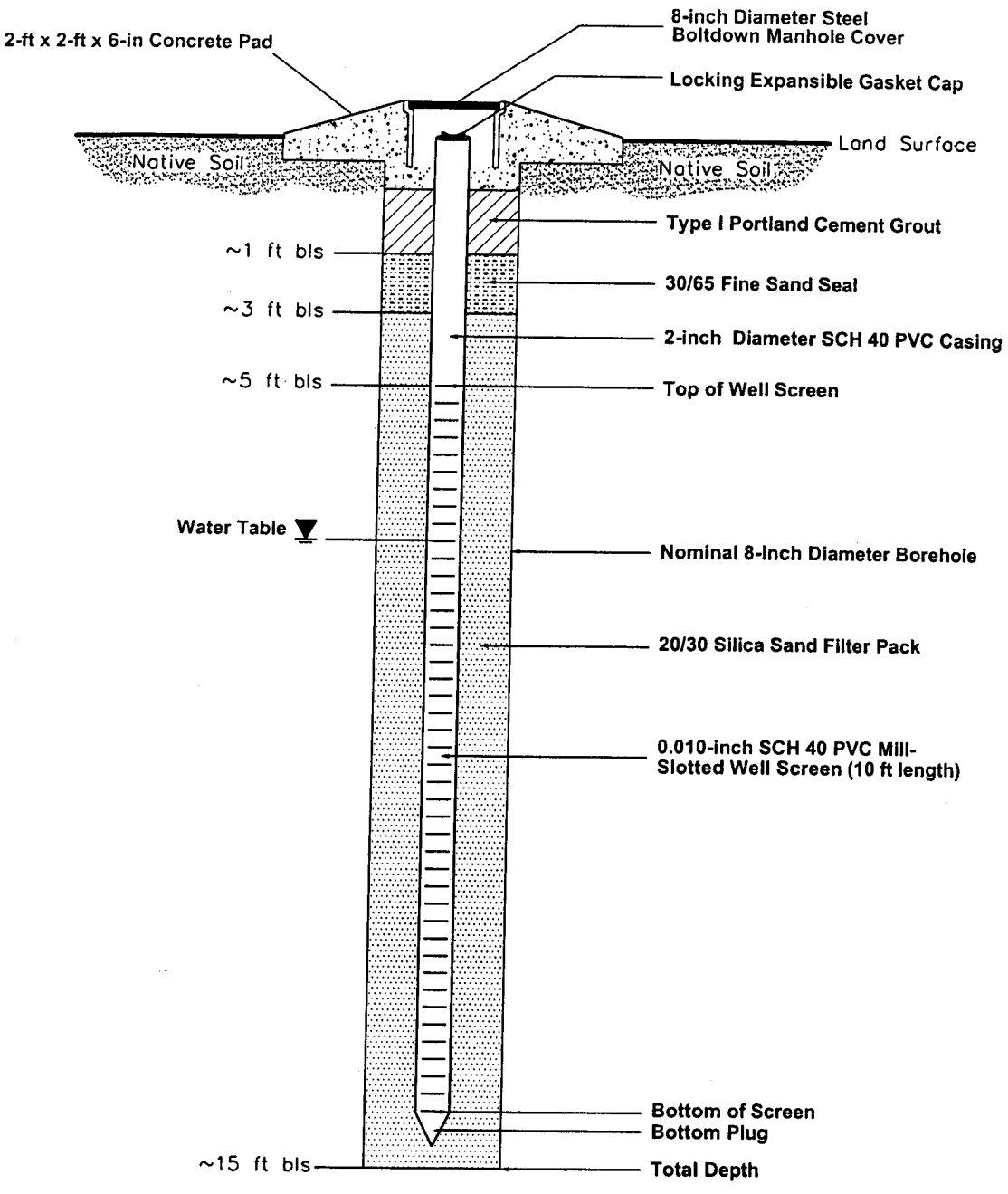

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COST/SCHED-AREA			APPROVED BY DATE
SCALE NOT TO SCALE			DRAWING NO. FIGURE 2-3 REV. 0

southernmost well (MW-09) for lithologic description of the area. Four split spoon samples were collected during the installation of well (MW-10) and used for lithologic description of the upgradient area.

2.5 SOIL VAPOR ANALYSIS

Headspace analysis was conducted on soil samples collected during the soil vapor assessment (direct push borings) using an OVA-FID. The soil vapor analysis was performed according to the head space method prescribed in Rule 62-770.200 (2), FAC.

2.6 SOIL ANALYSIS

Upon completion of each direct push soil boring, the soil sample from the interval above the water table that exhibited the highest OVA reading was retained for mobile laboratory analysis. The sample was placed in a 4-ounce glass jar and immediately provided to KB Labs (the onsite mobile laboratory) for screening of BTEX, MTBE, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and screening DRO. Data reports for the mobile laboratory are included in Appendix F. Duplicate soil samples for fixed-based laboratory analysis were collected at soil borings SB-01, SB-03, SB-07, SB-09, SB-14, and SB-25 and analyzed using United States Environmental Protection Agency (USEPA) Method 8021B for BTEX and MTBE, USEPA Method 8310 for polynuclear aromatic hydrocarbons (PAHs), and Florida Petroleum Range Organics (FL-PRO) for total petroleum hydrocarbons (TPH)

On July 25, 2001, TtNUS personnel advanced two soil borings at locations SB-03, and SB-14 to collect soil samples for SPLP analysis. Samples were collected from SB-03 and SB-14 at approximately 5 ft bls and sent to Katahdin Laboratories in Westbrook, Maine for analysis. All analyses were conducted in accordance with the Naval Facilities Engineering Service Center quality assurance/quality control criteria using SW-846 8260B, 8310, and FL-PRO methodology. The soil laboratory data reports are included in Appendix G.

2.7 HYDROGEOLOGIC INVESTIGATION

2.7.1 Water Level Measurements

Water level measurements were collected to determine the depth to water in the surficial aquifer and to determine the relative groundwater flow direction. The depth to water measurements for shallow monitoring wells MW-01 through MW-9 were measured on March 20, 2001, and for deep monitoring wells MW-10 and MW-11 on July 12, 2001. Measurements were collected from the north rim of the top of well casings using an electronic water level indicator.

The elevation of the north rim for each top of well casing (MW-01, MW-02, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10 and MW-11) was surveyed by TtNUS personnel with respect to an assumed vertical datum. The top of casing elevation of each permanent monitoring well was surveyed relative to each other and referenced to site features. The groundwater elevation was calculated by subtracting the depth to water from the top of casing elevation.

On September 20, 2001, TtNUS personnel, as per the requirements of 62-770, FAC, performed a second round of water level measurements at the Old Gas Station Site.

2.8 WATER SAMPLING

2.8.1 Groundwater Sampling Direct-Push Investigation

During the direct-push field investigation, each soil boring was continued into the saturated zone to collect groundwater samples for mobile laboratory screening. The samples were collected using a detachable drive tip attached to a 24-inch long, retractable, stainless steel well screen encased in the lead probe tube. After the water sampler was advanced into the water bearing zone, the probe was withdrawn 24 inches to allow the retractable screen to open to the formation. For groundwater recovery, a length of Tygon tubing was inserted into the probe and connected to a peristaltic pump. Several screen volumes were then pumped from the probe in order to reduce the turbidity level and ensure a representative sample. After purging, the groundwater samples were collected by pumping directly into 40-milliliter (ml) vials. The samples were immediately delivered to the onsite mobile laboratory for screening of BTEX, MTBE, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and screening DRO. The results of the mobile laboratory screening are summarized in Section 3.0.

2.8.2 Groundwater Sampling of Monitoring Wells

Groundwater sampling of monitoring wells was performed to determine the presence or absence of dissolved petroleum hydrocarbons in groundwater in the vicinity of the Old Gas Station (UST 14). Groundwater samples were collected by TtNUS personnel from MW-01 through MW-09 on March 20 and March 21, 2001 and from MW-10 and MW-11 on July 12, 2001. The groundwater samples were analyzed using USEPA Method 239.2 for lead (unfiltered), USEPA Method 504.1 for 1,2-dibromoethane (EDB), USEPA Method 8310 for PAHs, and USEPA Method 8021 for purgeable aromatics and purgeable halocarbons, and FL-PRO for petroleum range organics. Prior to sampling, approximately three to five well volumes of groundwater were removed from each well using low flow quiescent purging methods. Temperature, pH, specific conductance measurements, and well purge volumes were recorded at the time of sample collection. Groundwater samples were placed on ice and shipped to Katahdin Analytical Services, Westbrook, Maine.

All sampling activities were performed in accordance with the procedures prescribed in the FDEP Quality Assurance Sections: Standard Operating Procedures for Laboratory Operations and Sample Collection Activities (DEP-001/92) adopted by TtNUS CompQAP Number 980038. In accordance with DEP-001/92 Section 4.4.2, sample preservation was accomplished by obtaining pre-preserved containers from a laboratory with an FDEP approved CompQAP (Katahdin Analytical Services). During the sampling events, quality control samples (e.g., equipment blanks and duplicates) were prepared and submitted to the laboratory as required by the approved CompQAP. Sampling activities were documented in a site-specific field logbook, and samples were transmitted under chain-of-custody protocols to the laboratory. Groundwater field sampling data sheets are provided in Appendix H. Groundwater laboratory data sheets are included in Appendix I.

3.0 RESULTS OF INVESTIGATION

3.1 SITE HYDROGEOLOGY

3.1.1 Lithology

The site is underlain by a light brown to dark gray fine-grained sand to an average depth of 20 ft bls. Below this fine-grained sand, is moist, dense, gray clay with shell fragments. This soil type extends to 28 ft. From 28 to 32 ft, dry, tight clay was encountered. No sampling was conducted beneath 32 ft. Due to the homogeneity of the subsurface, no lithologic cross-section was constructed. Soil boring logs are included as Appendix D.

3.2 SOIL VAPOR MEASUREMENTS

Headspace analysis was conducted on soil samples collected during the soil vapor assessment (direct push borings) using an OVA-FID. The soil vapor analysis was performed according to the head space method prescribed in Rule 62-770.200 (2), FAC and described in Appendix C. Headspace readings ranged from 0 to 1018.3 parts-per-million (ppm) detected in SB-25. Soil OVA headspace readings are provided on Table 3-1. Soil boring locations with corresponding OVA headspace readings are depicted on Figure 3-1.

3.3 SOIL QUALITY

At each soil boring, a soil sample was collected for analysis by the onsite mobile laboratory for BTEX, MTBE, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and screening DRO. The mobile laboratory soil analytical results are summarized on Table 3-2. Figure 3-2 depicts soil boring locations and corresponding mobile lab contaminant concentrations exceeding SCTLs.

Six soil borings were resampled for fixed base laboratory analysis to confirm the mobile laboratory results and confirm soil vapor analysis based on the low, medium, and high soil headspace analysis results as required by 62-770, FAC. The soil borings identified as the low, medium, and high contaminant concentrations were SB-01, SB-03, and SB-14, respectively, for the Building 26 source area and SB-09, SB-07, and SB-25, respectively, for the Building 48 source area. The soil was analyzed for USEPA method 8021B, USEPA method 8310, and FL-PRO. Tested constituents were not present in detectable concentrations in samples from SB-1, SB-7, SB-9, and SB-25. In SB-3, TRPH was detected at 3100 milligrams per kilogram (mg/kg), above the direct residential direct exposure and leachability

Table 3-1
Soil Vapor Measurements

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Boring Number	Date of Measurement	Sample Depth (ft bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
SB-01	3/5/2001	1	1	0	1
		3	0.5	0	0.5
		5	0	0	0
		7	0	0	0
SB-02	3/5/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-03	3/5/2001	1	0	0	0
		3	0	0	0
		4-6'	279.8	10.8	269
SB-04	7/6/1998	1	0	0	0
		3	0	0	0
		4-6'	1.9	0	1.9
SB-05	3/5/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-06	3/5/2001	1	0	0	0
		3	0	0	0
		3-5'	0	0	0
SB-07	3/5/2001	1	0	0	0
		3	18.2	16.5	1.7
		4-6'	4.2	0	4.2
SB-08	3/5/2001	1	0	0	
		3	0.5	0	0.5
		4-6'	154.6	95.9	58.7
SB-09	3/5/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-10	3/5/2001	1	3.0	0	3.0
		3	0	0	0
		4-6'	0	0	0
SB-11	3/5/2001	1	0	0	0
		3	0	0	0
		4-6'	234.8	7.0	227.8
SB-12	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	24.5	5.4	19.1
SB-13	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0

See notes at end of table.

Table 3-1 (Continued)
Soil Vapor Measurements

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Boring Number	Date of Measurement	Sample Depth (ft bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
SB-14	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	1096	720.6	375.4
SB-15	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	3.5	2.1	1.4
SB-16	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-17	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-18	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-19	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-20	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-21	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-22	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-23	3/6/2001	1	0	0	0.0
		3	0	0	0
		4-6'	285.1	23.8	261.3
SB-24	3/6/2001	1	0	0	0
		3	0	0	0
		4-6'	4.7	4.5	0.2
SB-25	3/6/2001	1	115	15.6	99.4
		3	1301	382.4	918.6
		4-6'	1629	610.7	1018.3
SB-26	3/6/2001	1	0	0	0
		3	0	0	0
		5	0.5	0.6	(-)

See notes at end of table.

Table 3-1 (Continued)
Soil Vapor Measurements

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Soil Boring Number	Date of Measurement	Sample Depth (ft bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
SB-27	3/6/2001	1	0	0	0
		3	0	0	0
		5	0	0	0
SB-28	3/6/2001	1	0	0	0
		3	0	0	0
		5	0	0	0
SB-29	3/6/2001	1	0	0	0.0
		3	0	0	0
		4-6'	11.1	8.8	2.3
SB-30	3/7/2001	1	0	0	0
		3	0	0	0
		4-6'	0	0	0
SB-31	3/8/2001	1	0	0	0
		3	0	0	0
		4-6'	1.5	3.4	(-)
SB-32	3/8/2001	1	0	0	0
		3	0	0	0
		4-6'	12.6	1.6	11.0

Notes: (-)=Denotes negative net reading.
ND=not detected
Wet Soils encountered at depths ranging from approximately 3 to 6 ft bls.

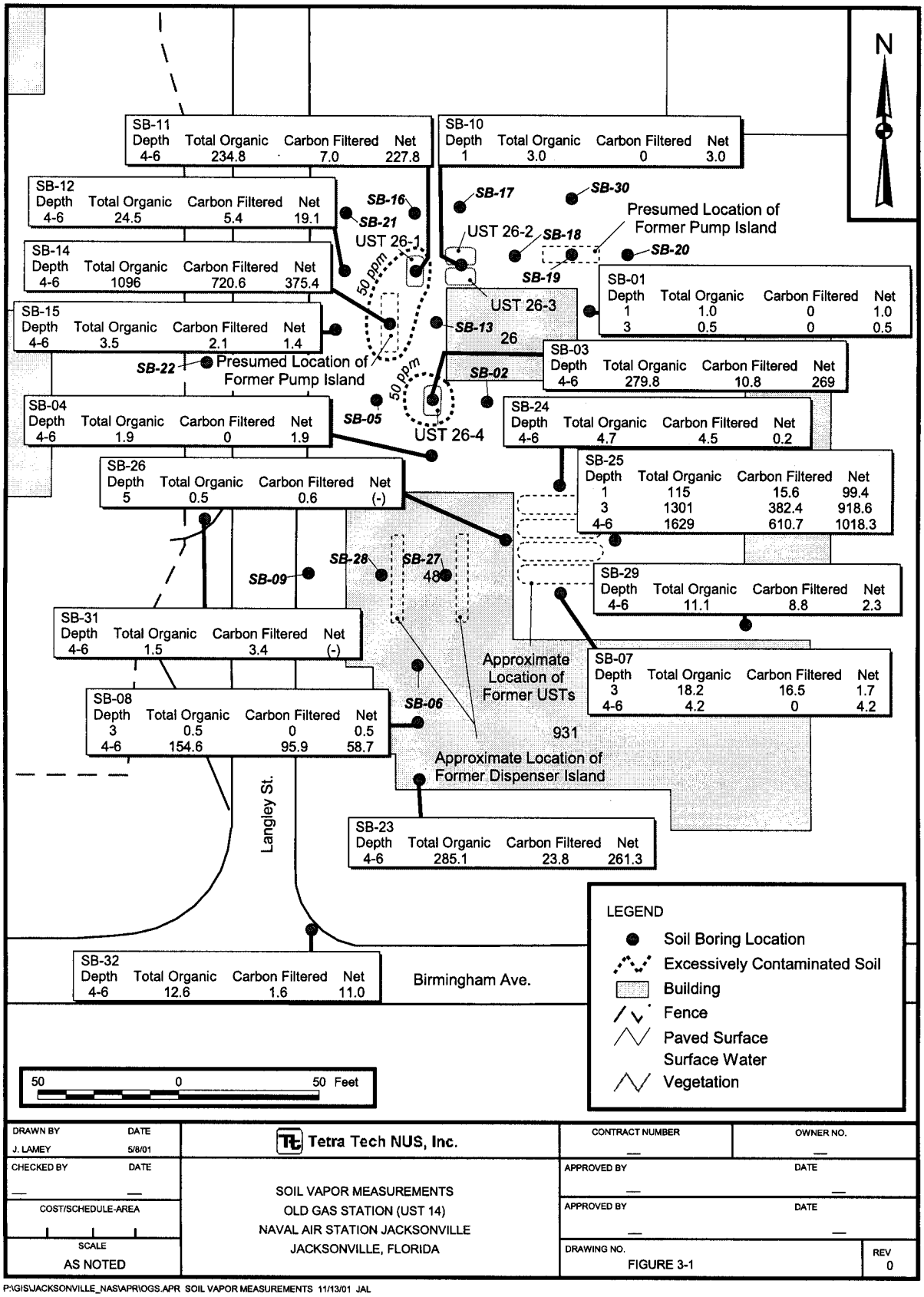

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Table 3-2
Mobile Laboratory Soil Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	Direct Exposure Residential[1]	Leachability Based on Groundwater Criteria[1]	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08
			3/5/2001	3/5/2001	3/5/2001	3/6/2001	3/5/2001	3/5/2001	3/5/2001	3/5/2001
Sample Interval			3	4-6'	4-6'	4-6'	4-6'	3-5'	3	4-6'
Volatile Organics Compounds (USEPA Method 8021B) (µg/kg)										
MTBE	3200000	200	<10	<10	<200	<10	<10	<10	<10	<10
Benzene	1100	7.0	<10	<10	<200	<10	<10	<10	<10	<10
Toluene	380000	500	<10	<10	<200	<10	<10	<10	<10	<10
Ethylbenzene	1100000	600	<10	<10	<200	<10	<10	<10	<10	<10
Total Xylenes	5900000	200	<10	<10	<200	<10	<10	<10	<10	<10
Napthalene	40000	1700	<10	<10	2170	<10	<10	<10	<10	<10
1,Methylnapthalene	68000	2200	<10	<10	1600	<10	<10	<10	<10	<10
2,Methylnapthalene	80000	6100	<10	<10	2740	<10	<10	<10	<10	<10
HC-57			ND	ND	352000	ND	60	ND	ND	16700

Compound	Direct Exposure Residential[1]	Leachability Based on Groundwater Criteria[1]	SB-09	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
			3/5/2001	3/5/2001	3/5/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001
Sample Interval			4-6'	4-6'	4-6'	4-6'	4-6'	4-6'	4-6'	4-6'
Volatile Organics Compounds (USEPA Method 8021B) (µg/kg)										
MTBE	3200000	200	<10	<500	<500	<10	<10	<10000	<20	<10
Benzene	1100	7.0	<10	<500	<500	<10	<10	<10000	23.4	<10
Toluene	380000	500	<10	<500	<500	<10	11.5	<10000	<20	<10
Ethylbenzene	1100000	600	<10	<500	<500	<10	<10	30800	<20	<10
Total Xylenes	5900000	200	<10	<500	<500	<10	<10	77800	<20	<10
Napthalene	40000	1700	<10	<500	<500	315	<10	35500	<20	<10
1,Methylnapthalene	68000	2200	<10	<500	<500	29	<10	<10000	<20	<10
2,Methylnapthalene	80000	6100	<10	<500	<500	74.4	<10	<10000	<20	<10
HC-57			ND	154000	215000	250	270	2800000	110	45

See notes at end of table.

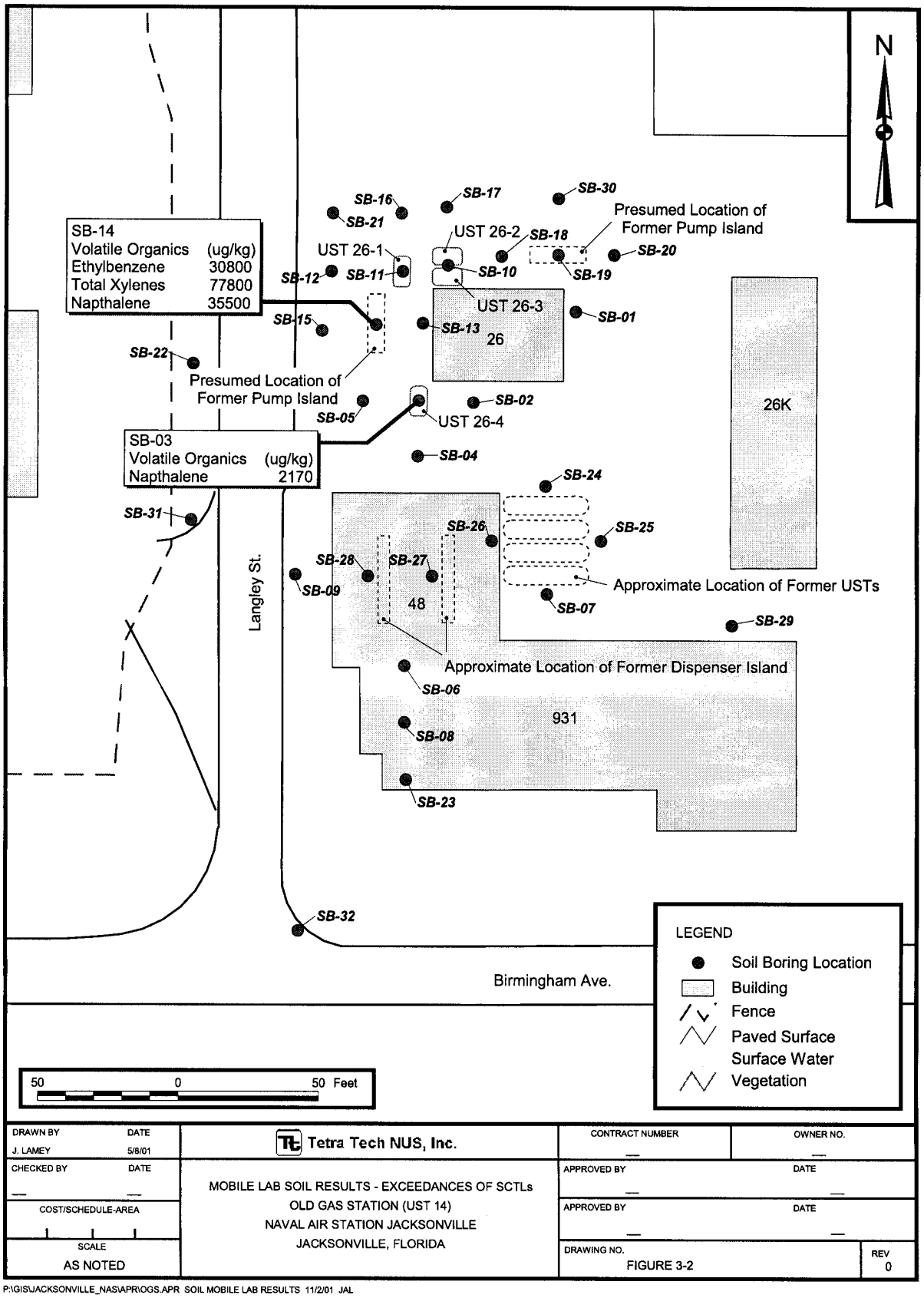
Table3-2 (Continued)
Mobile Laboratory Soil Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	Direct Exposure Residential[1]	Leachability Based on Groundwater Criteria[1]	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
			3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001
Sample Interval			4-6'	4-6'	4-6'	4-6'	4-6'	4-6'	4-6'	4-6'
Volatile Organics Compounds (USEPA Method 8021B) (µg/kg)										
MTBE	3200000	200	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1100	7.0	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	380000	500	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	1100000	600	<10	<10	<10	<10	<10	<10	<10	<10
Total Xylenes	5900000	200	<10	<10	<10	<10	<10	<10	<10	<10
Napthalene	40000	1700	<10	<10	<10	<10	<10	<10	<10	<10
1,Methylnapthalene	68000	2200	<10	<10	<10	<10	<10	<10	<10	<10
2,Methylnapthalene	80000	6100	<10	<10	<10	<10	<10	<10	<10	<10
HC-57			290	50	70	65	ND	ND	ND	ND

Compound	Direct Exposure Residential[1]	Leachability Based on Groundwater Criteria[1]	SB-25	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	SB-32
			3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/7/2001	3/8/2001	3/8/2001
Sample Interval			4-6'	5	5	5	4-6'	4-6'	4-6'	4-6'
Volatile Organics Compounds (USEPA Method 8021B) (µg/kg)										
MTBE	3200000	200	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1100	7.0	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	380000	500	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	1100000	600	<10	<10	<10	<10	<10	<10	<10	<10
Total Xylenes	5900000	200	<10	<10	<10	<10	<10	<10	<10	<10
Napthalene	40000	1700	<10	<10	<10	<10	<10	<10	<10	<10
1,Methylnapthalene	68000	2200	<10	<10	<10	<10	<10	<10	<10	<10
2,Methylnapthalene	80000	6100	14.2	<10	<10	<10	<10	<10	<10	<10
HC-57			100	ND	ND	ND	ND	ND	ND	ND

Notes: [1]Chapter 62-770, FAC (August 5, 1999)
HC-57=Estimation of Total Aliphatic Hydrocarbon constituents (straight and branched chains)
µg/kg=microgram per kilogram
ND = Not detected



DRAWN BY: J. LAMEY — DATE: 5/8/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	MOBILE LAB SOIL RESULTS - EXCEEDANCES OF SCTLs OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 3-2	REV: 0

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SCTL of 340 mg/kg. In SB-14, ethylbenzene was detected at 880 µg/kg, above the FDEP Leachability SCTL of 600 µg/kg, but below the residential direct exposure level. Total xylenes was detected at 1600 µg/kg, above the FDEP Leachability SCTL of 200 µg/kg, but below the residential direct exposure level. TRPH was detected in SB-14 at 5800 mg/kg, above both the direct exposure and leachability SCTL. Fixed based laboratory soil quality data is summarized on Table 3-3. Soil boring locations and exceedances of SCTL concentrations are depicted on Figure 3-3. The "excessively contaminated soil" located at the site is defined on Figure 3-1. Soil laboratory analytical results are provided as Appendix H.

On July 25, 2001, TtNUS personnel collected soil samples for SPLP analysis from SB-03 for TRPH and from SB-14 for ethylbenzene, xylenes, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and TRPH. The soil samples were collected at approximately 5 ft bls for the SPLP analysis. Review of the analytical results indicates that tested constituents were not present in detectable concentrations in samples from SB-03 or SB-14. However, the method detection limits were elevated for some constituents. Specifically, in the SB-14 sample analysis, the laboratory reporting limit for ethylbenzene and xylene by USEPA Method 8260B is 5 µg/L. However the laboratory can report estimated results as "J" down to their instrument detection limits (IDLs). With the SPLP testing, there is a 1:50 dilution factor, which results in a reporting limit of 250 µg/L and an IDL of 39 µg/L for ethylbenzene and an IDL of 11 µg/L for xylene. No estimated values (J) were reported in either sampling indicating no values above the IDL were present. Soil laboratory analytical results are provided in Appendix H.

3.4 AQUIFER CHARACTERISTICS AND CLASSIFICATION

The site is underlain by the surficial aquifer that is classified as a G-II aquifer by the State of Florida (Chapter 62-520.410, FAC). During the assessment, the depth to the shallow aquifer ranged from approximately 2 to 6 ft bls. The depth to groundwater measurements for the first and second events are presented in Table 3-4. A Potentiometric Surface Map for March 20, 2001 is depicted in Figure 3-4 and a Potentiometric Surface Map for September 20, 2001 is depicted in Figure 3-5.

Lithologic data and available literature indicate the effective porosity of the soils comprising the surficial aquifer is approximately 0.25 percent (Driscoll, 1986).

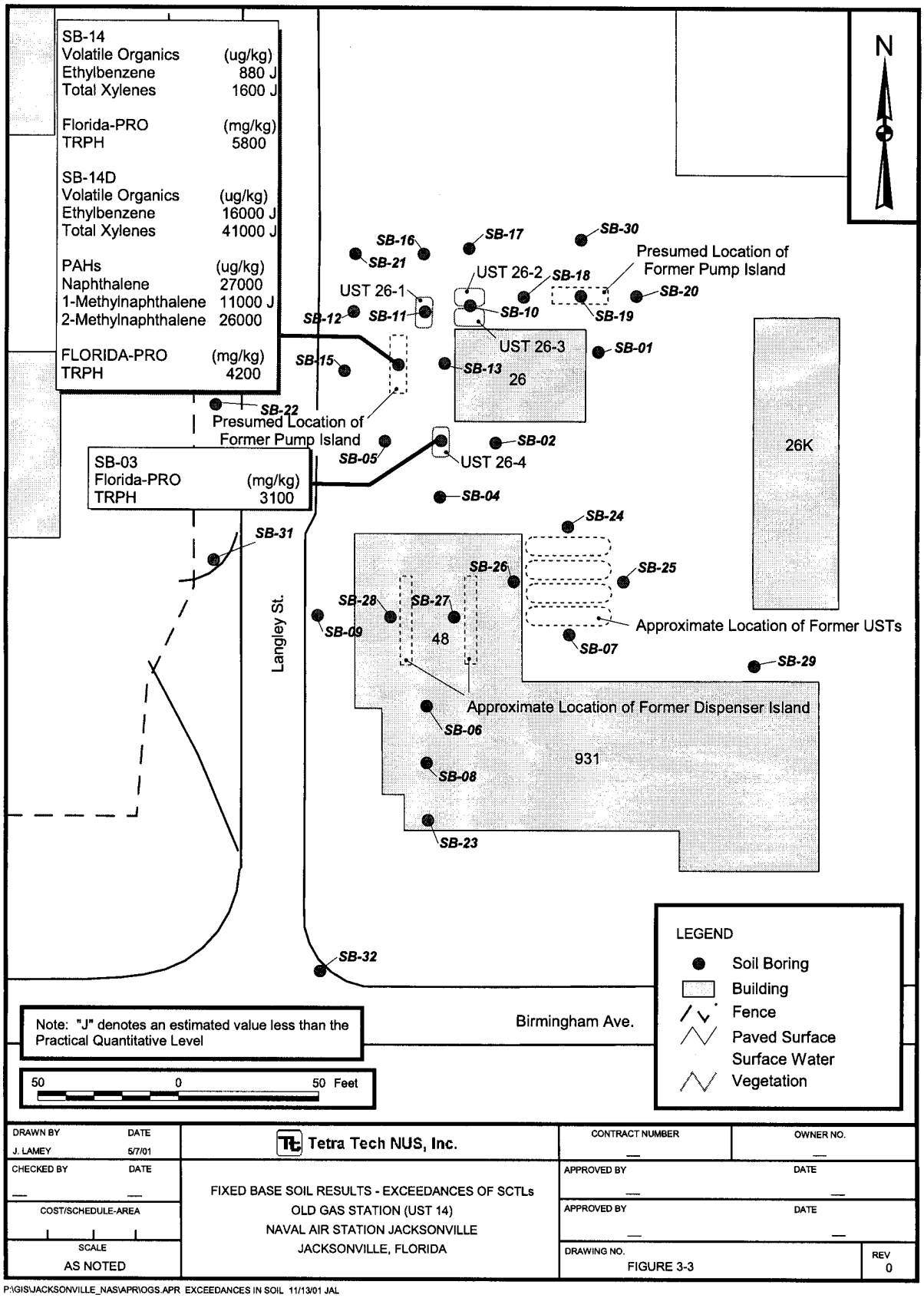
Hydrogeologic data provided by the USGS was referenced from Operable Unit (OU) 3 investigations. Aquifer data from OU 3 indicates the surficial aquifer is composed of distinct upper and intermediate layers. The upper layer extends from land surface to a depth of approximately 15 ft below sea level; the intermediate layer extends from the upper layer down to the top of the Hawthorn Group. Horizontal hydraulic conductivities in the upper layer, determined from aquifer tests, associated with nearby OU 3, range from 0.19 to 3.8 ft per day (ft/day). According to Hal Davis of the USGS, the horizontal hydraulic

Table 3-3
Confirmatory Soil Sampling Analytical Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	Direct Exposure Residential	Leachability Based on Groundwater Criteria	Boring ID						
			SB-1	SB-3	SB-7	SB-9	SB-14	SB-14D	SB-25
			3/8/2001	3/8/2001	3/8/2001	3/8/2001	3/8/2001	3/8/2001	3/8/2001
Sample Interval			3'	4-6'	3'	4-6'	4-6'	4-6'	4-6'
Volatile Organic Compounds (USEPA Method 8021B(µg/kg)									
Benzene	1100	7.0	<2.0	<110.0	<2.0	<2.0	<4.0	5.0	<2.0
Toluene	380000	500	<2.0	<110.0	<2.0	<2.0	8.0	120	<2.0
Ethylbenzene	1100000	600	<2.0	<110.0	<2.0	<2.0	**880 J**	**16000 J**	<2.0
Total Xylenes	5900000	200	<6.0	180.0 J	<5.0	<5.0	**1600 J**	**41000 J**	<6.0
MTBE	3200000	200	<2.0	<110.0	<2.0	<2.0	<4.0	<2.0	<2.0
PAHs (USEPA Method 8310)(µg/kg)									
Naphthalene	40000	1700	<24.0	390.0 J	<24.0	<24.0	1600	**27000**	15.0 J
1-Methylnaphthalene	68000	2200	<24.0	1400	<24.0	<24.0	1100	**11000 J**	19.0 J
2-Methylnaphthalene	80000	6100	<24.0	1600	<24.0	<24.0	2100	**26000**	38.0
Acenaphthene	1900000	2100	<24.0	40.0	<24.0	<24.0	53.0	260.0 E	<26.0
Acenaphthylene	1100000	27000	<24.0	22.0 J	<24.0	<24.0	35.0	<24.0	30.0
Anthracene	18000000	2500000	<24.0	14.0 J	<24.0	<24.0	<26.0	40.0	<26.0
Benzo(a)anthracene	1400	3200	<24.0	26.0	<24.0	<24.0	30.0	38.0	36.0
Benzo(a)pyrene	100	8000	<24.0	20.0 J	<24.0	<24.0	30.0	20.0 J	91.0
Benzo(b)fluoranthene	10000	10000	<24.0	17.0 J	<24.0	<24.0	26.0	21.0 J	84.0
Benzo(g,h,i)perylene	2300000	32000000	<24.0	20.0 J	<24.0	<24.0	16.0 J	<24.0	93.0
Benzo(k)fluoranthene	15000	25000	<24.0	12.0 J	<24.0	<24.0	18.0 J	14.0 J	52.0
Chrysene	140000	77000	<24.0	27.0	<24.0	<24.0	29.0	32.0	45.0
Dibenzo(a,h)anthracene	100	30000	<24.0	<24.0	<24.0	<24.0	< 26.0	<24.0	32.0
Fluoranthene	2900000	1200000	<24.0	63.0	<24.0	<24.0	51.0	100.0	33.0
Fluorene	2200000	160000	<24.0	34.0	<24.0	<24.0	28.0	120.0	<26.0
Indeno(1,2,3-cd)pyrene	1500	28000	<24.0	18.0 J	<24.0	<24.0	16.0 J	<24.0	68.0
Phenanthrene	2000000	250000	<24.0	46.0	<24.0	<24.0	32.0	140.0 E	<26.0
Pyrene	2200000	880000	<24.0	65.0	<24.0	<24.0	55.0	82.0	69.0
FL-PRO (mg/kg)									
TPH	340	340	<24.0	**3100**	52.0	34.0	**5800**	**4200**	140.0

Notes: D = Duplicate
[1]Chapter 62-770, FAC (April 30, 1999)
Bold values are above target levels.
E = Estimated value greater than standard calibration range
J = Estimated value less than practical quantitation level



DRAWN BY: J. LAMEY	DATE: 5/7/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: — / OWNER NO.: —
CHECKED BY: —	DATE: —	FIXED BASE SOIL RESULTS - EXCEEDANCES OF SCTLs OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — / DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — / DATE: —
SCALE: AS NOTED		DRAWING NO.: FIGURE 3-3	REV: 0

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Table 3-4
Water Table Elevation and Monitoring Well Construction Data

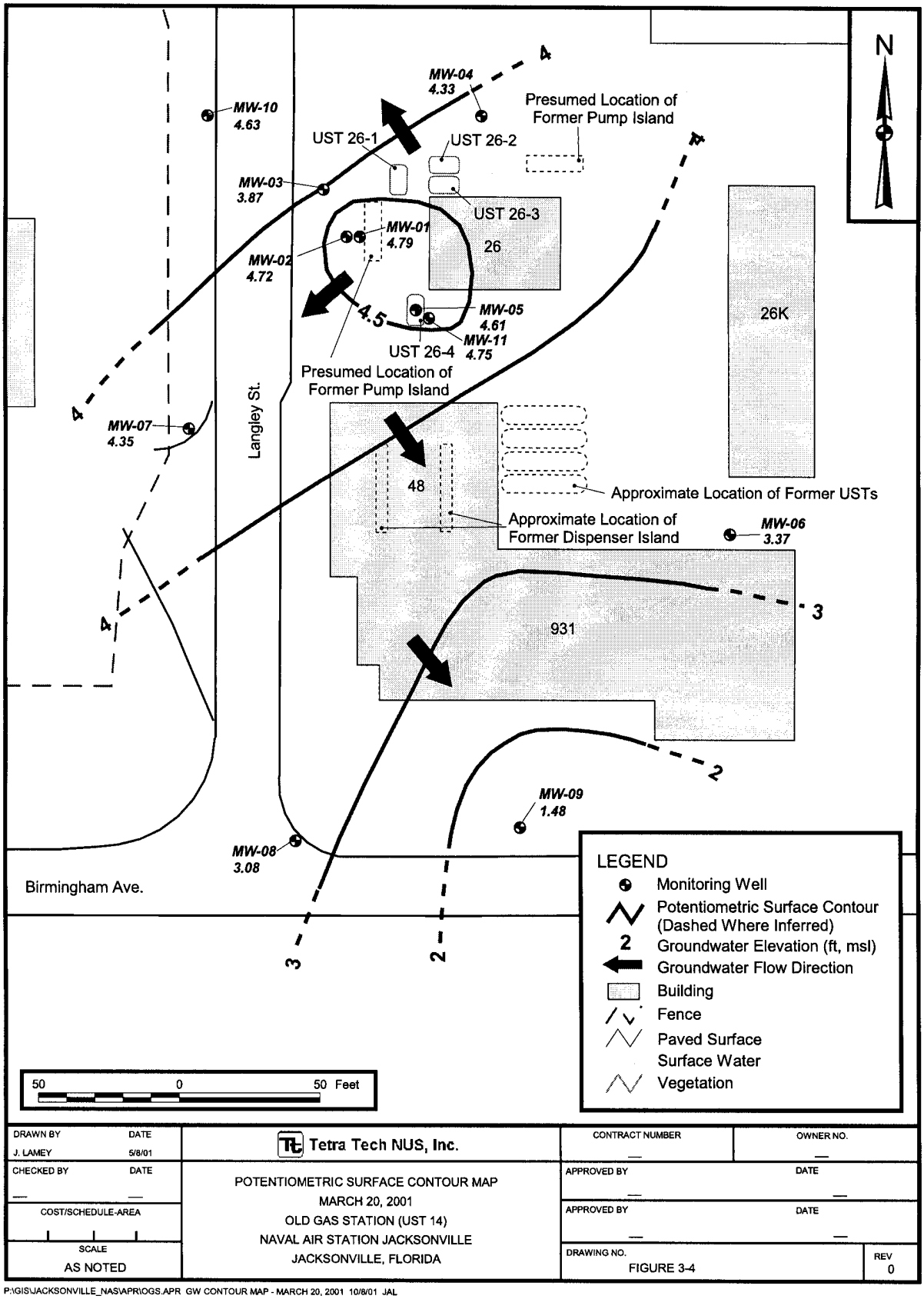
Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Monitoring Well ID	Screened Interval Depth (ft bls)	Top-of-Casing Elevation (ft)	03/20/01	
			Depth to Water Below Top-of-Casing (ft)	Water Elevation (ft)
MW-1	17 to 22	8.80	4.01	4.79
MW-2	3 to 13	8.78	4.02	4.76
MW-3	3 to 13	8.62	4.75	3.87
MW-4	3 to 13	10.00	5.67	4.33
MW-5	3 to 13	8.32	3.71	4.61
MW-6	3 to 13	6.15	2.78	3.37
MW-7	3 to 13	7.64	3.29	4.35
MW-8	3 to 13	5.88	2.80	3.08
MW-9	3 to 13	5.97	4.49	1.48
MW-10*	3 to 13	9.06	5.51	3.55
MW-11*	13 to18	8.20	4.31	3.89

* = Wells installed on 07/02/01and measured on 7/12/01

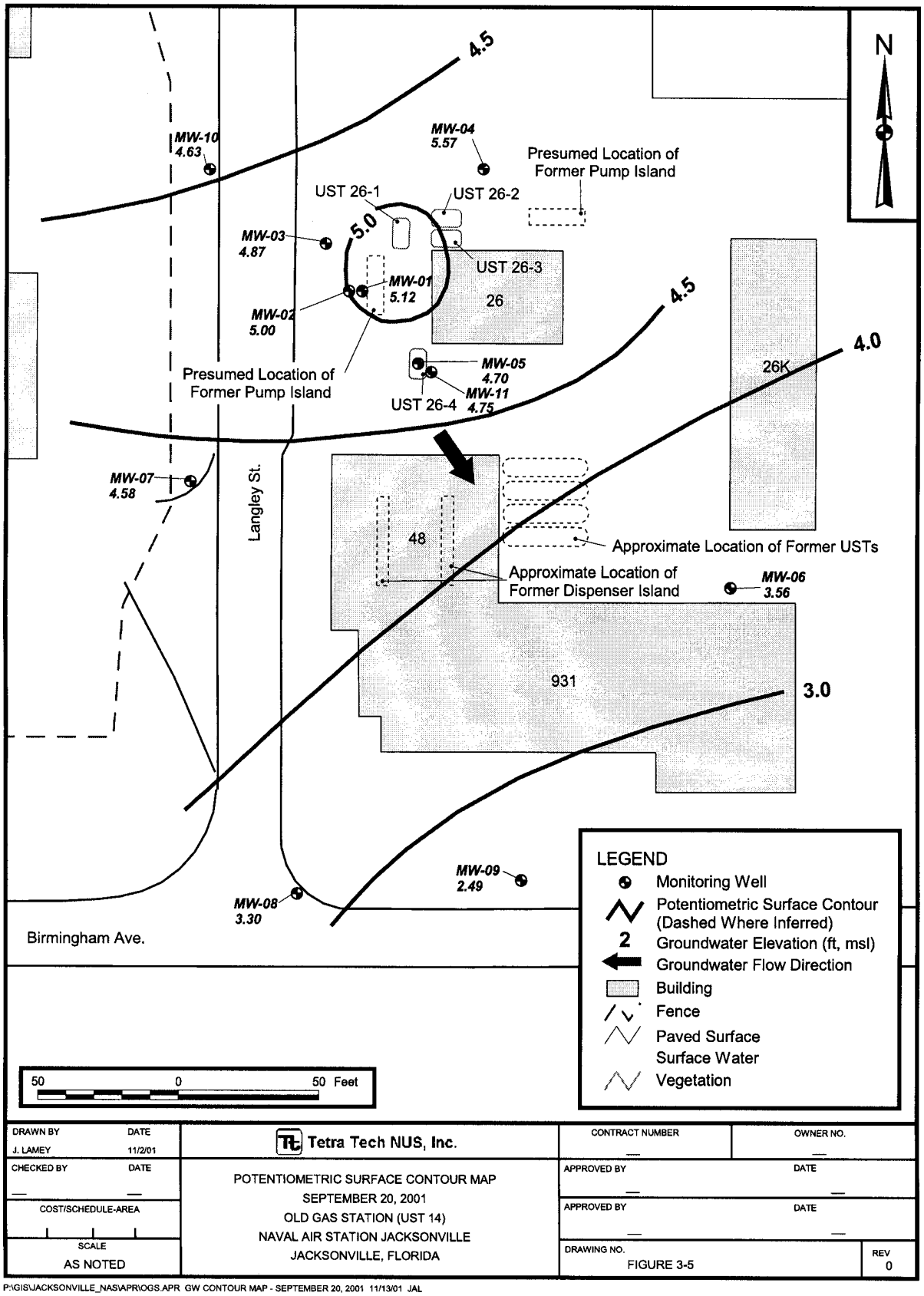
Water Table Elevations - 2nd Event

Monitoring Well ID	Screened Interval Depth (ft bls)	Top-of-Casing Elevation (ft)	09/20/01	
			Depth to Water Below Top-of-Casing (ft)	Water Elevation (ft)
MW-1	17 to 22	8.80	3.68	5.12
MW-2	3 to 13	8.78	3.72	5.06
MW-3	3 to 13	8.62	3.75	4.87
MW-4	3 to 13	10.00	4.43	5.57
MW-5	3 to 13	8.32	3.62	4.70
MW-6	3 to 13	6.15	2.59	3.56
MW-7	3 to 13	7.64	3.06	4.58
MW-8	3 to 13	5.88	2.58	3.30
MW-9	3 to 13	5.97	3.48	2.49
MW-10	3 to 13	9.06	4.43	4.63
MW-11	13 to 18	8.20	3.45	4.75



DRAWN BY: J. LAMEY — DATE: 5/8/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 20, 2001 OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 3-4	REV: 0

P:\GIS\JACKSONVILLE_NAS\APR\OGS.APR GW CONTOUR MAP - MARCH 20, 2001 10/8/01 JAL



DRAWN BY: J. LAMEY	DATE: 11/2/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: — / OWNER NO.: —
CHECKED BY: —	DATE: —	POTENTIOMETRIC SURFACE CONTOUR MAP SEPTEMBER 20, 2001 OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — / DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — / DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 3-5 / REV: 0

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conductivity, in the vicinity of the Old Gas Station (UST 14), is approximately 5 ft/day. The groundwater flow gradient at the Old Gas Station (UST 14) site, using groundwater data from MW-07 and MW-09, was calculated at 0.011 feet per foot (ft/ft) and the groundwater flow velocity at 80.3 ft per year (ft/year).

The groundwater flow gradient was determined using the following equation with groundwater data from MW-07 and MW-09:

$I = \frac{h_1 - h_2}{d}$ where:

I = the hydraulic gradient

h_1 = the water elevation at point 1

h_2 = the water elevation at point 2

d = the distance between point 1 and point 2

Potential movement of groundwater at the site may be described in terms of transportation by natural flow in the saturated zone while assuming groundwater flow follows Darcy's Law. Darcy's Law may be expressed as:

$V = \frac{(K \times I)}{n}$ where:

V = average seepage velocity

K = hydraulic conductivity

n = effective porosity

I = average hydraulic gradient

3.5 WATER QUALITY

Direct-push groundwater sampling results from the mobile laboratory field screening reported exceedances of GCTLs for naphthalene (535 µg/L) and 2-methylnaphthalene (32.6 µg/L) in boring SB-12 and ethylbenzene (106 µg/L), total xylenes (355 µg/L), and naphthalene (45 µg/L) in boring SB-14. The mobile laboratory results are presented in Table 3-5 and exceedances are indicated on Figure 3-6.

Analytical results from the March 2001 sampling event reported exceedances of GCTLs in MW-1 for total xylenes (60 µg/L), above the GCTL of 20 µg/L, and in MW-3 for naphthalene (73 µg/L), above the GCTL of 20 µg/L. A review of the analytical results from monitoring wells MW-10 and MW-11 sampled on July 12, 2001 indicated no exceedances of GCTLs. A summary of groundwater analytical results is presented in Table 3-6 and exceedances are indicated on Figure 3-7. Groundwater laboratory analytical results are provided as Appendix I.

Table 3-5
Mobile Laboratory Groundwater Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	FDEP Target Level[1]	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08	SB-09
		03/05/01	03/05/01	03/05/01	03/06/01	03/05/01	03/05/01	03/05/01	03/05/01	03/05/01
Sample Interval (ft)		5-9'	6-10'	6-10'	6-10'	6-10'	5-9'	6-10'	6-10'	6-10'
Volatile Organics Compounds (USEPA Method 8021B) (µg/L)										
MTBE	50	<1	<1	<2	<1	<1	<1	<1	<1	<1
Benzene	1	<1	<1	<2	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<1	<1	<2	<1	<1	<1	<1	<1	<1
Total Xylenes	20	<1	<1	<2	<1	<1	<1	<1	3.83	<1
Napthalene	20	<1	<1	<2	<1	1.87	<1	<1	<1	<1
1,Methylnapthalene	20	<1	<1	<2	<1	4.37	<1	<1	<1	<1
2,Methylnapthalene	20	<1	<1	<2	<1	8.69	<1	<1	<1	<1
HC-57		ND	ND	800	ND	90	2	ND	120	4.5

Compound	FDEP Target Level[1]	SB-10	SB-11	SB-12	SB-13	SB-14	SB-14D	SB-15	SB-16
		03/05/01	03/05/01	03/06/01	03/06/01	03/06/01	03/07/01	03/06/01	03/06/01
Sample Interval (ft)		6-10'	6-10'	6-10'	6-10'	6-10'	26-30'	6-10'	6-10'
Volatile Organics Compounds (USEPA Method 8021B) (µg/L)									
MTBE	50	<1	<5	<5	<1	<20	<1	<500	<10
Benzene	1	<1	<5	<5	<1	<20	<1	<500	<10
Toluene	40	<1	<5	<5	<1	22.2	<1	<500	<10
Ethylbenzene	30	<1	<5	17.8	<1	**106**	<1	<500	<10
Total Xylenes	20	<1	<5	18	<1	**355**	1.24	<500	<10
Napthalene	20	<1	<5	**535**	7.12	45	<1	<500	<10
1,Methylnapthalene	20	<1	<5	15.9	<1	<20	<1	<500	<10
2,Methylnapthalene	20	<1	<5	**32.6**	2.92	<20	<1	<500	<10
HC-57		530	1400	950	60	450	14	5300	80

See notes at end of table.

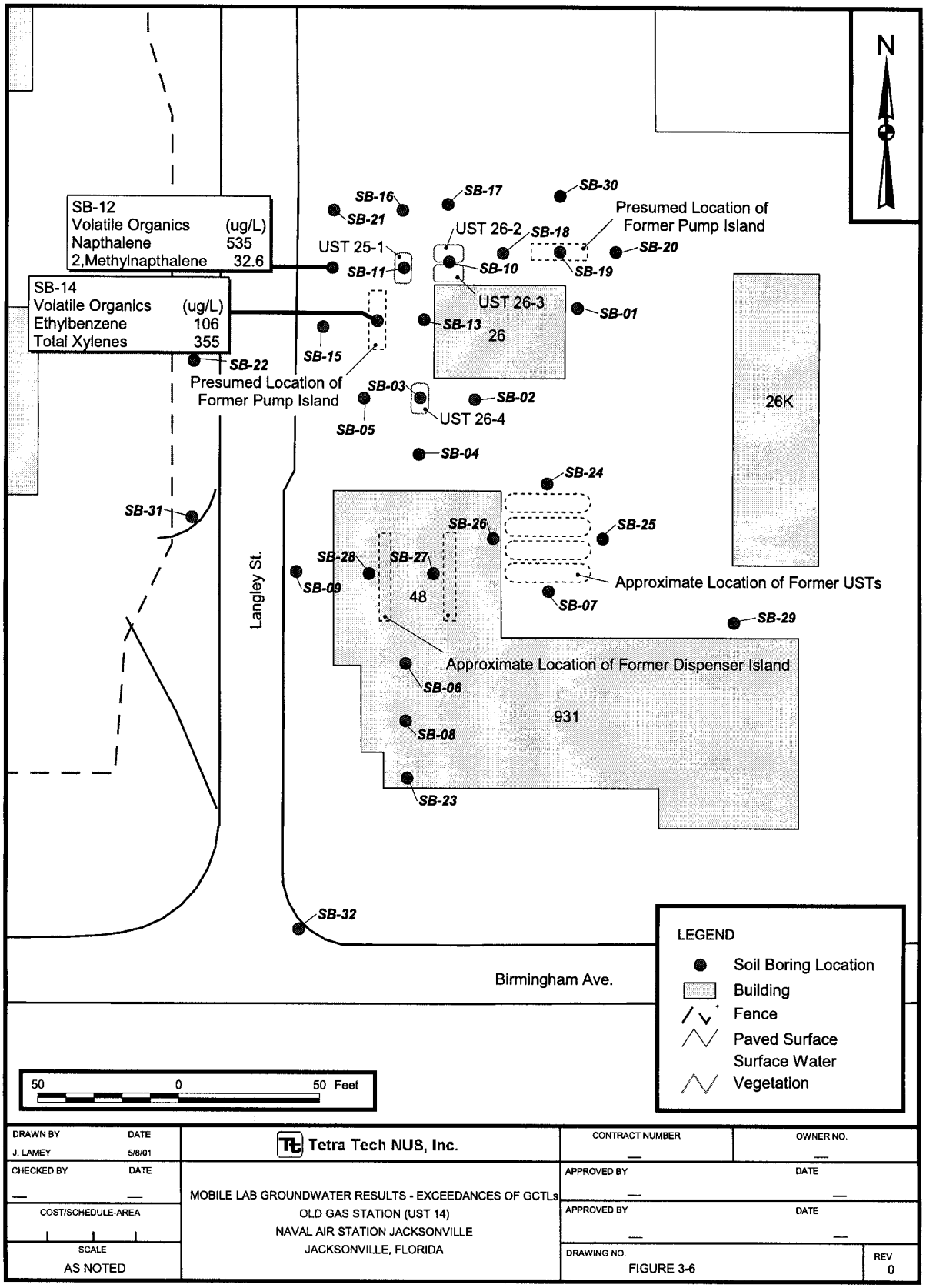
Table 3-5 (Continued)
Mobile Laboratory Groundwater Results

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	FDEP Target Level[1]	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
		03/06/01	03/06/01	03/06/01	03/06/01	03/06/01	03/06/01	03/06/01	03/06/01
Sample Interval (ft)		6-10'	6-10'	6-10'	6-10'	6-10'	6-10'	6-10'	6-10'
Volatile Organics Compounds (USEPA Method 8021B) (µg/L)									
MTBE	50	<10	<5	<2	<1	<1	<1	<1	<1
Benzene	1	<10	<5	<2	<1	<1	<1	<1	<1
Toluene	40	<10	<5	<2	<1	<1	<1	<1	<1
Ethylbenzene	30	<10	<5	<2	<1	<1	<1	<1	<1
Total Xylenes	20	<10	<5	<2	<1	<1	<1	<1	<1
Napthalene	20	<10	<5	<2	<1	<1	<1	<1	<1
1,Methylnapthalene	20	<10	<5	<2	<1	<1	<1	<1	<1
2,Methylnapthalene	20	<10	<5	<2	<1	<1	<1	<1	<1
HC-57		80	25	13	8	ND	ND	ND	4

Compound	FDEP Target Level[1]	SB-25	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	SB-32
		03/06/01	03/06/01	03/06/01	03/06/01	03/06/01	03/07/01	03/08/01	03/08/01
Sample Interval (ft)		6-10'	5-7'	5-7'	5-7'	6-10'	6-10'	6-10'	6-10'
Volatile Organics Compounds (USEPA Method 8021B) (µg/L)									
MTBE	50	<10	<1	<1	<1	<1	<1	<1	<1
Benzene	1	<10	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<10	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<10	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	20	<10	<1	<1	<1	<1	<1	<1	<1
Napthalene	20	<10	<1	<1	<1	<1	<1	<1	<1
1,Methylnapthalene	20	<10	<1	<1	<1	<1	<1	<1	<1
2,Methylnapthalene	20	<10	<1	<1	<1	<1	<1	<1	<1
HC-57		490	ND	ND	ND	ND	ND	ND	ND

Notes: ND = Not detected HC-57=Estimation of Total Aliphatic Hydrocarbon constituents (straight and branched chains)
[1]Chapter 62-770, Florida Administrative Code (August 5, 1999).



DRAWN BY: J. LAMEY — DATE: 5/8/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	MOBILE LAB GROUNDWATER RESULTS - EXCEEDANCES OF GCTLs OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 3-6	REV: 0

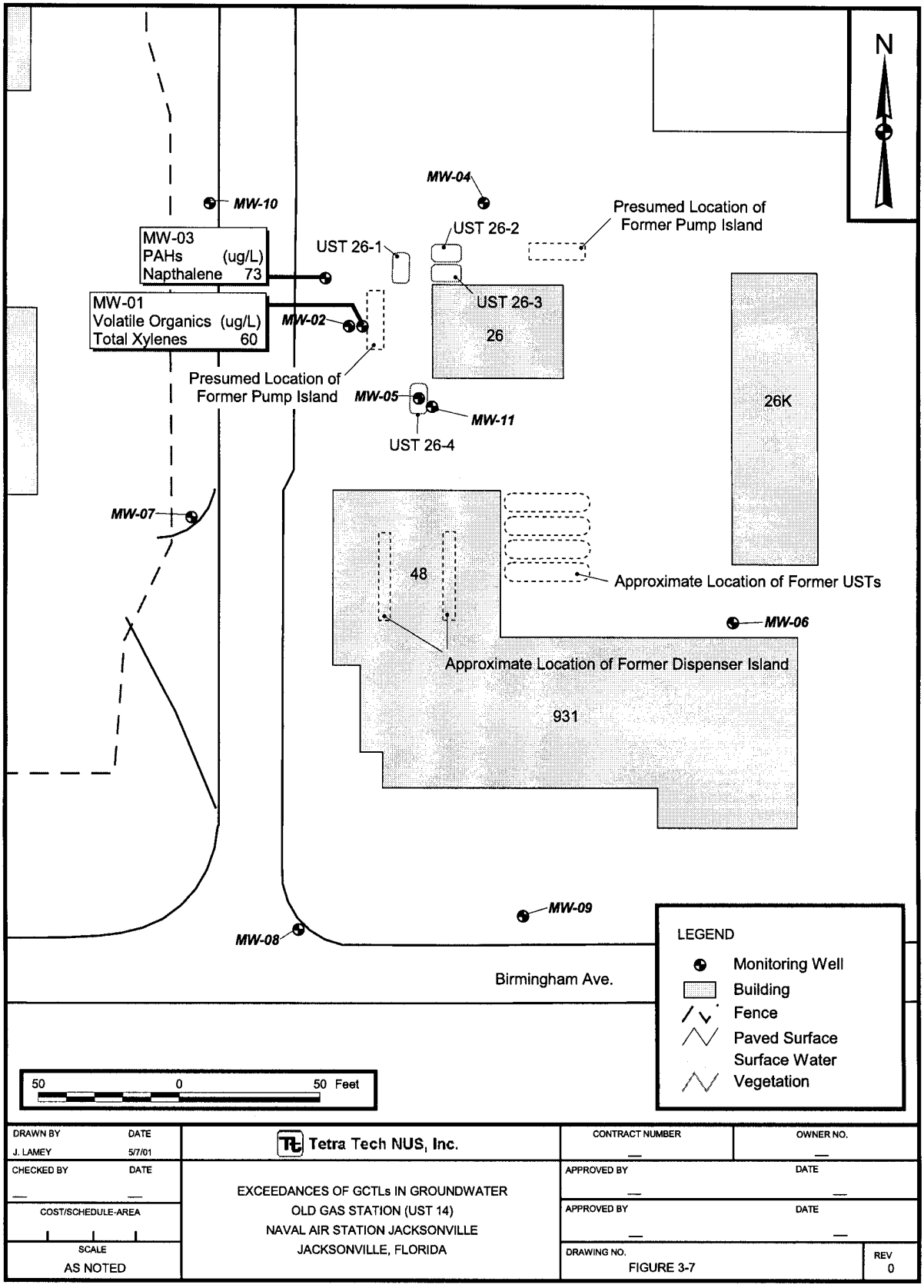
P:\GIS\JACKSONVILLE_NAS\APR\OGS.APR GROUNDWATER MOBILE LAB RESULTS 11/2/01 JAL

Table 3-6
Summary of Groundwater Quality

Site Assessment Report
Old Gas Station (UST 14)
Naval Air Station Jacksonville
Jacksonville, Florida

Compound	FDEP Target Level[1]	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5D	MW-6	MW-7	MW-8	MW-9	MW-10*	MW-11*
		03/20/01	03/20/01	03/20/01	03/21/01	03/21/01	03/21/01	03/21/01	03/20/01	03/20/01	03/20/01	07/12/01	07/12/01
Volatile Organic Compounds (USEPA Method 8021B) (µg/L)													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	13	0.6J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	20	**60**	3J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MTBE	50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
USEPA 504.1(µg/L)													
EDB	0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05	<0.02	<0.02
PAHs (USEPA Method 8310) (µg/L)													
Naphthalene	20	2	0.4	**73**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
FL-PRO (USEPA Method 8270) (mg/L)													
TRPH	5	0.69	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	0.16J	0.27J
Metals Analysis (µg/L)													
Total Lead	15	2.5	1.9	4.0	<1.5	<1.5	<1.5	1.7	<1.5	<1.5	1.5	2.4	<1.5

Notes:
[1]Chapter 62-770, FAC (April 30, 1999)
* = Wells installed on 07/02/01
D = Duplicate
"J" = Estimated value less than the Laboratory's Practical Quantitation Level



DRAWN BY: J. LAMEY — DATE: 5/7/01	Tetra Tech NUS, Inc.	CONTRACT NUMBER: —	OWNER NO.: —
CHECKED BY: — — DATE: —	EXCEEDANCES OF GCTLs IN GROUNDWATER OLD GAS STATION (UST 14) NAVAL AIR STATION JACKSONVILLE JACKSONVILLE, FLORIDA	APPROVED BY: — — DATE: —	
COST/SCHEDULE-AREA		APPROVED BY: — — DATE: —	
SCALE: AS NOTED		DRAWING NO.: FIGURE 3-7	REV: 0

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4.0 DISCUSSION

4.1 SOURCE REMOVAL

The Old Gas Station (UST 14) site was previously investigated during an Initial Assessment Study (IAS) performed by Fred C. Hart and Associates, Inc. in 1983. Building 48 and Building 26 were identified as a PSC because the site contained abandoned USTs in close proximity to a potable water well that was also abandoned. No releases were documented and no contaminants were identified at the site. However, groundwater flow indicated that if contaminants were present, the contaminants could possibly migrate from the site via groundwater flow. As a result, the IAS report recommended a confirmation (verification) study.

During the verification study (Geraghty and Miller, Inc., 1985), four USTs were identified, each having a capacity of 10,000-gallons. According to the Verification Study Report, the tanks were abandoned in 1980 when the fire department completely filled each tank with water. All fill pipes, cross-connecting lines, and vent pipes were removed and capped. Although this action occurred prior to the 1984 promulgation of Chapter 17-61, FAC, which outlined the requirements for stationary tanks, Geraghty and Miller, Inc. recommended these tanks be abandoned or removed in accordance with this regulation. In addition, they recommended that all water contained in the tanks be pumped out for treatment at the wastewater treatment plant. According to a record of a conversation between Bryan Kizer of SOUTHNAVFACENGCOM and David Ford of the NAS Jacksonville Facilities and Environmental Department, dated March 24, 1994, the Tank Inventory Management Systems showed that all four USTs associated with Building 48 had been removed in 1988.

In February 1998, Environmental Detachment Charleston was contracted to perform a closure assessment on four USTs located at Building 26. The USTs and their associated piping and vents were removed on February 23, 1998. A Closure Assessment Report and Closure Assessment Form were filed in March 1998.

4.2 HYDROGEOLOGY

The surficial aquifer present at the site consists of a heterogeneous mixture of fine-grained sands to a depth of 20 ft bls. A distinct dense gray clay layer was encountered at an average depth of 20 ft bls. Below the 24-ft depth, dry, tight clay was encountered to the maximum depth drilled at 32 ft bls. Based on data obtained from the USGS, the hydraulic conductivity of the upper at this site is approximately 5 ft/day. Groundwater flow velocity was calculated to be 80.3 ft/year.

The site is situated on the flank of a gentle slope trending to the south toward Mulberry Cove of the St. Johns River. Mounded groundwater is present in the vicinity of the former Building 26 pump island causing a local variation from the overall groundwater flow direction to the south to southeast. The local variation in groundwater due to this mounding effect explains the presence of hydrocarbon constituents in groundwater at SB-12 in an area to the northwest of the former pump island.

4.3 SITE ASSESSMENT RESULTS

Review of the field headspace analyses, mobile laboratory analyses, and fixed based laboratory analyses indicate that hydrocarbon constituents remain in soils and groundwater above regulatory criteria in the vicinity of the former pump island and at UST 26-4. At Building 48, elevated headspace readings were detected, although soil and groundwater samples collected from the vicinity of the Building 48 USTs did not confirm “excessively contaminated soil” and did not exceed regulatory criteria.

Based on soil screening data, “excessively” contaminated soil, as defined by chapter 62-770, FAC, appears to be localized in the former pump island associated with Building 26 and the former UST 26-4 location. Mobile laboratory results for soil samples from the Tank 26-4 boring (SB-03) exceeded only the FDEP leaching criteria for naphthalene, but are less than the residential direct exposure target level. Confirmation analyses conducted in a fixed-based laboratory indicate the presence of naphthalene in the soil, but at levels less than both leaching and residential direct exposure target levels. Ethylbenzene, total xylenes, and naphthalene exceeded leaching target levels in SB-14, but did not exceed residential direct exposure target levels. Fixed based laboratory results for SB-14 indicate that ethylbenzene, xylenes, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene exceeded leaching target levels, but did not exceed residential direct exposure levels. Fixed based laboratory soil results for SB-14 and SB-3 exceeded both the residential and leachability SCTLs. SPLP analysis was performed on samples from the former pump island associated with Building 26 and the former UST 26-4 locations (SB-14 and SB-3, respectively). Review of the SPLP analytical results indicate that tested constituents were not present in samples collected from SB-03 and SB-14. The contaminated soil is limited to the areas of the former pump island and UST 26-4 as defined on Figure 3-1. Therefore, a source removal is recommended in the areas of the former pump island and UST 26-4.

The extent of impact to soils and groundwater at the site has been defined. Groundwater impact is restricted to 2 of the 11 installed wells, all completed in the surficial aquifer.

Mobile laboratory screening results for groundwater from this area indicate that ethylbenzene and total xylenes in SB-14 and naphthalene and 2-methylnaphthalene in SB-12 exceed GCTLs. Of these

constituents, naphthalene and total xylenes exceed natural attenuation default criteria. Fixed based laboratory results from wells installed in these locations indicate that naphthalene in MW-03 and total xylenes in MW-01 exceeded GCTLs, but did not exceed natural attenuation criteria.

Total xylenes were detected above the GCTL in the deep well MW-01. Monitoring well MW-01 was screened at 17 to 22 ft bls at the interface of the fine-grained sand and the dense clay at 20 ft bls. At 28 ft bls, a tight, dry clay is present preventing downward migration of contaminants. Therefore, the vertical extent of hydrocarbons was been defined. During subsequent phone conversations between TtNUS and FDEP discussing the vertical extent delineation, it was agreed that the vertical extent of hydrocarbon constituents in groundwater had been defined based on the presence of the clay layer.

The most commonly detected constituents consisted of ethylbenzene, total xylenes, PAH compounds, and long chain hydrocarbons (HC-57). The long chain hydrocarbons as reported by the laboratory consists of degraded hydrocarbons consistent with historic releases of motor fuel compounds. The lack of more volatile constituents, such as benzene, combined with the consistent detection of long chain hydrocarbons is evidence that natural attenuation of hydrocarbons is occurring at the site.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the SA and the additional site assessment activities at the Old Gas Station (UST 14) suggest the following:

- Headspace readings revealed “excessively contaminated soils” as defined by 62-777.200, FAC, and laboratory confirmatory soil results indicated exceedances of leachability and direct exposure SCTLs. Soil SPLP analysis revealed no exceedances of target constituents.

- Soil sample concentrations exceeding FDEP residential exposure and groundwater leaching target levels were restricted to the former dispenser island associated with Building 26 and to the UST 26-4 location.

- Groundwater impacts above GCTLs are restricted to the former dispenser island location associated with Building 26.

- The lateral and vertical extent of hydrocarbon constituents in soil and groundwater has been defined.

- Total xylenes and naphthalene were detected at levels above natural attenuation default criteria in the source areas by screening efforts with a mobile laboratory. However, monitoring wells installed in these areas using an offsite laboratory confirmed the presence of the constituents, but at levels below natural attenuation default criteria.

- The consistent detection of long chain hydrocarbons at the site combined with the lack of more volatile constituents suggest that hydrocarbons detected at the site are the result of historical releases that have subsequently undergone natural attenuation.

Based on the findings of the SAR, TtNUS recommends that a source removal be implemented for soils located at the former fuel island and UST 26-4, and a Monitoring Only for Natural Attenuation Plan be prepared and implemented for groundwater at the site upon approval of the SAR. TtNUS recommends quarterly sampling events including wells MW1, MW-2, MW-3, and MW-5, for the first year of the sampling program with the analysis of volatile organic compounds by USEPA Method 8021B, PAHs by USEPA Method 8310, and TRPHs by FL-PRO Method.

REFERENCES

Driscoll, Fletcher G., 1986. “Groundwater and Wells”, St. Paul, Minnesota.

FDER (Florida Department of Environmental Regulation), 1998. “Closure Assessment Form, Building 26K”, Naval Air Station Jacksonville, Florida.

SUPSHIP Portsmouth Environmental Detachment Charleston, 1998. “Underground Storage Tank (UST) Assessment Report, Building 26”, Naval Air Station Jacksonville, Florida.

USGS (United State Geologic Survey), 1993. USGS Orange Park, Florida 7.5-Minute Topographic Quadrangle.

USGS, 1998. “Groundwater Hydrology and Simulation of Groundwater Flow at Operable Unit 3 and Surrounding Region”, Naval Air Station, Jacksonville, Florida.

APPENDIX A

SAR SUMMARY SHEET

SITE ASSESSMENT REPORT SUMMARY SHEET

Facility Name: Old Gas Station (UST 14) Reimbursement Site: ☐

Location: Naval Air Station Jacksonville State Contract Site: ☐

EDI #: _____ FAC I.D.# _____ Other: Non-Prog. ☑

Date Reviewed: _____ Local Government: _____

(1) Source of Spill: Leaking USTs Date of Spill: Unknown

(2) Type of Product:	Gasoline Group	Gallons Lost	Kerosene Group	Gallons Lost
	☐ Leaded		☑ Kerosene	unknown
	☑ Unleaded Regular	unknown	☐ Diesel	
	☐ Unleaded Premium		☐ JP-4 Jet Fuel	
	☐ Gasohol		☐ Heating Fuel	
	☐ Undetermined		☐ Unknown	

(3) Description of IRA: Soil removed from area of tank pit and pump islands.

☐ Free product Removal: _____ (gals)
☑ Soil Removal: unknown (cubic yds)
☐ Soil Incineration: _____ (cubic yds)

(4) Free Product still present (yes/no) No Maximum apparent product thickness: N/A (feet)

(5) Maximum Groundwater contamination levels (ppb): Total VOA: _____ benzene: _____ EDB: _____ lead: _____ MTBE: _____ other: 73

(6) Brief lithologic description: Medium to fine sand. No signigicant lithologic variations across site. Clay stringer Encountered at approximately 22 ft. in MW-1 boring.

(7) Areal and vertical extent of soils contamination defined (yes/no) Yes

Highest current soil concentration (OVA: 1018.3 ppm) or (EPA method 5030/8020: _____ ppb)

(8) Lower aquifer contaminated? (yes/no) No Depth of vertical contamination: N/A.

(9) Date of last complete round of groundwater sampling: 3/21/01 Date of last soil sampling: 3/10/01

(10) QAPP approved? (yes/no) Date: yes

(11) Direction (e.g. NNW) of surficial groundwater flow: SSE (Fig. 3-1 on page _____)

(12) Average depth to groundwater: 4 ft. (ft)

(13) Observed range of seasonal groundwater fluctuations: _____ (ft) (Based on water level data collected during the CAR investigation)

(14) Estimated rate of groundwater flow: 5 (ft/day)

(15) Hydraulic gradient across site: 0.018 (ft/ft)

(16) Aquifer characteristics:	Values	Units	Method
Hydraulic conductivity	5	ft/day	Literature (USGS)
Storage coefficient	-	ft/ft	-
Aquifer thickness	-	ft	-
Effective soil porosity	-	%	-
Transmissivity	-	gal/day/ft	-

(17) Other remarks: None

APPENDIX B

HEADSPACE SCREENING METHODOLOGY

actual circumstances of exposure, diversity studies, toxicity testing or other evidence of harmful effects, as applicable. (Refer to the Development and Evaluation of Sediment Quality Assessment Guidelines, Volumes 1-4, dated November 1994, for guidance on the evaluation of concentrations of petroleum products' contaminants of concern and sediment quality conditions.)

(7) "Contaminated soil" means soil that is contaminated with petroleum or petroleum products or their chemical constituents to the extent that applicable soil cleanup target levels specified in Chapter 62-777, F.A.C., are exceeded.

(8) "Contamination" refer to the definition for "contaminated."

(9) "Discharger" means the person who has dominion or control over the petroleum or petroleum products at the time of the discharge into the environment.

(10) "Discovery" means:

(a) Observance or detection of free product in boreholes, wells, open drainage ditches, open excavations or trenches or on nearby surface water, or petroleum or petroleum products in excess of 0.01 foot in thickness in sewer lines, subsurface utility conduits or vaults, unless the product has been removed and it was confirmed that a release into the environment did not occur;

(b) Observance of visually stained soil or odor of petroleum products resulting from a discharge of used oil equal to or exceeding 25 gallons on a pervious surface;

(c) Discharges of petroleum or petroleum products equal to or exceeding 25 gallons on a pervious surface;

(d) Results of analytical test on a groundwater sample that exceed the cleanup target levels referenced in Chapter 62-777, F.A.C., Table I, groundwater criteria column; or

(e) Results of analytical test on a soil sample that exceed the lower of the direct exposure residential cleanup target levels and leachability based on groundwater criteria cleanup target levels specified in Chapter 62-777, F.A.C., Table II.

(11) "Engineering control" means a modification to a site to reduce or eliminate the potential for migration of, and exposure to, petroleum products' contaminants of concern. Examples of modifications include physical or hydraulic control measures, capping, point-of-use treatments, or slurry walls.

(12) "Excessively contaminated soil" for the purposes of Section 376.3071(11)(b)2., F.S. (unless laboratory results verify that the organic vapor analysis data are not relevant), means soil saturated with petroleum or petroleum products or soil that causes a total corrected hydrocarbon measurement of 500 parts per million (ppm) or higher for Gasoline Analytical Group or 50 ppm or higher for Kerosene Analytical Group. Readings shall be obtained at the site on an organic vapor analysis instrument with a flame ionization detector in the survey mode upon sampling the headspace in half-filled, eight-ounce or 16-ounce jars. Each soil sample shall be split into two jars, the two samples shall be brought to a temperature of between 20°C. (68°F.) and 32°C. (90°F.) and the readings shall be obtained five minutes thereafter. One of the readings shall be obtained with the use of an activated charcoal filter unless the unfiltered reading is non-detect. The total corrected hydrocarbon measurement

shall be determined by subtracting the filtered reading from the unfiltered reading. Instruments with a photo ionization detector may be used after a determination is made of that instrument's equivalent response to an instrument with a flame ionization detector. Photo ionization detectors shall not be used in situations where humidity will interfere with the instruments' sensitivity (including periods of rain, measuring wet or moist soil). Analytical instruments shall be calibrated in accordance with the manufacturer's instructions.

(13) "Free product" means petroleum or petroleum product in excess of 0.01 foot in thickness, measured at its thickest point, floating on surface water or groundwater.

(14) "Gasoline Analytical Group" means aviation gasoline, gasohol, and motor gasoline or equivalent petroleum products.

(15) "Groundwater" means water beneath the surface of the ground within a zone of saturation, whether or not flowing through known or definite channels.

(16) "Innovative technology" means a process that has been tested and used as a treatment for contamination, but lacks an established history of full-scale use and information about its cost and how well it works sufficient to support prediction of its performance under a variety of operating conditions. An innovative technology is one that is undergoing pilot-scale treatability studies, which usually are performed in the field or the laboratory and require installation of the technology, and which provide performance, cost, and design objectives for the technology prior to full scale use.

(17) "Institutional control" means a restriction on use of, or access to, a site to eliminate or minimize exposure to petroleum products' contaminants of concern. Examples of institutional controls include deed restrictions, use restrictions, or restrictive zoning.

(18) "Kerosene Analytical Group" means diesel, Jet-A, Jet-B, JP-4, JP-5, and kerosene or equivalent petroleum products.

(19) "Local program" means a county or local program established pursuant to a contract in accordance with Section 376.3073, F.S., to assist the Department in the administration of the petroleum contamination site cleanup.

(20) "Monitoring well" means a well constructed with a surface seal and a sand filter pack in accordance with accepted design practices in order to provide for the collection of representative groundwater samples for laboratory analyses. Such wells may also be used to detect the presence of free product or collect water-level elevation data to aid in determining the direction of groundwater flow.

(21) "Natural attenuation" means an approach to site rehabilitation that allows natural processes to contain the spread of contamination and reduce the concentrations of petroleum products' contaminants of concern in contaminated groundwater and soil. Natural attenuation processes may include the following: sorption, biodegradation, chemical reactions with subsurface materials, diffusion, dispersion, and volatilization.

APPENDIX C
IDW MANIFEST AND ANALYTICAL RESULTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
FL6170024412	05117	1

GENERATOR

3. Generator's Name and Mailing Address: U.S. Navy - NAS Jax
6500 Roosevelt Blvd.
Jacksonville, FL 32212-5000

4. Generator's Phone (904) 281-0400

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Freehold Cartage, Inc.	NJD054126164	800/458-5229
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Fisher Industrial Service, Inc. 402 Webster Chapel Road Glencoe, AL 35905	AL0981020894	256/492-8340

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Regulated Material (Industrial Soils) RCRA & D.O.T. Non-Hazardous Profile No. 59646	012	D M	00660	G
b. Non-Regulated Material (Industrial Waters) RCRA & D.O.T. Non-Hazardous Profile No. 59647	010	D M	00550	G
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
	501/M141

15. Special Handling Instructions and Additional Information

TECHNICAL CONTACT & Mail Manifest to: Florida Environmental Compliance Corp.
800/771-1050 2418 Silver Star Road, Orlando, Florida 32804
Project No. 991006
Contact: Lane Middleton 904/281-0400

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL MANTZ		05	11	01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jon Rush		05	11	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**Mr. Greg Roof**	**DATE:**	**April 25, 2001**
FROM:	**Elena Rodriguez**	**COPIES:**	**DV FILE**
SUBJECT:	**CURSORY DATA REVIEW** **CTO 0145, NASJAX** **SDG WRO833**		
SAMPLES:	1/Soil		
	JAX-19-IDW1		

SUMMARY

The sample set for CTO 0145, NAS Jacksonville, SDG WRO833 consists of 1 soil environmental sample. The sample was analyzed for the BTEX, PAHs, RCRA Metals and percent solids.

The samples were collected by TetraTech NUS on March 21, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 and EPA methodology. A cursory review of the data contained in this SDG was performed to rule out false positive or false negative results. No significant data quality issues were noted at this time.

Elena Rodriguez

Tetra Tech NUS

Elena Rodriguez

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1			
SAMPLE DATE:	03/21/01	/ /	/ /	/ /
LABORATORY ID:	WR0833-1			
QC_TYPE:	NORMAL			
% SOLIDS:	83.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

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

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1			JAX-19-IDW1RA								
SAMPLE DATE:	03/21/01			03/21/01			/ /			/ /		
LABORATORY ID:	WR0833-1			WR0833-1RA								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	83.0 %			83.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	24	U		24	U							
2-METHYLNAPHTHALENE	24	U		24	U							
ACENAPHTHENE	24	U		24	U							
ACENAPHTHYLENE	24	U		24	U							
ANTHRACENE	24	U		24	U							
BENZO(A)ANTHRACENE	24	U		24	U							
BENZO(A)PYRENE	24	U		24	U							
BENZO(B)FLUORANTHENE	24	U		12	J	P						
BENZO(G,H,I)PERYLENE	24	U		24	U							
BENZO(K)FLUORANTHENE	24	U		24	U							
CHRYSENE	24	U		24	U							
DIBENZO(A,H)ANTHRACENE	24	U		24	U							
FLUORANTHENE	24	U		24	U							
FLUORENE	24	U		24	U							
INDENO(1,2,3-CD)PYRENE	24	U		24	U							
NAPHTHALENE	24	U		24	U							
PHENANTHRENE	24	U		24	U							
PYRENE	24	U		24	U							

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1											
SAMPLE DATE:	03/21/01			/ /			/ /			/ /		
LABORATORY ID:	WR0833-001											
QC_TYPE:	NORMAL											
% SOLIDS:	83.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/KG											
FIELD DUPLICATE OF:												

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.31	U										
BARIUM	12.8											
CADMIUM	0.02	U										
CHROMIUM	4.6											
LEAD	2.3											
MERCURY	0.01	U										
SELENIUM	1.0											
SILVER	0.11	U										

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1			
SAMPLE DATE:	03/21/01	/ /	/ /	/ /
LABORATORY ID:	WR0833-1			
QC_TYPE:	NORMAL			
% SOLIDS:	83.0 %	100.0 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANIC PARAMETERS												
TOTAL RESIDUE(%)	83											

WR0833

HOLDING TIME

04/23/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	JAX-19-IDW1	WR0833-1	NORMAL	WR0833	BTEX	03/21/01	03/24/01	03/24/01	3	0	3
MG/KG	JAX-19-IDW1	WR0833-001	NORMAL	WR0833	HG	03/21/01	03/27/01	03/29/01	6	2	8
MG/KG	JAX-19-IDW1	WR0833-001	NORMAL	WR0833	M	03/21/01	04/02/01	04/04/01	12	2	14
UG/KG	JAX-19-IDW1	WR0833-1	NORMAL	WR0833	PAH	03/21/01	03/27/01	04/13/01	6	17	23
UG/KG	JAX-19-IDW1RA	WR0833-1RA	NORMAL	WR0833	PAH	03/21/01	03/27/01	04/16/01	6	20	26
%	JAX-19-IDW1	WR0833-1	NORMAL	WR0833	TR	03/21/01	03/28/01	03/29/01	7	1	8

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1	JAX-19-IDW1RA	/ /	/ /
SAMPLE DATE:	03/21/01	03/21/01		
LABORATORY ID:	WR0833-1	WR0833-1RA		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	83.0 %	83.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	24	U		24	U							
2-METHYLNAPHTHALENE	24	U		24	U							
ACENAPHTHENE	24	U		24	U							
ACENAPHTHYLENE	24	U		24	U							
ANTHRACENE	24	U		24	U							
BENZO(A)ANTHRACENE	24	U		24	U							
BENZO(A)PYRENE	24	U		24	U							
BENZO(B)FLUORANTHENE	24	U		12	J							
BENZO(G,H,I)PERYLENE	24	U		24	U							
BENZO(K)FLUORANTHENE	24	U		24	U							
CHRYSENE	24	U		24	U							
DIBENZO(A,H)ANTHRACENE	24	U		24	U							
FLUORANTHENE	24	U		24	U							
FLUORENE	24	U		24	U							
INDENO(1,2,3-CD)PYRENE	24	U		24	U							
NAPHTHALENE	24	U		24	U							
PHENANTHRENE	24	U		24	U							
PYRENE	24	U		24	U							

just reprint
Thanks.

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0833

SAMPLE NUMBER:	JAX-19-IDW1			
SAMPLE DATE:	03/21/01	/ /	/ /	/ /
LABORATORY ID:	WR0833-001			
QC_TYPE:	NORMAL			
% SOLIDS:	83.0 %	100.0 %	100.0 %	100.0 %
UNITS:	MG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.31	~~B~~ U										
BARIUM	12.8											
CADMIUM	0.02	U										
CHROMIUM	4.6											
LEAD	2.3											
MERCURY	0.01	U										
SELENIUM	1.0											
SILVER	0.11	U										

TETRA TECH NUS, INC.
NAS JACKSONVILLE
WR0833

FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

April 20, 2001

Katahdin
ANALYTICAL SERVICES

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS JACKSONVILLE
TASK ORDER MANAGER: GREGORY ROOF

Sample Receipt

The following samples were received on March 22, 2001 and were logged in under Katahdin Analytical Services work order numbers WR0833 for a hardcopy due date of April 19, 2001.

KATAHDIN	TTNUS
Sample No.	Sample Identification
WR0833-1	JAX-19-IDW1

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organic Analysis

One soil/sediment sample was received by the Katahdin GC/MS laboratory on March 22, 2001, and was specified to be analyzed and quantitated for MTBE, benzene, toluene, ethylbenzene, and xylenes (total) in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5970-Q instrument.

Batch QC (VBLK and LCS) was performed in the twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. No matrix spike/matrix spike duplicate pair was analyzed on the sample in this workorder.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curve analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 8.1%, the curve was acceptable.

0000002

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

Semivolatile Organics Analysis

One soil/sediment sample was received by the Katahdin Analytical Services laboratory on March 22, 2001 and was specified for analysis in accordance with 8270C for the PAH list of analytes using selected ion monitoring (SIM) to achieve low detection limits.

Extraction of the sample for SIM-PAH analyses occurred following USEPA method 3550 on March 27, 2001. A laboratory control spike/laboratory control spike duplicate pair was extracted in the batch.

Analysis of the LCS, LCSD, and sample WR0833-1 yielded internal standard area recovery deviations. Reanalysis of the sample yielded similar results.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

No other protocol deviations were noted by the semivolatiles organics staff.

Metals Analysis

The samples of Katahdin Work Order WR0833 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Soil-matrix Katahdin Sample No. WR0833-001 was digested for ICP analysis on 04/02/01 (QC Batch RD02ICS0) in accordance with USEPA Method 3050B.

ICP analyses of Katahdin Work Order WR0833 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash Trace ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please

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

http://katahdinlab.com

210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Soil-matrix Katahdin Sample No. WR0833-001 was digested for mercury analysis on 03/27/01 (QC Batch RC27HGS0) in accordance with USEPA Method 7471A. This sample was prepared with duplicate matrix-spiked aliquots.

Mercury analyses of Katahdin Work Order WR0833 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all QC criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and/or his designee, as verified by the following signature.

Hana Crouch
Authorized Signature
04/20/01

0000004

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR0804, WR0833

PAGE: 1 OF 3

COOLER: 1 OF 3

CLIENT: Tetra Tech

PROJECT:

COC#
SDG#
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SM
LIMS ENTRY BY: SM
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	~~☑ SM~~	~~☐ SM~~	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= ~~2.1 SM~~ 1.2	AC notified client by fax 3/23/01
COOLER TEMP (°C)= ~~2.1 SM~~ NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR0804

PAGE: 2 OF 3

COOLER: 2 OF 3

CLIENT: Tetra Tech

PROJECT:

COC#
SDG#
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: MC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2?	☐	☑	☐
(ICE) / ICE PACKS PRESENT (Y) or N?			
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☐	☐	☑
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 1.7	ADC notified via email for 3/23/01
COOLER TEMP (°C)= NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

6

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

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

LAB (WORK ORDER) #: WR0804

PAGE: 3 OF 3

COOLER: 3 OF 3

CLIENT: Tetra Tech

PROJECT:

COC#:
SDG#:
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SC
LIMS ENTRY BY: SC
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 2.5	
COOLER TEMP (°C)= ~~2.7~~ NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JAx/9- 032101-3

PAGE 1 OF 1

PROJECT NO: 0A 3870	SITE NAME: old gas station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Greg N. Roof, Alan Pate	FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400
CARRIER/WAYBILL NUMBER: Fedex # 7924 0455 3997	ADDRESS: 340 County Rd. No. 5
STANDARD TAT ☒ RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day	CITY, STATE: Westbrook, ME 04092

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: BTEX + MTBE SW-846 8021B	PAH SW-846 8310	RCRA Metals SW-846 6010B					COMMENTS
3/21	1210	JAX-19-1DW1	Soil	C	5	3	-	1	1						Cool to 4°C

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Greg N. Roof	3/21/01	1600	1. RECEIVED BY: Shelby Hall	03 22 01	0920
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)

3/99

FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAx/9-032101-3 | PAGE 1 OF 1

PROJECT NO: 03870	SITE NAME: old gas station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Greg A. Roof / Alan Pate	FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400
	ADDRESS: 340 County Rd. No. 5
CARRIER/WAYBILL NUMBER: Fedex #7924 0455 3997	CITY, STATE: Westbrook, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: BTEX + MTBE SW-846 8021B	PAH SW-846 8310	RCRA metals SW-846 6010B	COMMENTS
						P	-				
						G	-				
						G	-				
3/21	1210	JAx-19-IDW1	Soil	C	5	3	1	1			Cool to 4°C

1. RELINQUISHED BY: Greg A. Roof	DATE 3/21/01	TIME 1600	1. RECEIVED BY: Shelby Hall	DATE 03-22-01	TIME 0920
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)

3/99
FORM NO. TtNUS-001

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0833-1
SDG: WR0833
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-IDW1	SL	3/21/01	3/22/01	3/24/01	BEG	5035	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/Kg	1.2	2	2
BENZENE	<2	ug/Kg	1.2	2	2
ETHYLBENZENE	<2	ug/Kg	1.2	2	2
TOTAL XYLENES	<6	ug/Kg	1.2	6	5
MTBE	<2	ug/Kg	1.2	2	2
1,2-DICHLOROETHANE-D4	70	%	1.2		
DIBROMOFLUOROMETHANE	80	%	1.2		
TOLUENE-D8	81	%	1.2		
P-BROMOFLUOROBENZENE	90	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-13	Internal standard area(s) are out of criteria. Reanalysis confirmedmatrix interference.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0833-1
SDG: WR0833
Report Date: 4/19/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8270
Date Analyzed: 4/13/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-IDW1	SL	3/21/01	3/22/01	3/27/2001	PMM	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<24	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
ACENAPHTHYLENE	<24	ug/Kg	1.2	24	20
ACENAPHTHENE	<24	ug/Kg	1.2	24	20
FLUORENE	<24	ug/Kg	1.2	24	20
PHENANTHRENE	<24	ug/Kg	1.2	24	20
ANTHRACENE	<24	ug/Kg	1.2	24	20
FLUORANTHENE	<24	ug/Kg	1.2	24	20
PYRENE	<24	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	<24	ug/Kg	1.2	24	20
CHRYSENE	<24	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[A]PYRENE	<24	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	<24	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	<24	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
NITROBENZENE-D5	69	%	1.2		
2-FLUOROBIPHENYL	56	%	1.2		
TERPHENYL-D14	86	%	1.2		

Report Notes: O-13

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-IDW1

Matrix: SOIL **SDG Name:** WR0833

Percent Solids: 83.4 **Lab Sample ID:** WR0833-001

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	0.31	B		P	1
7440-39-3	BARIUM	12.8			P	1
7440-43-9	CADMIUM	0.02	U		P	1
7440-47-3	CHROMIUM	4.6			P	1
7439-92-1	LEAD	2.3			P	1
7439-97-6	MERCURY	0.01	U		CV	1
7782-49-2	SELENIUM	1.0			P	1
7440-22-4	SILVER	0.11	U		P	1

Color Before: GREY Texture: FINE

Color After: COLORLESS Clarity After: CLEAR

Comments:

APPENDIX D
SOIL BORING LOGS

Tetra Tech NUS, Inc.
7018 AC Skinner Pkwy, Suite 250
Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB01**
TOTAL DEPTH: **9 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0101	1		
2							
3				SB-0103	0.5		
4							
5				SB-0105	0		
6							
7 ▽				SB-0107	0		
8				SB01 5'-9' (GW)			
9							

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Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB02**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION

PROJECT: **Old Gas Station**
SITE LOCATION: **NAS Jacksonville**
JOB NO.: **CTO 145**
LOGGED BY: **Alan Pate**
PROJECT MANAGER: **Greg Roof**
DATES DRILLED: **3/5/01**

DRILLING INFORMATION

DRILLING COMPANY: **Partridge Drilling**
DRILLER:
RIG TYPE: **B-3500**
DRILLING METHOD: **DPT**
SAPLING METHOD: **Core Samplers**

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0201	0		
3				SB-0203	0		
5				SB-0205	0		
6 ▽				SB-0206	9.6		
7				SB02 6'-10' (GW)			
10							

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Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB03**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION

PROJECT: **Old Gas Station**
SITE LOCATION: **NAS Jacksonville**
JOB NO.: **CTO 145**
LOGGED BY: **Alan Pate**
PROJECT MANAGER: **Greg Roof**
DATES DRILLED: **3/5/01**

DRILLING INFORMATION

DRILLING COMPANY: **Partridge Drilling**
DRILLER:
RIG TYPE: **B-3500**
DRILLING METHOD: **DPT**
SAPLING METHOD: **Core Samplers**

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0301	0		
2							
3				SB-0303	0		
4							
5							
6 ▽				SB-0306 SB03 6'-10' (GW)	269		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB04**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material	SB-0401	0		
1–2			Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles				
2–3							
3–4				SB-0403	0		
4–5							
5–6							
6 ⧖				SB-0406	1.9		
6–7				SB04 6'-10' (GW)			
7–8							
8–9							
9–10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB05**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0501	0		
1–3				SB-0503	0		
3–6	▽			SB-0506 SB05 6'-10' (GW)	0		
6–10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB06**
TOTAL DEPTH: **9 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0601	0		
1–3				SB-0603	0		
3–5	▽			SB-0605 SB06 5'-9' (GW)	0		
5–9							

Tetra Tech NUS, Inc.
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Jacksonville, Florida 32256
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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB07**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0701	0		
2–3				SB-0703	1.7		
4–5							
6 ▽				SB-0706 SB07 6'-10' (GW)	4.2		
7–8							
9–10							

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7018 AC Skinner Pkwy, Suite 250
Jacksonville, Florida 32256
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Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB08**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-0801	0		
2–3				SB-0803	0.5		
4–5							
6 ▽				SB-0806 SB08 6'-10' (GW)	58.7		
7–8							
9–10							

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7018 AC Skinner Pkwy, Suite 250
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Fax: (904) 281-0070

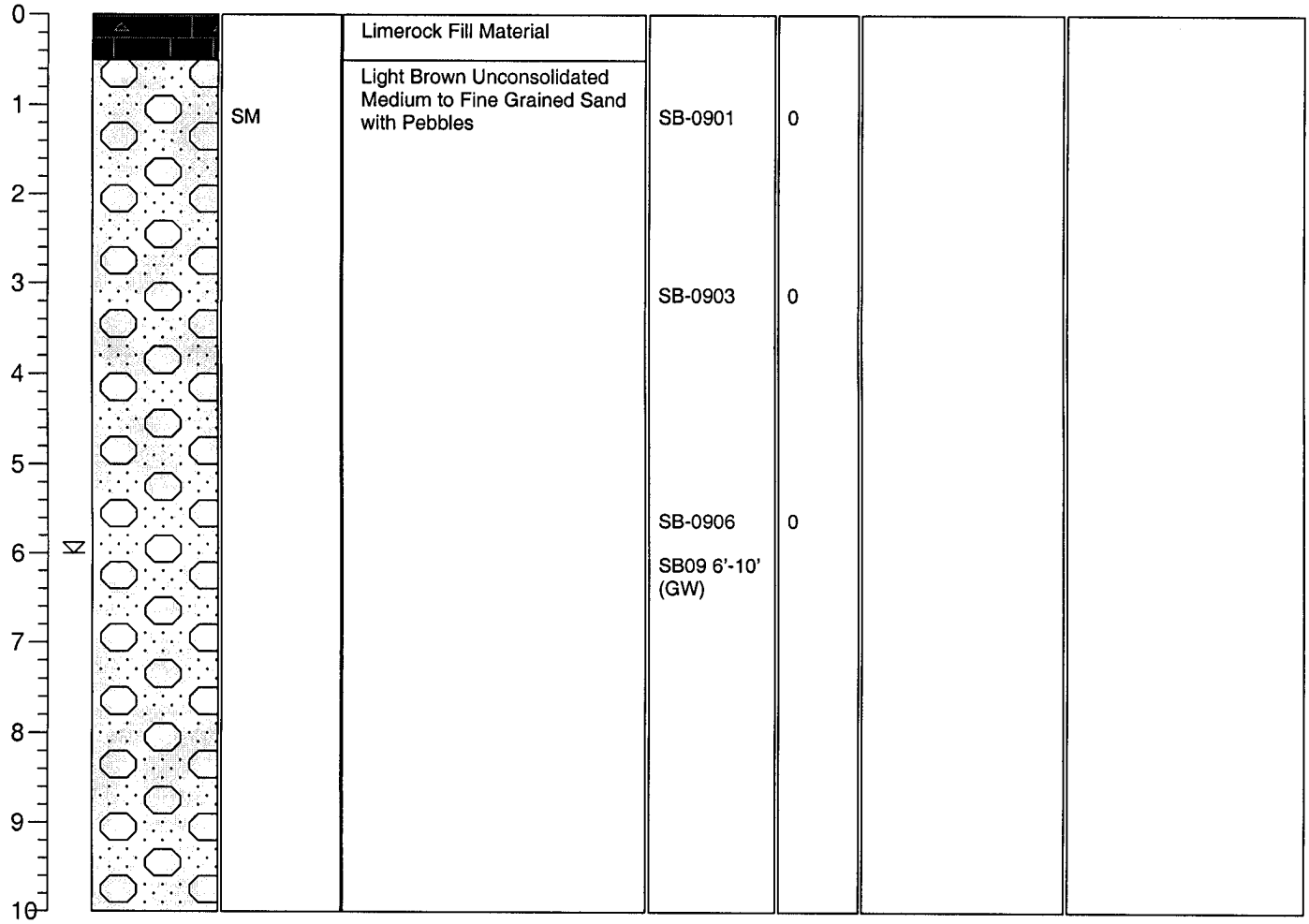
FIELD BOREHOLE LOG

BOREHOLE NO.: **SB09**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION

Tetra Tech NUS, Inc.
7018 AC Skinner Pkwy, Suite 250
Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB10**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1001	3.0		
1–2							
2–3				SB-1003	0		
3–4							
4–5							
5–6				SB-1006	0		
6 ▽				SB10 6'-10' (GW)			
6–7							
7–8							
8–9							
9–10							

Tetra Tech NUS, Inc.
7018 AC Skinner Pkwy, Suite 250
Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

FIELD BOREHOLE LOG

BOREHOLE NO.: **SB11**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/5/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1101	0		
2–3				SB-1103	0		
4–5							
6 ⧖				SB-1106 SB11 6'-10' (GW)	227.8		
7–10							

Tetra Tech NUS, Inc.
7018 AC Skinner Pkwy, Suite 250
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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB12**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1			Limerock Fill Material				
1–6	▽	SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1201	0		
3				SB-1203	0		
6				SB-1206	19.1		
6				SB12 6'-10' (GW)			
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB13**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1301	0		
2–3				SB-1303	0		
4–5							
6 ▽				SB-1306 SB13 6'-10' (GW)	0		
7–10							

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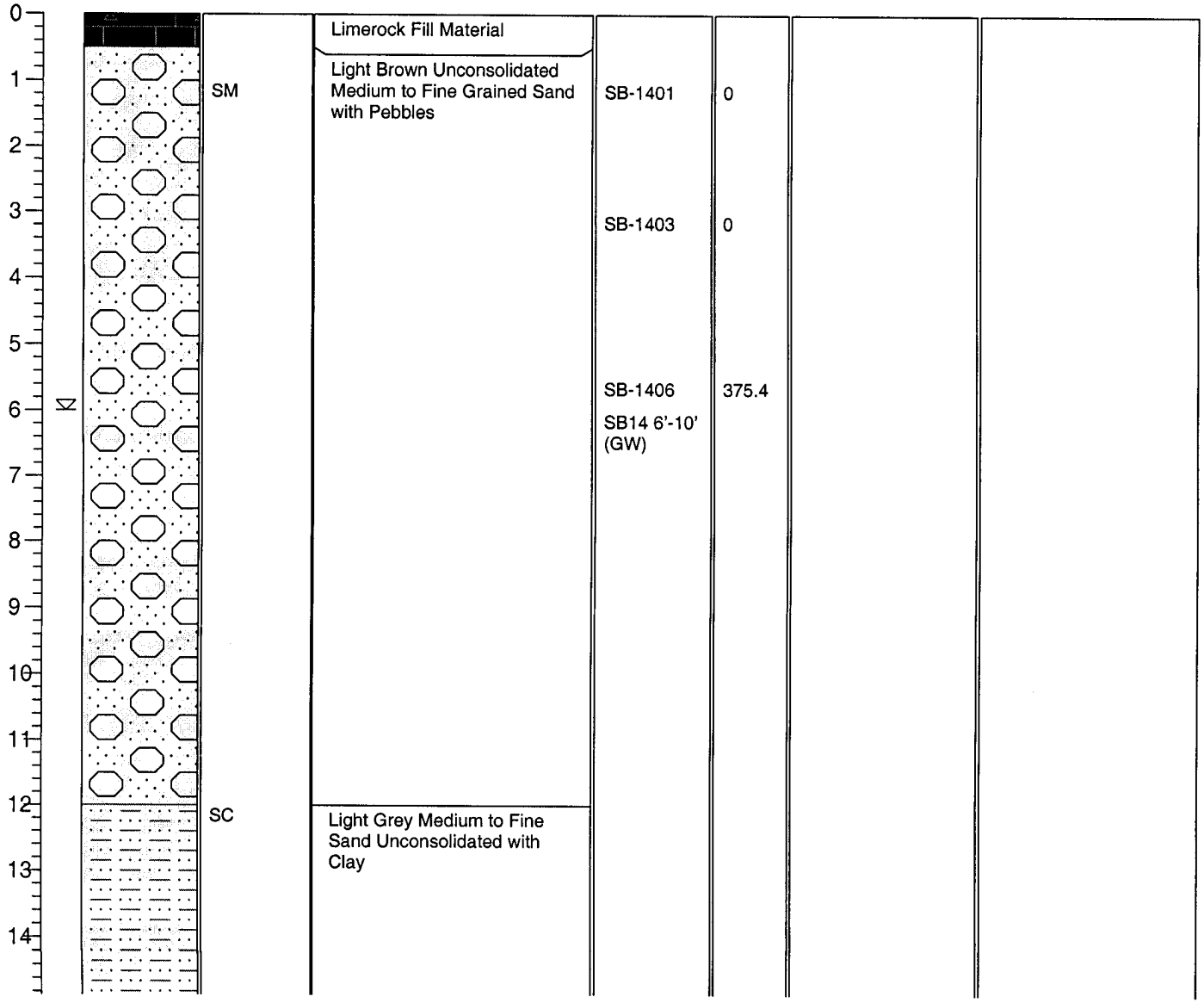
FIELD BOREHOLE LOG

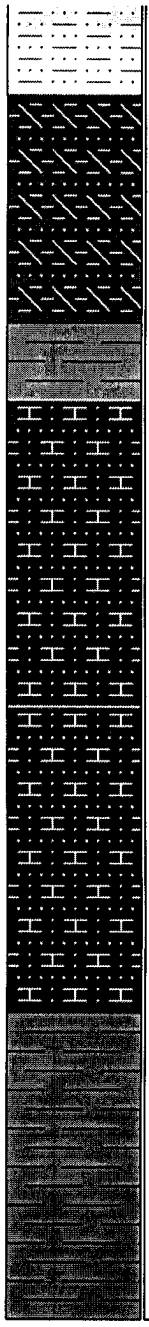
BOREHOLE NO.: **SB14**
TOTAL DEPTH: **32 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**M. Nicholson**
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01 & 3/7/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
15–32		SC CL	Light Brown Unconsolidated Clayey Sand Medium Grey Tight Clay Lens Dark Grey Tight Clay with Fragments (shells & pebbles) Dark Grey Tight Clay with Fragments (shells) Dark Grey Tight Consolidated Clay	SB14D 26'-30' (GW)			

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB15**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1501	0		
1–2							
2–3				SB-1503	0		
3–4							
4–5							
5–6	▽			SB-1506 SB15 6'-10' (GW)	1.4		
6–7							
7–8							
8–9							
9–10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB16**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1601	0		
2							
3				SB-1603	0		
4							
5							
6 ▽				SB-1606 SB16 6'-10' (GW)	0		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB17**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1701	0		
2–3				SB-1703	0		
4–5							
6 ▽				SB-1706 SB17 6'-10' (GW)	0		
7–8							
9–10							

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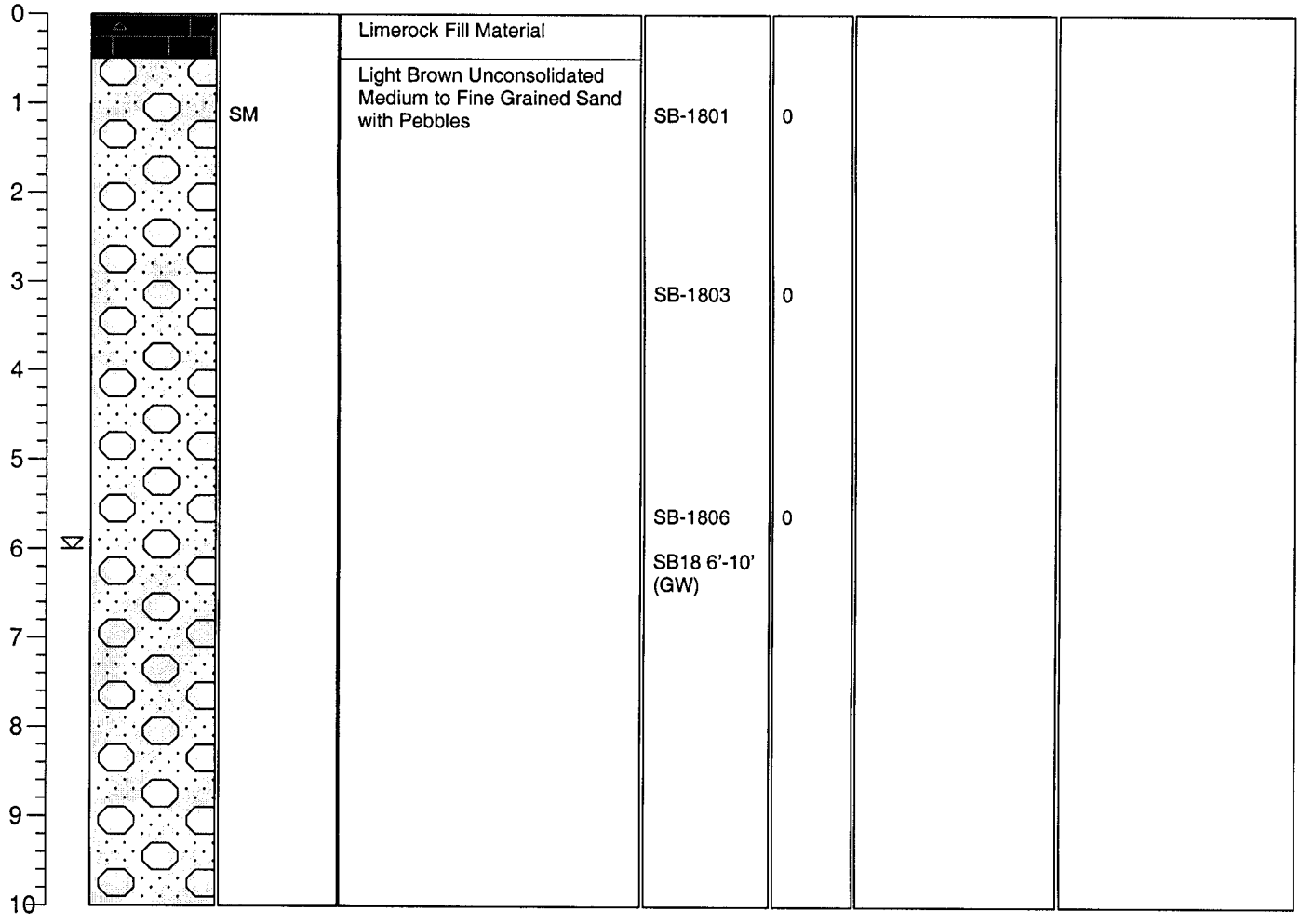
FIELD BOREHOLE LOG

BOREHOLE NO.: **SB18**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1801	0		
2							
3				SB-1803	0		
4							
5							
6 ▽				SB-1806 SB18 6'-10' (GW)	0		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB19**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-1901	0		
2							
3				SB-1903	0		
4							
5							
6 ⧖				SB-1906 SB19 6'-10' (GW)	0		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB20**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material				
			Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2001	0		
2–3				SB-2003	0		
4–5							
6 ▽				SB-2006	0		
				SB20 6'-10' (GW)			
7–10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB21**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2101	0		
2							
3				SB-2103	0		
4							
5							
6 ▽				SB-2106 SB21 6'-10' (GW)	0		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

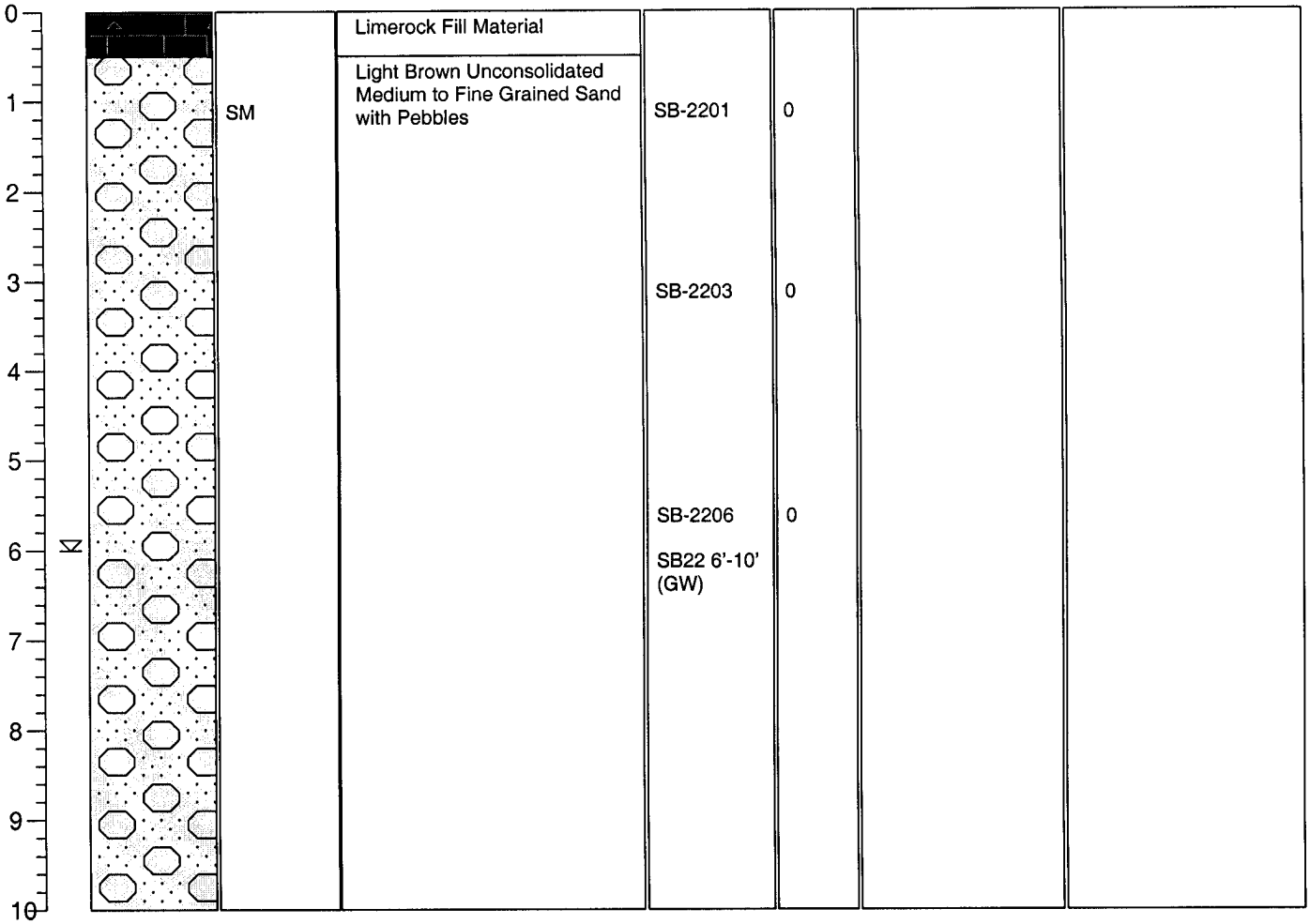
BOREHOLE NO.: **SB22**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1			Limerock Fill Material				
1–6		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2201	0		
3				SB-2203	0		
6				SB-2206	0		
6				SB22 6'-10' (GW)			



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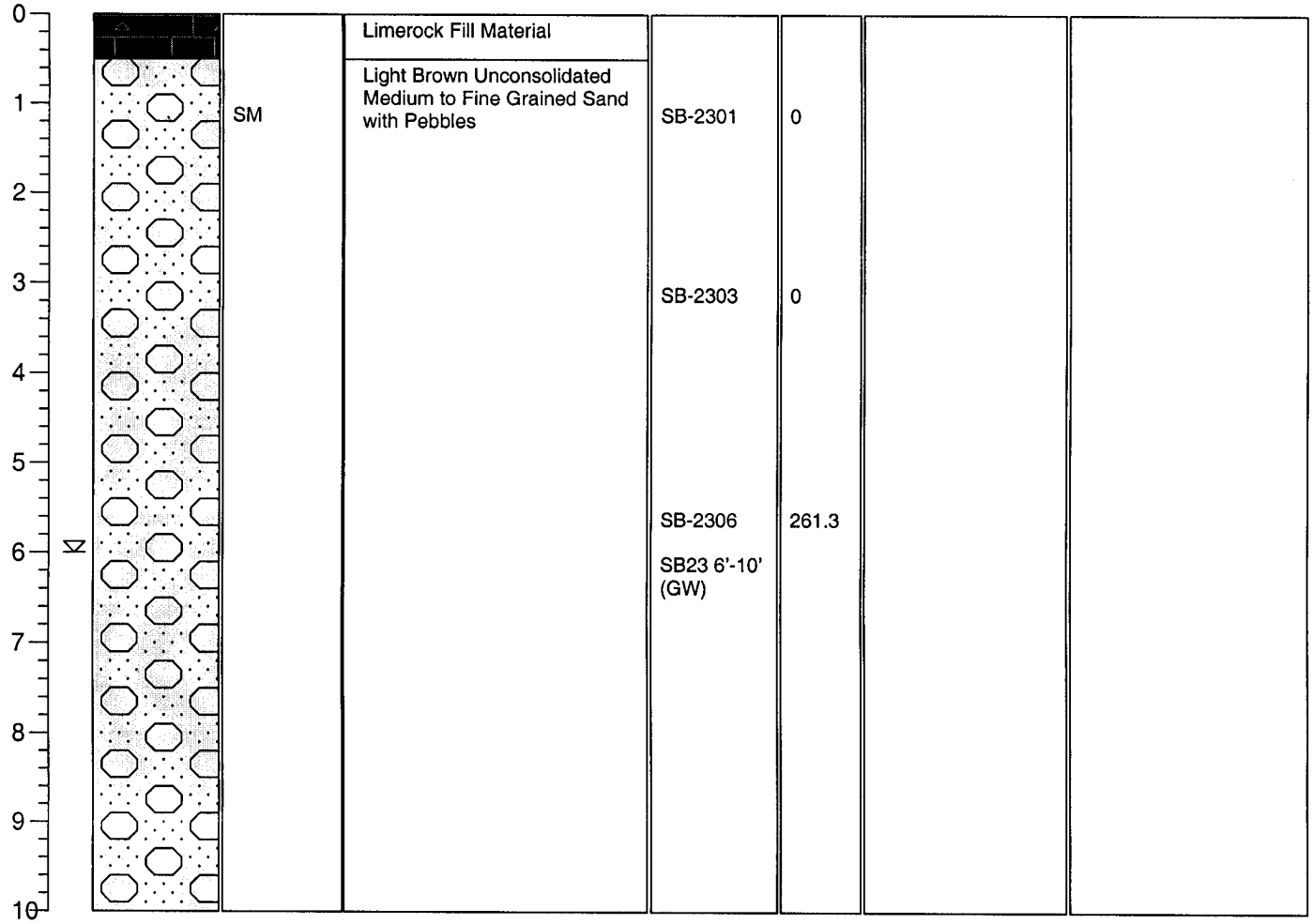
FIELD BOREHOLE LOG

BOREHOLE NO.: **SB23**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2301	0		
2							
3				SB-2303	0		
4							
5							
6				SB-2306 SB23 6'-10' (GW)	261.3		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB24**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2401	0		
2							
3				SB-2403	0		
4							
5							
6 ▽				SB-2406 SB24 6'-10' (GW)	0.2		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

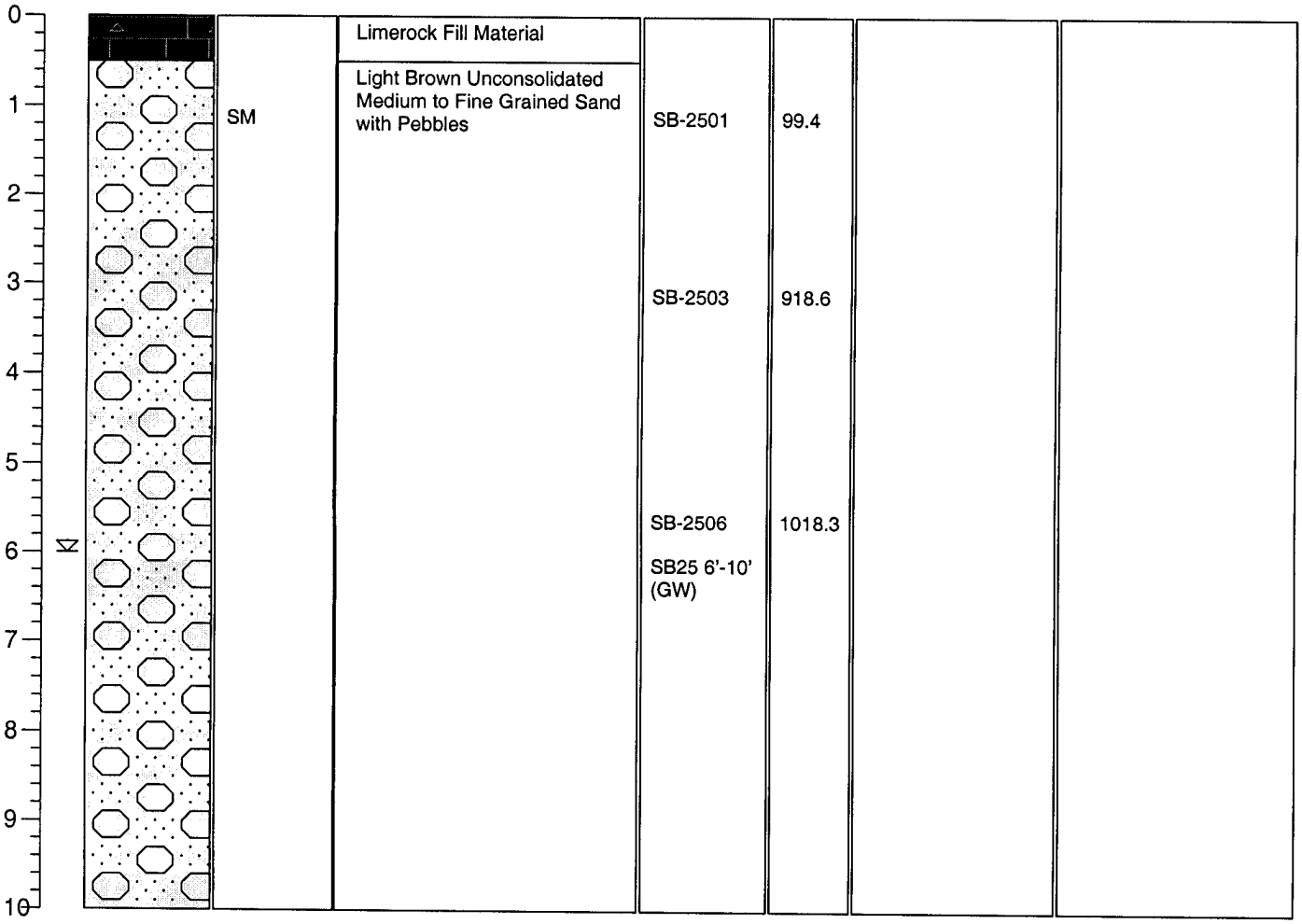
BOREHOLE NO.: **SB25**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material				
1–10		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2501 SB-2503 SB-2506 SB25 6'-10' (GW)	99.4 918.6 1018.3		



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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB26**
TOTAL DEPTH: **7 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**Hand Auger**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Hand Auger**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2601	0		
2–3				SB-2603	0		
4–5	▽			SB-2605	0.5		
6–7				SB26 6'-10' (GW)			

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB27**
TOTAL DEPTH: **7 feet**

PROJECT INFORMATION

PROJECT: **Old Gas Station**
SITE LOCATION: **NAS Jacksonville**
JOB NO.: **CTO 145**
LOGGED BY: **Alan Pate**
PROJECT MANAGER: **Greg Roof**
DATES DRILLED: **3/6/01**

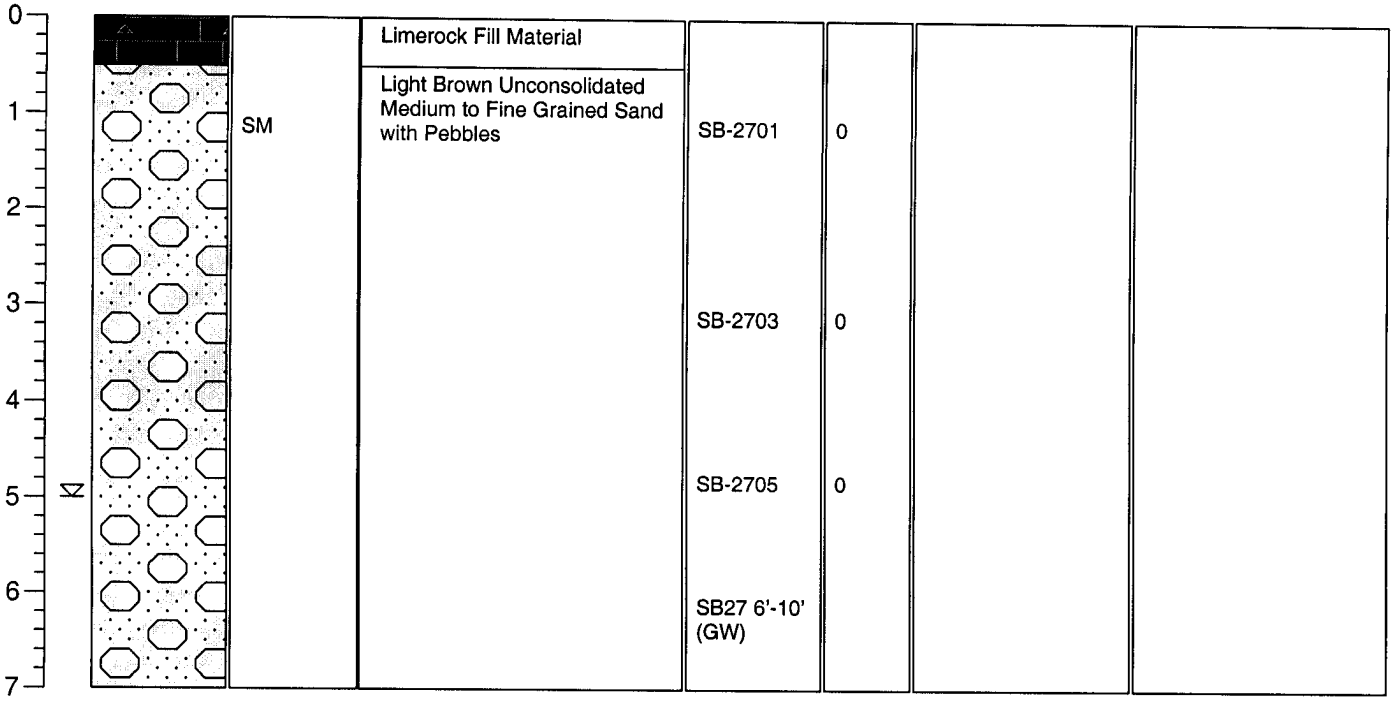
DRILLING INFORMATION

DRILLING COMPANY: **Partridge Drilling**
DRILLER:
RIG TYPE: **B-3500**
DRILLING METHOD: **Hand Auger**
SAPLING METHOD: **Hand Auger**

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1		SM	Limerock Fill Material				
1–7		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2701 SB-2703 SB-2705 SB27 6'-10' (GW)	0 0 0		



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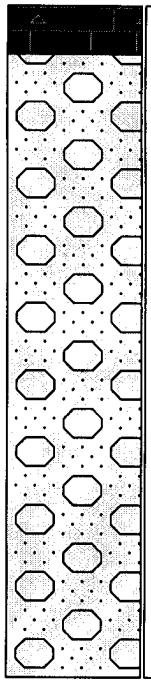
FIELD BOREHOLE LOG

BOREHOLE NO.: **SB28**
TOTAL DEPTH: **7 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**Hand Auger**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Hand Auger**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–7		SM	Limerock Fill Material Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2801 SB-2803 SB-2805 SB28 6'-10' (GW)	0 0 0		

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB29**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/6/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-2901	0		
2							
3				SB-2903	0		
4							
5	⧖			SB-2905	2.3		
6				SB29 6'-10' (GW)			
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB30**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/7/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-3001	0		
2							
3				SB-3003	0		
4							
5							
6 ▽				SB-3006 SB30 6'-10' (GW)	0		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB31**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/7/01**		

NOTES: Overcast, ~75 degF

⧖ Water level during drilling
⧗ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-3101	0		
2							
3				SB-3103	0		
4							
5							
6 ⧖				SB-3106 SB31 6'-10' (GW)	-		
7							
8							
9							
10							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB32**
TOTAL DEPTH: **10 feet**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**3/7/01**		

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles	SB-3201	0		
2							
3				SB-3203	0		
4							
5							
6 ▽				SB-3206 SB32 6'-10' (GW)	11		
7							
8							
9							
10							

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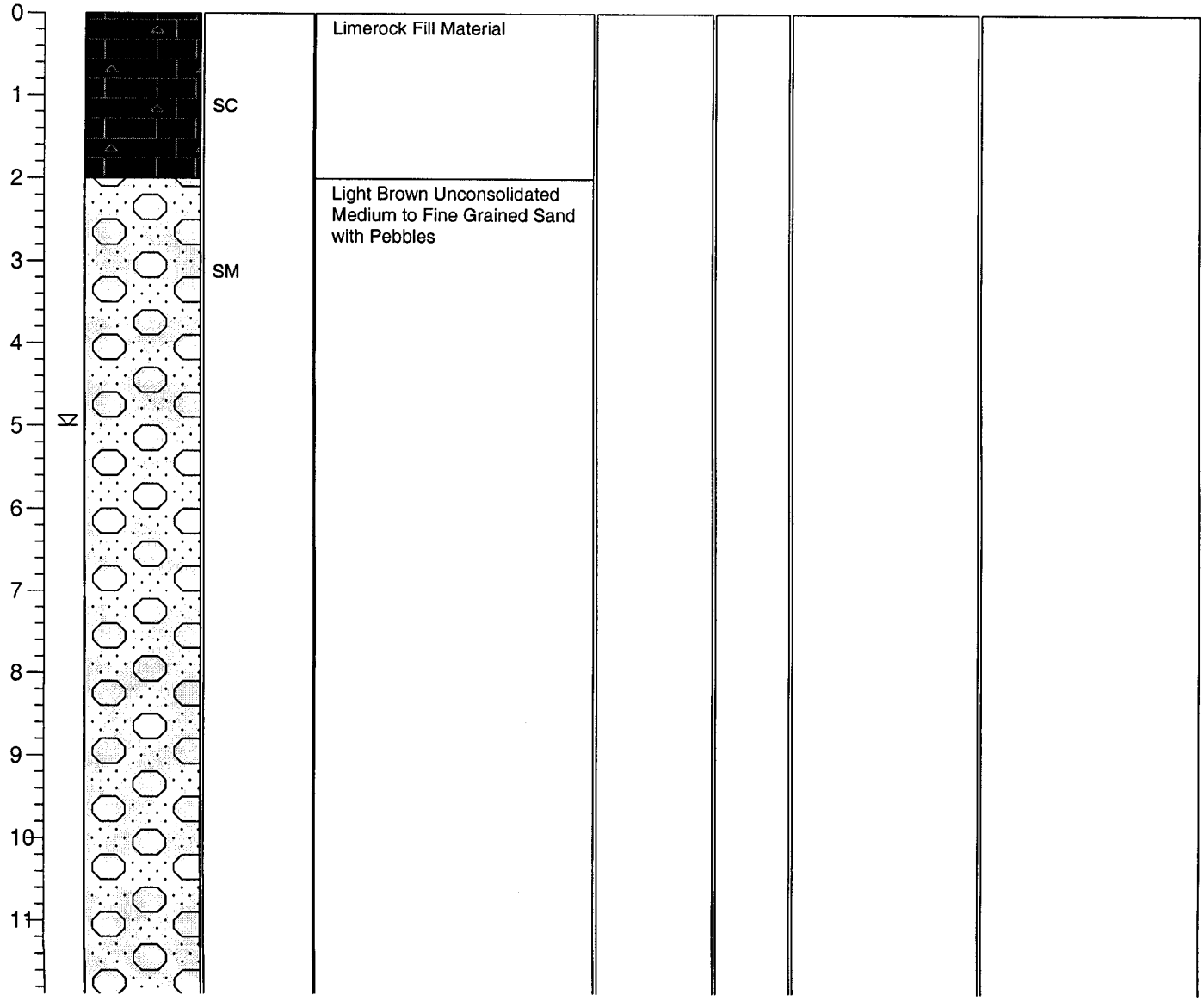
FIELD BOREHOLE LOG

BOREHOLE NO.: **SB33**
TOTAL DEPTH: **20 feet**

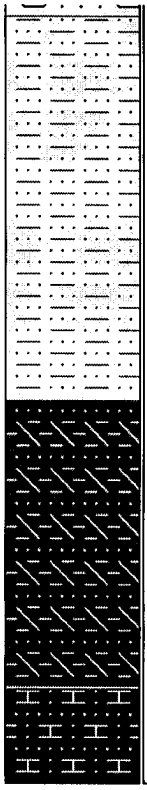
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**Old Gas Station**	DRILLING COMPANY:	**Partridge Drilling**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**M. Nicholson**
JOB NO.:	**CTO 145**	RIG TYPE:	**B-3500**
LOGGED BY:	**Greg Roof**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Mark Peterson**	SAPLING METHOD:	**Core Samplers**
DATES DRILLED:	**7/2/01**		**140 lb., 30in.**

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Limerock Fill Material				
1		SC					
2			Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles				
3		SM					
4							
5 ▽							
6							
7							
8							
9							
10							
11							

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
12		SC	Light Grey Medium to Fine Sand Unconsolidated with Clay				
13							
14							
15							
16			Light Brown Unconsolidated Clayey Sand				
17							
18							
19		CL	Dark Grey Tight Clay with Fragments (shells)				
20							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **SB34**
TOTAL DEPTH: **22 feet**

PROJECT INFORMATION

PROJECT: **Old Gas Station**
SITE LOCATION: **NAS Jacksonville**
JOB NO.: **CTO 145**
LOGGED BY: **Alan Pate**
PROJECT MANAGER: **Greg Roof**
DATES DRILLED: **7/2/01**

DRILLING INFORMATION

DRILLING COMPANY: **Partridge Drilling**
DRILLER: **M. Nicholson**
RIG TYPE: **B-3500**
DRILLING METHOD: **HSA**
SAPLING METHOD: **Core Samplers**

NOTES: Overcast, ~75 degF

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1			Limerock Fill Material				
1–11	▽	SM	Light Brown Unconsolidated Medium to Fine Grained Sand with Pebbles				

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
12							
13							
14							
15							
16		SC	Light Brown Unconsolidated Clayey Sand				
17							
18							
19		CL	Dark Grey Tight Clay with Fragments (shells)				
20							
21							
22							

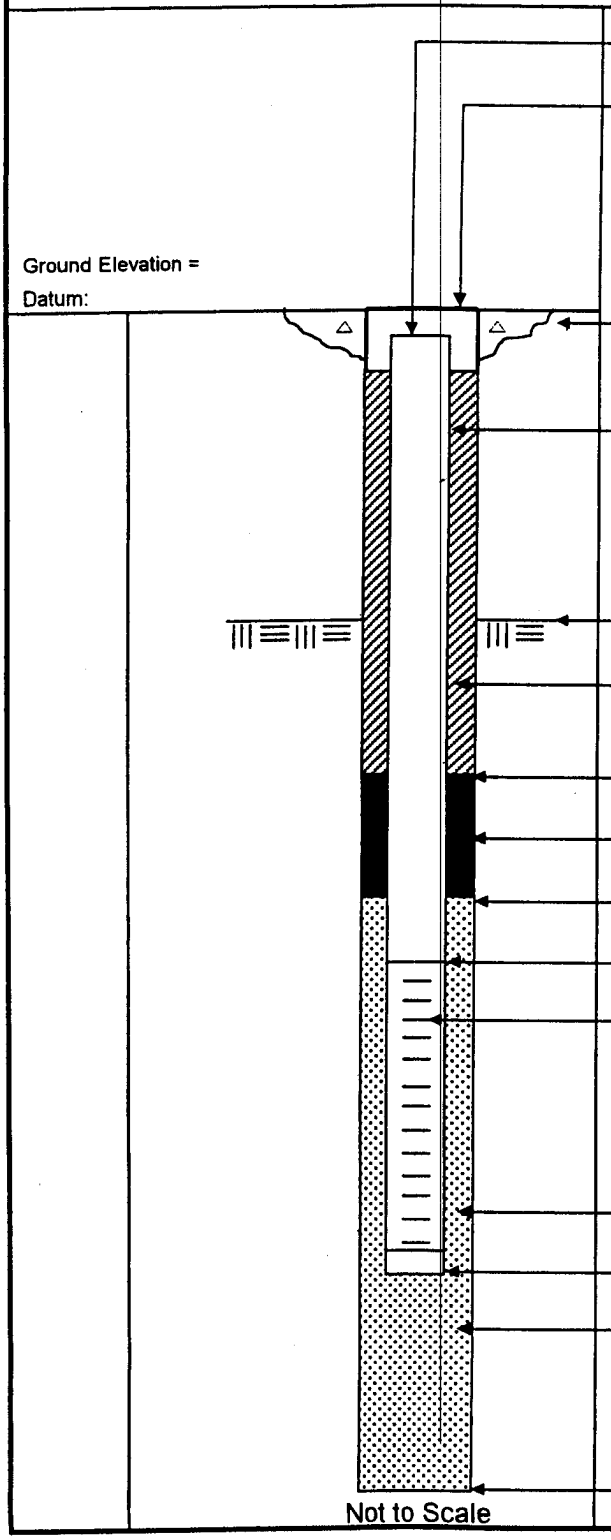
APPENDIX E
WELL COMPLETION LOGS

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST14-MW01

MONITORING WELL SHEET

PROJECT:	~~NAS CECIL FIELD~~ OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	SB14
PROJECT No.:	~~0039-M3870~~	DRILLER:	MIKE NICHOLSON	DATE COMPLETED:	3/8/01
SITE:		DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	PERISTALTIC	EASTING:	



Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing:

Type of Surface Casing:

Type of Surface Seal: TYPE I-II PORTLAND CEMENT GROUT

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 4.25

Elevation / Depth Top of Rock: NA /

Type of Backfill: TYPE I-II PORTLAND CEMENT GROUT

Elevation / Depth of Seal: 13' /

Type of Seal: 30-65 SAND

Elevation / Depth of Top of Filter Pack: 15' /

Elevation / Depth of Top of Screen: 17' /

Type of Screen: PVC SLOTTED

Slot Size x Length: 0.01 / 5ft.

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND

Elevation / Depth of Bottom of Screen: 22' /

Elevation / Depth of Bottom of Filter Pack: 22' /

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 32' /

Tetra Tech NUS, Inc.

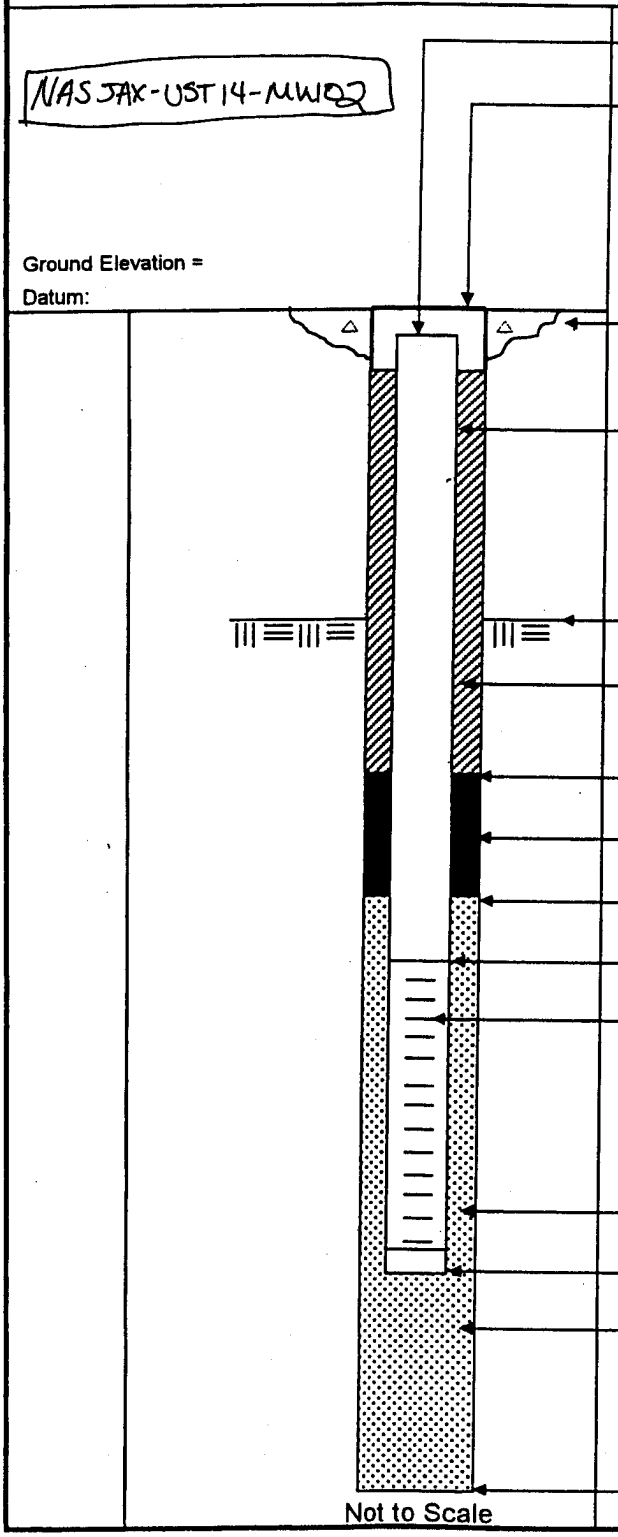
WELL No.: NAS JAX-UST14-MW02

MONITORING WELL SHEET

PROJECT: ~~NAS CECIL FIELD~~ OLD GAS STATION
PROJECT No.: ~~0039~~ N3870
SITE:
GEOLOGIST: A. PATE

DRILLING Co.: PARTRIDGE
DRILLER: MIKE NICHOLSON
DRILLING METHOD: HSA
DEV. METHOD: PERISTALTIC

BORING No.: SB14
DATE COMPLETED: 3/8/01
NORTHING:
EASTING:



Elevation / Depth of Top of Riser: 6" /
Elevation / Height of Top of Surface Casing: FLUSH /
I.D. of Surface Casing: 8"
Type of Surface Casing: STEEL
Type of Surface Seal: BENTONITE HOLE PLUG + GROUT
I.D. of Riser: 2"
Type of Riser: PVC
Borehole Diameter: 4.25
Elevation / Depth Top of Rock: NA /
Type of Backfill: 20-30 SAND
Elevation / Depth of Seal: 2' /
Type of Seal: BENTONITE HOLE PLUG
Elevation / Depth of Top of Filter Pack: 2' /
Elevation / Depth of Top of Screen: 3' /
Type of Screen: PVC SLOTTED
Slot Size x Length: 0.01 / 10 ft.
I.D. of Screen: 2"
Type of Filter Pack: 20-30 SAND
Elevation / Depth of Bottom of Screen: 13' /
Elevation / Depth of Bottom of Filter Pack: 13' /
Type of Backfill Below Well: 20-30 SAND
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST 14-MW03

MONITORING WELL SHEET

PROJECT: ~~NAS CECIL FIELD~~ OLD GAS STATION

PROJECT No.: ~~0039-N3870~~

SITE: NAS JAX

GEOLOGIST: A. PATE

DRILLING Co.: PARTRIDGE

DRILLER: M. NICHOLSON

DRILLING METHOD: HSA

DEV. METHOD: SUBMERSIBLE

BORING No.: SB 12

DATE COMPLETED:

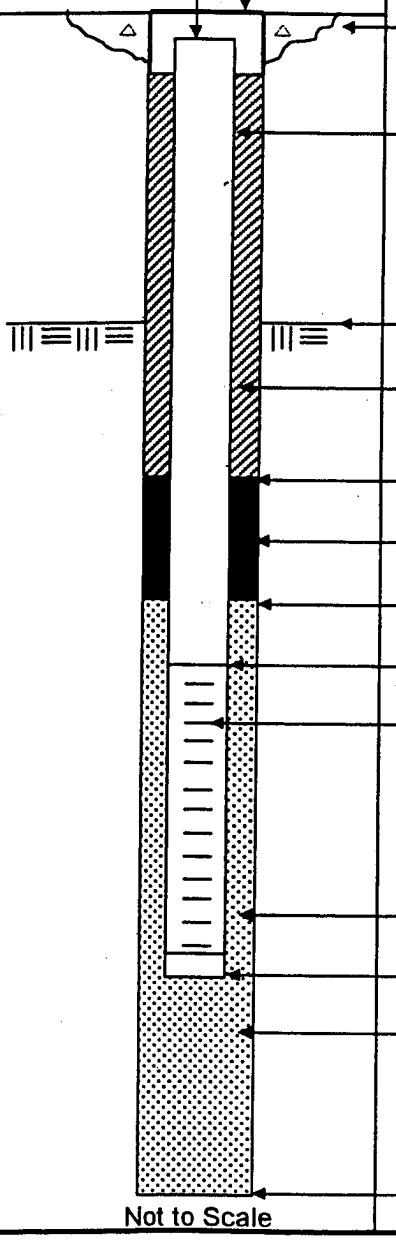
NORTHING:

EASTING:

NASJAX-UST14-MW03

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser: 6" /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing: 8"

Type of Surface Casing: STEEL

Type of Surface Seal: TYPE I-II PORTLAND GROUT

I.D. of Riser: 2"

Type of Riser: PVC FLUSHJOINT

Borehole Diameter: 4.25

Elevation / Depth Top of Rock: NA /

Type of Backfill: 20-30 SAND

Elevation / Depth of Seal: 2' /

Type of Seal: BENTONITE HOLE PLUG

Elevation / Depth of Top of Filter Pack: 2' /

Elevation / Depth of Top of Screen: 3' /

Type of Screen: PVC SLOTTED

Slot Size x Length: 0.01 / 10FT

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND

Elevation / Depth of Bottom of Screen: 13' /

Elevation / Depth of Bottom of Filter Pack: 13' /

Type of Backfill Below Well: 20-30 SAND

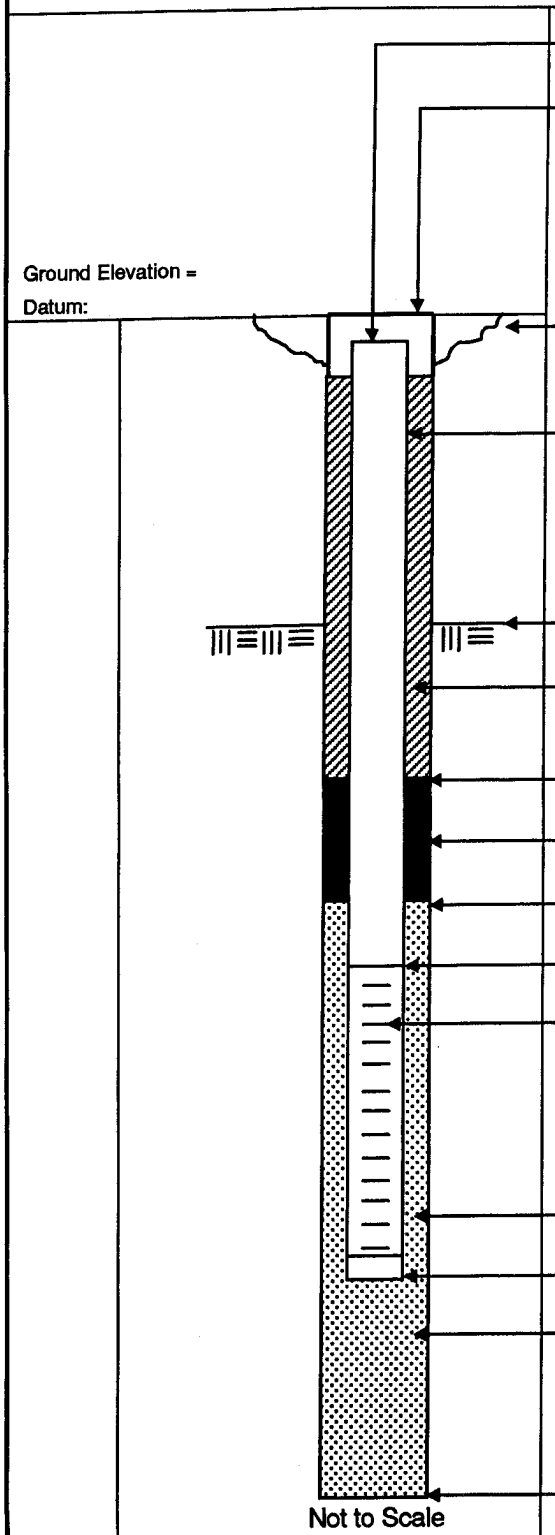
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST14-MW04

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	MW04
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/8/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Elevation / Depth of Top of Riser: 6" I

Elevation / Height of Top of Surface Casing: FLUSH I

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel

Type of Surface Seal: TYPE I-II PORTLAND CEMENT

I.D. of Riser: ~~0.14"~~ 2"

Type of Riser: PVC

Borehole Diameter: ~~2"~~ 4.25

Elevation / Depth Top of Rock: NA I

Type of Backfill: 20-30 SAND

Elevation / Depth of Seal: 2' I

Type of Seal: BENTONITE ~~30/65 Sand~~ HOLE PLUG

Elevation / Depth of Top of Filter Pack: 2' I

Elevation / Depth of Top of Screen: 3' I

Type of Screen: PVC

Slot Size x Length: 0.01/10ft

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND ~~Prepacked~~

Elevation / Depth of Bottom of Screen: 13' I

Elevation / Depth of Bottom of Filter Pack: 13' I

Type of Backfill Below Well: 20-30 SAND

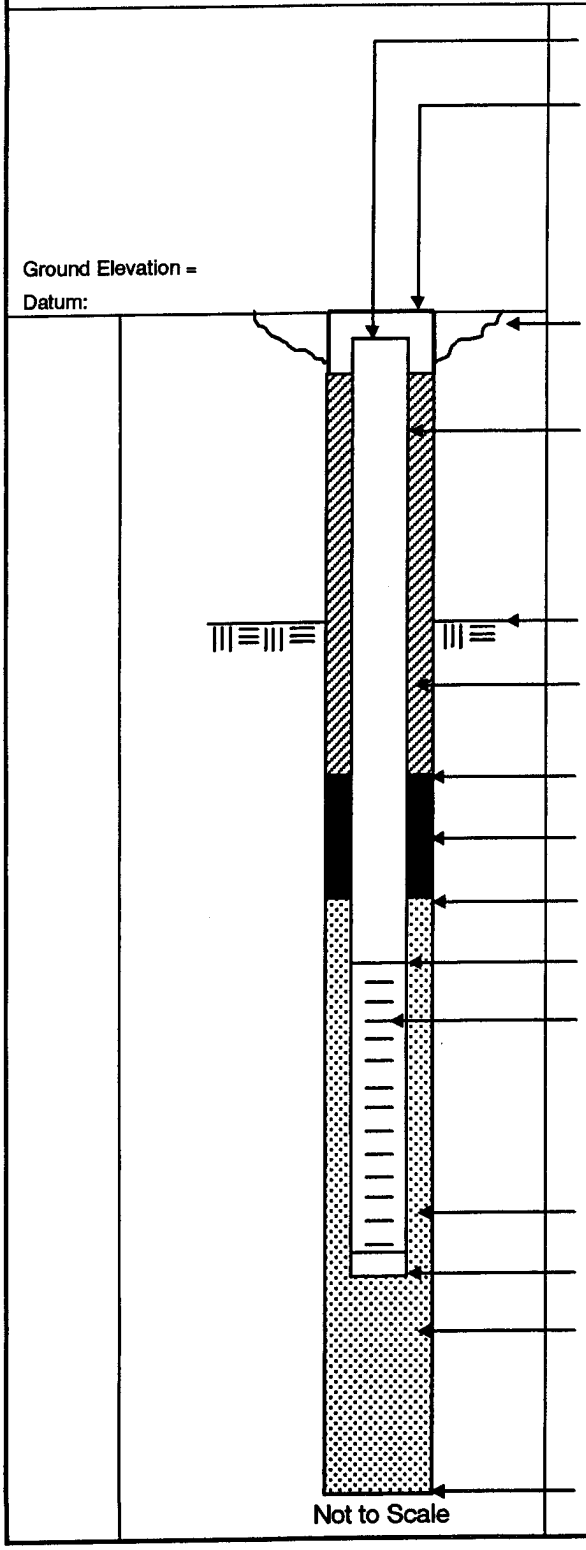
Elevation / Total Depth of Borehole: 13' I

Tetra Tech NUS, Inc.

WELL No.: NAS JAX - UST 4 - MW05

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	SB03
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/9/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Elevation / Depth of Top of Riser: 6" /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel

Type of Surface Seal: TYPE I-II PORTLAND GROUT

I.D. of Riser: ~~3/4"~~ 2"

Type of Riser: PVC

Borehole Diameter: ~~2"~~ 4.25

Elevation / Depth Top of Rock: NA /

Type of Backfill: ~~20-30 SAND~~ TYPE I-II PORTLAND GROUT

Elevation / Depth of Seal: /

Type of Seal: ~~30/65 Sand~~ BENTONITE HOLE PLUG

Elevation / Depth of Top of Filter Pack: 2' /

Elevation / Depth of Top of Screen: 3' /

Type of Screen: PVC

Slot Size x Length: 0.01 / 10FT

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND ~~Prepacked~~

Elevation / Depth of Bottom of Screen: 13' /

Elevation / Depth of Bottom of Filter Pack: 13' /

Type of Backfill Below Well: 20-30 SAND

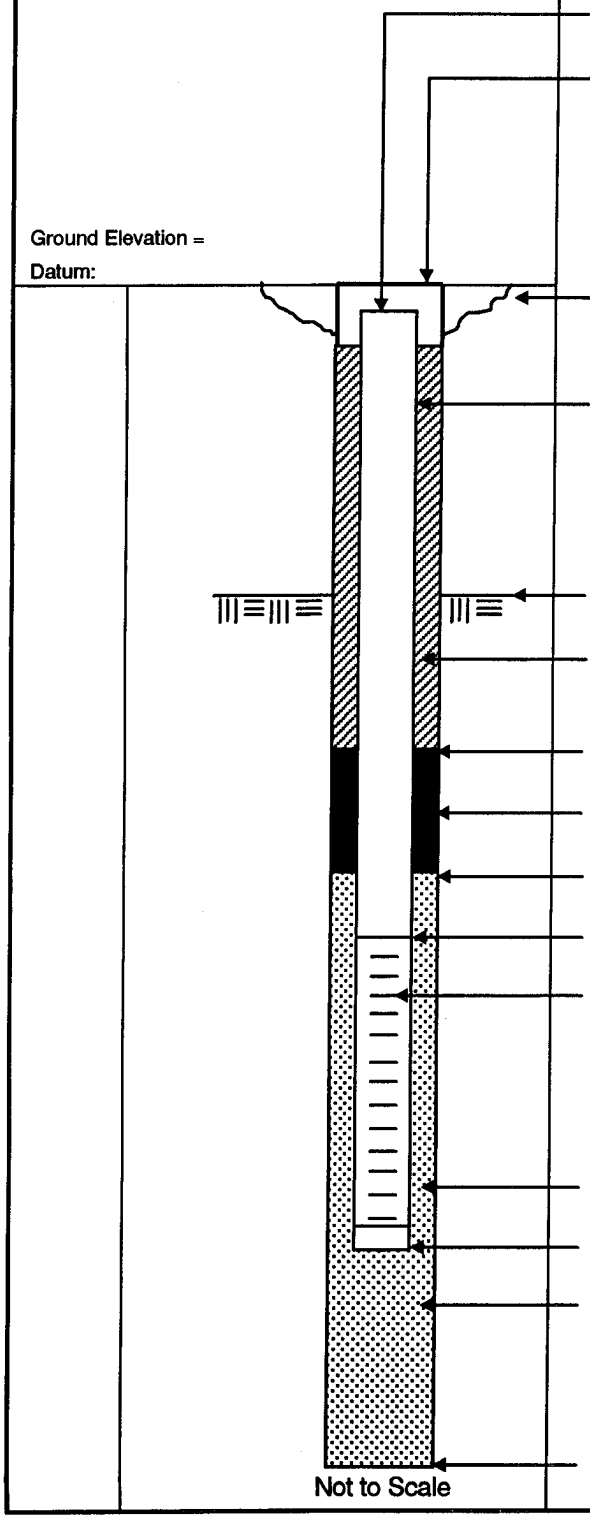
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-USTI4-MW06

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	MW06
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/9/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Elevation / Depth of Top of Riser: 6" /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel

Type of Surface Seal: TYPE I-II PORTLAND GROUT

I.D. of Riser: ~~3/4"~~ 2"

Type of Riser: PVC

Borehole Diameter: ~~2"~~ 4.25

Elevation / Depth Top of Rock: NA /

Type of Backfill: TYPE I-II PORTLAND GROUT

Elevation / Depth of Seal: 2' /

Type of Seal: BENTONITE ~~80/65 Sand~~ HOLE PLUG

Elevation / Depth of Top of Filter Pack: 2' /

Elevation / Depth of Top of Screen: 3' /

Type of Screen: PVC

Slot Size x Length: 0.01 / 10ft

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND ~~Prepacked~~

Elevation / Depth of Bottom of Screen: 13' /

Elevation / Depth of Bottom of Filter Pack: 13' /

Type of Backfill Below Well: 20-30 SAND

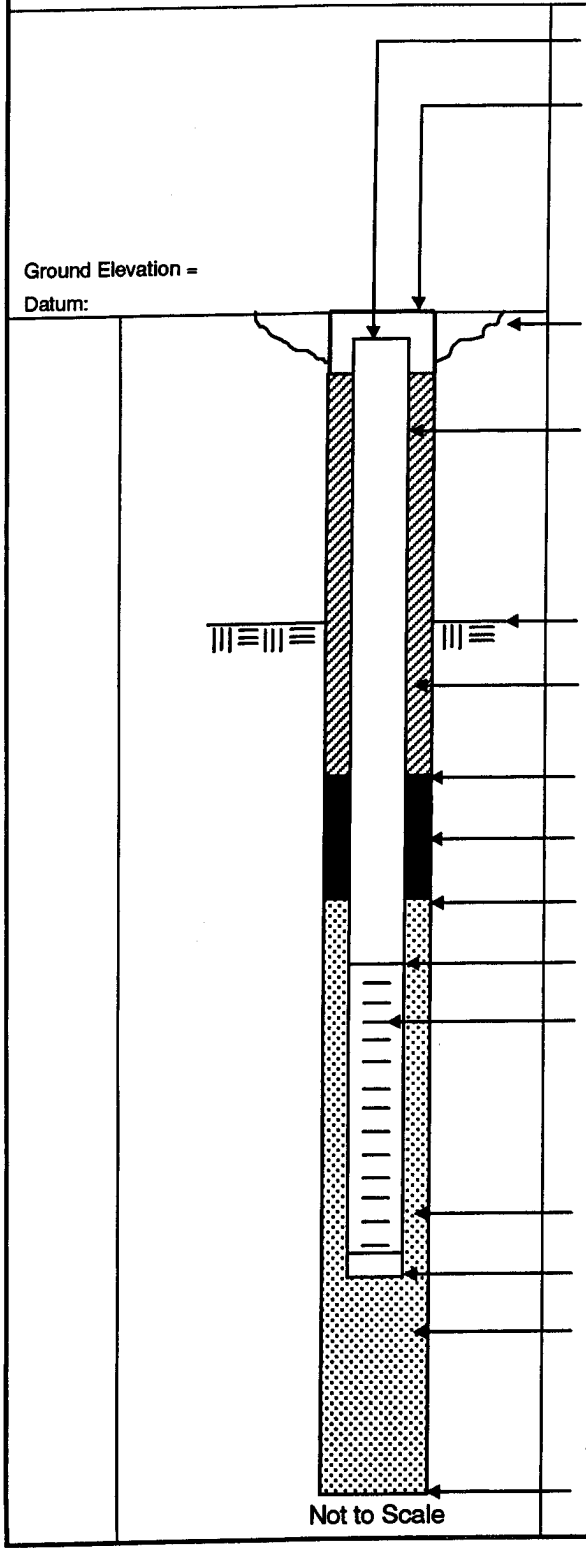
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST14-MW07

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	MW07
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/9/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Elevation / Depth of Top of Riser: 6" /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel

Type of Surface Seal: GROUT

I.D. of Riser: ~~3/4"~~ 2"

Type of Riser: PVC

Borehole Diameter: ~~2"~~ 4.25

Elevation / Depth Top of Rock: N/A /

Type of Backfill: TYPE I - II PORTLAND GROUT

Elevation / Depth of Seal: 1ft /

Type of Seal: ~~#0/65 Sand~~

Elevation / Depth of Top of Filter Pack: 2' /

Elevation / Depth of Top of Screen: 3' /

Type of Screen: PVC

Slot Size x Length: 0.01 / 10ft

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND ~~Prepacked~~

Elevation / Depth of Bottom of Screen: 13' /

Elevation / Depth of Bottom of Filter Pack: 13' /

Type of Backfill Below Well: 20-30 SAND

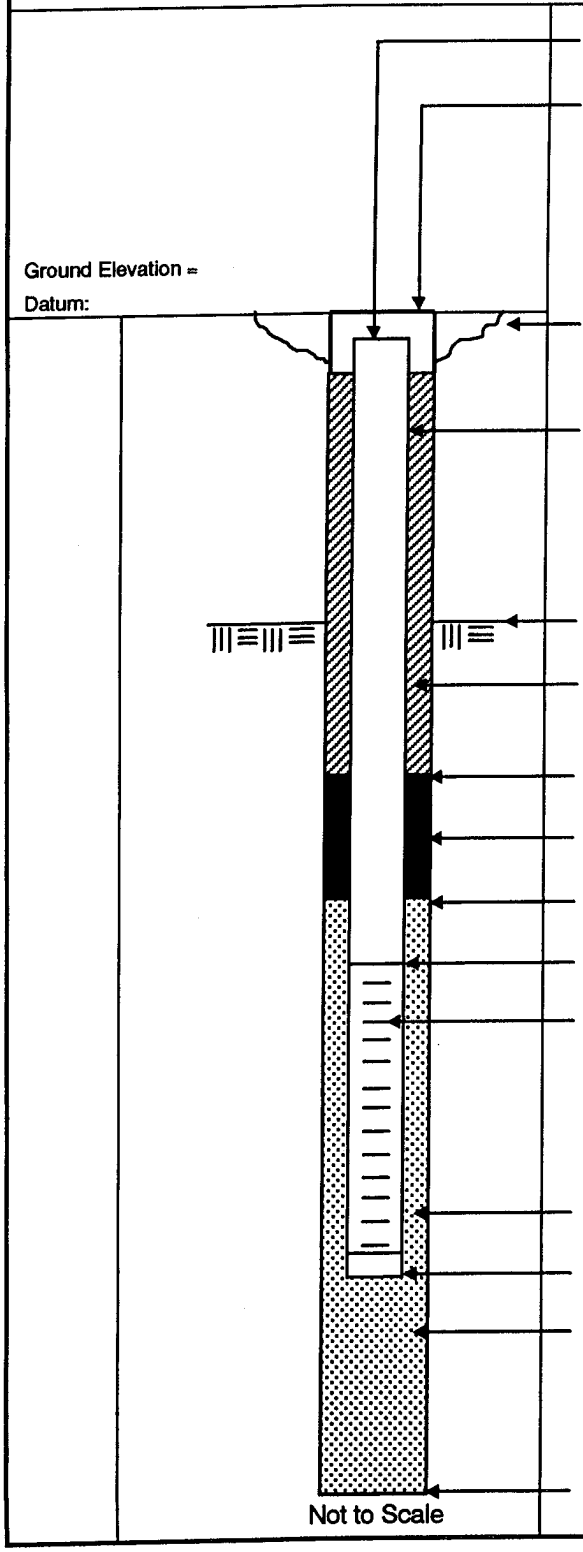
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST14-MW08

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	MW08
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/9/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



Elevation / Depth of Top of Riser: 6" /

Elevation / Height of Top of Surface Casing: FLUSH /

I.D. of Surface Casing: 8"

Type of Surface Casing: Steel

Type of Surface Seal: GROUT

I.D. of Riser: ~~3/4"~~ 2"

Type of Riser: PVC

Borehole Diameter: ~~2"~~ 4.25

Elevation / Depth Top of Rock: NA /

Type of Backfill: TYPE I-II GROUT

Elevation / Depth of Seal: 1' /

Type of Seal: BENTONITE ~~30/65 Sand~~ HOLE PLUG

Elevation / Depth of Top of Filter Pack: 2' /

Elevation / Depth of Top of Screen: 3' /

Type of Screen: PVC

Slot Size x Length: 0.01/10ft

I.D. of Screen: 2"

Type of Filter Pack: 20-30 SAND ~~Prepacked~~

Elevation / Depth of Bottom of Screen: 13' /

Elevation / Depth of Bottom of Filter Pack: 13' /

Type of Backfill Below Well: 20-30 SAND

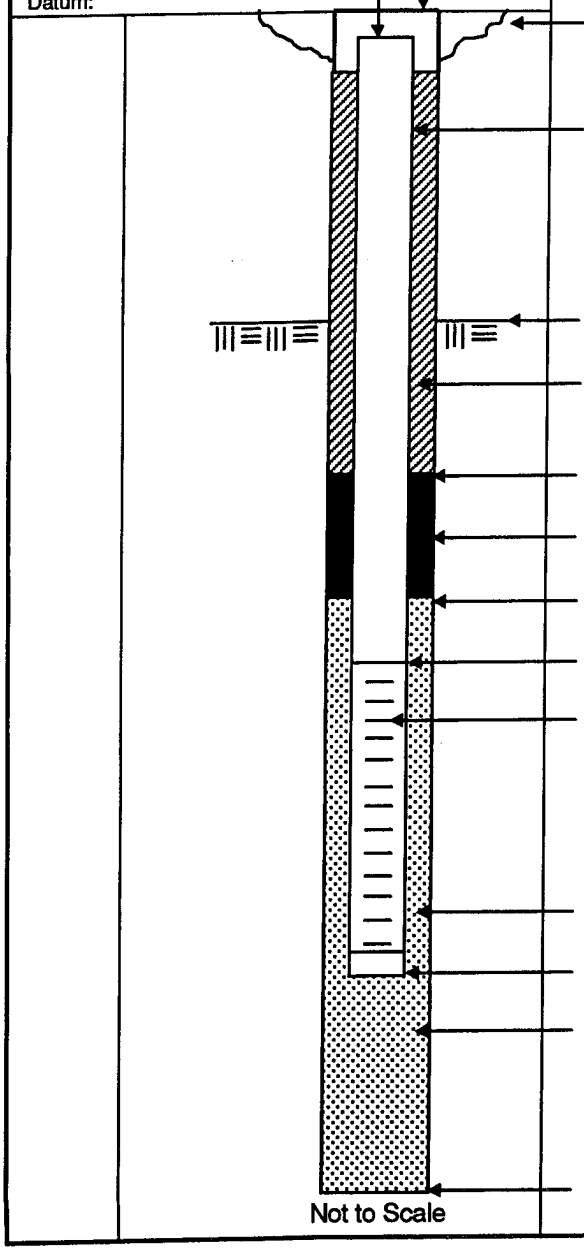
Elevation / Total Depth of Borehole: 13' /

Tetra Tech NUS, Inc.

WELL No.: NAS JAX-GST 14-MW09

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	MW09
PROJECT No.:	N3870	DRILLER:	M. NICHOLSON	DATE COMPLETED:	3/9/01
SITE:	NAS JAX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	



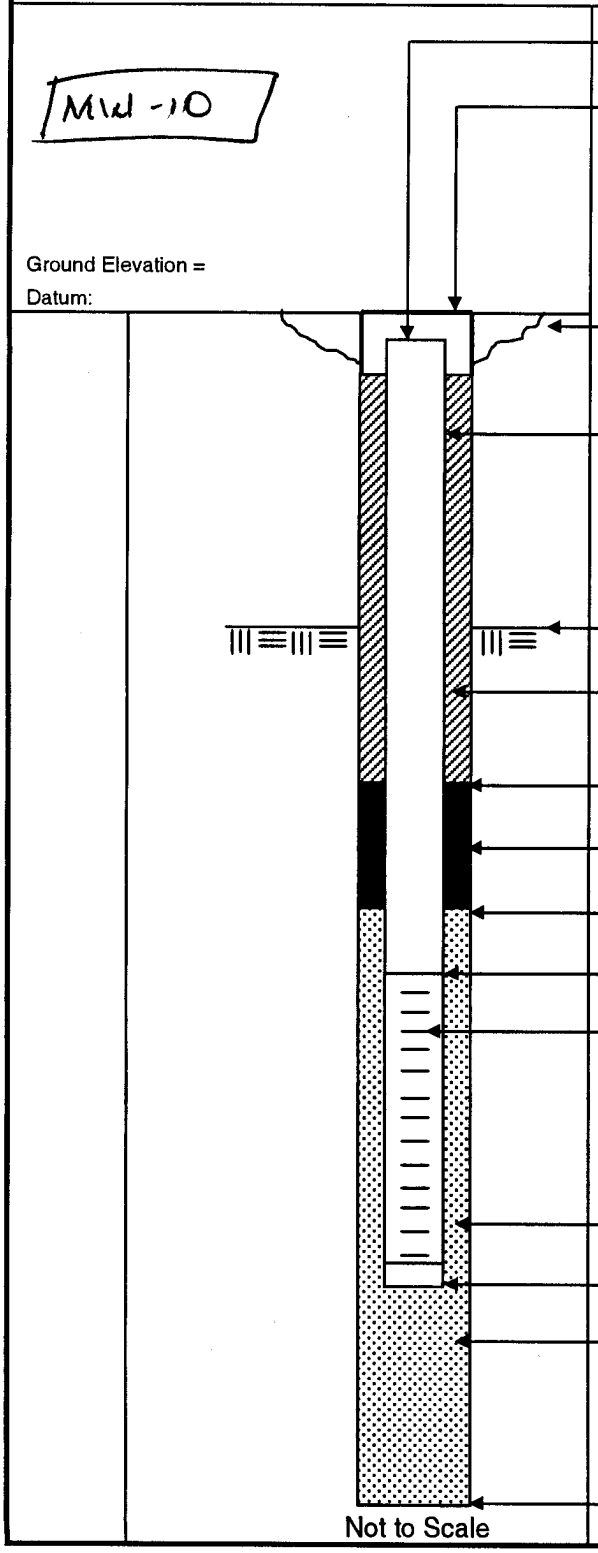
Elevation / Depth of Top of Riser:	60" /
Elevation / Height of Top of Surface Casing:	FLUSH /
I.D. of Surface Casing:	8"
Type of Surface Casing:	Steel
Type of Surface Seal:	GROUT
I.D. of Riser:	~~3/4"~~ 2"
Type of Riser:	PVC
Borehole Diameter:	~~2"~~ 4.25
Elevation / Depth Top of Rock:	NA /
Type of Backfill:	TYPE I-II GROUT
Elevation / Depth of Seal:	1ft. /
Type of Seal:	BENTONITE ~~30/65 Sand~~ HOLE PLUG
Elevation / Depth of Top of Filter Pack:	2' /
Elevation / Depth of Top of Screen:	3' /
Type of Screen:	PVC
Slot Size x Length:	0.01 / 10ft.
I.D. of Screen:	2"
Type of Filter Pack:	20-30 SAND ~~Prepacked~~
Elevation / Depth of Bottom of Screen:	13' /
Elevation / Depth of Bottom of Filter Pack:	13' /
Type of Backfill Below Well:	20-30 SAND
Elevation / Total Depth of Borehole:	13' /

Tetra Tech NUS, Inc.

WELL No.: NASJAX-UST14-MW10

MONITORING WELL SHEET

PROJECT: OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	SB-33
PROJECT No.: N3870	DRILLER:	MIKE NICHOLSON	DATE COMPLETED:	7/2/01
SITE:	DRILLING METHOD:	HSA	NORTHING:	-
GEOLOGIST: A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	-



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	
Type of Surface Casing:	STEEL
Type of Surface Seal:	TYPE I-II PORTLAND
I.D. of Riser:	2"
Type of Riser:	2" PVC
Borehole Diameter:	4.25
Elevation / Depth Top of Rock:	NA /
Type of Backfill:	TYPE I-II PORTLAND.
Elevation / Depth of Seal:	1' /
Type of Seal:	30-65 SAND
Elevation / Depth of Top of Filter Pack:	2' /
Elevation / Depth of Top of Screen:	3' /
Type of Screen:	PVC SLOTTED
Slot Size x Length:	0.01 / 10'
I.D. of Screen:	2"
Type of Filter Pack:	20-30 SAND
Elevation / Depth of Bottom of Screen:	13' /
Elevation / Depth of Bottom of Filter Pack:	/
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	/

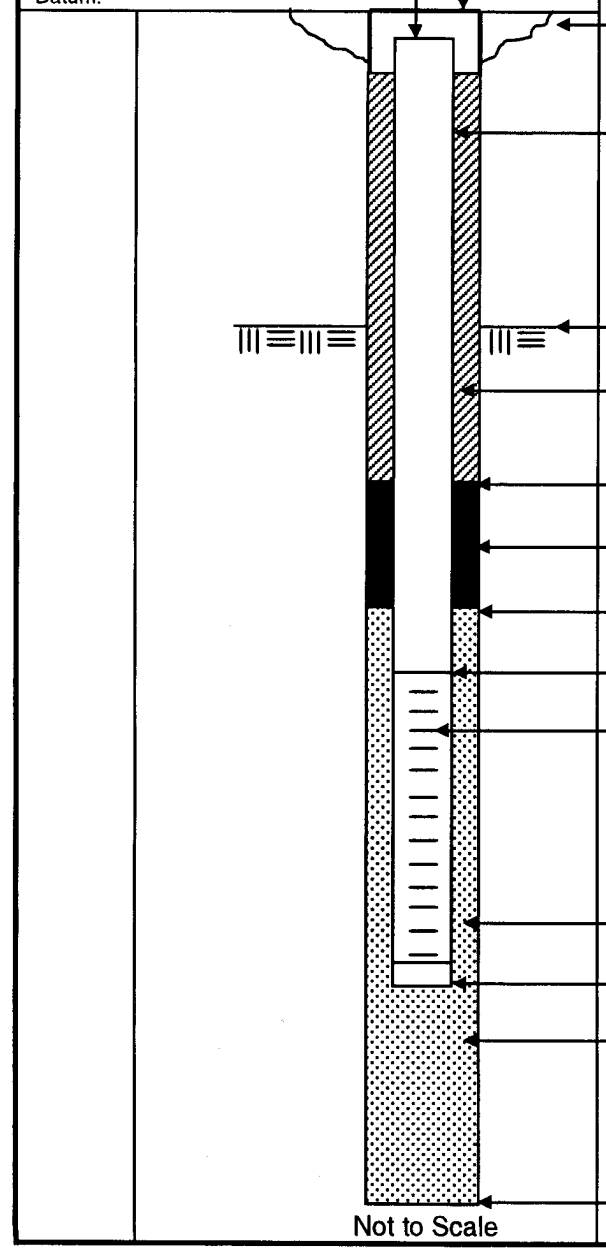
Tetra Tech NUS, Inc.

WELL No.: NAS JAX-UST14-MW11

MONITORING WELL SHEET

PROJECT:	OLD GAS STATION	DRILLING Co.:	PARTRIDGE	BORING No.:	SB-34
PROJECT No.:	N3870	DRILLER:	MIKE NICHOLSON	DATE COMPLETED:	7/2/01
SITE:		DRILLING METHOD:	HSA	NORTHING:	-
GEOLOGIST:	A. PATE	DEV. METHOD:	SUBMERSIBLE	EASTING:	-

MW-11

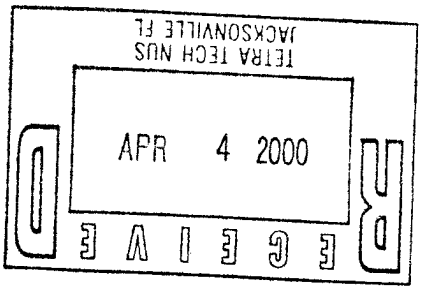


Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	
Type of Surface Casing:	STEEL
Type of Surface Seal:	TYPE I-II PORTLAND
I.D. of Riser:	2"
Type of Riser:	PVC
Borehole Diameter:	4.25
Elevation / Depth Top of Rock:	NA /
Type of Backfill:	TYPE I-II PORTLAND
Elevation / Depth of Seal:	11' /
Type of Seal:	30-65 SAND
Elevation / Depth of Top of Filter Pack:	12' /
Elevation / Depth of Top of Screen:	13' /
Type of Screen:	PVC SLOTTED
Slot Size x Length:	0.01 / 5'
I.D. of Screen:	2"
Type of Filter Pack:	20-30 SAND
Elevation / Depth of Bottom of Screen:	18' /
Elevation / Depth of Bottom of Filter Pack:	/
Type of Backfill Below Well:	
Elevation / Total Depth of Borehole:	/

APPENDIX F
MOBILE LABORATORY RESULTS

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074



March 27, 2001

Greg Roof
Tetra Tech NUS, Inc.
7018 AC Skinner Parkway
Suite 250
Jacksonville, FL 32256

Dear Mr. Roof:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the Od Gas Station site at Jacksonville Naval Air Station. On-site analyses were performed March 5 – March 7, 2001. Included are a hardcopy of the final analytical results in Excel spreadsheet format, a brief project narrative, tables listing quality control results, and copies of sample chain-of-custody forms. The final analytical results were also sent by E-Mail.

KB Labs is approved as a mobile laboratory for volatiles analyses and operates under an FDEP approved Comprehensive Quality Assurance Plan (CompQAP #980029 Revision 3). All data for the site referenced above were determined in accordance with published procedures Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997), unless stated otherwise in our CompQAP under method modifications. Quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples determined that the reported data met our CompQAP requirements for accuracy and precision unless otherwise indicated on the quality control narrative accompanying the data report.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll at (352) 367-0073.

Sincerely,

Michael G. Winslow
Quality Assurance Officer

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

PROJECT NARRATIVE

Client : Tetra Tech NUS, Inc.	**Driller/Sampler**:	**Analyst**: Greg Lamb
Site : Jacksonville NAS, Old Gas Station	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No**: 01008
Onsite Dates: 03/05/01 – 03/07/01	**Client Project Manager**: Greg Roof	**Matrix**: Soil/Water

Project Scope

On March 5 – March 7, 2001, a total of thirty-four (34) water samples and thirty-one (31) soil samples were collected at the Old Gas Station, Jacksonville NAS. Samples were analyzed onsite in the KB Labs mobile facility. The samples were analyzed for benzene, toluene, ethylbenzene, m&p-xylene, o-xylene, MTBE, naphthalene, 1- and 2-methylnaphthalene, and HC-57.

Analytical Procedure

Water - Water samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium and the components were separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Soil - Soil samples were analyzed using SW846 Method 5030/8260. One (1) gram of soil sample was placed in ten (10) milliliters (mL) of water and purged with helium gas. The volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium and the components were separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a standard Excel spreadsheet format. The data produced and reported in the field has been reviewed and approved for this final report by the KB Labs Quality Assurance (QA) Officer.

There is no analytical record for sample SB31 4'-6' Soil collected on 3/7/01.

Quality Control (QC) Data

Surrogate Recoveries – Tables 1.1 – 1.3 list the daily analytical sequence and percent recovery results for surrogate compounds which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

Signature: _____
Title: Quality Assurance Officer

Date: March 27, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1-1: Analysis Sequence/Surrogate Percent Recoveries (03/05/01)

Client: Tetra Tech NUS, Inc.	**Driller/Sampler**:	**Analyst**: Greg Lamb
Site: Jacksonville NAS, Old Gas Station	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 01008
On-site Dates: 03/05/01-03/07/01	**Client Project Manager**: Greg Roof	**Matrix:** Soil/Water

Station/Sample ID	*Control Limits>>*	S1* *(80-120)*	S2* *(80 - 120)*	S3* *(80 - 120)*	S4* *(80 - 120)*	Comment
Calibration Standard 20 ug/L		X	X	X	X	
Method Blank		97	97	101	98	
SB01 5'-9'		109	102	100	101	
SB01 3' Soil 1:10		134	104	107	108	S1 high
SB02 6'-10'		128	99	106	105	S1 high
SB02 4'-6' Soil 1:10		130	105	106	106	S1 high
SB03 6'-10' 1:2		119	103	106	109	
SB03 4'-6' Soil 1:200		121	101	103	125	S1 high, S4 high
SB05 6'-10'		120	104	104	101	
SB05 4'-6' Soil 1:10		119	106	106	109	
SB06 5'-9'		123	104	106	105	S1 high
SB06 3'-5' Soil 1:10		121	108	108	108	S1 high
SB07 6'-10'		122	103	107	107	S1 high
SB07 3' Soil 1:10		119	104	104	107	
SB08 6'-10'		121	106	107	108	S1 high
SB08 4'-6' Soil 1:100		117	105	106	106	
Method Blank		120	104	106	102	
SB09 6'-10'		116	101	107	104	
SB09 4'-6' Soil 1:10		114	100	108	105	
SB10 6'-10'		123	104	108	108	S1 high
SB10 4'-6' Soil 1:500		114	100	107	106	
SB11 6'-10' 1:5		118	103	110	103	
SB11 4'-6' Soil 1:500		123	107	106	103	S1 high

* Surrogate Compounds
S1 = 1,2-Dichloroethane-D4
S2 = 1,4-Difluorobenzene
S3 = Toluene - D8
S4 = 4 - Bromofluorobenzene

Signature:

Title: Quality Control Officer

Date: March 27, 2001

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6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1-2: Analysis Sequence/Surrogate Percent Recoveries (03/06/01)

Client: Tetra Tech NUS, Inc.	**Driller/Sampler**:	**Analyst**: Greg Lamb
Site: Jacksonville NAS, Old Gas Station	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 01008
On-site Dates: 03/05/01-03/07/01	**Client Project Manager**: Greg Roof	**Matrix:** Soil/Water

Station/Sample ID	*Control Limits>>*	S1* *(80-120)*	S2* *(80 - 120)*	S3* *(80 - 120)*	S4* *(80 - 120)*	Comment
Calibration Standard 20 ug/L		X	X	X	X	
Method Blank		113	93	104	103	
SB04 6'-10'		122	94	101	101	S1 high
SB04 4'-6' Soil 1:10		136	91	106	100	S1 high
SB12 6'-10' 1:5		149	94	108	94	S1 high
SB12 4'-6' Soil 1:10		153	93	106	96	S1 high
SB13 6'-10' 1:2		144	94	105	96	S1 high
SB13 4'-6' 1:10		153	100	104	98	S1 high
SB14 6'-10' 1:20		161	101	101	95	S1 high
SB14 4'-6' Soil 1:10000		166	99	103	97	S1 high
SB15 6'-10' 1:500		160	96	104	102	S1 high
SB15 4'-6' Soil 1:20		155	97	104	103	S1 high
SB16 6'-10' 1:10		159	97	106	103	S1 high
SB16 4'-6' Soil 1:10		150	95	106	104	S1 high
SB17 6'-10' 1:10		156	97	106	101	S1 high
SB17 4'-6' Soil 1:10		167	98	106	104	S1 high
SB18 6'-10' 1:5		153	98	106	100	S1 high
SB18 4'-6' Soil 1:10		147	96	109	102	S1 high
SB19 6'-10' 1:2		161	97	104	100	S1 high
SB19 4'-6' Soil 1:10		158	99	103	102	S1 high
SB20 6'-10'		158	99	106	102	S1 high
SB20 4'-6' Soil 1:10		151	94	105	101	S1 high
SB25 6'-10' 1:10		145	96	107	101	S1 high
SB25 4'-6' Soil 1:10		148	95	108	106	S1 high
SB24 6'-10'		147	99	105	102	S1 high
SB24 4'-6' Soil 1:10		155	97	98	95	S1 high
SB29 6'-10'		171	103	105	100	S1 high
SB29 4'-6' Soil 1:10		164	102	106	104	S1 high

* Surrogate Compounds
S1 = 1,2-Dichloroethane-D4
S2 = 1,4-Difluorobenzene
S3 = Toluene - D8
S4 = 4 - Bromofluorobenzene

Signature:

Title: Quality Control Officer

Date: March 27, 2001

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074

Table 1-3: Analysis Sequence/Surrogate Percent Recoveries (02/21/01)

Client: Tetra Tech NUS, Inc.	**Driller/Sampler**:	**Analyst**: Greg Lamb
Site: Jacksonville NAS, Old Gas Station	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 01008
On-site Dates: 03/05/01-03/07/01	**Client Project Manager**: Greg Roof	**Matrix:** Soil/Water

Station/Sample ID	*Control Limits>>*	S1* *(80-120)*	S2* *(80 - 120)*	S3* *(80 - 120)*	S4* *(80 - 120)*	Comment
SB21 6'-10'		77	97	102	103	S1 low
SB22 6'-10'		130	92	107	111	S1 high
SB23 6'-10'		140	97	108	107	S1 high
SB21 4'-6' Soil 1:10		135	95	107	108	S1 high
SB22 4'-6' Soil 1:10		127	92	104	101	S1 high
SB23 4'-6' Soil 1:10		153	96	106	104	S1 high
SB14D 26-30'		145	94	105	104	S1 high
SB26 5'-7'		161	91	104	104	S1 high
SB26 5' Soil 1:10		142	92	105	106	S1 high
SB27 5'-7'		158	96	104	100	S1 high
SB27 5' Soil 1:10		155	96	101	101	S1 high
SB28 5'-7'		156	97	105	100	S1 high
SB28 5' Soil 1:10		155	93	105	101	S1 high
SB30 6'-10'		167	93	102	101	S1 high
SB30 4'-6' Soil 1:10		155	95	104	104	S1 high
SB08D 21'-25'		158	96	103	102	S1 high
SB31 6'-10'		148	96	101	99	S1 high
SB32 6'-10'		148	96	102	103	S1 high
Calibration Standard 20 ug/L		134	95	102	98	S1 high

* Surrogate Compounds
S1 = 1,2-Dichloroethane-D4
S2 = 1,4-Difluorobenzene
S3 = Toluene - D8
S4 = 4 - Bromofluorobenzene

Signature:

Title: Quality Control Officer

Date: March 27, 2001

Tetra Tech NUS, Inc.

Analytical Data
Jacksonville NAS, Old Gas Station
3/5/01 - 3/7/01

Reporting Limits: Water = 1 ug/L Soil = 10 ug/kg

		SB01 5'-9' Soil	SB01 3' Soil	SB02 6'-10' Soil	SB02 4'-6' Soil	SB03 6'-10' Soil	SB03 4'-6' Soil	SB05 6'-10' Soil	SB05 4'-6' Soil	SB06 5'-9' Soil	SB06 3'-5' Soil
mtbe		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
benzene		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
toluene		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
ethylbenzene		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
m,p-xylene		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
o-xylene		<1	<10	<1	<10	<2	<200	<1	<10	<1	<10
napthalene		<1	<10	<1	<10	<2	2170	1.87	<10	<1	<10
2-methylnapthalene		<1	<10	<1	<10	<2	2740	8.69	<10	<1	<10
1-methylnapthalene		<1	<10	<1	<10	<2	1600	4.37	<10	<1	<10
HC-57						800	352000	90	60	2	

		SB07 6'-10'	SB07 3' Soil	SB08 6'-10'	SB08 4'-6' Soil	SB09 6'-10'	SB09 4'-6' Soil	SB10 6'-10'	SB10 4'-6' Soil	SB11 6'-10'	SB11 4'-6' Soil
mtbe		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
benzene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
toluene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
ethylbenzene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
m,p-xylene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
o-xylene		<1	<10	3.83	<10	<1	<10	<1	<500	<5	<500
napthalene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
2-methylnapthalene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
1-methylnapthalene		<1	<10	<1	<10	<1	<10	<1	<500	<5	<500
HC-57				120	16700	4.5		530	154000	1400	215000

Source: KB Labs, Inc.
March 2001

Tetra Tech NUS, Inc.

Analytical Data
Jacksonville NAS, Old Gas Station
3/5/01 - 3/7/01

Reporting Limits: Water = 1 ug/L Soil = 10 ug/kg

		SB04 6'-10'	SB04 4'-6' Soil	SB12 6'-10'	SB12 4'-6' Soil	SB13 6'-10'	SB13 4'-6' Soil	SB14 6'-10'	SB14 4'-6' Soil	SB15 6'-10'	SB15 4'-6' Soil
mtbe		<1	<10	<5	<10	<1	<10	<20	<10000	<500	<20
benzene		<1	<10	<5	<10	<1	<10	<20	<10000	<500	23.4
toluene		<1	<10	<5	<10	<1	11.5	22.2	<10000	<500	<20
ethylbenzene		<1	<10	17.8	<10	<1	<10	106	30800	<500	<20
m,p-xylene		<1	<10	18	<10	<1	<10	355	77800	<500	<20
o-xylene		<1	<10	<5	<10	<1	<10	<20	<10000	<500	<20
napthalene		<1	<10	535	315	7.12	<10	45	35500	<500	<20
2-methylnapthalene		<1	<10	32.6	74.4	2.92	<10	<20	<10000	<500	<20
1-methylnapthalene		<1	<10	15.9	29	<1	<10	<20	<10000	<500	<20
HC-57				950	250	60	270	450	2800000	5300	110

		SB16 6'-10'	SB16 4'-6' Soil	SB17 6'-10'	SB17 4'-6' Soil	SB18 6'-10'	SB18 4'-6' Soil	SB19 6'-10'	SB19 4'-6' Soil	SB20 6'-10'	SB20 4'-6' Soil
mtbe		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
benzene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
toluene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
ethylbenzene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
m,p-xylene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
o-xylene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
napthalene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
2-methylnapthalene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
1-methylnapthalene		<10	<10	<10	<10	<5	<10	<2	<10	<1	<10
HC-57		80	45	80	290	25	50	13	70	8	65

Source: KB Labs, Inc.
March 2001

Tetra Tech NUS, Inc.

Analytical Data
Jacksonville NAS, Old Gas Station
3/5/01 - 3/7/01

Reporting Limits: Water = 1 ug/L Soil = 10 ug/kg

		SB25 6'-10'	SB25 4'-6' Soil	SB24 6'-10'	SB24 4'-6' Soil	SB29 6'-10'	SB29 4'-6' Soil	SB21 6'-10'	SB21 4'-6' Soil	SB22 6'-10'	SB22 4'-6' Soil
mtbe		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
benzene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
toluene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
ethylbenzene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
m,p-xylene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
o-xylene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
napthalene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
2-methylnapthalene		<10	14.2	<1	<10	<1	<10	<1	<10	<1	<10
1-methylnapthalene		<10	<10	<1	<10	<1	<10	<1	<10	<1	<10
HC-57		490	100	4							

		SB23 6'-10'	SB23 4'-6' Soil	SB14D 26'-30'	SB26 5'-7'	SB26 5' Soil	SB27 5'-7'	SB27 5' Soil	SB28 5'-7'	SB28 5' Soil	SB30 6'-10'
mtbe		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
benzene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
toluene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
ethylbenzene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
m,p-xylene		<1	<10	1.24	<1	<10	<1	<10	<1	<10	<1
o-xylene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
napthalene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
2-methylnapthalene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
1-methylnapthalene		<1	<10	<1	<1	<10	<1	<10	<1	<10	<1
HC-57				14							

Source: KB Labs, Inc.
March 2001

Tetra Tech NUS, Inc.

Analytical Data
Jacksonville NAS, Old Gas Station
3/5/01 - 3/7/01

Reporting Limits: Water = 1 ug/L Soil = 10 ug/kg

		SB30 4'-6' Soil	SB08D 21'-25'	SB31 6'-10'	SB32 6'-10'						
mtbe		<10	<1	<1	<1						
benzene		<10	<1	<1	<1						
toluene		<10	<1	<1	<1						
ethylbenzene		<10	<1	<1	<1						
m,p-xylene		<10	<1	<1	<1						
o-xylene		<10	<1	<1	<1						
napthalene		<10	<1	<1	<1						
2-methylnapthalene		<10	<1	<1	<1						
1-methylnapthalene		<10	<1	<1	<1						
HC-57											

Source: KB Labs, Inc.
March 2001

KB LABS, INC.
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME: Old Gas Station
SITE NAME & ADDRESS: JAX NAS
SAMPLERS: (Signature) Tetratech
CONTACT PERSON: Allen Pate
BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	Lab I.D. Number
✓	SB01 5'-9'	3/5/01	1035		✓		W	2	✓	
✓	↓ 3' S		1010				S	1	✓	
✓	SB02 6'-10'		1100				W	2	✓	
✓	↓ 4'-6' S		1054				S	1	✓	
✓	SB03 6'-10'		1150				W	2	✓	
✓	↓ 4'-6' S		1145				S	1	✓	
✓	SB05 6'-10'		1225				W	2	✓	
✓	↓ 4'-6' S		1220				S	1	✓	
✓	SB06 5'-9'		1415				W	2	✓	
✓	↓ 3'-5' S		1415				S	1	✓	
✓	SB07 6'-10'		1500				W	2	✓	
✓	↓ 3'		1445				S	1	✓	
✓	SB08 6'-10'		1540				W	2	✓	
✓	↓ 4'-6' S		1535				S	1	✓	

Precleaned Containers Relinquished by: (Signature)	Date / Time 3/5/01	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 3/5/01

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
Old Gas Station	NAS JAX
SAMPLERS: *(Signature)* Tetratech	CONTACT PERSON Allan Pate
	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	Lab I.D. Number
✓	SB09 6'-10'	3/5/01	1610				W	2	✓	
✓	↓ 4'-6' S		1602				S	1		
✓	SB10 6'-10'		1640				W	2		
✓	↓ 4'-6' S		1640				S	1		
✓	SB11 6'-10'		1715				W	2		
✓	↓ 4'-6' S		1711				S	1		

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
	3/5/01			
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			3/5/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
Old Gas Station	NAS JAX
SAMPLERS: *(Signature)*	CONTACT PERSON / BATCH # (Lab Use Only)
TetraTech L	Allan Pate

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	Lab I.D. Number
✓	SB04 6'-10'	3/6/01	0755				W	2	✓	
✓	↓ 4-6'S		0752				S	1		
✓	SB12 6'-10'		0850				W	2		
✓	↓ 4'-6' S		0844				S	1		
✓	SB13 6'-10'		0920				W	2		
✓	↓ 4'-6' S		0915				S	1		
✓	SB14 6'-10'		0955				W	2		
✓	↓ 4'-6' S		0945				S	1		
✓	SB15 6'-10'		1030				W	2		
✓	↓ 4'-6' S		1028				S	1		
✓	SB16 6'-10'		1050				W	2		
✓	↓ 4'-6' S		1049				S	1		
✓	SB17 6-10'		1120				W	2		
✓	↓ 4'-6' S	↓	1114				S	1	↓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 3/6/01	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 3/6/01

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME: Old Gas Station
SITE NAME & ADDRESS: NAS JAX
SAMPLERS: (Signature) Tetratech
CONTACT PERSON: Alan Pike
BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	Lab I.D. Number
SB18 6'-10'	3/6/01	1235				W	2	✓	
↓ 4'-6' S		1232				S	1		
SB19 6'-10'		1255				W	2		
↓ 4'-6' S		1255				S	1		
SB20 6'-10'		1322				W	2		
↓ 4'-6' S		1318				S	1		
SB25 6'-10'		1340				W	2		
↓ 4-6 S		1341				S	1		
SB24 6'-10'		1408				W	2		
↓ 4'-6' S		1402				S	1		
SB29 6'-10'		1505				W	2		
↓ 4'-6' S		1508				S	1		
SB26 5' S						S	1		
SB21 6'-10'		1530				W	2		
↓ 4'-6' S		1529				S	1	✓	

Precleaned Containers Relinquished by: (Signature) — Date / Time: 3/6/01
Received by: (Signature) — Date / Time:
Relinquished by: (Signature) — Date / Time:
Received by: (Signature) — Date / Time: 3/6/01

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME: DL Gas Station
SITE NAME & ADDRESS: NAS JAX
SAMPLERS: (Signature) Tetra Tech
CONTACT PERSON: Allan Pate
BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	Lab I.D. Number
✓	SB27 5' S	3/06/01	1548				S	1	✓	
✓	SB22 6'-10'		1555				W	2		
✓	SB22 4'-6' S		1554				S	1		
✓	SB28 5' S		1603				S	1		
✓	SB23 6'-10'		1625				W	2		
✓	SB23 4'-6' S		1621				S	1		
✓	SB26 5'-7'		1641				W	2		
✓	SB27 5'-7'		1659				W	2		
✓	SB28 5'-7'		1710				W	2	✓	

Precleaned Containers
Relinquished by: (Signature) — Date / Time: 3/6/01 — Received by: (Signature) — Date / Time

Relinquished by: (Signature) — Date / Time — Received by: (Signature) — Date / Time: 3/6/01

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
Mobile Laboratory Services

CHAIN-OF-CUSTODY RECORD

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME: Old Gas Station

SITE NAME & ADDRESS: NAS JAX

SAMPLERS: *(Signature)* Tetratech

CONTACT PERSON: Allan Pate

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	Lab I.D. Number
SB30 6'-10'	3/7/01	0756				W	2	✓	
4'-6'		0746				S	1		
SB14D 26-30'		0855				W	2		
SB08D 21-25'		1100				W	2		
SB31 6'-10'		1302				W	2		
4'-6'		1255				S	1		
SB32 6'-10'		1326				W	2		

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*	3/7/01	Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*	3/7/01	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

APPENDIX G
SOIL LABORATORY ANALYTICAL RESULTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**Mr. Greg Roof**	**DATE:**	**April 25, 2001**
FROM:	**Elena Rodriguez**	**COPIES:**	**DV FILE**
SUBJECT:	**CURSORY DATA REVIEW** **CTO 0145, NASJAX** **SDG WRO626**		

SAMPLES: 7/Soil

NASJAX-UST14-SB14-04
NASJAX-UST14-SB01-04
NASJAX-UST14-SB03-04
NASJAX-UST14-SB-DUP1
NASJAX-UST14-SB09-04
NASJAX-UST14-SB25-04
NASJAX-UST14-SB07-04

2/Aqueous

NASJAX-UST14-SB-EB1
NASJAX-UST14-SB-TB1

SUMMARY

The sample set for CTO 0145, NAS Jacksonville, SDG WRO626 consists of 7 soil environmental samples, one soil quality control sample (one field duplicate pair: NASJAX-UST14-SB-DUP1 and NASJAX-UST14-SB14-04) and two aqueous quality control samples (one trip blank and one equipment blank). The samples were analyzed for the BTEX/MTBE, PAHs, and TPH. All soil samples were also analyzed for percent solids.

The samples were collected by TetraTech NUS on March 7, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846, EPA methodology, and Florida DEP Petroleum Organics (FL PRO). A cursory review of the data contained in this SDG was performed to rule out false positive or false negative results. No significant data quality issues were noted at this time.

Elena Rodriguez
Tetra Tech NUS

Elena Rodriguez

FIELD DUPLICATE SAMPLES

CTO 145, UST14 NASJAX

SOILS:		NASJAX-UST14-SB14-04		NASJAX-UST14-SB-DUP1		
Fraction	**Analyte**	3/7/2001		3/7/2001		**RPD**
Volatiles	Benzene	4		5		22%
	Ethylbenzene	880		16000		179%
	MTBE	4		2		67%
	Toluene	8		120		175%
	Total Xylenes	1600		41000		185%
PAHs	1-Methylnaphthalene	1100		1000		10%
	2-Methylnaphthalene	2100		26000		170%
	Acenaphthene	53		260		132%
	Acenaphthylene	35		ND		NC
	Anthracec	ND		40		NC
	Benzo(a)anthracene	30		38		24%
	Benzo(a)pyrene	30		20	J	40%
	Benzo(b)fluoranthene	26		21	J	21%
	Benzo(g,h,i)perylene	16	J	ND		NC
	Benzo(k)fluoranthene	18	J	14	J	25%
	Chrysene	29		32		10%
	Fluoranthene	51		100		65%
	Fluorene	28		120		124%
	Indeno(1,2,3-cd)pyrene	16	J	ND		NC
	Naphthalene	1600		27000		178%
	Phenanthrene	32		140		126%
	Pyrene	55		82		39%
TPH		5800		4200		32%

GROUNDWATERS:		JAX-19-MW5-01	JAX-19-DUP1-01	
Fraction	**Analyte**	3/21/2001	3/21/2001	**RPD**
All analyses		ND	ND	NC

ND = not detected
NC = not calculated
J = estimated
RPD = Relative Percent Difference
Acceptable R 0-30% aqueous 0-50% soil/sediment

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-DUP1			NASJAX-UST14-SB01-04			NASJAX-UST14-SB03-04			NASJAX-UST14-SB07-04		
SAMPLE DATE:	03/07/01			03/07/01			03/07/01			03/07/01		
LABORATORY ID:	WR0626-4			WR0626-2			WR0626-3			WR0626-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			82.0 %			81.0 %			80.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
BENZENE	5			2	U		110	U		2	U	
ETHYLBENZENE	16000	J	L	2	U		110	U		2	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		110	U		2	U	
TOLUENE	120			2	U		110	U		2	U	
TOTAL XYLENES	41000	J	L	6	U		180	J	P	5	U	

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB09-04			NASJAX-UST14-SB14-04			NASJAX-UST14-SB25-04					
SAMPLE DATE:	03/07/01			03/07/01			03/07/01			/ /		
LABORATORY ID:	WR0626-5			WR0626-1			WR0626-6					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	83.0 %			77.0 %			79.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG					
FIELD DUPLICATE OF:												

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
BENZENE	2	U		4	U		2	U				
ETHYLBENZENE	2	U		880	J	L	2	U				
METHYL TERT-BUTYL ETHER	2	U		4	U		2	U				
TOLUENE	2	U		8			2	U				
TOTAL XYLENES	5	U		1600	J	L	6	U				

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-EB1	NASJAX-UST14-SB-TB1		
SAMPLE DATE:	03/07/01	03/07/01	/ /	/ /
LABORATORY ID:	WR0626-8	WR0626-9		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
BENZENE	2	U		2	U							
ETHYLBENZENE	2	U		2	U							
METHYL TERT-BUTYL ETHER	2	U		2	U							
TOLUENE	2	U		2	U							
TOTAL XYLENES	5	U		5	U							

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-DUP1			NASJAX-UST14-SB01-04			NASJAX-UST14-SB03-04			NASJAX-UST14-SB07-04		
SAMPLE DATE:	03/07/01			03/07/01			03/07/01			03/07/01		
LABORATORY ID:	WR0626-4			WR0626-2			WR0626-3			WR0626-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			82.0 %			81.0 %			80.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	11000	J	P	24	U		1400			24	U	
2-METHYLNAPHTHALENE	26000			24	U		1600			24	U	
ACENAPHTHENE	260	E	L	24	U		40			24	U	
ACENAPHTHYLENE	24	U		24	U		22	J	P	24	U	
ANTHRACENE	40			24	U		14	J	P	24	U	
BENZO(A)ANTHRACENE	38			24	U		26			24	U	
BENZO(A)PYRENE	20	J	P	24	U		20	J	P	24	U	
BENZO(B)FLUORANTHENE	21	J	P	24	U		17	J	P	24	U	
BENZO(G,H,I)PERYLENE	24	U		24	U		20	J	P	24	U	
BENZO(K)FLUORANTHENE	14	J	P	24	U		12	J	P	24	U	
CHRYSENE	32			24	U		27			24	U	
DIBENZO(A,H)ANTHRACENE	24	U		24	U		24	U		24	U	
FLUORANTHENE	100			24	U		63			24	U	
FLUORENE	120			24	U		34			24	U	
INDENO(1,2,3-CD)PYRENE	24	U		24	U		18	J	P	24	U	
NAPHTHALENE	27000			24	U		390	J	P	24	U	
PHENANTHRENE	140	E		24	U		46			24	U	
PYRENE	82			24	U		65			24	U	

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB09-04			NASJAX-UST14-SB14-04			NASJAX-UST14-SB25-04					
SAMPLE DATE:	03/07/01			03/07/01			03/07/01			/ /		
LABORATORY ID:	WR0626-5			WR0626-1			WR0626-6					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	83.0 %			77.0 %			79.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG					
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	24	U		1100			19	J	P			
2-METHYLNAPHTHALENE	24	U		2100			38					
ACENAPHTHENE	24	U		53			26	U				
ACENAPHTHYLENE	24	U		35			30					
ANTHRACENE	24	U		26	U		26	U				
BENZO(A)ANTHRACENE	24	U		30			36					
BENZO(A)PYRENE	24	U		30			91					
BENZO(B)FLUORANTHENE	24	U		26			84					
BENZO(G,H,I)PERYLENE	24	U		16	J	P	93					
BENZO(K)FLUORANTHENE	24	U		18	J	P	52					
CHRYSENE	24	U		29			45					
DIBENZO(A,H)ANTHRACENE	24	U		26	U		32					
FLUORANTHENE	24	U		51			33					
FLUORENE	24	U		28			26	U				
INDENO(1,2,3-CD)PYRENE	24	U		16	J	P	68					
NAPHTHALENE	24	U		1600			15	J	P			
PHENANTHRENE	24	U		32			26	U				
PYRENE	24	U		55			69					

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-EB1		
SAMPLE DATE:	03/07/01	/ /	/ /	/ /
LABORATORY ID:	WR0626-8		
QC_TYPE:	NORMAL		
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L		
FIELD DUPLICATE OF:			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.2	U										
2-METHYLNAPHTHALENE	0.2	U										
ACENAPHTHENE	0.2	U										
ACENAPHTHYLENE	0.2	U										
ANTHRACENE	0.2	U										
BENZO(A)ANTHRACENE	0.2	U										
BENZO(A)PYRENE	0.2	U										
BENZO(B)FLUORANTHENE	0.2	U										
BENZO(G,H,I)PERYLENE	0.2	U										
BENZO(K)FLUORANTHENE	0.2	U										
CHRYSENE	0.2	U										
DIBENZO(A,H)ANTHRACENE	0.2	U										
FLUORANTHENE	0.2	U										
FLUORENE	0.2	U										
INDENO(1,2,3-CD)PYRENE	0.2	U										
NAPHTHALENE	0.2	U										
PHENANTHRENE	0.2	U										
PYRENE	0.2	U										

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-DUP1			NASJAX-UST14-SB01-04			NASJAX-UST14-SB03-04			NASJAX-UST14-SB07-04		
SAMPLE DATE:	03/07/01			03/07/01			03/07/01			03/07/01		
LABORATORY ID:	WR0626-4			WR0626-2			WR0626-3			WR0626-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			82.0 %			81.0 %			80.0 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	4200			24	U		3100			52		

CTO145-NAS JACKSONVILLE
SOIL DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB09-04	NASJAX-UST14-SB14-04	NASJAX-UST14-SB25-04	
SAMPLE DATE:	03/07/01	03/07/01	03/07/01	/ /
LABORATORY ID:	WR0626-5	WR0626-1	WR0626-6	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	83.0 %	77.0 %	79.0 %	100.0 %
UNITS:	MG/KG	MG/KG	MG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	34			5800			140					

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-EB1			
SAMPLE DATE:	03/07/01	/ /	/ /	/ /
LABORATORY ID:	WR0626-8			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	500	U										

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB-DUP1	NASJAX-UST14-SB01-04	NASJAX-UST14-SB03-04	NASJAX-UST14-SB07-04
SAMPLE DATE:	03/07/01	03/07/01	03/07/01	03/07/01
LABORATORY ID:	WR0626-4	WR0626-2	WR0626-3	WR0626-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANIC PARAMETERS												
TOTAL RESIDUE(%)	83			82			81			80		

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR0626

SAMPLE NUMBER:	NASJAX-UST14-SB09-04	NASJAX-UST14-SB14-04	NASJAX-UST14-SB25-04	
SAMPLE DATE:	03/07/01	03/07/01	03/07/01	/ /
LABORATORY ID:	WR0626-5	WR0626-1	WR0626-6	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANIC PARAMETERS												
TOTAL RESIDUE(%)	83			77			79					

WR0626

HOLDING TIME

04/12/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	NASJAX-UST14-SB-DUP1	WR0626-4	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/L	NASJAX-UST14-SB-EB1	WR0626-8	NORMAL	WR0626	OV	03/07/01	03/12/01	03/12/01	5	0	5
UG/L	NASJAX-UST14-SB-TB1	WR0626-9	NORMAL	WR0626	OV	03/07/01	03/12/01	03/12/01	5	0	5
UG/KG	NASJAX-UST14-SB01-04	WR0626-2	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/KG	NASJAX-UST14-SB03-04	WR0626-3	NORMAL	WR0626	OV	03/07/01	03/12/01	03/12/01	5	0	5
UG/KG	NASJAX-UST14-SB07-04	WR0626-7	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/KG	NASJAX-UST14-SB09-04	WR0626-5	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/KG	NASJAX-UST14-SB14-04	WR0626-1	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/KG	NASJAX-UST14-SB25-04	WR0626-6	NORMAL	WR0626	OV	03/07/01	03/09/01	03/09/01	2	0	2
UG/KG	NASJAX-UST14-SB-DUP1	WR0626-4	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
UG/KG	NASJAX-UST14-SB-DUP1D	WR0626-4DL	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/23/01	6	10	16
UG/L	NASJAX-UST14-SB-EB1	WR0626-8	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/23/01	6	10	16
UG/KG	NASJAX-UST14-SB01-04	WR0626-2	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
UG/KG	NASJAX-UST14-SB03-04	WR0626-3	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
UG/KG	NASJAX-UST14-SB03-04DL	WR0626-3DL	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/23/01	6	10	16
UG/KG	NASJAX-UST14-SB07-04	WR0626-7	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/23/01	6	10	16
UG/KG	NASJAX-UST14-SB09-04	WR0626-5	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
UG/KG	NASJAX-UST14-SB14-04	WR0626-1	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
UG/KG	NASJAX-UST14-SB14-04DL	WR0626-1DL	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/23/01	6	10	16
UG/KG	NASJAX-UST14-SB25-04	WR0626-6	NORMAL	WR0626	PAH	03/07/01	03/13/01	03/20/01	6	7	13
MG/KG	NASJAX-UST14-SB-DUP1	WR0626-4	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/23/01	5	11	16
UG/L	NASJAX-UST14-SB-EB1	WR0626-8	NORMAL	WR0626	TPH	03/07/01	03/13/01	03/18/01	6	5	11
MG/KG	NASJAX-UST14-SB01-04	WR0626-2	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/18/01	5	6	11
MG/KG	NASJAX-UST14-SB03-04	WR0626-3	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/23/01	5	11	16

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	NASJAX-UST14-SB07-04	WR0626-7	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/18/01	5	6	11
MG/KG	NASJAX-UST14-SB09-04	WR0626-5	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/18/01	5	6	11
MG/KG	NASJAX-UST14-SB14-04	WR0626-1	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/23/01	5	11	16
MG/KG	NASJAX-UST14-SB25-04	WR0626-6	NORMAL	WR0626	TPH	03/07/01	03/12/01	03/18/01	5	6	11
%	NASJAX-UST14-SB-DUP1	WR0626-4	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB01-04	WR0626-2	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB03-04	WR0626-3	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB07-04	WR0626-7	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB09-04	WR0626-5	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB14-04	WR0626-1	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5
%	NASJAX-UST14-SB25-04	WR0626-6	NORMAL	WR0626	TR	03/07/01	03/09/01	03/12/01	2	3	5

TETRA TECH NUS, INC.
NAS JACKSONVILLE
WR0626

FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

April 9, 2001

Initial analyses of samples WR0626-1 and –4 yielded internal standard area and surrogate recovery deviations, as well as severe chromatographic interferences. Reanalyses occurred of the methanol aliquots. Both sets of data for each sample are included in the data package.

The initial low level analysis of sample WR0626-3 yielded no useable data due to chromatographic interferences. Only the methanol analysis is included in this data package.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curves analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 12.9% and 14.2%, the curves were acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

Semivolatile Organics Analysis

One aqueous and seven soil/sediment samples were received by the Katahdin Analytical Services laboratory on March 8, 2001 and were specified for analysis in accordance with 8270C for the PAH list of analytes using selected ion monitoring (SIM) to achieve low detection limits.

Extraction of the soil samples for SIM-PAH analyses occurred following USEPA method 3550 on March 13, 2001. A laboratory control spike was extracted in the batch, along with a matrix spike/matrix spike duplicate pair on sample WR0626-5. The aqueous sample was extracted following USEPA method 3510 on March 13, 2001. A laboratory control spike/laboratory control spike duplicate pair was extracted in this batch.

Initial analyses of samples WR0626-1, -3, and –4 yielded target analyte concentrations over the upper limit of the calibration curve. These analyses also yielded internal standard area and/or surrogate recovery deviations. Reanalyses occurred at 1:25, 1:25, and 1:500 dilutions, respectively. For each analysis, both sets of data are included in this data package.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

No other protocol deviations were noted by the semivolatiles organics staff.

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P.O. Box 720, Westbrook, ME 04098
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Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS JACKSONVILLE
TASK ORDER MANAGER: GREGORY ROOF

Sample Receipt

The following samples were received on March 8, 2001 and were logged in under Katahdin Analytical Services work order numbers WR0626 for a hardcopy due date of April 5, 2001.

KATAHDIN Sample No.	TTNUS Sample Identification
WR0626-1	NASJAX-UST14-SB14-04
WR0626-2	NASJAX-UST14-SB01-04
WR0626-3	NASJAX-UST14-SB03-04
WR0626-4	NASJAX-UST14-SB-DUP1
WR0626-5	NASJAX-UST14-SB09-04
WR0626-6	NASJAX-UST14-SB25-04
WR0626-7	NASJAX-UST14-SB07-04
WR0626-8	NASJAX-UST14-SB-EB1
WR0626-9	NASJAX-UST14-SB-TB1

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organic Analysis

Two aqueous and seven soil/sediment sample was received by the Katahdin GC/MS laboratory on March 8, 2001, and was specified to be analyzed and quantitated for BTEX and MTBE in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5973-U instrument.

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. A matrix spike/matrix spike duplicate pair was analyzed on sample WR0626-5.

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Katahdin
ANALYTICAL SERVICES

GC Laboratory

Samples WR0626-1 through -8, were received on March 7, 2001 and were analyzed for petroleum range organics according to Method # FL-PRO. Sample WR0626-5 was selected for the matrix spike (MS) and matrix spike duplicate (MSD) as per client request. All samples and QC were extracted and analyzed within hold times, and all QC criteria were met with the following comments:

PRO Analysis

Sample WR0626-1, 3 and 4 were diluted in order to bring the high PRO concentration into the calibration range. Consequently, the surrogates were diluted out of range.

The recoveries of the surrogate o-Terphenyl were low and outside of the method acceptance limits for the following samples: BF1037, LCFD1037, and WR0626-6.

The laboratory control sample, LCF1036, had a high PRO recovery that was outside of the method acceptance limits. The high recovery is likely attributable to a single peak that was laboratory introduced during the extraction process, which elutes within the retention time window of PRO.

Sample WR0626-5MS had a low PRO recovery while the recovery for WR0626-5MSD was not calculable due to the sample concentration being higher than the MSD. This is likely due to a matrix effect.

The relative percent difference (RPD) between LCF1037 and LCFD1037 was above the method acceptance limit of 25%.

There were no other protocol deviations or observations noted by the GC laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and/or his designee, as verified by the following signature.

Hania Crouch
Authorized Signature
04/09/01

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KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR0626

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Tetra Tech

PROJECT: NAS Jacksonville

COC#: —
SDG#: —
DATE / TIME RECEIVED: 03-08-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SAW
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☑ SW	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT (Y) or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 1.3	AJC notified client 3/9/01
COOLER TEMP (°C)= ~~0.4~~ SW NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

SR000000

TtNUS, INC. **CHAIN OF CUSTODY** | **NUMBER** NAS JAX-UST 14-030701-A PAGE 1 OF 1

PROJECT NO: N38470	**SITE NAME:** OLD GAS STATION	**PROJECT MANAGER AND PHONE NUMBER** G. ROOF 904-281-0400	**LABORATORY NAME AND CONTACT:** BATAILLON ANDREA COLBY
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER AND PHONE NUMBER** A. PATE 904-281-0400	**ADDRESS** 340 COUNTY RD 4E
		CARRIER/WAYBILL NUMBER FED EX	**CITY, STATE** WESTBROOK, ME 04092

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

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										
						PRESERVATIVE USED										
						TYPE OF ANALYSIS	BTEX/MTBE SW-8260	PAHs EPA 8310	TPH SW-8015 EPA 8015 MOD	FL-PRO EPA 8310	BTEX/MTBE SW 8260	PAHs EPA 8021 B	TPH SW 8015 EPA	FL-PRO		COMMENTS
3/7	0930	NASJAX-UST14-SB14-04	S	G	5		3	1	1							Cool to 4°C
3/7	0950	NASJAX-UST14-SB01-04	S	G	5		3	1	1							
3/7	1015	NASJAX-UST14-SB03-04	S	G	5		3	1	1							
3/7	0000	NASJAX-UST14-SB-DUP1	S	G	MW 10 5		MW 3	MW 1	MW 1							
3/7	0000	NASJAX-UST14-MSMSD1	S	G	MW 10 5		MW 6	MW 2	MW 2							
3/7	1120	NASJAX-UST14-SB09-04	S	G	5		3	1	1							(SB09)
3/7	1201	NASJAX-UST14-SB25-04	S	G	5		3	1	1							
3/7	1152	NASJAX-UST14-SB07-04	S	G	5		3	1	1							
3/7	1425	NASJAX-UST14-SB-EB1	W	G	7					3	2	2				
3/7	1455	NASJAX-UST14-SB-TB1	W	G	1					1						

1. RELINQUISHED BY	DATE 3-7-01	TIME 1800	1. RECEIVED BY	DATE 03-08-01	TIME 0920
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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FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER NASJAX-UST14-030701-A | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: OLD GAS STATION	PROJECT MANAGER AND PHONE NUMBER: G. ROOF 904-281-0400	LABORATORY NAME AND CONTACT: KATAHDIN ANDREA COLBY
SAMPLERS (SIGNATURE): Allen L Pate		FIELD OPERATIONS LEADER AND PHONE NUMBER: A. PATE 904-281-0400	ADDRESS: 340 COUNTY RD 45
		CARRIER/WAYBILL NUMBER: FED EX	CITY, STATE: WESTBROOK, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									
						ENCORE	G	G	G	G	G				
						PRESERVATIVE USED	—	—	—	HCL	~~NONE~~	NONE	HCL		
						TYPE OF ANALYSIS	BTEX/MTBE SW-846, EPA 8021B 8260 MOD	SW-846 PAHs EPA 8270	SW-846 TPH EPA 8310	EL-PRO	BTEX/MTBE SW 846 EPA 8021B	PAHs SW 846 EPA	TPH EL-PRO EPA		COMMENTS
3/7	0920	NASJAX-UST14-SB14-04	S	G	5		3	1	1						Cool to 4°C
3/7	0950	NASJAX-UST14-SB01-04	S	G	5		3	1	1						
3/7	1015	NASJAX-UST14-SB03-04	S	G	5		3	1	1						
3/7	0000	NASJAX-UST14-SB-DUP1	S	G	MW 10 5		MW 03	1 MW 1	1 MW 1						
3/7	0000	NASJAX-UST14-MSMSD1	S	G	MW 10 5		MW 96	2 MW 2	2 MW 2						(5809)
3/7	1120	NASJAX-UST14-SB09-04	S	G	5		3	1	1						
3/7	1207	NASJAX-UST14-SB25-04	S	G	5		3	1	1						
3/7	1152	NASJAX-UST14-SB07-04	S	G	5		3	1	1						
3/7	1425	NASJAX-UST14-SB-EB1	W	G	7					3	2	2			
3/7	1455	NASJAX-UST14-SB-TB1	W	G	1					1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3-7-01	1800	1. RECEIVED BY	03-08-01	0920
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)

3/99
FORM NO. TtNUS-001

900000

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-0626

Project Manager: Andrea J. Colby
ORDER DATE: 03/08/01
PHONE: 412/921-7090
FAX: 412/921-4040
DUE: 05 APR
FAC.ID: NAS JACKSONVILLE

REPORT TO: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

INVOICE: ACCOUNTS PAYABLE
TETRA TECH NUS, INC.
FOSTER PLAZA 7, 661 ANDERSEN DR.
PITTSBURGH, PA 15220

PHONE: 412/921-7090
PO: SA-0900-025
REQ: WR N3870-01
PROJECT: CTO #145

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 07 MAY

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WR0626-1	NASJAX-UST14-SB14-04	07 MAR 0920	08 MAR	SL
	WR0626-2	NASJAX-UST14-SB01-04	07 MAR 0950		
	WR0626-3	NASJAX-UST14-SB03-04	07 MAR 1015		
	WR0626-4	NASJAX-UST14-SB-DUP1	07 MAR		
	WR0626-5	NASJAX-UST14-SB09-04	07 MAR 1120		
	WR0626-6	NASJAX-UST14-SB25-04	07 MAR 1207		
	WR0626-7	NASJAX-UST14-SB07-04	07 MAR 1152		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	7	129.00	903.00
PAHs by EPA8270	EPA 8270	7	145.00	1015.00
Petroleum Range Organics	FL-PRO	7	85.00	595.00
Solids-Total Residue (TS)	CLP/CIP SO	7	0.00	0.00
TOTALS		7	359.00	2513.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WR0626-8	NASJAX-UST14-SB-EB1	07 MAR 1425	08 MAR	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	80.00	80.00
PAHs by EPA8270	EPA 8270	1	135.00	135.00
Petroleum Range Organics	FL-PRO	1	80.00	80.00
TOTALS		1	295.00	295.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WR0626-9	NASJAX-UST14-SB-TB1	07 MAR 1455	08 MAR	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	80.00	80.00

LABORATORY ORDER CONTINUED ON PAGE 2

0000007

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-0626

Project Manager: Andrea J. Colby
ORDER DATE: 03/08/01
PHONE: 412/921-7090
FAX: 412/921-4040
DUE: 05 APR
FAC.ID: NAS JACKSONVILLE

REPORT TO: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

INVOICE: ACCOUNTS PAYABLE
TETRA TECH NUS, INC.
FOSTER PLAZA 7, 661 ANDERSEN DR.
PITTSBURGH, PA 15220

PHONE: 412/921-7090
PO: MSA-0900-025
REQ: WR N3870-01
PROJECT: CTO #145

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 07 MAY

ORDER NOTE: QC-IV NFESC
DD(KAS007QC-DB3)
NAS JACKSONVILLE

INVOICE: With Report

TOTAL ORDER AMOUNT $2,888.00
This is NOT an Invoice

C/BKR
-08Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

0000008

DATA VALIDATION TRACKING FORM

Site Name : NAS Jacksonville Region: 4

Proj Manager: Reed, G. CTO: 145

Charge No.: 3870 Validation:

Validator: E. Rodriguez ☐ Full

QA: _____ ☐ Limited

☒ Cursory

Sample Delivery Group: WR0626

Fraction:		AQUEOUS	SOLID
☒	VOA	2	7
☐	OVG		
☐	SVOA		
☐	PEST/PCB		
☒	PAH	1	7
☐	DIOXIN		
☐	HERB		
☐	EXPLOSIVES		
☒	PET	1	7
☐	OTHER		

Date Assigned: 4/12/01
Due Date: _____
Date Valid Complete: _____
Date QA Complete: _____

LOE Allotted: _____hrs
LOE Expended:
Validation _____hrs
Corrections _____hrs
QA _____hrs

Total LOE Expended _____hrs

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-1
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB14-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2,3
Petroleum Range Organics	5800.	mg/kgdrywt	32	20	FL-PRO	03/23/01	RL	
o-Terphenyl	DL	%	32		FL-PRO	03/23/01	RL	
n-triacontane-D62	DL	%	32		FL-PRO	03/23/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 03/12/01 by GNP

(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

(3) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-2
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB01-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<24.	mg/kgdrywt	1.2	20.0	FL-PRO	03/18/01	RL	
o-Terphenyl	80.	%	1.2		FL-PRO	03/18/01	RL	
n-triacontane-D62	94.	%	1.2		FL-PRO	03/18/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-3
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB03-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2,3
Petroleum Range Organics	3100.	mg/kgdrywt	25	20	FL-PRO	03/23/01	RL	
o-Terphenyl	DL	%	25		FL-PRO	03/23/01	RL	
n-triacontane-D62	DL	%	25		FL-PRO	03/23/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-4
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB-DUP1	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2,3
Petroleum Range Organics	4200.	mg/kgdrywt	30	20	FL-PRO	03/23/01	RL	
o-Terphenyl	DL	%	30		FL-PRO	03/23/01	RL	
n-triacontane-D62	DL	%	30		FL-PRO	03/23/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-5
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB09-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	34.	mg/kgdrywt	1.2	20.0	FL-PRO	03/18/01	RL	
o-Terphenyl	77.	%	1.2		FL-PRO	03/18/01	RL	
n-triacontane-D62	92.	%	1.2		FL-PRO	03/18/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-6
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB25-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	140.	mg/kgdrywt	1.3	20.0	FL-PRO	03/18/01	RL	
o-Terphenyl	69.	%	1.3		FL-PRO	03/18/01	RL	
n-triacontane-D62	88.	%	1.3		FL-PRO	03/18/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-7
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB07-04	Solid	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	52.	mg/kgdrywt	1.2	20.0	FL-PRO	03/18/01	RL	
o-Terphenyl	68.	%	1.2		FL-PRO	03/18/01	RL	
n-triacontane-D62	77.	%	1.2		FL-PRO	03/18/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/12/01 by GNP

04/06/01

LJO/jcbajc(dw)/pdl/rrl
RC12FOS6

340 County Road No. 5
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Tel: (207) 874-2400 Fax: (207)775-4029

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210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0626-8
Report Date: 04/06/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
NASJAX-UST14-SB-EB1	Aqueous	CLIENT	03/07/01	03/08/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500	µg/L	1.0	500	FL-PRO	03/18/01	RL	
o-Terphenyl	99.	%	1.0		FL-PRO	03/18/01	RL	
n-triacontane-D62	97.	%	1.0		FL-PRO	03/18/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/13/01 by JRN

04/06/01

LJO/jcbajc(dw)/rrl
RC13FOW7

340 County Road No. 5
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Tel: (207) 874-2400 Fax: (207)775-4029

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KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-1	Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
O-13	Internal standard area(s) are out of criteria. Reanalysis confirmedmatrix interference.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-1
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 77
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB14-04	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	8	ug/Kg	1.8	4	2
BENZENE	<4	ug/Kg	1.8	4	2
ETHYLBENZENE	E880	ug/Kg	1.8	4	2
TOTAL XYLENES	E1600	ug/Kg	1.8	9	5
MTBE	<4	ug/Kg	1.8	4	2
1,2-DICHLOROETHANE-D4	146	%	1.8		
DIBROMOFLUOROMETHANE	91	%	1.8		
TOLUENE-D8	97	%	1.8		
BROMOFLUOROBENZENE	#183	%	1.8		

Report Notes: E, O-13, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-1DL
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 77
Method: EPA 8260
Date Analyzed: 3/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB14-04	SL	3/7/01	3/8/01	3/12/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<140	ug/Kgdrywt	69	140	2
BENZENE	<140	ug/Kgdrywt	69	140	2
ETHYLBENZENE	<140	ug/Kgdrywt	69	140	2
TOTAL XYLENES	<340	ug/Kgdrywt	69	340	5
MTBE	<140	ug/Kgdrywt	69	140	2
1,2-DICHLOROETHANE-D4	90	%	69		
DIBROMOFLUOROMETHANE	111	%	69		
TOLUENE-D8	104	%	69		
P-BROMOFLUOROBENZENE	101	%	69		

Report Notes: O-2, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-2
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 82
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB01-04	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/Kg	1.1	2	2
BENZENE	<2	ug/Kg	1.1	2	2
ETHYLBENZENE	<2	ug/Kg	1.1	2	2
TOTAL XYLENES	<6	ug/Kg	1.1	6	5
MTBE	<2	ug/Kg	1.1	2	2
1,2-DICHLOROETHANE-D4	98	%	1.1		
DIBROMOFLUOROMETHANE	89	%	1.1		
TOLUENE-D8	99	%	1.1		
P-BROMOFLUOROBENZENE	89	%	1.1		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-3
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 81
Method: EPA 8260
Date Analyzed: 3/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB03-04	SL	3/7/01	3/8/01	3/12/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<110	ug/Kgdrywt	54	110	2
BENZENE	<110	ug/Kgdrywt	54	110	2
ETHYLBENZENE	<110	ug/Kgdrywt	54	110	2
TOTAL XYLENES	J180	ug/Kgdrywt	54	270	5
MTBE	<110	ug/Kgdrywt	54	110	2
1,2-DICHLOROETHANE-D4	85	%	54		
DIBROMOFLUOROMETHANE	101	%	54		
TOLUENE-D8	104	%	54		
P-BROMOFLUOROBENZENE	100	%	54		

Report Notes: J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-4
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-DUP1	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	120	ug/Kg	1.1	2	2
BENZENE	5	ug/Kg	1.1	2	2
ETHYLBENZENE	E16000	ug/Kg	1.1	2	2
TOTAL XYLENES	E41000	ug/Kg	1.1	6	5
MTBE	<2	ug/Kg	1.1	2	2
1,2-DICHLOROETHANE-D4	#821	%	1.1		
DIBROMOFLUOROMETHANE	82	%	1.1		
TOLUENE-D8	143	%	1.1		
P-BROMOFLUOROBENZENE	#5400	%	1.1		

Report Notes: E, O-13, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-4DL
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8260
Date Analyzed: 3/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-DUP1	SL	3/7/01	3/8/01	3/12/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	J81	ug/Kgdrywt	60	120	2
BENZENE	<120	ug/Kgdrywt	60	120	2
ETHYLBENZENE	8300	ug/Kgdrywt	60	120	2
TOTAL XYLENES	14000	ug/Kgdrywt	60	300	5
MTBE	<120	ug/Kgdrywt	60	120	2
1,2-DICHLOROETHANE-D4	94	%	60		
DIBROMOFLUOROMETHANE	96	%	60		
TOLUENE-D8	95	%	60		
P-BROMOFLUOROBENZENE	84	%	60		

Report Notes: J, O-2, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-5
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 82
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB09-04	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/Kg	1.0	2	2
BENZENE	<2	ug/Kg	1.0	2	2
ETHYLBENZENE	<2	ug/Kg	1.0	2	2
TOTAL XYLENES	<5	ug/Kg	1.0	5	5
MTBE	<2	ug/Kg	1.0	2	2
1,2-DICHLOROETHANE-D4	102	%	1.0		
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-6
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 79
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB25-04	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/Kg	1.2	2	2
BENZENE	<2	ug/Kg	1.2	2	2
ETHYLBENZENE	<2	ug/Kg	1.2	2	2
TOTAL XYLENES	<6	ug/Kg	1.2	6	5
MTBE	<2	ug/Kg	1.2	2	2
1,2-DICHLOROETHANE-D4	82	%	1.2		
DIBROMOFLUOROMETHANE	87	%	1.2		
TOLUENE-D8	102	%	1.2		
P-BROMOFLUOROBENZENE	84	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-7
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 80
Method: EPA 8260
Date Analyzed: 3/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB07-04	SL	3/7/01	3/8/01	3/9/01	KMC	5035	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/Kg	1.0	2	2
BENZENE	<2	ug/Kg	1.0	2	2
ETHYLBENZENE	<2	ug/Kg	1.0	2	2
TOTAL XYLENES	<5	ug/Kg	1.0	5	5
MTBE	<2	ug/Kg	1.0	2	2
1,2-DICHLOROETHANE-D4	107	%	1.0		
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS; INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-9
SDG: WR0626
Report Date: 3/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8260
Date Analyzed: 3/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-TB1	AQ	3/7/01	3/8/01	3/12/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<2	ug/L	1.0	2	2
BENZENE	<2	ug/L	1.0	2	2
ETHYLBENZENE	<2	ug/L	1.0	2	2
TOTAL XYLENES	<5	ug/L	1.0	5	5
MTBE	<2	ug/L	1.0	2	2
1,2-DICHLOROETHANE-D4	93	%	1.0		
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
DL	'DL' flag denotes inability to calculate surrogate recovery due to sample dilution.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-1
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 77
Method: EPA 8270
Date Analyzed: 3/20/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB14-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	E1300	ug/Kg	1.3	26	20
2-METHYLNAPHTHALENE	E1500	ug/Kg	1.3	26	20
ACENAPHTHYLENE	35	ug/Kg	1.3	26	20
ACENAPHTHENE	53	ug/Kg	1.3	26	20
FLUORENE	28	ug/Kg	1.3	26	20
PHENANTHRENE	32	ug/Kg	1.3	26	20
ANTHRACENE	<26	ug/Kg	1.3	26	20
FLUORANTHENE	51	ug/Kg	1.3	26	20
PYRENE	55	ug/Kg	1.3	26	20
BENZO[A]ANTHRACENE	30	ug/Kg	1.3	26	20
CHRYSENE	29	ug/Kg	1.3	26	20
BENZO[B]FLUORANTHENE	26	ug/Kg	1.3	26	20
BENZO[K]FLUORANTHENE	J18	ug/Kg	1.3	26	20
BENZO[A]PYRENE	30	ug/Kg	1.3	26	20
INDENO[1,2,3-CD]PYRENE	J16	ug/Kg	1.3	26	20
DIBENZ[A,H]ANTHRACENE	<26	ug/Kg	1.3	26	20
BENZO[G,H,I]PERYLENE	J16	ug/Kg	1.3	26	20
1-METHYLNAPHTHALENE	E790	ug/Kg	1.3	26	20
NITROBENZENE-D5	#434	%	1.3		
2-FLUOROBIPHENYL	#174	%	1.3		
TERPHENYL-D14	83	%	1.3		

Report Notes: J, #, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-1DL
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 77
Method: EPA 8270
Date Analyzed: 3/23/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB14-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	1600	ug/Kg	32	640	20
2-METHYLNAPHTHALENE	2100	ug/Kg	32	640	20
ACENAPHTHYLENE	<640	ug/Kg	32	640	20
ACENAPHTHENE	<640	ug/Kg	32	640	20
FLUORENE	<640	ug/Kg	32	640	20
PHENANTHRENE	<640	ug/Kg	32	640	20
ANTHRACENE	<640	ug/Kg	32	640	20
FLUORANTHENE	<640	ug/Kg	32	640	20
PYRENE	<640	ug/Kg	32	640	20
BENZO[A]ANTHRACENE	<640	ug/Kg	32	640	20
CHRYSENE	<640	ug/Kg	32	640	20
BENZO[B]FLUORANTHENE	<640	ug/Kg	32	640	20
BENZO[K]FLUORANTHENE	<640	ug/Kg	32	640	20
BENZO[A]PYRENE	<640	ug/Kg	32	640	20
INDENO[1,2,3-CD]PYRENE	<640	ug/Kg	32	640	20
DIBENZ[A,H]ANTHRACENE	<640	ug/Kg	32	640	20
BENZO[G,H,I]PERYLENE	<640	ug/Kg	32	640	20
1-METHYLNAPHTHALENE	1100	ug/Kg	32	640	20
NITROBENZENE-D5	DL	%	32		
2-FLUOROBIPHENYL	DL	%	32		
TERPHENYL-D14	DL	%	32		

Report Notes: O-2, DL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-2
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 82
Method: EPA 8270
Date Analyzed: 3/20/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB01-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<24	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
ACENAPHTHYLENE	<24	ug/Kg	1.2	24	20
ACENAPHTHENE	<24	ug/Kg	1.2	24	20
FLUORENE	<24	ug/Kg	1.2	24	20
PHENANTHRENE	<24	ug/Kg	1.2	24	20
ANTHRACENE	<24	ug/Kg	1.2	24	20
FLUORANTHENE	<24	ug/Kg	1.2	24	20
PYRENE	<24	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	<24	ug/Kg	1.2	24	20
CHRYSENE	<24	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[A]PYRENE	<24	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	<24	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	<24	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
NITROBENZENE-D5	46	%	1.2		
2-FLUOROBIPHENYL	122	%	1.2		
TERPHENYL-D14	78	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-3
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 81
Method: EPA 8270
Date Analyzed: 3/20/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB03-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	E340	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	E1300	ug/Kg	1.2	24	20
ACENAPHTHYLENE	J22	ug/Kg	1.2	24	20
ACENAPHTHENE	40	ug/Kg	1.2	24	20
FLUORENE	34	ug/Kg	1.2	24	20
PHENANTHRENE	46	ug/Kg	1.2	24	20
ANTHRACENE	J14	ug/Kg	1.2	24	20
FLUORANTHENE	63	ug/Kg	1.2	24	20
PYRENE	65	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	26	ug/Kg	1.2	24	20
CHRYSENE	27	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	J17	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	J12	ug/Kg	1.2	24	20
BENZO[A]PYRENE	J20	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	J18	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	J20	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	E1000	ug/Kg	1.2	24	20
NITROBENZENE-D5	134	%	1.2		
2-FLUOROBIPHENYL	#154	%	1.2		
TERPHENYL-D14	84	%	1.2		

Report Notes: J, E, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-3DL
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 81
Method: EPA 8270
Date Analyzed: 3/23/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB03-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	J390	ug/Kg	31	620	20
2-METHYLNAPHTHALENE	1600	ug/Kg	31	620	20
ACENAPHTHYLENE	<620	ug/Kg	31	620	20
ACENAPHTHENE	<620	ug/Kg	31	620	20
FLUORENE	<620	ug/Kg	31	620	20
PHENANTHRENE	<620	ug/Kg	31	620	20
ANTHRACENE	<620	ug/Kg	31	620	20
FLUORANTHENE	<620	ug/Kg	31	620	20
PYRENE	<620	ug/Kg	31	620	20
BENZO[A]ANTHRACENE	<620	ug/Kg	31	620	20
CHRYSENE	<620	ug/Kg	31	620	20
BENZO[B]FLUORANTHENE	<620	ug/Kg	31	620	20
BENZO[K]FLUORANTHENE	<620	ug/Kg	31	620	20
BENZO[A]PYRENE	<620	ug/Kg	31	620	20
INDENO[1,2,3-CD]PYRENE	<620	ug/Kg	31	620	20
DIBENZ[A,H]ANTHRACENE	<620	ug/Kg	31	620	20
BENZO[G,H,I]PERYLENE	<620	ug/Kg	31	620	20
1-METHYLNAPHTHALENE	1400	ug/Kg	31	620	20
NITROBENZENE-D5	DL	%	31		
2-FLUOROBIPHENYL	DL	%	31		
TERPHENYL-D14	DL	%	31		

Report Notes: J, O-2, DL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-4
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8270
Date Analyzed: 3/20/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-DUP1	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	E11000	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	E12000	ug/Kg	1.2	24	20
ACENAPHTHYLENE	<24	ug/Kg	1.2	24	20
ACENAPHTHENE	E260	ug/Kg	1.2	24	20
FLUORENE	120	ug/Kg	1.2	24	20
PHENANTHRENE	E140	ug/Kg	1.2	24	20
ANTHRACENE	40	ug/Kg	1.2	24	20
FLUORANTHENE	100	ug/Kg	1.2	24	20
PYRENE	82	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	38	ug/Kg	1.2	24	20
CHRYSENE	32	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	J21	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	J14	ug/Kg	1.2	24	20
BENZO[A]PYRENE	J20	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	<24	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	<24	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	E6400	ug/Kg	1.2	24	20
NITROBENZENE-D5	#1020	%	1.2		
2-FLUOROBIPHENYL	#164	%	1.2		
TERPHENYL-D14	74	%	1.2		

Report Notes: J, E, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-4DL
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 83
Method: EPA 8270
Date Analyzed: 3/23/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-DUP1	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	27000	ug/Kg	600	12000	20
2-METHYLNAPHTHALENE	26000	ug/Kg	600	12000	20
ACENAPHTHYLENE	<12000	ug/Kg	600	12000	20
ACENAPHTHENE	<12000	ug/Kg	600	12000	20
FLUORENE	<12000	ug/Kg	600	12000	20
PHENANTHRENE	<12000	ug/Kg	600	12000	20
ANTHRACENE	<12000	ug/Kg	600	12000	20
FLUORANTHENE	<12000	ug/Kg	600	12000	20
PYRENE	<12000	ug/Kg	600	12000	20
BENZO[A]ANTHRACENE	<12000	ug/Kg	600	12000	20
CHRYSENE	<12000	ug/Kg	600	12000	20
BENZO[B]FLUORANTHENE	<12000	ug/Kg	600	12000	20
BENZO[K]FLUORANTHENE	<12000	ug/Kg	600	12000	20
BENZO[A]PYRENE	<12000	ug/Kg	600	12000	20
INDENO[1,2,3-CD]PYRENE	<12000	ug/Kg	600	12000	20
DIBENZ[A,H]ANTHRACENE	<12000	ug/Kg	600	12000	20
BENZO[G,H,I]PERYLENE	<12000	ug/Kg	600	12000	20
1-METHYLNAPHTHALENE	J11000	ug/Kg	600	12000	20
NITROBENZENE-D5	DL	%	600		
2-FLUOROBIPHENYL	DL	%	600		
TERPHENYL-D14	DL	%	600		

Report Notes: J, O-2, DL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-5
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 82
Method: EPA 8270
Date Analyzed: 3/20/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB09-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<24	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
ACENAPHTHYLENE	<24	ug/Kg	1.2	24	20
ACENAPHTHENE	<24	ug/Kg	1.2	24	20
FLUORENE	<24	ug/Kg	1.2	24	20
PHENANTHRENE	<24	ug/Kg	1.2	24	20
ANTHRACENE	<24	ug/Kg	1.2	24	20
FLUORANTHENE	<24	ug/Kg	1.2	24	20
PYRENE	<24	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	<24	ug/Kg	1.2	24	20
CHRYSENE	<24	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[A]PYRENE	<24	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	<24	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	<24	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
NITROBENZENE-D5	36	%	1.2		
2-FLUOROBIPHENYL	95	%	1.2		
TERPHENYL-D14	68	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-7
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: 80
Method: EPA 8270
Date Analyzed: 3/23/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB07-04	SL	3/7/01	3/8/01	3/13/2001	GNP	3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<24	ug/Kg	1.2	24	20
2-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
ACENAPHTHYLENE	<24	ug/Kg	1.2	24	20
ACENAPHTHENE	<24	ug/Kg	1.2	24	20
FLUORENE	<24	ug/Kg	1.2	24	20
PHENANTHRENE	<24	ug/Kg	1.2	24	20
ANTHRACENE	<24	ug/Kg	1.2	24	20
FLUORANTHENE	<24	ug/Kg	1.2	24	20
PYRENE	<24	ug/Kg	1.2	24	20
BENZO[A]ANTHRACENE	<24	ug/Kg	1.2	24	20
CHRYSENE	<24	ug/Kg	1.2	24	20
BENZO[B]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[K]FLUORANTHENE	<24	ug/Kg	1.2	24	20
BENZO[A]PYRENE	<24	ug/Kg	1.2	24	20
INDENO[1,2,3-CD]PYRENE	<24	ug/Kg	1.2	24	20
DIBENZ[A,H]ANTHRACENE	<24	ug/Kg	1.2	24	20
BENZO[G,H,I]PERYLENE	<24	ug/Kg	1.2	24	20
1-METHYLNAPHTHALENE	<24	ug/Kg	1.2	24	20
NITROBENZENE-D5	48	%	1.2		
2-FLUOROBIPHENYL	48	%	1.2		
TERPHENYL-D14	48	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0626-8
SDG: WR0626
Report Date: 4/3/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 3/23/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NASJAX-UST14-SB-EB1	AQ	3/7/01	3/8/01	3/13/2001	JRN	3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	74	%	1.0		
2-FLUOROBIPHENYL	60	%	1.0		
TERPHENYL-D14	66	%	1.0		

Report Notes:

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**Mr. Greg Roof**	**DATE:**	**September 24, 2001**
FROM:	**Elena Rodriguez**	**COPIES:**	**DV FILE**
SUBJECT:	**CURSORY DATA REVIEW** **CTO 0145, NASJAX** **SDG WR2618**		
SAMPLES:	2/Soil JAX-19-SB03A JAX-19-SB14A		

SUMMARY

The sample set for CTO 0145, NAS Jacksonville, SDG WR2618 consists of 2 soil environmental samples. Sample JAX-19-SB03A was analyzed for SPLP TRPH. Sample JAX-19-SB14A was analyzed for SPLP select VOCs, select PAHs, and TRPH.

The samples were collected by TetraTech NUS on July 25, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 8260B, 8310, and FL PRO methodology. A cursory review of the data contained in this SDG was performed to rule out false positive or false negative results.

COMMENTS

PRO was detected in the laboratory method blank. An action level of 5X the maximum concentration has been used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when determining blank contamination. Positive results less than the blank action levels were qualified, "U", as nondetected due to blank contamination.

Elena Rodriguez
Tetra Tech NUS

Elena Rodriguez

CTO145-NAS JACKSONVILLE
SPLP DATA
KAS
SDG: WR2618

SAMPLE NUMBER:	JAX-19-SB14A											
SAMPLE DATE:	07/25/01			/ /			/ /			/ /		
LABORATORY ID:	WR2618-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
ETHYLBENZENE	250	U										
TOTAL XYLENES	250	U										

CTO145-NAS JACKSONVILLE

SPLP DATA

KAS

SDG: WR2618

SAMPLE NUMBER:	JAX-19-SB14A		
SAMPLE DATE:	07/25/01	/ /	/ /	/ /
LABORATORY ID:	WR2618-1		
QC_TYPE:	NORMAL		
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L		
FIELD DUPLICATE OF:			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	1	U										
2-METHYLNAPHTHALENE	1	U										
NAPHTHALENE	1	U										

CTO145-NAS JACKSONVILLE
SPLP DATA
KAS
SDG: WR2618

SAMPLE NUMBER:	JAX-19-SB03A			JAX-19-SB14A			/ /			/ /		
SAMPLE DATE:	07/25/01			07/25/01								
LABORATORY ID:	WR2618-2			WR2618-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	4900	B U	A	5400	B U	A						

WR2618

HOLDING TIME
09/14/01

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	JAX-19-SB14A	WR2618-1	NORMAL	WR2618	SPLPV	07/25/01	08/01/01	08/01/01	7	0	7
UG/L	JAX-19-SB14A	WR2618-1	NORMAL	WR2618	SPPAH	07/25/01	08/09/01	08/22/01	15	13	28
UG/L	JAX-19-SB03A	WR2618-2	NORMAL	WR2618	SPTPH	07/25/01	08/09/01	09/07/01	15	29	44
UG/L	JAX-19-SB14A	WR2618-1	NORMAL	WR2618	SPTPH	07/25/01	08/09/01	09/07/01	15	29	44

Katahdin
ANALYTICAL SERVICES

September 11, 2001

Ms. Amy Thomson
Tetra Tech Nus, Inc.
661 Andersen Drive
Foster Plaza VII
Pittsburgh, PA 15220-2745

RE: Katahdin Lab Number: WR2618
Project ID: CTO#145
Project Manager: Ms. Andrea J. Colby
Sample Receipt Date(s): July 26,2001

Dear Ms. Thomson:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Chain of Custody (COC)
* Confirmation

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Karen J Mahoney
Authorized Signature

9.11.01
Date

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-2618-1
Report Date: 09/11/01
PO No. : MSA-0900-025
Project : CTO#145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-SB14A	Aqueous	CLIENT	07/25/01	07/26/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2,3
Petroleum Range Organics	B5400	µg/L	1.0	500	FL-PRO	09/07/01	JG	
o-Terphenyl	#61	%	1.0		FL-PRO	09/07/01	JG	
n-triacontane-D62	#41	%	1.0		FL-PRO	09/07/01	JG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 08/09/01 by AB

(2) "#" flag denotes surrogate compound recovery is out of criteria.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of PRO in the method blank was 3900ug/L.

09/11/01

LJO/jcbajc(dw)/jcg/pdl
RH09FOW6

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

www.katahdinlab.com

210 West Road No. 5
Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2618-1
SDG: WR2618
Report Date: 8/27/01
PO No. : MSA-0900-025
Project: CTO#145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 8/22/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-SB14A	AQ	7/25/01	7/26/01	8/9/2001	AB	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<1	ug/L	5.0	1	0.2
2-METHYLNAPHTHALENE	<1	ug/L	5.0	1	0.2
1-METHYLNAPHTHALENE	<1	ug/L	5.0	1	0.2
NITROBENZENE-D5	142	%	5.0		
2-FLUOROBIPHENYL	118	%	5.0		
TERPHENYL-D14	146	%	5.0		

Report Notes: INITIAL VOLUME OF 200 MLS RESULTED IN ELEVATED PQL'S.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2618-1
SDG: WR2618
Report Date: 8/6/01
PO No. : MSA-0900-025
Project: CTO#145
% Solids: -
Method: EPA 8260
Date Analyzed: 8/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-SB14A	SL	7/25/01	7/26/01	8/1/01	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<250	ug/L	50	250	5.0
TOTAL XYLENES	<250	ug/L	50	250	5.0
DIBROMOFLUOROMETHANE	106	%	50		
TOLUENE-D8	104	%	50		
P-BROMOFLUOROBENZENE	109	%	50		
1,2-DICHLOROETHANE-D4	101	%	50		

Report Notes: O-1, O-2

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-2618-2
Report Date: 09/11/01
PO No. : MSA-0900-025
Project : CTO#145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-SB03A	Aqueous	CLIENT	07/25/01	07/26/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								
Petroleum Range Organics	B4900	µg/L	1.0	500	FL-PRO	09/07/01	JG	1,2,3
o-Terphenyl	#46	%	1.0		FL-PRO	09/07/01	JG	
n-triacontane-D62	#33	%	1.0		FL-PRO	09/07/01	JG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 08/09/01 by AB

(2) "#" flag denotes surrogate compound recovery is out of criteria.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of PRO in the method blank was 3900ug/L.

09/11/01

LJO/jcbajc(dw)/jcg/pdl
RH09FOW6

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

PRO by GC Method:FL-PRO

Water Matrix

Client:TETRA TECH NUS, INC.
Work Order: WR2618

Blank: BF1166
Result File: CRI2024
Date Analyzed: 09/06/01

CHRONOLOGY

KAS Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor
LCF1166	08/09/01	09/06/01	1.0
PBT548A	08/09/01	09/06/01	1.0
WR2618-1	08/09/01	09/07/01	1.0
WR2618-1MS	08/09/01	09/07/01	1.0
WR2618-2	08/09/01	09/07/01	1.0

KAS Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor

METHOD BLANK RESULTS*

Compound	Concentration (µg/L)
PRO	3900

METHOD BLANK SURROGATE RECOVERY

Surrogate	% Recovery
O-Terphenyl	76%
Triacontane-d62	82%

* Blank results listed correspond to the extraction blank prepared with the above samples on date of extraction. Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Client: Tetra Tech NUS, Inc
Work Order #: WR2618

Laboratory Control Sample Results

PRO by GC Method: FL-PRO

Water Matrix

LCS number: LCF1166,LCFD1166
Date of Extraction: 08/09/01
Date of Analysis: 09/06/01

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)	Relative Percent Difference	RPD Acceptance Range (%)
PRO Components	ug/L	4250	6400	5320	151	125	55-118	18	0-20
o-Terphenyl	mg/L	50	43	37	86	74	82-142		
Triacontane-d62	mg/L	300	231	177	77	59	42-193		

NA = Not Applicable

4B

SEMIVOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK;080901

Lab Name: Katahdin Analytical Services SDG No.: WR2618

Lab File ID: X8168

Lab Sample ID: SBLK;080901

Instrument ID: 5970-X

Date Extracted: 8/9/2001

GC Column: RTX-5 ID: 0.25 (mm)

Date Analyzed: 08/22/01

Matrix: (soil/water) WATER

Time Analyzed: 17:55

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCS;080901	LCS;080901	X8169	8/22/01	6:37:00 PM
JAX-19-SB14A	WR2618-1	X8171	8/22/01	7:59:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: SBLK;080901
SDG: WR2618
Report Date: 8/27/01
PO No. : MSA-0900-025
Project: CTO#145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 8/22/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SBLK;080901	AQ	-	-	8/9/2001	AB	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<1	ug/L	5.0	1	0.2
2-METHYLNAPHTHALENE	<1	ug/L	5.0	1	0.2
1-METHYLNAPHTHALENE	<1	ug/L	5.0	1	0.2
NITROBENZENE-D5	125	%	5.0		
2-FLUOROBIPHENYL	86	%	5.0		
TERPHENYL-D14	112	%	5.0		

Report Notes: INITIAL VOLUME OF 200 MLS RESULTED IN ELEVATED PQL'S.

Katahdin Analytical Services
8270 LCS Recovery Sheet

Lab File: X8169 Sample ID: LCS;080901 Date Run: 8/22/01

Analyst: JG Time Injected: 6:37:00 PM Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
2-METHYLNAPHTHALENE	10	13.3	*133	70-130
ACENAPHTHENE	10	7.41	74	70-130
ACENAPHTHYLENE	10	8.58	86	70-130
ANTHRACENE	10	9.28	93	70-130
BENZO[A]ANTHRACENE	10	10.3	103	70-130
BENZO[A]PYRENE	10	9.10	91	70-130
BENZO[B]FLUORANTHENE	10	9.84	98	70-130
BENZO[G,H,I]PERYLENE	10	11.4	114	70-130
BENZO[K]FLUORANTHENE	10	10.1	101	70-130
CHRYSENE	10	8.65	86	70-130
DIBENZ[A,H]ANTHRACENE	10	10.6	106	70-130
FLUORANTHENE	10	11.2	112	70-130
FLUORENE	10	8.46	85	70-130
INDENO[1,2,3-CD]PYRENE	10	10.8	108	70-130
NAPHTHALENE	10	7.29	73	70-130
PHENANTHRENE	10	7.96	80	70-130
PYRENE	10	7.73	77	70-130

*1-Methylnapthalene was not spike in.

* Out of Limits

1

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS01C

Lab Name: Katahdin Analytical Services SDG No.: WR2618

Lab File ID: S7580

Lab Sample ID: VBLKS01C

Date Analyzed: 08/01/01

Time Analyzed: 12:18

GC Column: RTX-VM ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: 5972-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSS01B	LCSS01B	S7577	8/1/01	10:13:00 AM
SPLPBLKS01	SPLPBLKS01	S7585	8/1/01	3:03:00 PM
JAX-19-SB14A	WR2618-1	S7586	8/1/01	3:37:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: VBLKS01C
SDG: WR2618
Report Date: 8/6/01
PO No. : MSA-0900-025
Project: CTO#145
% Solids: N/A
Method: EPA 8260
Date Analyzed: 8/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS01C	AQ	-	-	8/1/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5.0	ug/L	1.0	5.0	5.0
TOTAL XYLENES	<5.0	ug/L	1.0	5.0	5.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: SPLPBLKS01
SDG: WR2618
Report Date: 8/6/01
PO No. : MSA-0900-025
Project: CTO#145
% Solids: -
Method: EPA 8260
Date Analyzed: 8/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SPLPBLKS01	SL	-	-	8/1/01	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5.0	ug/L	1.0	5.0	5.0
TOTAL XYLENES	<5.0	ug/L	1.0	5.0	5.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	108	%	1.0		
1,2-DICHLOROETHANE-D4	102	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S7577 Sample ID: LCSS01B Date Run: 8/1/01

Analyst: JSS Time Injected: 10:13:00 AM Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50.0	44.2	88	60-140
ETHYLBENZENE	50.0	47.1	94	60-140
TOLUENE	50.0	46.4	93	60-140
TOTAL XYLENES	150.0	140	93	60-140

* Out of Limits

1

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

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

LAB (WORK ORDER) #: WR2618

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: TETRA TECH

PROJECT: JACKSONVILLE

COC#

SDG#

DATE / TIME RECEIVED: 7-26-01 0915

DELIVERED BY: FED EX

RECEIVED BY: SAW

LIMS ENTRY BY: MM

LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 1.3	
COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 072501 WR 2618 PAGE 1 OF 1

PROJECT NO: 3870	SITE NAME: (UST14) Old Gas Station
SAMPLERS (SIGNATURE) Alan N. Pate / Alan Pate	PROJECT MANAGER AND PHONE NUMBER Greg Roof (904) 281-0400
	FIELD OPERATIONS LEADER AND PHONE NUMBER Alan Pate (904) 281-0400
	CARRIER/WAYBILL NUMBER 7924 3051 9669
STANDARD TAT ☒ RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day	LABORATORY NAME AND CONTACT: Andrea Colby / Katahdin
	ADDRESS 340 County Rd. No. 5
	CITY, STATE Westbrook, ME 04092

DATE YEAR 7/25/01	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G					
						PRESERVATIVE USED	None	None	None					
						TYPE OF ANALYSIS	SPLP VOA 1312/8260	SPLP PAH 1312/8270	SPLP TPH 1312/FLPRO					COMMENTS
	0930	JAX-19-SB14A	Soil	G	2		X	X	X					* report only Analytes specified on attached page.
	0945	JAX-19-SB03A	Soil	G	1				X					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Alan N. Pate	7/25/01	1600	1. RECEIVED BY	7-26 01	0915
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)

3/99
FORM NO. TtNUS-001

Katahdin Analytical Services 0000017

ADDENDUM
ORIGINAL CHAIN OF CUSTODY

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 072501 WR 2618 PAGE 1 OF 1

PROJECT NO: 3870	SITE NAME: (UST14) Old Gas Station	PROJECT MANAGER AND PHONE NUMBER Greg Roof (904) 281-0400	LABORATORY NAME AND CONTACT: Andrea Colby / KAtahdin
SAMPLERS (SIGNATURE) Glenn P. Pate Glenn P. Pate		FIELD OPERATIONS LEADER AND PHONE NUMBER Alan Pate (904) 281-0400	ADDRESS 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER 7924 3051 9664	CITY, STATE Westbrook, ME 04092

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								
						PRESERVATIVE USED								
						TYPE OF ANALYSIS	SPLP VOA 1312/6260	SPLP PAH 1312/8270	SPLP TPH 1312/FL/PRO					COMMENTS
7/25/01	0930	JAX-19-SB14A	soil	G	2	G	X	X	X					* report only Analytes specified on attached page.
	0945	JAX-19-SB03A	soil	G	1	G			X					

1. RELINQUISHED BY Glenn P. Pate	DATE 7/25/01	TIME 1600	1. RECEIVED BY Shelly Hill	DATE 7-26-01	TIME 0915
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)

3/99
FORM NO. TtNUS-001

APPENDIX H
GROUNDWATER FIELD SAMPLING DATA SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Jacksonville
Project No.: N3870
Location: Old Gas Station
Personnel: Alan Pate and Joe Ferranti
Weather Conditions:
Measuring Device: Heron Dipper T W.L.I.
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments P.Z.D.
UST14-MW1	3/20/01	0751			4.01			884
UST14-MW2	3/20/01	0752			4.06			870
UST14-MW3	3/20/01	0802			4.75			104
UST14-MW4	3/20/01	0801			5.67			247
UST14-MW5	3/20/01	0800			3.71			296
UST14-MW6	3/20/01	0759			2.78			80.2
UST14-MW7	3/20/01	0755			3.29			1134
UST14-MW8	3/20/01	1234			2.80			241
UST14-MW9	3/20/01	0757			4.49			1076

* All measurements to the nearest 0.01 foot

Page ___ of ___

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: OLD GAS STATION **Project No.:**
Location: NAS JAX **Personnel:** J. FERRANTI & A. PATE
Weather Conditions: SUNNY & HOT **Measuring Device:** HERON DIPPER T
Tidally Influenced: Yes ___ No 1 **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
JAX-19 MW 1	9/24/01	1512			3.68			
MW 2	9/24/01	1510			3.72			
MW 3	9/24/01	1516			3.75			
MW 4	9/24/01	1450			4.43			
MW 5	9/24/01	1457			3.62			
MW 6	9/24/01	1453			2.59			
MW 7	9/24/01	1505			3.06			
MW 8	9/24/01	1502			2.58			
MW 9	9/24/01	1454			3.48			
MW 10	9/24/01	1513			4.43			
MW 11	9/24/01	1445			3.45			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: JAX-19 – MW-1-01
Sample Location: ~~NASJAX-UST14-MW 01~~ JAX-19-MW-1-01
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	Other
Date: 3/20/01 Time: 0852	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Method: Low Flow Peristaltic	clear	7.09	50.5	0	0.70	24.20	-177	

PURGE DATA

Date: 3/20/01	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							

Monitor Reading (ppm):
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 22'
Static Water Level (WL): 4.01
One Casing Volume (gal/L): .85
Start Purge (hrs): 0820
End Purge (hrs): 0852
Total Purge Time (min): 32
Total Vol. Purged (gal/L): 9.35

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

22.0
4.
5.
3
.17
2 5
.85
x 7
50

1
3.7
x 3
10.2

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

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

JAX-19-MW-1

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870
WELL ID.: ~~NASJAX-UST14-~~MW
DATE: 3/20/01

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
0820	4.01	200	6.63	54.9	171.0	3.92	23.38	-139	
0825	4.18	300	6.69	55.1	142.0	3.16	23.37	-145	
0830	4.20	300	6.91	53.8	55.0	1.20	23.40	-169	
0835	4.19	300	6.99	51.3	17.0	3.16	23.50	-165	
0840	4.21	300	7.02	51.1	4.8	3.11	23.70	-167	
0845	4.20	300	7.07	51.0	0	0.93	24.06	-175	
0850	4.20	300	7.09	50.7	0	0.75	24.20	-176	
0852	Sample	300	7.09	50.5	0	0.70	24.20	-177	

SIGNATURE(S): Jeff A. Lantz

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Jax, Old Gas Statiion
Project No.: N3870, CTO 145

Sample ID No.: ~~NASJAX-UST14-MW-01~~ JAX-19-MW2-01
Sample Location: ~~NASJAX-UST14-MW~~ JAX-19-MW2
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/20/01								
Time: 1007								
Method: Low Flow Peristaltic	clear	6.23	50.1	2.7	0.47	22.78	-61	

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/20/01								
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							

Monitor Reading (ppm): 870
Well Casing Diameter: 2"
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 4.08
One Casing Volume(gal/L): 5.6L
Start Purge (hrs): 0920
End Purge (hrs): 1005
Total Purge Time (min): 45
Total Vol. Purged (gal/L): 18L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Joe Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST14-MW~~ JAX-19-MW2
DATE: 3/20/01

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
0920	4.02	400	6.46	50.1	100.0	5.01	22.67	-60	
0925	4.31	400	6.31	50.5	20.7	4.38	22.70	-58	
0930	4.31	400	6.27	50.5	11.7	1.74	22.70	-60	
0935	4.31	400	6.26	50.4	8.5	1.16	22.80	-61	
0940	4.31	400	6.26	50.4	10.5	0.97	22.88	-62	
0945	4.31	400	6.25	50.3	7.5	0.67	22.85	-62	
0950	4.31	400	6.25	50.4	2.6	0.62	22.80	-61	
0955	4.31	400	6.23	50.3	0	0.55	22.83	-61	
1000	4.31	400	6.23	50.2	0	0.50	22.70	-61	
1005	4.31	400	6.23	50.1	2.7	0.47	22.78	-61	
1007	Sample								

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: ~~NASJAX-UST14-MW-01~~ *Jax-19-MW3-01*
Sample Location: ~~NASJAX-UST14-MW~~ *Jax-19-MW*
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/20/01								
Time: 1112								
Method: Low Flow Peristaltic	CLEAR	6.85	76.5	1.6	0.13	23.02	-278	—

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/20/01								
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							

Monitor Reading (ppm): 104
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 4.75
One Casing Volume(gal/L): 4.9L
Start Purge (hrs): 1030
End Purge (hrs): 1110
Total Purge Time (min): 40
Total Vol. Purged (gal/L): 16 L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Joe A. Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST14-MW~~ JAx-19-MW3
DATE: 3/20/01

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
1030	4.75	400	6.50	73.1	72.5	9.54	23.12	-81	
1035	5.25	400	6.81	73.1	69.3	0.40	23.07	-158	
1040	5.26	400	6.82	73.2	62.0	0.33	23.09	-163	
1045	5.26	400	6.80	74.4	31.8	1.65	23.02	-180	
1050	5.26	400	6.82	75.5	18.9	0.42	23.02	-199	
1055	5.26	400	6.82	76.3	0.9	0.50	23.02	-221	
1100	5.26	400	6.84	76.8	1.4	0.35	23.02	-248	
1105	5.26	400	6.84	76.4	1.7	0.18	23.02	-271	
1110	5.26	400	6.85	76.5	1.6	0.13	23.02	-278	
1112	Sample								

SIGNATURE(S): Jane M. Tenk

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: ~~NASJAX-UST14-MW -01~~ JAX-19-MW4-01
Sample Location: ~~NASJAX-UST14-MW~~ JAX-19-MW4
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/21/01								
Time: 1037								
Method: Low Flow Peristaltic	clear	6.08	20.6	0	0.75	21.84	3	

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/21/01								
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							

Monitor Reading (ppm):
Well Casing Diameter:
Well Casing Material: **PVC**
Total Well Depth (TD): 18.0
Static Water Level (WL): 5.59
One Casing Volume(gal/L): 4.5
Start Purge (hrs): 1000
End Purge (hrs): 1035
Total Purge Time (min): 35
Total Vol. Purged (gal/L): 14L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

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

Signature(s):
Joe N. Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: JAX-19 MW 4 ~~NASJAX-UST14-MW~~
DATE: 3/21/01

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
1000	5.59	400	—	—	—	—	—	—	
1005	5.94	400	6.06	20.4	164	1.32	21.41	35	
1010	5.83	400	6.06	19.8	3.2	1.49	21.65	14	
1015	5.83	400	6.06	20.1	0	0.61	21.87	8	
1020	5.83	400	6.06	20.3	0	0.46	21.91	5	
1025	5.83	400	6.07	20.4	0	0.59	21.91	5	
1030	5.83	400	6.07	20.6	0	0.71	21.84	4	
1035	5.93	400	6.08	20.6	0	0.75	21.84	3	
1037	Sample	—	—						

SIGNATURE(S): Joe N. Faust

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

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

Sample ID No.: JAX-19-MW5-01 ~~NASJAX-UST14-MW-01~~
Sample Location: ~~NASJAX-UST14-MW~~ JAX-19-MW.
Sampled By: Alan Pate
Joe Ferranti

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 3/21/01	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Time: 0927								
Method: Low Flow Peristaltic	clear	6.65	61.6	0	0.56	21.89	18	

PURGE DATA

Date: 3/21/01	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							

Monitor Reading (ppm):
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 4.01
One Casing Volume(gal/L): 5.6L
Start Purge (hrs): 0835
End Purge (hrs): 0925
Total Purge Time (min): 50
Total Vol. Purged (gal/L): 18L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

Circle if Applicable:
MS/MSD
Duplicate ID No.: JAX-19-Dupl-01

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

JAX - 19 - MW5

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST44-MW~~
DATE: 5/21/01

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
0835	4.01	400	–	–	–	–	–	–	
0840	4.09	400	6.56	60.0	14.4	1.87	21.43	38	
0850	4.10	400	6.60	60.7	0	1.20	21.65	31	
0855	4.10	400	6.64	60.9	0	0.65	21.67	20	
0900	4.10	400	6.65	61.0	0	0.62	21.74	16	
0905	4.10	400	6.65	61.1	0	0.60	21.79	15	
0910	4.10	400	6.65	61.4	0	0.47	21.89	17	
0915	4.10	400	6.65	61.7	0	0.53	21.90	19	
0920	4.10	400	6.65	61.7	0	0.50	21.95	20	
0925	4.10	400	6.65	61.6	0	0.56	21.89	18	
0927	Sample	–	–						

SIGNATURE(S): Joe M. Fant

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

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

Sample ID No.: ~~NASJAX-UST14-MW-01~~ Jax-19-mw6-01
Sample Location: ~~NASJAX-UST14-MW~~ Jax-19-mw6
Sampled By: Alan Pate
Joe Ferranti

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 3/21/01	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Time: 0752								
Method: Low Flow Peristaltic	yellow	6.63	63.6	0	0.30	19.07	-95	

PURGE DATA

Date: 3/21/01	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Method: Low Flow Peristaltic	See Attached Low Flow Purge Data Sheet							
Monitor Reading (ppm):								

Well Casing Diameter:
Well Casing Material: **PVC**
Total Well Depth (TD): 13.0
Static Water Level (WL): 3.02
One Casing Volume(gal/L): 6.2
Start Purge (hrs): 0700
End Purge (hrs): 0750
Total Purge Time (min): 50
Total Vol. Purged (gal/L): 20L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

Circle if Applicable:
MS/MSD Duplicate ID No.:
Jax-19-mw6(1)-01

Signature(s):
Joe M. Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

JAX-19-MW6

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870
WELL ID.: ~~NASJAX-UST14-MW~~
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
0700	3.02	400	6.29	60.1	153.0	1.03	19.01	-51	
0705	3.13	400	6.33	60.5	155.0	0.53	19.15	-56	
0710	3.15	400	6.44	60.0	60.9	0.83	19.41	-70	(yellow color)
0715	3.15	400	6.51	59.3	19.6	0.06	19.33	-85	
0720	3.15	400	6.52	59.4	16.8	0.05	19.33	-86	
0725	3.14	400	6.56	60.5	18.1	0.04	19.24	-91	
0730	3.14	400	6.56	60.7	17.3	0.04	19.24	-92	
0735	3.14	400	6.59	62.0	0	0.11	19.20	-93	
0740	3.14	400	6.60	62.9	0	0.17	19.16	-94	
0745	3.14	400	6.62	63.2	4.1	0.25	19.11	-95	
0750	3.14	400	6.63	63.6	0	0.30	19.07	-95	
0752	sample	-	-						

SIGNATURE(S):

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: ~~NASJAX-UST14-MW-01~~ JAX-19-MW7-01
Sample Location: ~~NASJAX-UST14-MW~~ JAX-19-MW7
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/20/01								
Time: 1222								
Method: Low Flow Peristaltic	CLEAR	5.64	42.9	0.6	4.33	24.08	30	

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/20/01	See Attached Low Flow Purge Data Sheet							
Method: Low Flow Peristaltic								

Monitor Reading (ppm): 1134
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 3.29
One Casing Volume(gal/L): 6.2L
Start Purge (hrs): 1132
End Purge (hrs): 1220
Total Purge Time (min): 48
Total Vol. Purged (gal/L): 19L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

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

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

JAX-19-MW7

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST14-MW~~
DATE: 3/20/01

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
1132	3.29	400	5.64	40.1	127.0	6.33	23.96	44	
1137	3.51	400	5.57	39.7	59.0	4.19	23.93	54	
1142	3.50	400	5.56	39.9	12.7	3.54	24.05	57	
1147	3.50	400	5.55	40.1	11.1	3.50	24.06	58	
1152	3.51	400	5.53	40.5	4.9	3.92	24.10	60	
1157	3.50	400	5.55	41.0	0.5	4.06	23.9	61	
1202	3.50	400	5.58	41.7	0.8	4.23	24.02	58	
1207	3.50	400	5.61	42.2	0	4.33	23.9	49	
1212	3.50	400	5.63	42.6	1.1	4.37	24.07	42	
1217	3.50	400	5.63	42.6	0.8	4.37	24.10	37	
1220	3.50	400	5.64	42.9	0.6	4.33	24.08	30	
1222	Sample								

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

JAX-19-MW8-01

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: ~~NASJAX-UST14-MW 01~~
Sample Location: NASJAX-UST14-MW JAX-19-MW8
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/20/01								
Time: 1335								
Method: Low Flow Peristaltic	CLEAR	6.88	55.1	0	0.98	20.94	-140	

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/20/01	See Attached Low Flow Purge Data Sheet							
Method: Low Flow Peristaltic								

Monitor Reading (ppm): 241
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 2.80
One Casing Volume(gal/L): 6.3
Start Purge (hrs): 1242
End Purge (hrs): 1332
Total Purge Time (min): 50
Total Vol. Purged (gal/L): 20L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

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

Signature(s):

Joe A. Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST14-MW~~ JAX-19-MW8-01
DATE: 3/20/01

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
1242	2.80	400	6-	—	—	—	—	—	
1247	2.99	400	6.72	56.1	14.6	3.23	20.87	-104	
1252	2.99	400	6.84	55.9	6.0	1.92	20.88	-130	
1257	3.00	400	6.86	56.4	Ø	1.46	21.06	-131	
1302	3.00	400	6.86	55.8	2.7	1.26	20.96	-134	
1307	3.00	400	6.86	55.3	1.8	1.11	20.81	-136	
1312	3.00	400	6.87	55.5	Ø	1.13	21.00	-137	
1317	3.00	400	6.87	55.4	0.9	1.06	21.04	-138	
1322	3.00	400	6.87	55.6	0.4	0.99	21.11	-139	
1327	3.00	400	6.88	55.2	Ø	1.12	21.08	-138	
1332	3.00	400	6.88	55.1	Ø	0.98	20.94	-140	
1335	SAMple	—	—	—					

SIGNATURE(S): Jon A Zeit

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: *NAS Jax, Old Gas Statiion*
Project No.: *N3870, CTO 145*

Sample ID No.: JAX-19-MW9-01
Sample Location: ~~NASJAX-UST14-MW 01~~ JAX-19-MW9
Sampled By: Alan Pate
Joe Ferranti

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

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	Other
Date: 3/20/01								
Time: 1432								
Method: Low Flow Peristaltic	yellow	6.60	57.8	0.7	2.12	22.98	-30	

PURGE DATA

	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Date: 3/20/01	See Attached Low Flow Purge Data Sheet							
Method: Low Flow Peristaltic								

Monitor Reading (ppm): 1076
Well Casing Diameter:
Well Casing Material: PVC
Total Well Depth (TD): 13.0
Static Water Level (WL): 4.49
One Casing Volume(gal/L): 5.6 L
Start Purge (hrs): 1350
End Purge (hrs): 1430
Total Purge Time (min): 40
Total Vol. Purged (gal/L): 16 L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	UST14-C-	✓
TRPH	HCL	2-1L Amber glass			✓
PAH	~~	2-1L Amber glass			✓
Lead	HNO3	1-1L HDPE			✓
EDB	HCl	2-40ml glass vials			✓

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

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

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870

WELL ID.: ~~NASJAX-UST14-MW~~ Jax-19-MW9
DATE: 3/20/01

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
1350	4.49	400	—	—	—	—	—	—	
1355	4.71	400	6.63	59.3	104.0	4.51	23.17	-152	
1400	4.71	400	6.63	59.5	10.8	1.42	23.17	-151	
1405	4.71	400	6.63	58.9	3.1	0.62	23.17	-148	yellow color
1410	4.80	400	6.62	57.8	3.4	0.28	23.08	-142	
1415	4.80	400	6.61	~~59~~ 57.3	0.9	0.14	22.99	-138	
1420	4.80	400	6.60	57.3	0.6	0.10	23.01	-135	
1425	4.80	400	6.60	57.7	1.0	0.17	22.96	-132	
1430	4.80	400	6.60	57.8	0.7	0.12	22.98	-130	
1432	Sample	—	—						

SIGNATURE(S): Jeff Tant

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: ***NAS Jax, Old Gas Statiion***
Project No.: ***N3870, CTO 145***

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

Sample ID No.: **NASJAX-19-MW10-01**
Sample Location: **NASJAX-19-MW10**
Sampled By: **Joe Ferranti**

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 7/12/01	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	Other
Time: 1600	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Method: Low Flow Peristaltic								

PURGE DATA

Date: 7/12/01	Time	pH	S.C.	Turbidity	DO	Temp (°C)	ORP	ORP
Method: Low Flow Peristaltic	**See Attached Low Flow Purge Data Sheet**							

Monitor Reading (ppm):
Well Casing Diameter:
Well Casing Material: **PVC**
Total Well Depth (TD): 13.0
Static Water Level (WL): 5.51
One Casing Volume(gal/L): 5.6
Start Purge (hrs): 1409
End Purge (hrs): 1455
Total Purge Time (min): 46
Total Vol. Purged (gal/L): 14L

Notes:

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Lab	COC #	Collected
BTEX, MTBE, and VOHs	HCl	3-40ml glass vials	Katahdin	JAX-19-071201	X
TRPH	HCL	2-1L Amber glass			X
PAH	~~	2-1L Amber glass			X
Lead	HNO3	1-1L HDPE			X
EDB	HCl	2-40ml glass vials			X

LAB:

Chemistry Lab: Katahdin Analytical Services ph:207-874-2400 fax: 207-775-4029 (Andrea Colby)
340 County Road No. 5, Westbrook, ME 04092

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Joe A. Ferranti

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NASJAX Old Gas Station
PROJECT NUMBER: N3870
WELL ID.: NASJAX-19-MW10
DATE: 7/12/01

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
1409	5.51	400	—	—	—	—	—	—	
1410	5.74	400	5.73	0.179	47.2	6.69	26.7	30	
1420	5.72	400	5.87	0.189	0.6	2.11	26.3	-37	4 L
1430	5.72	400	5.85	0.188	4.4	3.75	26.5	-36	9 L
1440	5.72	400	5.86	0.185	1.8	2.73	26.5	-38	12 L
1450	5.73	400	6.03	0.190	Ø	2.91	26.6	-42	16 L
1455	5.72	400	5.94	0.188	2.6	2.87	26.5	-46	18 L
1600	Sample	—							

SIGNATURE(S):

Page___ of ___

Tetra Tech NUS, Inc. **GROUNDWATER SAMPLE LOG SHEET**

Project Site Name: NAS JAX, Old Gas Station
Project No.: N3870, C70145

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

Sample ID No.: JAX-19-MW11-01
Sample Location: MW11
Sampled By: AP/JF
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 7/12/01 Time: 1505	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	Salinity %	Other
Method: Low Flow Peristaltic	clear	6.38	0.606	27.4	0	0.52	–	

PURGE DATA

Date: 7/12/01	Time	pH	S.C.	Temp (°C)	Turbidity	DO	Salinity	ORP
Method: Low Flow Peristaltic								
Monitor Reading (ppm): 0.0								
Well Casing Diameter: 2"								
Well Casing Material: PVC								
Total Well Depth (TD): 18.0								
Static Water Level (WL): 4.31								
One Casing Volume(gal/L): .86								
Start Purge (hrs): 1430								
End Purge (hrs): 1500								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 3.0								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected

OBSERVATIONS / NOTES

.17 × 5 = .85

.85 × 3 = 2.55

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Alan Pate

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: OLD GAS STATION
PROJECT NUMBER: N3870
WELL ID.: JAX-19-MW11
DATE: 7/12/01

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
1430	4.31	–	–	–	–	–	–	–	
1435	4.64	–	6.25	0.593	19.4	2.33	27.0	-126	
1445	4.65	–	6.39	0.609	0	0.92	26.9	-132	
1455	4.65	–	6.38	0.606	0	0.57	27.4	-134	
1500	4.65	–	6.38	0.606	0	0.52	27.4	-137	

SIGNATURE(S): Alan Pate

APPENDIX I

GROUNDWATER LABORATORY ANALYTICAL RESULTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**Mr. Greg Roof**	**DATE:**	**April 30, 2001**
FROM:	**Elena Rodriguez**	**COPIES:**	**DV FILE**

SUBJECT: **CURSORY DATA REVIEW**
CTO 0145, NASJAX
SDG UST14-1

SAMPLES: 7/ Aqueous

JAX-19-MW7-01	TRIP BLANK (03/20/01)
JAX-19-MW8-01	JAX-19-MW5-01
JAX-19-MW9-01	JAX-19-MW4-01
JAX-19-MW1-01	JAX-19-DUP1-01
JAX-19-MW2-01	JAX19-MW6-01
JAX19-MW3-01	TRIP BLANK (03/21/01)

SUMMARY

The sample set for CTO 0145, NAS Jacksonville, SDG UST14-1 consists of 9 aqueous environmental samples and three aqueous quality control samples (one field duplicate pair: JAX-19-MW5-01 and JAX-19-DUP1-01 and two trip blanks). All groundwater samples were analyzed for the select VOCs, EDB, PAHs, TPH, and Lead. The trip blanks were analyzed for select VOCs.

The samples were collected by TetraTech NUS on March 20-21, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 methods 8260B, 8270C-SIM, and 6010B, EPA 504.1, and Florida DEP Petroleum Organics (FL PRO). A cursory review of the data contained in this SDG was performed to rule out false positive or false negative results. No significant data quality issues were noted at this time.

COMMENTS

The reported practical quantitiation limit (PQL) for the groundwater samples for EDB (1,2-dibromoethane) is 0.05 µg/L which is higher than the FDEP GCTL primary standard of 0.02 µg/L. Katahdin has a method detection limit (MDL) of 0.014 µg/L. Any confirmed detections between the PQL and the MDL would have been reported as a "J" value, however no EDB was detected in any of the samples.

Elena Rodriguez

Tetra Tech NUS

Elena Rodriguez

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-DUP1-01			JAX-19-MW1-01			JAX-19-MW2-01			JAX-19-MW3-01		
SAMPLE DATE:	03/21/01			03/20/01			03/20/01			03/20/01		
LABORATORY ID:	WR0804-3			WR0791-4			WR0791-5			WR0791-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	JAX-19-MW5-01											
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U		0.05	U		0.05	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
ACROLEIN	5	U		5	U		5	U		5	U	
ACRYLONITRILE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE	1	U		1	U		1	U		1	U	
CHLOROETHANE	2	U		2	U		2	U		2	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	1	U		13			0.6	J	P	1	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	5	U		60			3	J	P	5	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	2	U		2	U		2	U		2	U	

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-MW4-01			JAX-19-MW5-01			JAX-19-MW6-01			JAX-19-MW7-01		
SAMPLE DATE:	03/21/01			03/21/01			03/21/01			03/20/01		
LABORATORY ID:	WR0804-2			WR0804-1			WR0804-4			WR0791-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U		0.05	U		0.05	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
ACROLEIN	5	U		5	U		5	U		5	U	
ACRYLONITRILE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE	1	U		1	U		1	U		1	U	
CHLOROETHANE	2	U		2	U		2	U		2	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	2	U		2	U		2	U		2	U	

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-MW8-01			JAX-19-MW9-01			TRIP BLANK-032001			TRIP BLANK-032101		
SAMPLE DATE:	03/20/01			03/20/01			03/20/01			03/21/01		
LABORATORY ID:	WR0791-2			WR0791-3			WR0791-7			WR0804-5		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U							
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
ACROLEIN	5	U		5	U		5	U		5	U	
ACRYLONITRILE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE	1	U		1	U		1	U		1	U	
CHLOROETHANE	2	U		2	U		2	U		2	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	2	U		2	U		2	U		2	U	

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-DUP1-01			JAX-19-MW1-01			JAX-19-MW2-01			JAX-19-MW3-01		
SAMPLE DATE:	03/21/01			03/20/01			03/20/01			03/20/01		
LABORATORY ID:	WR0804-3			WR0791-4			WR0791-5			WR0791-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	JAX-19-MW5-01											
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.2	U		0.7			0.2	U		17		
2-METHYLNAPHTHALENE	0.2	U		0.3			0.2	J	P	26		
ACENAPHTHENE	0.2	U		0.2	U		0.2	U		2	U	
ACENAPHTHYLENE	0.2	U		0.2	U		0.2	U		2	U	
ANTHRACENE	0.2	U		0.2	U		0.2	U		2	U	
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.2	U		2	U	
BENZO(A)PYRENE	0.2	U		0.2	U		0.2	U		2	U	
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.2	U		2	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.2	U		2	U	
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.2	U		2	U	
CHRYSENE	0.2	U		0.2	U		0.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.2	U		2	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		2	U	
FLUORENE	0.2	U		0.2	U		0.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.2	U		2	U	
NAPHTHALENE	0.2	U		2			0.4			73		
PHENANTHRENE	0.2	U		0.2	U		0.2	U		2	U	
PYRENE	0.2	U		0.2	U		0.2	U		2	U	

SAMPLE NUMBER:	JAX-19-MW4-01			JAX-19-MW5-01			JAX-19-MW6-01			JAX-19-MW7-01		
SAMPLE DATE:	03/21/01			03/21/01			03/21/01			03/20/01		
LABORATORY ID:	WR0804-2			WR0804-1			WR0804-4			WR0791-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.2	U		0.2	U		0.2	U		0.2	U	
2-METHYLNAPHTHALENE	0.2	U		0.2	U		0.2	U		0.2	U	
ACENAPHTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
ACENAPHTHYLENE	0.2	U		0.2	U		0.2	U		0.2	U	
ANTHRACENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(A)PYRENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
CHRYSENE	0.2	U		0.2	U		0.2	U		0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORENE	0.2	U		0.2	U		0.2	U		0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.2	U		0.2	U	
NAPHTHALENE	0.2	U		0.2	U		0.2	U		0.2	U	
PHENANTHRENE	0.2	U		0.2	U		0.2	U		0.2	U	
PYRENE	0.1	J	P	0.2	U		0.2	U		0.2	U	

SAMPLE NUMBER:	JAX-19-MW8-01			JAX-19-MW9-01								
SAMPLE DATE:	03/20/01			03/20/01			/ /			/ /		
LABORATORY ID:	WR0791-2			WR0791-3								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.2	U										
2-METHYLNAPHTHALENE	0.2	U		0.2	U							
ACENAPHTHENE	0.2	U		0.2	U							
ACENAPHTHYLENE	0.2	U		0.2	U							
ANTHRACENE	0.2	U		0.2	U							
BENZO(A)ANTHRACENE	0.2	U		0.2	U							
BENZO(A)PYRENE	0.2	U		0.2	U							
BENZO(B)FLUORANTHENE	0.06	J	P	0.2	U							
BENZO(G,H,I)PERYLENE	0.06	J	P	0.2	U							
BENZO(K)FLUORANTHENE	0.2	U		0.2	U							
CHRYSENE	0.2	U		0.2	U							
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U							
FLUORANTHENE	0.2	U		0.2	U							
FLUORENE	0.2	U		0.2	U							
INDENO(1,2,3-CD)PYRENE	0.07	J	P	0.2	U							
NAPHTHALENE	0.2	U		0.2	U							
PHENANTHRENE	0.2	U		0.2	U							
PYRENE	0.2	U		0.2	U							

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-DUP1-01			JAX-19-MW1-01			JAX-19-MW2-01			JAX-19-MW3-01		
SAMPLE DATE:	03/21/01			03/20/01			03/20/01			03/20/01		
LABORATORY ID:	WR0804-3			WR0791-4			WR0791-5			WR0791-6		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	JAX-19-MW5-01											
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	500	U		690			500	U		2100		

SAMPLE NUMBER:	JAX-19-MW4-01			JAX-19-MW5-01			JAX-19-MW6-01			JAX-19-MW7-01		
SAMPLE DATE:	03/21/01			03/21/01			03/21/01			03/20/01		
LABORATORY ID:	WR0804-2			WR0804-1			WR0804-4			WR0791-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	500	U		500	U		500	U		500	U	

SAMPLE NUMBER:	JAX-19-MW8-01	JAX-19-MW9-01	
SAMPLE DATE:	03/20/01	03/20/01	/ /
LABORATORY ID:	WR0791-2	WR0791-3	
QC_TYPE:	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	
FIELD DUPLICATE OF:			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	500	U		1700								

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-DUP1-01			JAX-19-MW1-01			JAX-19-MW2-01			JAX-19-MW3-01		
SAMPLE DATE:	03/21/01			03/20/01			03/20/01			03/20/01		
LABORATORY ID:	WR0804-003			WR0791-004			WR0791-005			WR0791-006		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	JAX-19-MW5-01											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	1.5	U		2.5			1.9			4.0		

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: UST14-1

SAMPLE NUMBER:	JAX-19-MW4-01			JAX-19-MW5-01			JAX-19-MW6-01			JAX-19-MW7-01		
SAMPLE DATE:	03/21/01			03/21/01			03/21/01			03/20/01		
LABORATORY ID:	WR0804-002			WR0804-001			WR0804-004			WR0791-001		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
INORGANICS												
LEAD	1.5	U		1.5	U		1.7			1.5	U	

SAMPLE NUMBER:	JAX-19-MW8-01			JAX-19-MW9-01								
SAMPLE DATE:	03/20/01			03/20/01			/ /			/ /		
LABORATORY ID:	WR0791-002			WR0791-003								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
INORGANICS												
LEAD	1.5	U		1.5								

FIELD DUPLICATE SAMPLES

CTO 145, UST14 NASJAX

	SOILS:	NASJAX-UST14-SB14-04		NASJAX-UST14-SB-DUP1		
Fraction	Analyte	3/7/2001		3/7/2001		RPD
Volatiles	Benzene	4		5		22%
	Ethylbenzene	880		16000		179%
	MTBE	4		2		67%
	Toluene	8		120		175%
	Total Xylenes	1600		41000		185%
PAHs	1-Methylnaphthalene	1100		1000		10%
	2-Methylnaphthalene	2100		26000		170%
	Acenaphthene	53		260		132%
	Acenaphthylene	35		ND		NC
	Anthracec	ND		40		NC
	Benzo(a)anthracene	30		38		24%
	Benzo(a)pyrene	30		20	J	40%
	Benzo(b)fluoranthene	26		21	J	21%
	Benzo(g,h,i)perylene	16	J	ND		NC
	Benzo(k)fluoranthene	18	J	14	J	25%
	Chrysene	29		32		10%
	Fluoranthene	51		100		65%
	Fluorene	28		120		124%
	Indeno(1,2,3-cd)pyrene	16	J	ND		NC
	Naphthalene	1600		27000		178%
	Phenanthrene	32		140		126%
	Pyrene	55		82		39%
TPH		5800		4200		32%

	GROUNDWATERS:	JAX-19-MW5-01	JAX-19-DUP1-01	
Fraction	Analyte	3/21/2001	3/21/2001	RPD
All analyses		ND	ND	NC

ND = not detected
NC = not calculated
J = estimated
RPD = Relative Percent Difference
Acceptable R 0-30% aqueous 0-50% soil/sediment

UST14-1

HOLDING TIME

04/26/01

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	JAX-19-DUP1-01	WR0804-3	NORMAL	UST14-1	EDB	03/21/01	03/28/01	03/29/01	7	1	8
UG/L	JAX-19-MW1-01	WR0791-4	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/28/01	8	0	8
UG/L	JAX-19-MW2-01	WR0791-5	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/28/01	8	0	8
UG/L	JAX-19-MW3-01	WR0791-6	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/29/01	8	1	9
UG/L	JAX-19-MW4-01	WR0804-2	NORMAL	UST14-1	EDB	03/21/01	03/28/01	03/29/01	7	1	8
UG/L	JAX-19-MW5-01	WR0804-1	NORMAL	UST14-1	EDB	03/21/01	03/28/01	03/29/01	7	1	8
UG/L	JAX-19-MW6-01	WR0804-4	NORMAL	UST14-1	EDB	03/21/01	03/28/01	03/29/01	7	1	8
UG/L	JAX-19-MW7-01	WR0791-1	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/28/01	8	0	8
UG/L	JAX-19-MW8-01	WR0791-2	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/28/01	8	0	8
UG/L	JAX-19-MW9-01	WR0791-3	NORMAL	UST14-1	EDB	03/20/01	03/28/01	03/28/01	8	0	8
UG/L	JAX-19-DUP1-01	WR0804-003	NORMAL	UST14-1	M	03/21/01	03/28/01	03/30/01	7	2	9
UG/L	JAX-19-MW1-01	WR0791-004	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-MW2-01	WR0791-005	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-MW3-01	WR0791-006	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-MW4-01	WR0804-002	NORMAL	UST14-1	M	03/21/01	03/28/01	03/30/01	7	2	9
UG/L	JAX-19-MW5-01	WR0804-001	NORMAL	UST14-1	M	03/21/01	03/28/01	03/30/01	7	2	9
UG/L	JAX-19-MW6-01	WR0804-004	NORMAL	UST14-1	M	03/21/01	03/28/01	03/30/01	7	2	9
UG/L	JAX-19-MW7-01	WR0791-001	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-MW8-01	WR0791-002	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-MW9-01	WR0791-003	NORMAL	UST14-1	M	03/20/01	03/23/01	03/27/01	3	4	7
UG/L	JAX-19-DUP1-01	WR0804-3	NORMAL	UST14-1	OV	03/21/01	03/26/01	03/26/01	5	0	5
UG/L	JAX-19-MW1-01	WR0791-4	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	JAX-19-MW2-01	WR0791-5	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	JAX-19-MW3-01	WR0791-6	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	JAX-19-MW4-01	WR0804-2	NORMAL	UST14-1	OV	03/21/01	03/26/01	03/26/01	5	0	5
UG/L	JAX-19-MW5-01	WR0804-1	NORMAL	UST14-1	OV	03/21/01	03/26/01	03/26/01	5	0	5
UG/L	JAX-19-MW6-01	WR0804-4	NORMAL	UST14-1	OV	03/21/01	03/26/01	03/26/01	5	0	5
UG/L	JAX-19-MW7-01	WR0791-1	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	JAX-19-MW8-01	WR0791-2	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	JAX-19-MW9-01	WR0791-3	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	TRIP BLANK-032001	WR0791-7	NORMAL	UST14-1	OV	03/20/01	03/24/01	03/24/01	4	0	4
UG/L	TRIP BLANK-032101	WR0804-5	NORMAL	UST14-1	OV	03/21/01	03/26/01	03/26/01	5	0	5
UG/L	JAX-19-DUP1-01	WR0804-3	NORMAL	UST14-1	PAH	03/21/01	03/28/01	04/09/01	7	12	19
UG/L	JAX-19-MW1-01	WR0791-4	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/11/01	6	16	22
UG/L	JAX-19-MW2-01	WR0791-5	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/11/01	6	16	22
UG/L	JAX-19-MW3-01	WR0791-6	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/11/01	6	16	22
UG/L	JAX-19-MW3-01DL1	WR0791-6DL	NORMAL	UST14-1	PAH	03/20/01	/ /	04/19/01	0	0	30
UG/L	JAX-19-MW4-01	WR0804-2	NORMAL	UST14-1	PAH	03/21/01	03/28/01	04/09/01	7	12	19
UG/L	JAX-19-MW5-01	WR0804-1	NORMAL	UST14-1	PAH	03/21/01	03/28/01	04/09/01	7	12	19
UG/L	JAX-19-MW6-01	WR0804-4	NORMAL	UST14-1	PAH	03/21/01	03/28/01	04/09/01	7	12	19
UG/L	JAX-19-MW7-01	WR0791-1	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/02/01	6	7	13
UG/L	JAX-19-MW7-01RE	WR0791-1RE	NORMAL	UST14-1	PAH	03/20/01	04/10/01	04/13/01	21	3	24
UG/L	JAX-19-MW8-01	WR0791-2	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/02/01	6	7	13
UG/L	JAX-19-MW8-01RE	WR0791-2RE	NORMAL	UST14-1	PAH	03/20/01	04/10/01	04/13/01	21	3	24
UG/L	JAX-19-MW9-01	WR0791-3	NORMAL	UST14-1	PAH	03/20/01	03/26/01	04/02/01	6	7	13
UG/L	JAX-19-DUP1-01	WR0804-3	NORMAL	UST14-1	TPH	03/21/01	03/26/01	03/29/01	5	3	8
UG/L	JAX-19-MW1-01	WR0791-4	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/29/01	6	3	9
UG/L	JAX-19-MW2-01	WR0791-5	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/29/01	6	3	9
UG/L	JAX-19-MW3-01	WR0791-6	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/29/01	6	3	9
UG/L	JAX-19-MW4-01	WR0804-2	NORMAL	UST14-1	TPH	03/21/01	03/26/01	03/29/01	5	3	8
UG/L	JAX-19-MW5-01	WR0804-1	NORMAL	UST14-1	TPH	03/21/01	03/26/01	03/29/01	5	3	8

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	JAX-19-MW6-01	WR0804-4	NORMAL	UST14-1	TPH	03/21/01	03/26/01	03/29/01	5	3	8
UG/L	JAX-19-MW7-01	WR0791-1	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/28/01	6	2	8
UG/L	JAX-19-MW8-01	WR0791-2	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/29/01	6	3	9
UG/L	JAX-19-MW9-01	WR0791-3	NORMAL	UST14-1	TPH	03/20/01	03/26/01	03/29/01	6	3	9

TETRA TECH NUS, INC.
NAS JACKSONVILLE
SDG: UST14-1
WR0791, WR0804
FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

April 24, 2001

Katahdin
ANALYTICAL SERVICES

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS JACKSONVILLE
TASK ORDER MANAGER: GREGORY ROOF

Sample Receipt

The following samples were received on March 21 and 22, 2001 and were logged in under Katahdin Analytical Services work order numbers WR0791 and WR0804 for a hardcopy due date of April 19, 2001.

KATAHDIN Sample No.	TTNUS Sample Identification
WR0791-1	JAX-19-MW7-01
WR0791-2	JAX-19-MW8-01
WR0791-3	JAX-19-MW9-01
WR0791-4	JAX-19-MW1-01
WR0791-5	JAX-19-MW2-01
WR0791-6	JAX-19-MW3-01
WR0791-7	TRIP BLANK
WR0804-1	JAX-19-MW5-01
WR0804-2	JAX-19-MW4-01
WR0804-3	JAX-19-DUP1-01
WR0804-4	JAX-19-MW6-01
WR0804-5	TRIP BLANK

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organic Analysis

Twelve aqueous samples were received by the Katahdin GC/MS laboratory on March 21 and 22, 2001, and were specified to be analyzed and quantitated for the priority pollutant list of volatile organics in accordance with SW-846 method 8260B.

Analyses for this SDG were performed on the 5972-F and 5972-M instruments.

000002

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. A matrix spike/matrix spike duplicate pair was analyzed on sample WR0804-4.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curves analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 13.4% and 14.2%, the curves were acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

Semivolatile Organics Analysis

Ten aqueous samples were received by the Katahdin Analytical Services GC/MS laboratory on March 21and 22, 2001 for extraction and analysis for the PAH list of analytes in accordance with USEPA method 8270C, modified to use selected ion monitoring to achieve lower detection levels.

The samples were extracted following method 3520 on March 26 and 28, 2001, and by method 3510 on April 10, 2001. A laboratory control spike or laboratory control spike/laboratory control spike duplicate pair was extracted in each batch. A matrix spike/matrix spike duplicate pair was extracted on sample WR0804-4 in the 03/28/01 batch.

Analysis of the LCS extracted on 03/26/01 yielded no PAH or surrogate recoveries due to extraction lab error. Samples WR0804—1 and -2 also yielded no surrogate recoveries. The samples and associated QC were reextracted on April 10, 2001, outside of holding times.

Analysis of sample WR0791-6 was performed at a 1:10 dilution due to the matrix, with PAH concentrations still over the upper limit of the calibration curve, as well as internal standard area recovery deviations. Reanalysis occurred at a 1:50 dilution successfully. Both sets of data are included in this data package.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

000003

The semivolatiles organic staff noted no other protocol deviations.

Metals Analysis

The samples of SDG UST14-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

The aqueous-matrix samples of SDG UST14-1 were digested for ICP lead analysis on 03/23/01 (QC Batch RC23ICW0) and 03/28/01 (QC Batch RC28ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WR0804-4 was prepared with duplicate matrix-spiked aliquots. Two laboratory control samples, identified as LCSWRC23ICW0 and LC2WRC23ICW0, were prepared in QC Batch RC23ICW0 at the request of another client whose samples were prepared concurrently.

ICP lead analyses of SDG UST14-1 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash Trace ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

GC Analysis

Samples WR0791-1 through -6 were received on March 21, 2001and samples WR0804-1 through -4 were received on March 22, 2001. These samples were analyzed for petroleum range organics (PRO) according to Method # FL-PRO and for Ethylene dibromide (EDB) according to EPA method 504.1. Sample WR0804-4 was selected for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. All samples and QC were extracted and analyzed within hold times, and all QC criteria were met with the following comments:

PRO Analysis

The recoveries of the surrogate o-Terphenyl were low and outside of the method acceptance limits for all the samples except LCF10149 and WR0791-5. If laboratory established acceptance limits for Total Petroleum Hydrocarbons were applied to these samples, all of the sample surrogate recoveries would be acceptable.

The laboratory control sample LCF1049 was inadvertently not spiked with the PRO components. Instead, it appears that the sample was spiked with surrogate twice, which accounts for the high surrogate recoveries and no PRO spike recoveries. Consequently, there is no LCS form

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

http://katahdinlab.com

210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

submitted. Since there was an MS and MSD performed in the batch, and the PRO recoveries were acceptable, the sample data quality should not be affected.

There were no other protocol deviations or observations noted by the GC laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and/or his designee, as verified by the following signature.

Maria Crouch
Authorized Signature
04/24/01

0000005

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR0791

PAGE: 1 OF 2

COOLER: 1 OF 2

CLIENT: Tetra Tech

COC# –

SDG# 05714-1 Begin

DATE / TIME RECEIVED: 03-21-01 1445

PROJECT: Jacksonville - Old Gas Station

DELIVERED BY: FedEx

RECEIVED BY: SAW

LIMS ENTRY BY: SAW

LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐ SAW	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☐	☑	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS / RESOLUTION

TEMP BLANK TEMP (°C)= 2.6

COOLER TEMP (°C)= ~~2.2~~ SAW NA
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1): both TRPH bottles for JAX-19-MW9-01, pH > 2 -- HCl added, pH < 2

Run 1 set of VOA Trip Blanks per Alan Pate 3/20/01.

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR0791

PAGE: 2 OF 2

COOLER: 2 OF 2

CLIENT: Tetra Tech

COC#: -
SDG#: UST14-18 again
DATE / TIME RECEIVED: 03-21-01 1445
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: AJC

PROJECT:

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2?	☑	☐	☐
(ICE) ICE PACKS PRESENT (Y) or N?			
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS / RESOLUTION

TEMP BLANK TEMP (°C)= 4.1

COOLER TEMP (°C)= NA
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

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

LAB (WORK ORDER) #: WRO804, WRO83?

PAGE: 1 OF 3

COOLER: 1 OF 3

CLIENT: Tetra Tech

PROJECT:

COC#:
SDG#:
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SC
LIMS ENTRY BY: SC
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	~~☑~~ SMW	~~☐~~ SMW	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= ~~2.1 SMW~~ 1.2	AC notified client by fax 3/23/01
COOLER TEMP (°C)= ~~2.1 SMW~~ NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR0804

PAGE: 2 OF 3

COOLER: 2 OF 3

CLIENT: Tetra Tech

COC#:
SDG#:
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: AMC

PROJECT:

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☐	☐	☑
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 1.7	AMC notified client by fax 3/23/01
COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR0804

PAGE: 3 OF 3

COOLER: 3 OF 3

CLIENT: Tetra Tech

COC#:
SDG#:
DATE / TIME RECEIVED: 03-22-01 0920
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: AJC

PROJECT:

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS | RESOLUTION

TEMP BLANK TEMP (°C)= 2.5

COOLER TEMP (°C)= ~~2.7~~ NA

(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

70

200

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Address 7018 A C SKINNER PKWY STE 250

Dept./Floor/Suite/Room

City JACKSONVILLE State FL ZIP 32256

2 Your Internal Billing Reference A3870 HE005015D

3 To

Recipient's Name SAMPLE MANAGEMENT Phone 207 874-2400

Company KATAHDIN LABS

Address 340 COUNTY ROAD #5

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04092

Dept./Floor/Suite/Room

City WESTBROOK State ME ZIP 04092

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- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available only for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Charges
1	50	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at www.fedex.com or call 1-800-Go-FedEx® (800)463-3339.

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402

C0001

C0001

691

200

FedEx Express USA Airbill

FedEx Tracking Number 8244 2558 5154

0215

Recipients Copy

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 3/20/01 FedEx Tracking Number 824425585154

Sender's Name ALAN PATE Phone 904 281-0400

Company TETRA TECH NUS INC

Address 7018 A C SKINNER PKWY STE 250 Dept./Floor/Suite/Room

City JACKSONVILLE State FL ZIP 32256

2 Your Internal Billing Reference N3870 1E0050150

3 To

Recipient's Name SAMPLE MANAGEMENT Phone 207 674-2400

Company KATAHDIN LABS

Address 340 County Road #5

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City WESTBROOK State ME ZIP 04098 ~~04098~~

8244 2558 5154

0163323266

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available only for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Obtain Recip. Acct. No.
- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Charges
1	50	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at www.fedex.com or call 1-800-Go-FedEx® (800)463-3339.

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402

From: DISTRIBUTION (904)281-0400
TETRA TECH NUS, INC
7018 AC SKINNER PARKWAY
SUITE 250
JACKSONVILLE, FL, 32256

SHIPPER'S FEDEX ACCOUNT #

FedEx.

To: Andrea Colby (207)874-2400
Katahdin
340 County Road #5

Westbrook, ME, 04092

SHIP DATE: 21MAR01
WEIGHT: 5 LBS

Ref: N3870.HE0050150

DELIVERY ADDRESS
TRK # 7924 0455 3997 FORM 0201

PRIORITY OVERNIGHT

PWM

THU
AA
Deliver by:
22MAR01

04092-ME-US XB PWMA

Shipping Label

Schedule Courier | Find a Dropoff Location | Shipping History

Shipment Complete | Cancel Shipment

1. Use the "Print" feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping label pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
4. To print a receipt of your shipment, please click on "Shipping History."

Ship a New Package

Ship Inside U.S. | Ship Outside U.S. | Ship to Same Recipient

From: DISTRIBUTION (904)281-0400
TETRA TECH NUS, INC
7018 AC SKINNER PARKWAY
SUITE 250
JACKSONVILLE, FL, 32256

SHIPPER'S FEDEX ACCOUNT #

FedEx.

To: Andrea Colby (207)874-2400
Katahdin
340 County Road #5

Westbrook, ME, 04092

SHIP DATE: 21MAR01
WEIGHT: 50 LBS

Ref: N3870.HE0050150

DELIVERY ADDRESS
TRK # 7915 0599 4545 FORM 0201

PRIORITY OVERNIGHT

THU
AA
Deliver by:
22MAR01

04092-ME-US

PWM
XB PWMA

Shipping Label

Schedule Courier | Find a Dropoff Location | Shipping History

Shipment Complete | Cancel Shipment

1. Use the "Print" feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping label pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
4. To print a receipt of your shipment, please click on "Shipping History."

Ship a New Package

Ship Inside U.S. | Ship Outside U.S. | Ship to Same Recipient

From: DISTRIBUTION (904)281-0400
TETRA TECH NUS, INC
7018 AC SKINNER PARKWAY
SUITE 250
JACKSONVILLE, FL, 32256

SHIPPER'S FEDEX ACCOUNT #

FedEx.

To: Andrea Colby (207)874-2400
Katahdin
340 County Road #5

Westbrook, ME, 04092

SHIP DATE: 21MAR01
WEIGHT: 50 LBS

Ref: N3870.HE0050150

DELIVERY ADDRESS
TRK # 7915 0599 5520 FORM 0201

PRIORITY OVERNIGHT

PWM

THU
AA
Deliver by:
22MAR01

04092-ME-US

XB PWMA

Shipping Label

Schedule Courier | Find a Dropoff Location | Shipping History

Shipment Complete | Cancel Shipment

1. Use the "Print" feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping label pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
4. To print a receipt of your shipment, please click on "Shipping History."

Ship a New Package

Ship Inside U.S. | Ship Outside U.S. | Ship to Same Recipient

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JAX19-032001-2

PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Greg Roof, Alan Pafe	FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pafe 904-281-0400
	ADDRESS: 340 County Rd. No. 5 (207) 874-2400
	CARRIER/WAYBILL NUMBER: Fedex 7915 0496 3491
	CITY, STATE: Westbrook, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BTEX, MTBE, VOCs SW-846 8021B	PAH SW-846 8310	Lead SW-846 239.2	EDB 504.1	TRPH - FL-PRO				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	G	G				
PRESERVATIVE USED						HCl	-	H_2SO_4	HCl	HCl				
3/20	1222	JAX-19-MW7-01	GW	G	10	3	2	1	2	2				Cool @ 4°C
3/20	1335	JAX-19-MW8-01	GW	G	10	3	2	1	2	2				
3/20	1432	JAX-19-MW9-01	GW	G	10	3	2	1	2	2				
3/20	-	Trip blank	-	-	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Greg Roof	3/20/01	1600	1. RECEIVED BY: Shelly Will	03-21-01	1445
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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FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JAX19-032001-1

PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-24-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Joe P. Feart, Allan Pale	FIELD OPERATIONS LEADER AND PHONE NUMBER: Allan Pale 904-261-0400
ADDRESS: 340 County Rd. No. 5	(207) 874-2400
CARRIER/WAYBILL NUMBER: Fedex 7900 0140 9653	CITY, STATE: Westbrook, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G				
						PRESERVATIVE USED	HCl	-	HNO_3	HCl	HCl				
						TYPE OF ANALYSIS	BTEX, MTBE, VOHs SW-846	PAH SW-846 8021B	Lead SW846 8310	EDB 239.2	TRPH 504.1 - FL-PRO				COMMENTS
3/20	0852	JAX-19-MW1-01	Gw	G	10		3	2	1	2	2				
3/20	1007	JAX-19-MW2-01	Gw	G	10		3	2	1	2	2				Cool to 4°C
3/20	1112	JAX-19-MW3-01	Gw	G	10		3	2	1	2	2				
3/20	-	Trip Blank	-	-	1		1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Joe P. Feart	3/20/01	1600	1. RECEIVED BY: Shelly Hill	03-21-01	1445
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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FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JAX 19-032101-2

PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	
FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400	
CARRIER/WAYBILL NUMBER: Fedex #7915 0559 5520	
SAMPLERS (SIGNATURE)	
LABORATORY NAME AND CONTACT: KAtahdin Andrea Colby	
ADDRESS: 340 County Rd. No. 5	
CITY, STATE: Westbrook, ME 04092	

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS								COMMENTS
						BTEX, MTBE, VOA's SW-846	PAH SW-846	Lead SW-846	EDB	504.1	TRPH	FL-PRO		
						CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G			
						PRESERVATIVE USED	HCl	-	HNO3	HCl	HCl			
3/21	0927	JAX-19-MW5-01	GW	G	10	3	2	1	2	2				Cool to 4°C
3/21	1037	JAX-19-MW4-01	GW	G	10	3	2	1	2	2				
3/21	0000	JAX-19-Dup1-01	GW	G	10	3	2	1	2	2				
3/21	-	Trip Blank	-	-	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/21/01	1600	1. RECEIVED BY	03-22-01	0920
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JAX/190321 01-1

PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: old gas station
SAMPLERS (SIGNATURE)	Joe A. Feat / Alan Pate
PROJECT MANAGER AND PHONE NUMBER	Greg Roof 904-281-0400
FIELD OPERATIONS LEADER AND PHONE NUMBER	Alan Pate 904-281-0400
CARRIER/WAYBILL NUMBER	Fedex # 7915 0599 4545
LABORATORY NAME AND CONTACT:	KAtahdin Andrea Colby
ADDRESS	340 County Rd. No. 5
CITY, STATE	Westbrook, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: BTEX, MTBE, VOAs SW-846 8021B	PAH SW-846 8310	Lead SW-846 239.2	EDB 504.1	TRPH FL-PIO				COMMENTS
						G	HCl									
3/21	0752	JAX-19-MW6-01	GW	G	10	3	2	1	2	2						Cool to 4°C
3/21	0752	JAX-19-MSMSD1-01	GW	G	10	3	2	1	2	2						
3/21	-	Trip Blank	-	-	1	1										

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Joe A. Feat	3/21/01	1600	1. RECEIVED BY: Shelley Will	03.22.01	0920
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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FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAX19-032001-2 | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station	PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Greg Roof / Alan Pate		FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400	ADDRESS: 340 Cumberland Rd. No. 5 (207) 874-2400
		CARRIER/WAYBILL NUMBER: Fedex 7915 0496 3491	CITY, STATE: Westbrook, ME 04092

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

DATE (YEAR 2001)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G				
						PRESERVATIVE USED	HCl	-	HNO3	HCl	HCl				
						TYPE OF ANALYSIS	BTEX, MTBE, VOHs SW-846 8021B	PAH SW-846 8310	Lead SW-846 239.2	EDB 504.1	TRPH - FL-PRO				COMMENTS
3/20	1222	JAX-19-MW7-01	GW	G	10		3	2	1	2	2				Cool to 4°C
3/20	1335	JAX-19-MW8-01	GW	G	10		3	2	1	2	2				
3/20	1432	JAX-19-MW9-01	GW	G	10		3	2	1	2	2				
3/20	-	Trip blank	-	-	1		1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Greg Roof	3/20/01	1600	1. RECEIVED BY: Shelly Will	03-21-01	1445
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)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAX19-032001-1 | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station
PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-24-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE): Joe P. Faust, Allan Pate	FIELD OPERATIONS LEADER AND PHONE NUMBER: Allan Pate 904-261-0400
ADDRESS: 340 County Rd. No. 5	(207) 874-2400
CARRIER/WAYBILL NUMBER: Fedex 7900 0140 9653	CITY, STATE: Westbrook, ME 04092

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

DATE (YEAR 2001)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G				
						PRESERVATIVE USED	HCl	-	H_2SO_4	HCl	HCl				
						TYPE OF ANALYSIS	BTEX, MTBE, VOA's SW-846 8021B	PAH SW-846 8310	Lead SW846 239.2	EDB 504.1	TRPH - FL-PRO				COMMENTS
3/20	0852	JAX-19-MW1-01	GW	G	10		3	2	1	2	2				Cool to 4°C
3/20	1007	JAX-19-MW2-01	GW	G	10		3	2	1	2	2				
3/20	1112	JAX-19-MW3-01	GW	G	10		3	2	1	2	2				
3/20	-	Trip Blank	-	-	1		1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Joe P. Faust	3/20/01	1600	1. RECEIVED BY: Shelby Wall	03-21-01	1445
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)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAX 19-032101-2 | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: Old Gas Station	PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: KAtahdin Andrea Colby
SAMPLERS (SIGNATURE): Joe R. Tant, Alan Pate		FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400	ADDRESS: 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER: Fedex #7915 0559 5520	CITY, STATE: Westbrook, ME 04092

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

DATE (YEAR 2001)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G				
						PRESERVATIVE USED	HCl	-	Acids	NaOH	HCl				
						TYPE OF ANALYSIS	BTEX, MTBE, VOHs SW-846	PAH SW-846	Lead SW-846	EDB	TRPH				COMMENTS
							8260B	8310	239.2	504.1	FL-PRO				
3/21	0927	JAX-19-MW5-01	GW	G	10	3	2	1	2	2					Cool to 4°C
3/21	1037	JAX-19-MW4-01	GW	G	10	3	2	1	2	2					
3/21	0000	JAX-19-Dupl-01	GW	G	10	3	2	1	2	2					
3/21	-	Trip Blank	-	-	1	1									

1. RELINQUISHED BY: Joe R. Tant	DATE: 3/21/01	TIME: 1600	1. RECEIVED BY: Shelby Hill	DATE: 03-22-01	TIME: 0920
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)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAX/190321 01-1 | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: old gas station	PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: KAtahdin Andrew Colby
SAMPLERS (SIGNATURE): Greg P. Roof / Alan Pate		FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate 904-281-0400	ADDRESS: 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER: Fedex # 7915 0599 4545	CITY, STATE: Westbrook, ME 04092

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

DATE (YEAR 2001)	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: BTEX, MTBE, VOHs SW-846 8021B	PAH SW-846 8310	Lead SW-846 239.2	EDB 504.1	TRPH 418.1				COMMENTS
						G	G	P	G	G						
						HCl	-	HNO_3	HCl	HCl						
3/21	0752	JAX-19-MW6-01	GW	G	10	3	2	1	2	2						Cool to 4°C
3/21	0752	JAX-19-MSMSD1-01	GW	G	10	3	2	1	2	2						
3/21	-	Trip Blank	-	-	1	1										

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Greg P. Roof	3/21/01	1600	1. RECEIVED BY: Shelley Will	03-22-01	0920
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)

3/99
FORM NO. TtNUS-001

Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: Mr. Greg Roof

DATE: September 25, 2001

FROM: Elena Rodriguez

COPIES: DV FILE

SUBJECT: **CURSORY DATA REVIEW**
CTO 0145, NASJAX
SDG WR2437

SAMPLES: 3/Aqueous

JAX-19-MW10-01
JAX-19-MW11-01
TRIP BLANK (071201)

SUMMARY

The sample set for CTO 0145, NAS Jacksonville, SDG WR2437 consists of 2 aqueous environmental samples and one aqueous quality control sample (trip blank). The environmental samples were analyzed for VOCs, EDB, PAHs, TRPH, and Lead. The trip blank was analyzed for VOCs only.

The samples were collected by TetraTech NUS on July 12, 2001 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 8260B, 8270-SIM, 504.1, 6010B, and FL PRO methodology. A cursory review of the data contained in this SDG was performed to rule out false positive or false negative results. No significant data quality issues were noted at this time.

Elena Rodriguez

Tetra Tech NUS

Elena Rodriguez

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR2437

DUPLICATE ENTRY

DUPLICATE ENTRY

SAMPLE NUMBER:	JAX-19-MW10-01			JAX-19-MW10-01			JAX-19-MW11-01			JAX-19-MW11-01		
SAMPLE DATE:	07/12/01			07/12/01			07/12/01			07/12/01		
LABORATORY ID:	WR2437-1			WR2437-1			WR2437-2			WR2437-2		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	0.02	U		0.02	U		0.02	U		0.02	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
ACROLEIN	5	U		5	U		5	U		5	U	
ACRYLONITRILE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE	1	U		1	U		1	U		1	U	
CHLOROETHANE	2	U		2	U		2	U		2	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR2437

SAMPLE NUMBER:	JAX-19-MW10-01			JAX-19-MW11-01								
SAMPLE DATE:	07/12/01			07/12/01			/ /			/ /		
LABORATORY ID:	WR2437-1			WR2437-2								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	160	J	MP	270	J	MP						

Joe/Amy:
TPH by FL PRO holding times is 14 day to extraction
40 to analysis (I just looked it up in the method)
not the typical TPH method - 28 days.
See if your computer system can be updated for that method.

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR2437

SAMPLE NUMBER:	JAX-19-MW10-01			JAX-19-MW11-01								
SAMPLE DATE:	07/12/01			07/12/01			/ /			/ /		
LABORATORY ID:	WR2437-001			WR2437-002								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
INORGANICS												
LEAD	2.4	B		1.5	U							

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR2437

SAMPLE NUMBER:	TRIP BLANK (071201)			
SAMPLE DATE:	07/12/01	/ /	/ /	/ /
LABORATORY ID:	WR2437-3			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U										
1,1,2,2-TETRACHLOROETHANE	1	U										
1,1,2-TRICHLOROETHANE	1	U										
1,1-DICHLOROETHANE	1	U										
1,1-DICHLOROETHENE	1	U										
1,2-DICHLOROETHANE	1	U										
1,2-DICHLOROPROPANE	1	U										
1,3-DICHLOROPROPENE	2	U										
2-CHLOROETHYL VINYL ETHER	10	U										
ACROLEIN	5	U										
ACRYLONITRILE	50	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	1	U										
BROMOFORM	1	U										
BROMOMETHANE	2	U										
CARBON TETRACHLORIDE	1	U										
CHLOROBENZENE	1	U										
CHLORODIBROMOMETHANE	1	U										
CHLOROETHANE	2	U										
CHLOROFORM	1	U										
CHLOROMETHANE	2	U										
ETHYLBENZENE	1	U										
METHYL TERT-BUTYL ETHER	2	U										
METHYLENE CHLORIDE	1	U										
TETRACHLOROETHENE	1	U										
TOLUENE	1	U										
TOTAL XYLENES	5	U										
TRANS-1,2-DICHLOROETHENE	1	U										
TRICHLOROETHENE	1	U										
VINYL CHLORIDE	1	U										

CTO145-NAS JACKSONVILLE
WATER DATA
KAS
SDG: WR2437

SAMPLE NUMBER:	JAX-19-MW10-01			JAX-19-MW11-01								
SAMPLE DATE:	07/12/01			07/12/01			/ /			/ /		
LABORATORY ID:	WR2437-1			WR2437-2								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.2	U		0.2	U							
2-METHYLNAPHTHALENE	0.2	U		0.2	U							
ACENAPHTHENE	0.2	U		0.2	U							
ACENAPHTHYLENE	0.2	U		0.2	U							
ANTHRACENE	0.2	U		0.2	U							
BENZO(A)ANTHRACENE	0.2	U		0.2	U							
BENZO(A)PYRENE	0.2	U		0.2	U							
BENZO(B)FLUORANTHENE	0.2	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U							
BENZO(K)FLUORANTHENE	0.2	U		0.2	U							
CHRYSENE	0.2	U		0.2	U							
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U							
FLUORANTHENE	0.2	U		0.2	U							
FLUORENE	0.2	U		0.2	U							
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U							
NAPHTHALENE	0.2	U		0.2	U							
PHENANTHRENE	0.2	U		0.2	U							
PYRENE	0.2	U		0.2	U							

WR2437

HOLDING TIME

09/06/01

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	JAX-19-MW10-01	WR2437-1	NORMAL	WR2437	EDB	07/12/01	07/24/01	07/24/01	12	0	12
UG/L	JAX-19-MW11-01	WR2437-2	NORMAL	WR2437	EDB	07/12/01	07/24/01	07/24/01	12	0	12
UG/L	JAX-19-MW10-01	WR2437-001	NORMAL	WR2437	M	07/12/01	07/30/01	08/04/01	18	5	23
UG/L	JAX-19-MW11-01	WR2437-002	NORMAL	WR2437	M	07/12/01	07/30/01	08/04/01	18	5	23
UG/L	JAX-19-MW10-01	WR2437-1	NORMAL	WR2437	OV	07/12/01	07/14/01	07/14/01	2	0	2
UG/L	JAX-19-MW11-01	WR2437-2	NORMAL	WR2437	OV	07/12/01	07/16/01	07/16/01	4	0	4
UG/L	TRIP BLANK (071201)	WR2437-3	NORMAL	WR2437	OV	07/12/01	07/16/01	07/16/01	4	0	4
UG/L	JAX-19-MW10-01	WR2437-1	NORMAL	WR2437	PAH	07/12/01	07/17/01	08/14/01	5	28	33
UG/L	JAX-19-MW11-01	WR2437-2	NORMAL	WR2437	PAH	07/12/01	07/17/01	08/14/01	5	28	33
UG/L	JAX-19-MW10-01	WR2437-1	NORMAL	WR2437	TPH	07/12/01	07/18/01	08/17/01	6	30	36
UG/L	JAX-19-MW11-01	WR2437-2	NORMAL	WR2437	TPH	07/12/01	07/18/01	08/17/01	6	30	36

TETRA TECH NUS, INC.
NAS JACKSONVILLE
WR2437

FLORIDA CERTIFICATION # E87604

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

September 4, 2001

TABLE OF CONTENTS

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS JACKSONVILLE
WR2437

Sample Receipt

The following samples were received on July 13, 2001 and were logged in under Katahdin Analytical Services work order number WR2437 for a hardcopy due date of August 10, 2001.

KATAHDIN Sample No.	TTNUS Sample Identification
WR2437-1	JAX-19-MW10-01
WR2437-2	JAX-19-MW11-01
WR2437-3	TRIP BLANK

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Volatile Organics Analysis

Three aqueous samples were received by the Katahdin GC/MS laboratory on July 13, 2001. The samples were specified to be analyzed and quantitated for a client-requested list of analytes in accordance with SW-846 method 8260B.

Method 8260 analyses for this SDG were performed on the 5972-M and 5972-Z instruments.

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The method 8260 LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curves analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 12.3% and 9.3%, the curves were acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

Semivolatile Organics Analysis

Two aqueous samples were received by the Katahdin Analytical Services GC/MS laboratory on July 17, 2001 for extraction and analysis for the PAH list of analytes in accordance with USEPA method 8270B, modified to use selected ion monitoring (SIM) to achieve lower detection limits. The samples were also specified to be extracted and analyzed for the TCL list of analytes in accordance with USEPA method 8270.

The samples were extracted following method 3510 on July 19, 2001 for SIM-PAH and on July 20, 2001 for the TCL list. A laboratory control spike/laboratory control spike duplicate pair was extracted in each batch.

Analysis of sample WR2482-19 for the TCL list yielded a low 2-fluorophenol surrogate recovery.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8270C narrows this 20% maximum to 15%.

In the calibration curves analyzed for this workorder, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 8.5 % and 8.5%, the curves were acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

The semivolatiles organic staff noted no other protocol deviations.

GC Analysis

Samples WR2437-1 and -2 were received on July 13, 2001 and were analyzed for Ethylene dibromide (EDB) according to EPA method 504.1 and Petroleum Range Organics according to Method # FL-PRO. All samples and QC were extracted and analyzed within hold times and all QC criteria were acceptable with the following comments:

PRO Analysis

Samples BF1144, LCF1144 and WR2437-2 had recoveries for the surrogate o-Terphenyl, which were low and outside the method acceptance limits. The second surrogate was acceptable.

There were no other method deviations or observations noted by the GC laboratory staff.

Metals Analysis

The samples of Katahdin Work Order WR2437 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Aqueous-matrix Katahdin Sample Nos. WR2437-(1, 2) were digested for ICP analysis on 07/30/01 (QC Batch RG30ICW1) in accordance with USEPA Method 3010A.

ICP analyses of Katahdin Work Order WR2437 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash Trace ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and/or his designee, as verified by the following signature.

Hania Gronda
Authorized Signature
09/04/01

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

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

LAB (WORK ORDER) # WR2437

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: TETRA TECH

PROJECT: JACKSONVILLE

COC#
SDG#
DATE / TIME RECEIVED: 7-13-01 0845
DELIVERED BY: FED EX
RECEIVED BY: SAW
LIMS ENTRY BY: SAW
LIMS REVIEW BY / PM: ATC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS / RESOLUTION

TEMP BLANK TEMP (°C)= 2.3

COOLER TEMP (°C)= NA
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER JAX/9-07/201 | PAGE 1 OF 1

PROJECT NO: N3870 | SITE NAME: old Gas Station

PROJECT MANAGER AND PHONE NUMBER: Greg Roof (904) 281-0400

FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate (904) 281-0400

CARRIER/WAYBILL NUMBER:

LABORATORY NAME AND CONTACT: KAtahdin Andrea Colby (207) 874-2400

ADDRESS: 340 County Rd. No. 5

CITY, STATE: Westbrook, ME 04092

SAMPLERS (SIGNATURE)

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	G	G				
						PRESERVATIVE USED	HCl	-	HNO3	HCl	HCl				
						TYPE OF ANALYSIS	BTEX, MTBE, VOHs 8021B	PAHs 8310	Lead 6010B 239.2	EDB 504.1	TRPH FL-PRO				COMMENTS
7/12	1600	JAX-19-MW10-01	GW	G	10	3	2	1	2	2					Cool to 4°C
7/12	1605	JAX-19-MW11-01	GW	G	10	3	2	1	2	2					
7/12	—	Trip Blank (07/201)	-	-	1	1									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	7/12	1900	1. RECEIVED BY	7-13-01	0845
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)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JAX/9-07/201 | PAGE 1 OF 1

PROJECT NO: N3870	SITE NAME: old Gas Station	PROJECT MANAGER AND PHONE NUMBER: Greg Roof (904) 281-0400	LABORATORY NAME AND CONTACT: Katahdin Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: Alan Pate (904) 281-0400	ADDRESS: 340 County Rd. No. 5 (207) 874-2400
		CARRIER/WAYBILL NUMBER	CITY, STATE: Westbrook, ME 04092

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

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	TYPE OF ANALYSIS: BTEX, MTBE, VOHs 8021B	PAHs 8310	Lead 6010B 239.2	EDB 504.1	TRPH FL-PRO				COMMENTS
						PRESERVATIVE USED	HCl	-	HNO3	HCl	HCl				
7/12	1600	JAX-19-mw10-01	Gw	G	10	G	3	2	1	2	2				Cool to 4°C
7/12	1605	JAX-19-mw11-01	Gw	G	10	G	3	2	1	2	2				
7/12	—	Trip Blank (07/201)	-	-	1	P	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY:	7/12	1900	1. RECEIVED BY:	7-13-01	0845
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)

3/99
FORM NO. TtNUS-001

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-1
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW7-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	99	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-1
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW7-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	102	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-2
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW8-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	100	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-2
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW8-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	103	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-3
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW9-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	101	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-3
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW9-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	104	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-4
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW1-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	13	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	60	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-4
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW1-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	102	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-5
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW2-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	J0.6	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	J3	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	93	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-5
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW2-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	99	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-6
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW3-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	95	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		

Report Notes:

Sample Data Summary A0000012

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-6
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW3-01	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	99	%	1.0		

Report Notes:

Sample Data Summary A0000013

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-7
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	90	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		

Report Notes: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-7
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/24/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK	AQ	3/20/01	3/21/01	3/24/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	96	%	1.0		

Report Notes: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-1
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW5-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	104	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-1
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW5-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	116	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-2
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW4-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	111	%	1.0		
TOLUENE-D8	112	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes:

Sample Data Summary A0000018

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-2
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW4-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	121	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-3
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-DUP1-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	116	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-3
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-DUP1-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	126	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-4
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW6-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	109	%	1.0		
TOLUENE-D8	115	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-4
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW6-01	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	123	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-5
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2.0	ug/L	1.0	2.0	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	118	%	1.0		
TOLUENE-D8	112	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-5
SDG: UST14-1
Report Date: 4/2/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 3/26/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK	AQ	3/21/01	3/22/01	3/26/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	128	%	1.0		

Report Notes: B, J

Sample Data Summary A0000025

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-1
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW7-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	#2	%	1.0		
2-FLUOROBIPHENYL	#7	%	1.0		
TERPHENYL-D14	#6	%	1.0		

Report Notes: #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-1RE
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/13/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW7-01	AQ	3/20/01	3/21/01	4/10/2001	PMM	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	J0.1	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	47	%	1.0		
2-FLUOROBIPHENYL	46	%	1.0		
TERPHENYL-D14	71	%	1.0		

Report Notes: J, O-6

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-2
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW8-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.1	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.1	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.1	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.1	0.2	0.2
FLUORENE	<0.2	ug/L	1.1	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.1	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.1	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.1	0.2	0.2
PYRENE	<0.2	ug/L	1.1	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.1	0.2	0.2
CHRYSENE	<0.2	ug/L	1.1	0.2	0.2
BENZO[B]FLUORANTHENE	J0.06	ug/L	1.1	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.1	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.1	0.2	0.2
INDENO[1,2,3-CD]PYRENE	J0.07	ug/L	1.1	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.1	0.2	0.2
BENZO[G,H,I]PERYLENE	J0.06	ug/L	1.1	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.1	0.2	0.2
NITROBENZENE-D5	#5	%	1.1		
2-FLUOROBIPHENYL	#8	%	1.1		
TERPHENYL-D14	#4	%	1.1		

Report Notes: #, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-2RE
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/13/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW8-01	AQ	3/20/01	3/21/01	4/10/2001	PMM	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	60	%	1.0		
2-FLUOROBIPHENYL	63	%	1.0		
TERPHENYL-D14	96	%	1.0		

Report Notes: O-6

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-3
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW9-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	36	%	1.0		
2-FLUOROBIPHENYL	54	%	1.0		
TERPHENYL-D14	66	%	1.0		

Report Notes:

Sample Data Summary A0000030

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-4
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/11/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW1-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	0.3	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	0.7	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	88	%	1.0		
2-FLUOROBIPHENYL	62	%	1.0		
TERPHENYL-D14	72	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-5
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/11/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW2-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	0.4	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	J0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	72	%	1.0		
2-FLUOROBIPHENYL	44	%	1.0		
TERPHENYL-D14	78	%	1.0		

Report Notes: J

Sample Data Summary: A0000032

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-6
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/11/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW3-01	AQ	3/20/01	3/21/01	3/26/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	E84	ug/L	9.5	2	0.2
2-METHYLNAPHTHALENE	E34	ug/L	9.5	2	0.2
ACENAPHTHYLENE	<2	ug/L	9.5	2	0.2
ACENAPHTHENE	<2	ug/L	9.5	2	0.2
FLUORENE	<2	ug/L	9.5	2	0.2
PHENANTHRENE	<2	ug/L	9.5	2	0.2
ANTHRACENE	<2	ug/L	9.5	2	0.2
FLUORANTHENE	<2	ug/L	9.5	2	0.2
PYRENE	<2	ug/L	9.5	2	0.2
BENZO[A]ANTHRACENE	<2	ug/L	9.5	2	0.2
CHRYSENE	<2	ug/L	9.5	2	0.2
BENZO[B]FLUORANTHENE	<2	ug/L	9.5	2	0.2
BENZO[K]FLUORANTHENE	<2	ug/L	9.5	2	0.2
BENZO[A]PYRENE	<2	ug/L	9.5	2	0.2
INDENO[1,2,3-CD]PYRENE	<2	ug/L	9.5	2	0.2
DIBENZ[A,H]ANTHRACENE	<2	ug/L	9.5	2	0.2
BENZO[G,H,I]PERYLENE	<2	ug/L	9.5	2	0.2
1-METHYLNAPHTHALENE	17	ug/L	9.5	2	0.2
NITROBENZENE-D5	110	%	9.5		
2-FLUOROBIPHENYL	60	%	9.5		
TERPHENYL-D14	50	%	9.5		

Report Notes: E, O-1 , INTERNAL STANDARD DEVIATIONS

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0791-6DL
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/19/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW3-01	AQ	3/20/01	3/21/01	4/19/01	JG	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	73	ug/L	48	10	0.2
2-METHYLNAPHTHALENE	26	ug/L	48	10	0.2
ACENAPHTHYLENE	<10	ug/L	48	10	0.2
ACENAPHTHENE	<10	ug/L	48	10	0.2
FLUORENE	<10	ug/L	48	10	0.2
PHENANTHRENE	<10	ug/L	48	10	0.2
ANTHRACENE	<10	ug/L	48	10	0.2
FLUORANTHENE	<10	ug/L	48	10	0.2
PYRENE	<10	ug/L	48	10	0.2
BENZO[A]ANTHRACENE	<10	ug/L	48	10	0.2
CHRYSENE	<10	ug/L	48	10	0.2
BENZO[B]FLUORANTHENE	<10	ug/L	48	10	0.2
BENZO[K]FLUORANTHENE	<10	ug/L	48	10	0.2
BENZO[A]PYRENE	<10	ug/L	48	10	0.2
INDENO[1,2,3-CD]PYRENE	<10	ug/L	48	10	0.2
DIBENZ[A,H]ANTHRACENE	<10	ug/L	48	10	0.2
BENZO[G,H,I]PERYLENE	<10	ug/L	48	10	0.2
1-METHYLNAPHTHALENE	14	ug/L	48	10	0.2
NITROBENZENE-D5	DL	%	48		
2-FLUOROBIPHENYL	DL	%	48		
TERPHENYL-D14	DL	%	48		

Report Notes: O-2, DL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-1
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW5-01	AQ	3/21/01	3/22/01	3/28/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	56	%	1.0		
2-FLUOROBIPHENYL	52	%	1.0		
TERPHENYL-D14	102	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-2
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW4-01	AQ	3/21/01	3/22/01	3/28/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	J0.1	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	68	%	1.0		
2-FLUOROBIPHENYL	61	%	1.0		
TERPHENYL-D14	98	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-3
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-DUP1-01	AQ	3/21/01	3/22/01	3/28/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	60	%	1.0		
2-FLUOROBIPHENYL	58	%	1.0		
TERPHENYL-D14	85	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR0804-4
SDG: UST14-1
Report Date: 4/20/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 4/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW6-01	AQ	3/21/01	3/22/01	3/28/2001	JRN	SW3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	78	%	1.0		
2-FLUOROBIPHENYL	68	%	1.0		
TERPHENYL-D14	92	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW7-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW8-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW9-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.5	B		P	1

Color Before: YELLOW Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW1-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	2.5	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW2-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-005

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.9	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW3-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0791-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	4.0	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW5-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0804-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: YELLOW Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW4-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0804-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: YELLOW Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: JAX-19-MW6-01

Matrix: WATER
SDG Name: UST14-1

Percent Solids: 0.00
Lab Sample ID: WR0804-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.7	B		P	1

Color Before: YELLOW
Clarity Before: CLEAR

Color After: COLORLESS
Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-DUP1-01

Matrix: WATER **SDG Name:** UST14-1

Percent Solids: 0.00 **Lab Sample ID:** WR0804-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: YELLOW Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0791-6
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW3-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/29/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		96	%	1.0			03/29/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0804-1
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW5-01	Aqueous	03/21/2001	03/22/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/29/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		84	%	1.0			03/29/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0804-2
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW4-01	Aqueous	03/21/2001	03/22/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/29/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		70	%	1.0			03/29/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0804-3
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-DUP1-01	Aqueous	03/21/2001	03/22/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/29/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		70	%	1.0			03/29/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Sample ID: WR0804-4
SDG: UST14-1
Report Date: 04/04/2001
PO No.: MSA-0900-025
Project: CTO #145
Percent Solids: N/A
Analytical Method: EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW6-01	Aqueous	03/21/2001	03/22/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/29/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		66	%	1.0			03/29/2001	JCG

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-1
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
JAX-19-MW7-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/28/01	RL	
o-Terphenyl	74.	%	1		FL-PRO	03/28/01	RL	
n-triacontane-D62	78.	%	1		FL-PRO	03/28/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
RC26FOW9

340 County Road No. 5
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210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-2
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
JAX-19-MW8-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	80.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	80.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

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ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-3
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW9-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	1700.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	75.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	85.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-4
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW1-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	690.0	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	73.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	80.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
RC26FOW9

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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-5
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW2-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	82.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	71.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0791-6
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
JAX-19-MW3-01	Aqueous	CLIENT	03/20/01	03/21/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	2100.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	80.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	77.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
RC26POW9

Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0804-1
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
JAX-19-MW5-01	Aqueous	CLIENT	03/21/01	03/22/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	71.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	51.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0804-2
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW4-01	Aqueous	CLIENT	03/21/01	03/22/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	74.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	65.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0804-3
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-DUP1-01	Aqueous	CLIENT	03/21/01	03/22/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	79.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	53.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
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Katahdin
ANALYTICAL SERVICES

CLIENT: AMY THOMSON
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661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-0804-4
Report Date: 04/14/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW6-01	Aqueous	CLIENT	03/21/01	03/22/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1
Petroleum Range Organics	<500.	µg/L	1	500	FL-PRO	03/29/01	RL	
o-Terphenyl	70.	%	1		FL-PRO	03/29/01	RL	
n-triacontane-D62	56.	%	1		FL-PRO	03/29/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 03/26/01 by GNP

04/14/01

LJO/jcbajc(dw)/rrl
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KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-1
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/14/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW10-01	AQ	7/12/01	7/13/01	7/14/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<1	ug/L	1.0	1	1
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2	ug/L	1.0	2	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	80	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	82	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-1
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/14/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW10-01	AQ	7/12/01	7/13/01	7/14/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-2
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW11-01	AQ	7/12/01	7/13/01	7/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<1	ug/L	1.0	1	1
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2	ug/L	1.0	2	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	89	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-2
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW11-01	AQ	7/12/01	7/13/01	7/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-3
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK (071201)	AQ	7/12/01	7/13/01	7/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<1	ug/L	1.0	1	1
CHLOROETHANE	<2	ug/L	1.0	2	2
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
ACROLEIN	<5	ug/L	1.0	5	5
ACRYLONITRILE	<50	ug/L	1.0	50	50
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
TOTAL 1,3-DICHLOROPROPENE	<2	ug/L	1.0	2	2
2-CHLOROETHYLVINYLETHER	<10	ug/L	1.0	10	10
BROMOFORM	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
MTBE	<2	ug/L	1.0	2	2.0
TOTAL XYLENES	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE-D4	89	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-3
SDG: WR2437
Report Date: 8/28/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: SW8260
Date Analyzed: 7/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TRIP BLANK (071201)	AQ	7/12/01	7/13/01	7/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-1
SDG: WR2437
Report Date: 8/24/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 8/14/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW10-01	AQ	7/12/01	7/13/01	7/17/2001	AB	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	48	%	1.0		
2-FLUOROBIPHENYL	52	%	1.0		
TERPHENYL-D14	90	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Number: WR2437-2
SDG: WR2437
Report Date: 8/24/01
PO No. : MSA-0900-025
Project: CTO #145
% Solids: N/A
Method: EPA 8270
Date Analyzed: 8/14/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
JAX-19-MW11-01	AQ	7/12/01	7/13/01	7/17/2001	AB	SW3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
2-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHYLENE	<0.2	ug/L	1.0	0.2	0.2
ACENAPHTHENE	<0.2	ug/L	1.0	0.2	0.2
FLUORENE	<0.2	ug/L	1.0	0.2	0.2
PHENANTHRENE	<0.2	ug/L	1.0	0.2	0.2
ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
PYRENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
CHRYSENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[B]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[K]FLUORANTHENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[A]PYRENE	<0.2	ug/L	1.0	0.2	0.2
INDENO[1,2,3-CD]PYRENE	<0.2	ug/L	1.0	0.2	0.2
DIBENZ[A,H]ANTHRACENE	<0.2	ug/L	1.0	0.2	0.2
BENZO[G,H,I]PERYLENE	<0.2	ug/L	1.0	0.2	0.2
1-METHYLNAPHTHALENE	<0.2	ug/L	1.0	0.2	0.2
NITROBENZENE-D5	70	%	1.0		
2-FLUOROBIPHENYL	70	%	1.0		
TERPHENYL-D14	84	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** JAX-19-MW10-01

Matrix: WATER **SDG Name:** WR2437

Percent Solids: 0.00 **Lab Sample ID:** WR2437-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	2.4	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: JAX-19-MW11-01

Matrix: WATER
SDG Name: WR2437

Percent Solids: 0.00
Lab Sample ID: WR2437-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.48	U		P	1

Color Before: COLORLESS
Clarity Before: CLEAR

Color After: COLORLESS
Clarity After: CLEAR

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-2437-1
Report Date: 09/04/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW10-01	Aqueous	CLIENT	07/12/01	07/13/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2
Petroleum Range Organics	J 160	µg/L	1.0	500	FL-PRO	08/17/01	RL	
o-Terphenyl	90	%	1.0		FL-PRO	08/17/01	RL	
n-triacontane-D62	64	%	1.0		FL-PRO	08/17/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/01 by NB
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/04/01

LJO/jcbajc(dw)/rrl
RG18FOW4

Katahdin ANALYTICAL SERVICES

Cert. No. E87604

CLIENT: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE, FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745

Lab Number : WR-2437-2
Report Date: 09/04/01
PO No. : MSA-0900-025
Project : CTO #145

WIC#: NAS JACKSONVILLE

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
JAX-19-MW11-01	Aqueous	CLIENT	07/12/01	07/13/01

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Petroleum Range Organics								1,2
Petroleum Range Organics	J 270	µg/L	1.0	500	FL-PRO	08/17/01	RL	
o-Terphenyl	75	%	1.0		FL-PRO	08/17/01	RL	
n-triacontane-D62	48	%	1.0		FL-PRO	08/17/01	RL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/01 by NB
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/04/01

LJO/jcbajc(dw)/rrl
RG18FOW4

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Sample ID: WR0791-1
SDG: UST14-1
Report Date: 04/04/2001
PO No.: MSA-0900-025
Project: CTO #145
Percent Solids: N/A
Analytical Method: EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW7-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/28/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		108	%	1.0			03/28/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0791-2
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW8-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/28/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		68	%	1.0			03/28/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0791-3
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW9-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/28/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		90	%	1.0			03/28/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AMY THOMSON
TETRA TECH NUS, INC.
661 ANDERSEN DRIVE
FOSTER PLAZA VII
PITTSBURGH, PA 15220-2745
Proj. ID: NAS JACKSONVILLE

Lab Sample ID: WR0791-4
SDG: UST14-1
Report Date: 04/04/2001
PO No.: MSA-0900-025
Project: CTO #145
Percent Solids: N/A
Analytical Method: EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW1-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Ethylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/28/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		74	%	1.0			03/28/2001	JCG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AMY THOMSON	Lab Sample ID:	WR0791-5
	TETRA TECH NUS, INC.	SDG:	UST14-1
	661 ANDERSEN DRIVE	Report Date:	04/04/2001
	FOSTER PLAZA VII	PO No.:	MSA-0900-025
	PITTSBURGH, PA 15220-2745	Project:	CTO #145
Proj. ID:	NAS JACKSONVILLE	Percent Solids:	N/A
		Analytical Method:	EPA 504

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
JAX-19-MW2-01	Aqueous	03/20/2001	03/21/2001	03/28/2001	JCG	EPA 504

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
ylene dibromide		< 0.050	ug/L	1.0	0.050	0.050	03/28/2001	JCG
2,4,5,6-Tetrachloro-meta-xylene		82	%	1.0			03/28/2001	JCG