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CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 1 AVIATION GASOLINE
PIPELINE NAS PENSACOLA FL
12/1/1995
ABB ENVIRONMENTAL SERVICES, INC

**CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 1, AVIATION GASOLINE PIPELINE**

**NAVAL AVIATION DEPOT
NAVAL AIR STATION
PENSACOLA, FLORIDA**

Unit Identification Code: N65899

Contract No. N62467-89-D-0317/008

Prepared by:

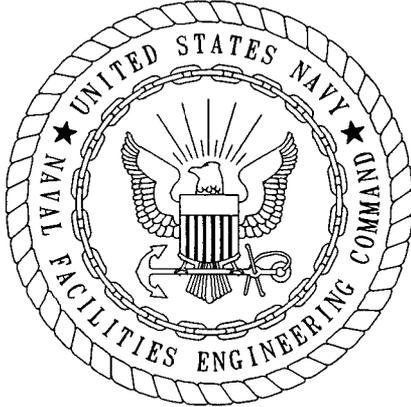
**ABB Environmental Services, Inc.
2590 Executive Center Circle, East
Tallahassee, Florida 32301**

Prepared for:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Byas Glover, Code 18410, Engineer-in-Charge

December 1995



CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

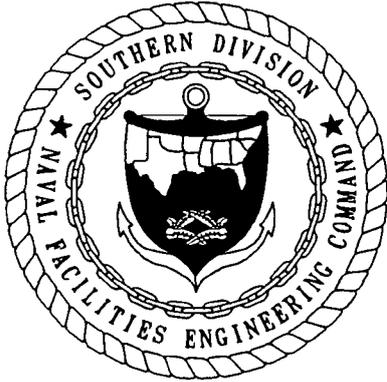
The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/008 are complete and accurate and comply with all requirements of this contract.

DATE: December 19, 1995

NAME AND TITLE OF CERTIFYING OFFICIAL: Mark Diblin, P.G.
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Michael J. Williams, P.G.
Project Technical Lead

(DFAR 252.227-7036)



FOREWORD

Subtitle I of the Hazardous and Solid Waste Amendments of 1984 to the Solid Waste Disposal Act (SWDA) of 1965 established a national regulatory program for managing underground storage tanks (USTs) containing hazardous materials, especially petroleum products. Hazardous wastes stored in USTs were already regulated under the Resource Conservation and Recovery Act of 1976, which was also an amendment to the SWDA. Subtitle I requires that the U.S. Environmental Protection Agency (USEPA) promulgate UST regulations. The program was designed to be administered by the individual States, who were allowed to develop more stringent standards, but not less stringent standards. Local governments were permitted to establish regulatory programs and standards that are more stringent, but not less stringent, than either State or Federal regulations. The USEPA UST regulations are found in the Code of Federal Regulations (CFR), Title 40, Part 280 (40 CFR 280) (Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks) and Title 40 CFR 281 (Approval of State Underground Storage Tank Programs). Title 40 CFR 280 was revised and published on September 23, 1988, and became effective December 22, 1988.

The Navy's UST program policy is to comply with all Federal, State, and local regulations pertaining to USTs. This report was prepared to satisfy the requirements of the Florida Department of Environmental Protection (formerly the Florida Department of Environmental Regulation) Chapter 17-770, Florida Administrative Code (State Underground Petroleum Environmental Response) regulations on petroleum contamination in Florida's environment as a result of spills or leaking tanks or piping.

Questions regarding this report should be addressed to the Environmental Coordinator, Naval Aviation Depot, Naval Air Station, Pensacola, Florida, at 904-452-3900, or to Byas Glover, Southern Division, Naval Facilities Engineering Command, Code 18410, at AUTOVON 563-0651 or 803-743-0651.

ACKNOWLEDGMENTS

In preparing this report, the Underground Storage Tank Section of the Comprehensive Long-Term Environmental Action, Navy Group at ABB Environmental Services, Inc., commends the support, assistance, and cooperation provided by the personnel at Naval Aviation Depot, Naval Air Station, Pensacola, Florida, and Southern Division, Naval Facilities Engineering Command.

EXECUTIVE SUMMARY

This report is an addendum to the Aviation Gasoline (AVGAS) Pipeline Area Contamination Assessment Report (CAR) submitted by ABB Environmental Services, Inc. (ABB-ES) in August 1995. Information and documents such as regional and local physiography, regional hydrology, investigative methodologies and procedures, and supplemental reports and memoranda are included in the August 1995 AVGAS Pipeline Area CAR.

Site 1, the former AVGAS pipeline, is located around the north, west, and south edges of Chevalier Field, Naval Aviation Depot (NADEP), Pensacola. The AVGAS pipeline was constructed during the 1940s. It was constructed using unprotected steel piping in a trench which averages 3 feet below land surface. In some places the trench was paved and/or covered with concrete. The pipeline was used to supply aviation gasoline to Chevalier Field facilities until the 1970s. In January, February, and March 1995, the southern and southwestern sections of the AVGAS pipeline were removed. During the closure investigation performed by ABB-ES, soil and groundwater were analyzed for gasoline analytical group contaminants. Contaminated soil was removed as part of an initial remedial action (IRA) where possible. Because not all contaminated soil was removed and indications of groundwater contamination were found at several locations along the pipeline, a contamination assessment (CA) was conducted. The findings, conclusions, and recommendations of the CA are summarized below.

FINDINGS

Soil Contamination Assessment Summary. A total of 686 soil samples were collected along the length of the AVGAS pipeline as it was removed. Excessively contaminated soil, as defined in Chapter 67-220.200(2), Florida Administrative Code (FAC), was initially identified at six locations: Sites 1A, 1B, 1R, 1L, 1U, and 1N.

- All excessively contaminated soil was removed from Sites 1A and 1R.
- Some excessively contaminated soil was not excavated during the IRA due to the presence of utilities and major roadways at Site 1B. Base Realignment and Closure (BRAC) demolition and construction occurring at the site after the IRA caused extensive reworking and mixing of contaminated and uncontaminated soil. Confirmatory soil samples collected from Site 1B subsequent to the soil reworking indicated no excessively contaminated soil remained at the site.
- Soil samples collected from Sites 1L and 1U were wet as a result of seasonally high water table conditions and were not representative of soil contamination in the unsaturated zone. Additionally, both sites were within the boundaries of installation restoration (IR) Site 23, where soil contamination will be assessed by another contractor.
- Excessively contaminated soil on the north, south, and west sides of Site 1N excavation was removed. Excessively contaminated soil on the east side of Site 1N was not removed because it lies beneath an active major thoroughfare.

Groundwater Contamination Assessment Summary. Twenty-three temporary monitoring wells were installed along the length of the former AVGAS pipeline. Four potentially contaminated areas (Sites 1I, 1J, 1L, and 1T) were identified from the temporary well groundwater sampling results.

- Nine permanent monitoring wells were installed at Site 1J (including Site 1I) and sampled for the Gasoline Analytical Group. Groundwater sampling results revealed that petroleum contamination at Site 1J was below Chapter 62-770.730, FAC, target levels.
- Lead concentrations exceeding the Chapter 62-770.730, FAC, target level of 50 ppm were detected in both of the temporary wells at Site 1L. Due to construction and standing water at the site, no additional wells were installed. No other contaminants detected in these monitoring wells exceeded State target levels listed in Chapter 62-770.730, FAC.
- The 1,1-dichloroethene (DCE) concentration of 9.4 parts per billion (ppb) detected in the temporary well installed at Site 1T exceeds the State drinking water standard of 7 ppb. No other contaminants detected in this monitoring well exceeded State target levels listed in Chapter 62-770.730, FAC.

CONCLUSIONS

Based on the findings of the CA and site conditions, the following can be concluded:

- Excessively contaminated soil has been removed from all locations except Site 1N. Excessively contaminated soil at Site 1N is capped beneath an asphalt road, and laboratory analytical results indicate the groundwater in that area has not been affected.
- Petroleum contamination exceeding State target levels listed in Chapter 62-770.730, FAC, was not detected in the groundwater at any of the Site 1 subsites except Site 1L and 1T.
- Site 1L groundwater sampling results indicate lead contamination as the only petroleum constituent exceeding Chapter 62-770.730, FAC, target levels. Excavation conducted by the BRAC contractor, Hyman Construction, Inc. (HCI), in the Site 1L vicinity revealed evidence of a former disposal area northwest of Site 1L and lead and mercury contamination in the soil from that area (personal communication, HCI, June 1995). Following completion of the BRAC construction, Site 1L will require further investigation to assess the extent and source of the lead contamination.
- The 1,1-DCE concentration at Site 1T only slightly exceeds the Chapter 62-550, FAC, drinking water standard. Because 1,1-DCE is a chlorinated solvent and not a petroleum constituent, the AVGAS pipeline is an unlikely source of this contaminant. It is possible that the solvent contamination is associated with the drainage ditch where Site 1T is located. The drainage ditch network west of Site 1 is an IR site.

RECOMMENDATION

Based on the findings, conclusions, and interpretations of the Site 1 CA, ABB-ES recommends a No Further Action proposal for Site 1, the AVGAS Pipeline Area, with the exception of Site 1L. Following the completion of BRAC construction in the Chevalier Field area, ABB-ES recommends further investigation of Site 1L as part of the investigation of the former disposal area to the northwest.

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AVGAS	Aviation Gasoline
bls	below land surface
BRAC	base realignment and closure
CA	contamination assessment
CAR	Contamination Assessment Report
DCE	1,1-dichloroethene
EDB	ethylene dibromide
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
HCI	Hyman Construction, Inc.
IRA	initial remedial action
IR	Installation Restoration Program
NADEP	Naval Aviation Depot
NTTC	Naval Technical Training Center
OVA	organic vapor analyzer
ppb	parts per billion
ppm	parts per million
PWC	
TOC	top of casing
TRPH	total recoverable petroleum hydrocarbons
VOA	volatile organic aromatics
VOC	volatile organic compounds

1.0 INTRODUCTION

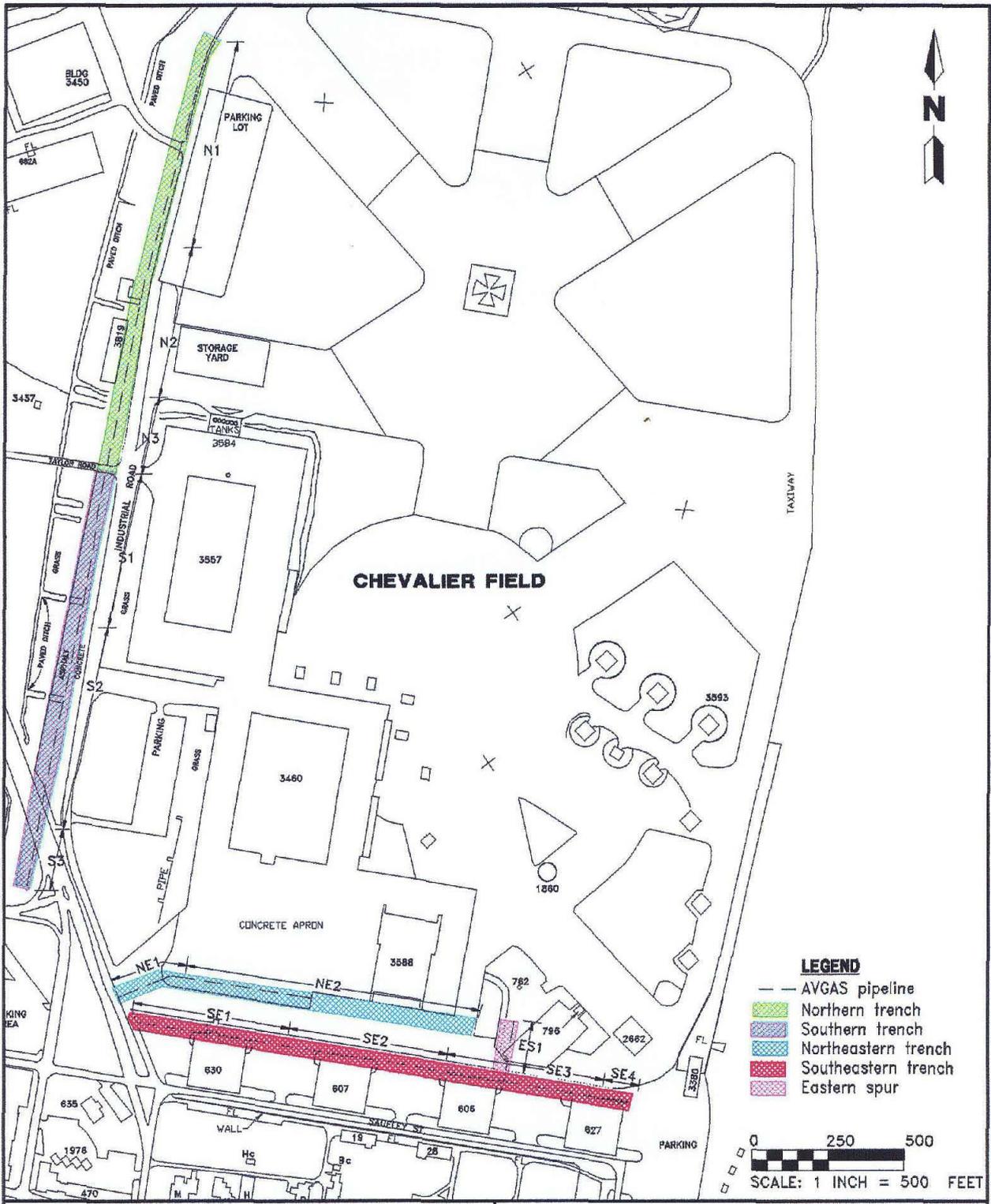
Site 1, the former Aviation Gasoline (AVGAS) Pipeline is located around the north, west, and south edges of Chevalier Field, Naval Aviation Depot (NADEP), Pensacola, Florida. In January, February, and March 1995, the southern and southwestern sections of the AVGAS pipeline were removed. For mapping purposes and ease of presentation, the pipeline was divided into five sections: the northern trench - a 1,880-foot section oriented north-south, north of Taylor Road; the southern trench - a 1,880-foot section oriented north-south, south of Taylor Road; the northeastern trench - a 610-foot section oriented east-west, west of Building 3588; the southeastern trench - a 1,770-foot section oriented east-west, north of Buildings 630, 607, 606, and 630; and the eastern spur - a 150-foot section oriented north-south from the southeast trench (Figure 1-1). These five sections were further divided (trench section N1, N2, N3, etc.) to provide additional detail for the soil and groundwater contamination assessment.

The AVGAS pipeline was constructed during the 1940s. It was constructed using unprotected steel piping in a trench. The pipeline was used to supply aviation gasoline to Chevalier Field facilities until the 1970s. In June 1995, ABB Environmental Services, Inc. (ABB-ES) completed the closure investigation of the pipeline and submitted a closure assessment form and initial remedial action (IRA) summary letter to the Florida Department of Environmental Protection (FDEP). These documents detailed the initial investigation and soil removal at Site 1. Both documents are included in Appendix A of the August 1995 AVGAS Pipeline Area CAR.

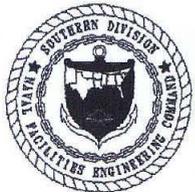
The demolition of Chevalier Field commenced in January 1995. The airfield and many associated facilities have been demolished as part of the Base Realignment and Closure (BRAC) program. A Naval Technical Training Center (NTTC) is being constructed on the former airfield.

Much of Site 1 has undergone drastic changes during the course of this investigation as a result of BRAC construction. The maps included in this report present the Site 1 area as it appeared prior to demolition and construction. BRAC construction activities in the Site 1 area which affected the investigation are discussed throughout this report.

This report summarizes the data gathered during the AVGAS pipeline removal and subsequent contamination assessment (CA). General information such as regional and local physiography, regional hydrology, investigative methodologies and procedures, and a more detailed history are included in the AVGAS Pipeline Area Contamination Assessment Report (CAR) (ABB-ES, August 1995).



**FIGURE 1-1
SITE LOCATION MAP**



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

2.0 CONTAMINATION ASSESSMENT RESULTS

2.1 SOIL CONTAMINATION ASSESSMENT.

2.1.1 Soil Sample Collection A total of 686 soil samples were collected along the length of the AVGAS pipeline during the pipeline removal and IRA procedures and analyzed according to the organic vapor analyzer (OVA) headspace method described in Chapter 62-770, Florida Administrative Code (FAC). Soil samples were collected at intervals of approximately 10 feet along the pipeline with a stainless steel hand auger. One soil sample was collected at each location from either the center of the pipeline trench directly beneath the pipeline or from the trench wall closest to the pipeline. All soil samples were collected above the water table, between 0 and 3 feet below land surface (bls) due to shallow water table conditions (6 inches to 4 feet bls). Figures 2-1 through 2-7 present the soil boring locations in each section of the pipeline trench.

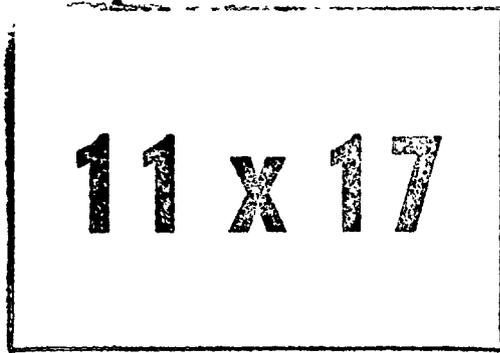
Soil borings SES-SB25 through SES-SB31 in the southeastern trench (SE1) could not be advanced due to restricted access. Several high-voltage electric lines ran through this area, preventing heavy machinery access and subsurface investigation.

2.1.2 Soil Sampling Results The suspected contaminant at Site 1 is AVGAS, which is included in the gasoline analytical group defined in Chapter 62-770, FAC. Soil with OVA headspace readings greater than 10 parts per million (ppm) is considered to be petroleum contaminated. Soil with OVA headspace readings greater than 500 ppm is defined as excessively contaminated. "Excessively contaminated" soil must be remediated in accordance with Guidelines for Assessment and Remediation of Petroleum Contaminated Soils (FDEP, May 1992). During pipeline removal, excessively contaminated soil was removed as an IRA. Most contaminated soil with volatile organic compound (VOC) concentrations greater than 10 ppm was removed. Contaminated soil was not removed at several locations where the presence of underground utilities and roads made excavation impractical.

Figures 2-1 through 2-7 present the areal distribution of soil contamination. Tables 2-1 through 2-5 present the OVA headspace data collected from each section of the pipeline trench.

Six areas of excessively contaminated soil were assessed using OVA headspace analysis. These areas were located on the northern and southern trenches and designated Sites 1A, 1B, 1L, 1N, 1R, and 1U. No excessively contaminated soil was detected in the southeastern trench, northeastern trench, or eastern spur. Figures 2-2 and 2-3 present the soil contamination distribution at Site 1A and Site 1B, respectively. Site 1R is located in the northern trench, approximately 140 feet north of Taylor Road (see Figure 2-1). Sites 1L and 1U are located within the boundaries of installation restoration (IR) Site 23 (see Figure 2-4). IR Site 23 includes the length of the pipeline south of Taylor Road and north of Murray Road and the drainage ditch west of the pipeline. Site 1N is located beneath Murray Road (see Figure 2-4).

Figure 2-1 Soil Sample Location and Volatile Organic Compound Distribution Map, Northern Trench



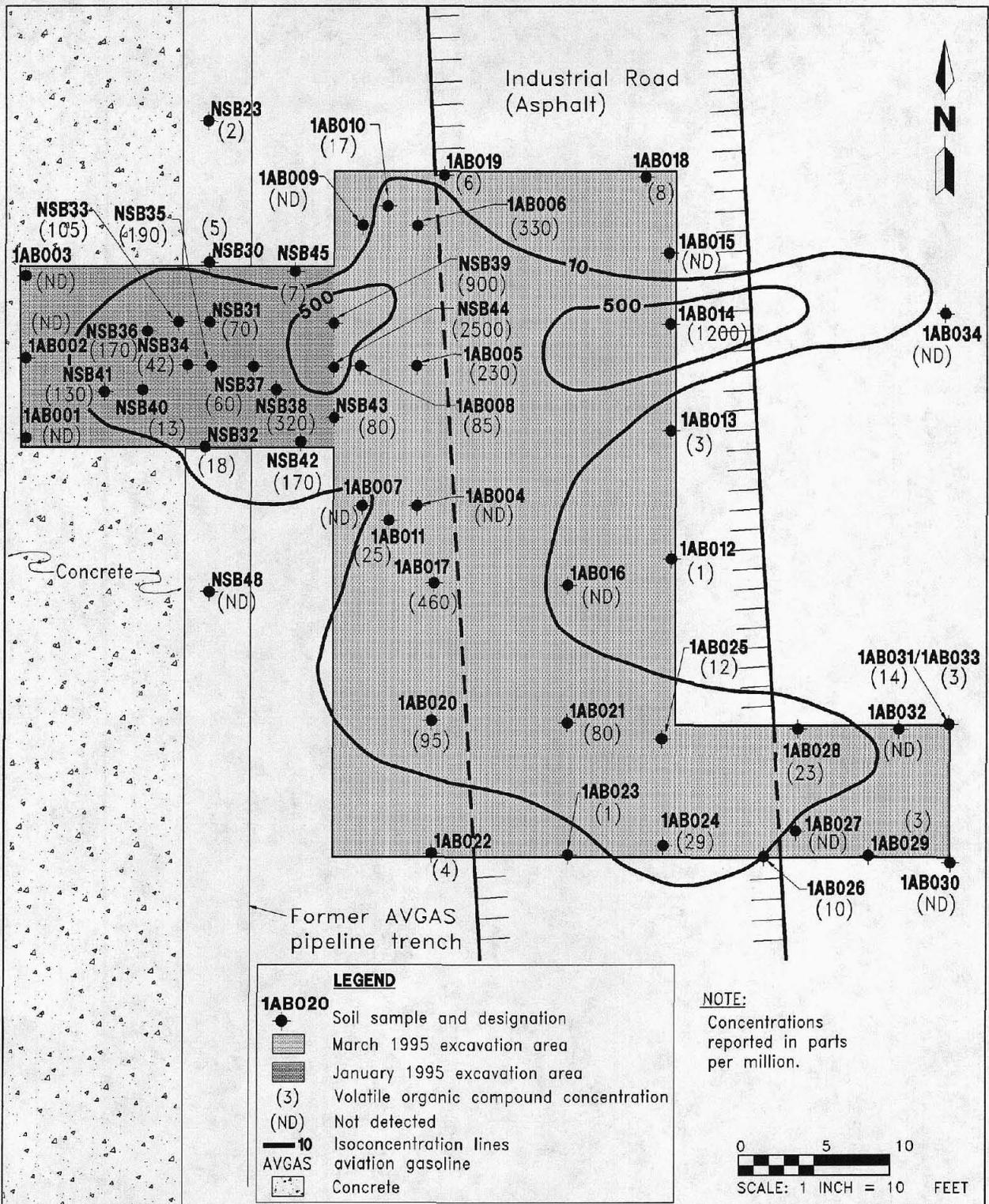


FIGURE 2-2
SOIL SAMPLE LOCATION AND
VOLATILE ORGANIC COMPOUND
DISTRIBUTION MAP, SITE 1A DETAIL



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

NADEP PENSACOLA
PENSACOLA, FLORIDA

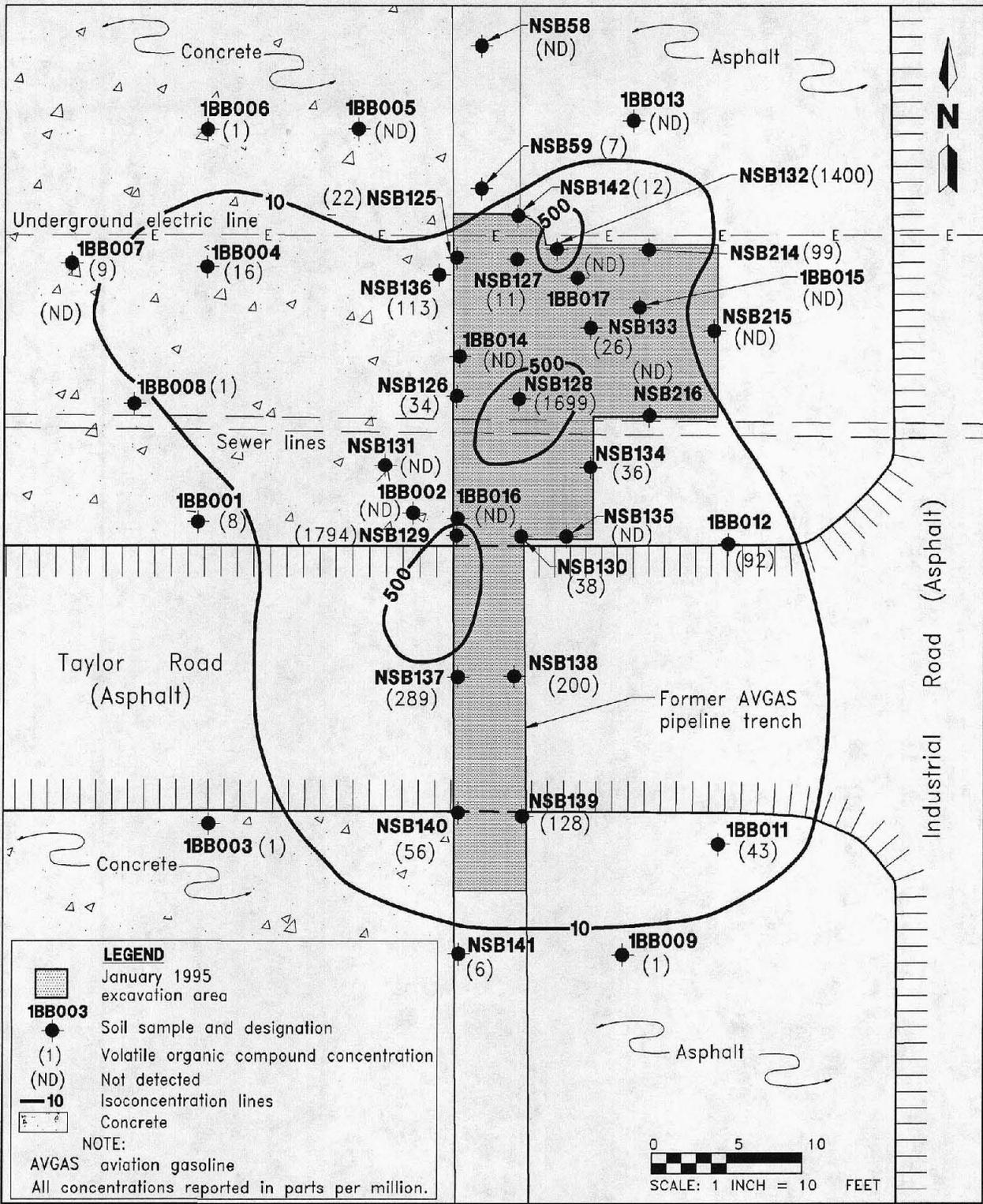


FIGURE 2-3
SOIL SAMPLE LOCATION AND
VOLATILE ORGANIC COMPOUND
DISTRIBUTION MAP, SITE 1B DETAIL



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

NADEP PENSACOLA
PENSACOLA, FLORIDA

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Figure 2-4 Soil Sample Location and Volatile Organic Compound Distribution Map, Southern Trench

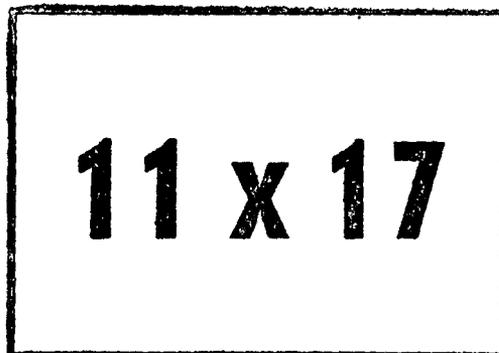


Figure 2-5 Soil Sample Location and Volatile Organic Compound Distribution Map, Northeastern Trench

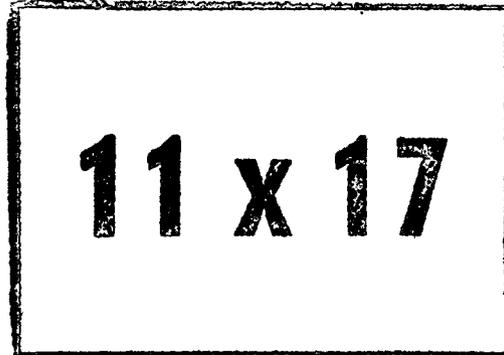
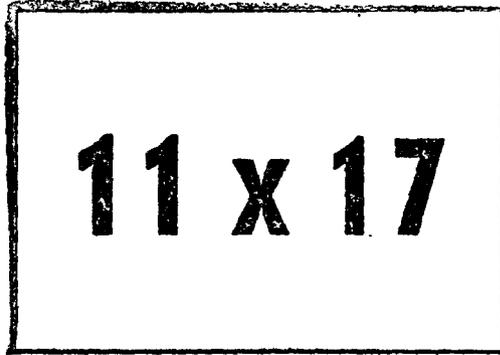
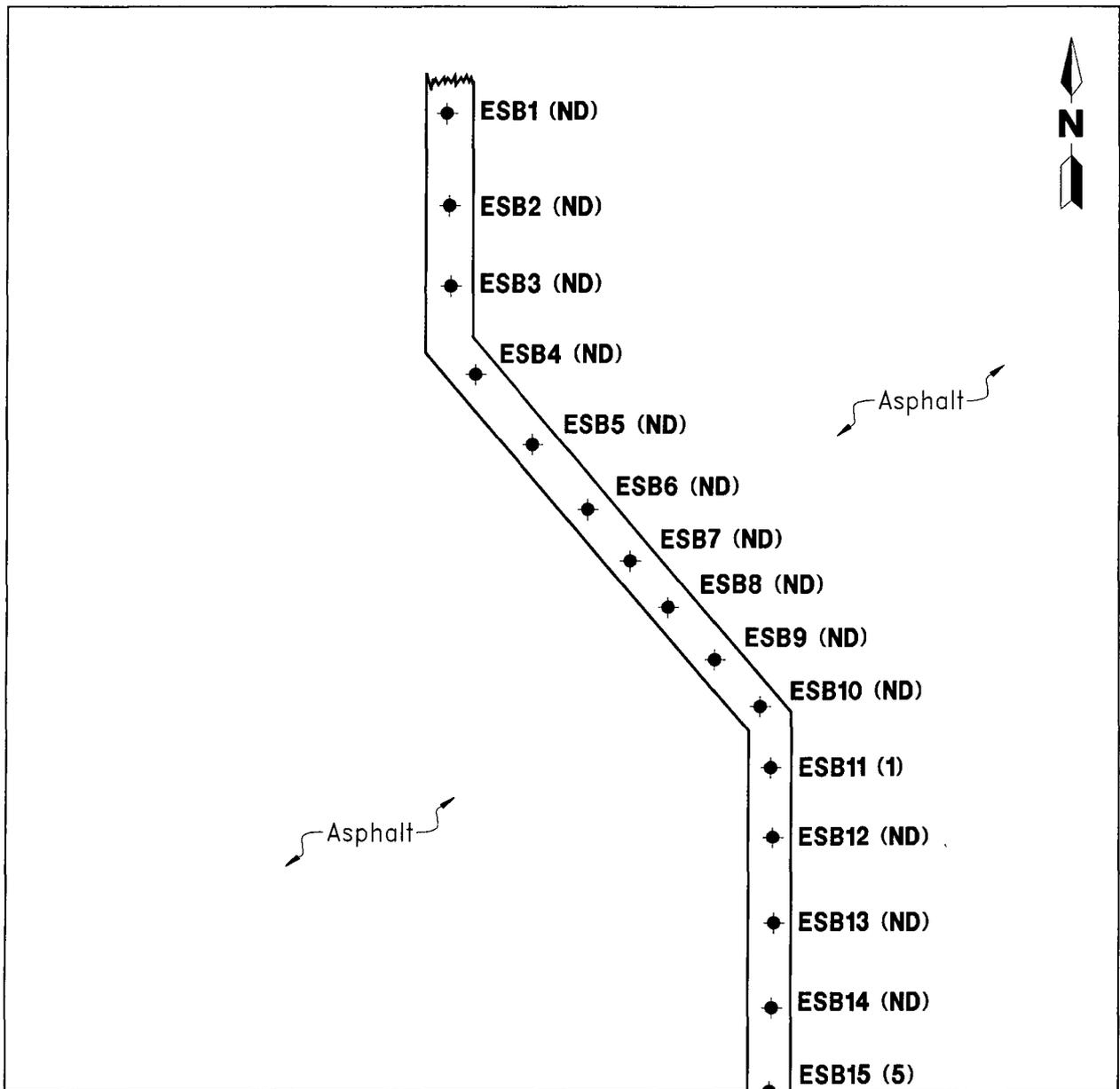


Figure 2-6 Soil Sample Location and Volatile Organic Compound Distribution Map, Southeastern Trench





Southeastern trench

LEGEND

ESB15 Sample identifier

(5) Volatile organic compound concentration

• Soil sample location

(ND) Not detected

NOTE:
 AVGAS aviation gasoline
 Concentrations reported in parts per million.

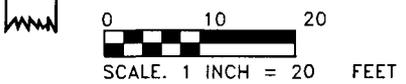


FIGURE 2-7
SOIL SAMPLE LOCATION AND
VOLATILE ORGANIC COMPOUND
DISTRIBUTION MAP, EASTERN SPUR



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

NADEP PENSACOLA
PENSACOLA, FLORIDA

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**Table 2-1
Summary of Organic Vapor Analyzer Headspace Results, Northern Trench
January 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
NSB1	ND	NS	ND	Site 4	NSB39	900	0	900	Site 1A
NSB2	ND	NS	ND	Site 4	NSB40	13	NS	13	Site 1A
NSB3	ND	NS	ND	Site 4	NSB41	130	0	130	Site 1A
NSB4	2	NS	2	Site 4	NSB42	170	0	170	Site 1A
NSB5	ND	NS	ND		NSB43	80	0	80	Site 1A
NSB6	ND	NS	ND		NSB44	2500	0	2500	Site 1A
NSB7	4	NS	4		NSB45	7	NS	7	Site 1A
NSB8	ND	NS	ND		NSB46	1800	0	1800	Site 1R
NSB9	ND	NS	ND		NSB47	160	0	160	
NSB10	ND	NS	ND		NSB48	ND	NS	ND	
NSB11	3	NS	3		NSB49	19	0	19	
NSB12	ND	NS	ND		NSB50	30	0	30	
NSB13	2	NS	2		NSB51	23	0	23	
NSB14	160	0	160	Site 1S	NSB52	70	0	70	Site 1R
NSB15	ND	NS	ND	Site 1S	NSB53	16	0	16	
NSB16	ND	NS	ND		NSB54	5	0	5	
NSB17	ND	NS	ND		NSB55	ND	NS	ND	
NSB18	4	NS	4		NSB56	ND	NS	ND	
NSB19	14	NS	14		NSB57	30	0	30	
NSB20	7	NS	7		NSB58	ND	NS	ND	
NSB21	5	NS	5		NSB59	7	NS	7	
NSB22	18	0	18		NSB60	110	0	110	Site 1A
NSB23	2	NS	2		NSB61	ND	NS	ND	Site 1R
NSB24	1	NS	1		NSB62	80	0	80	Site 1R
NSB25	ND	NS	ND		NSB63	ND	NS	ND	
NSB26	ND	NS	ND	Site 1S	NSB64	ND	NS	ND	
NSB27	ND	NS	ND	Site 1S	NSB65	ND	NS	ND	
NSB28	75	0	75	Site 1S	NSB66	23	NS	23	
NSB29	19	NS	19	Site 1S	NSB66-1	ND	NS	ND	
NSB30	5	NS	5	Site 1A	NSB66-2	5	NS	5	
NSB31	70	0	70	Site 1A	NSB67	ND	NS	ND	
NSB32	18	NS	18	Site 1A	NSB68	ND	NS	ND	
NSB33	105	0	105	Site 1A	NSB69	9	NS	9	
NSB34	42	NS	42	Site 1A	NSB70	ND	NS	ND	
NSB35	190	0	190	Site 1A	NSB71	4	NS	4	
NSB36	170	0	170	Site 1A	NSB72	3	NS	3	
NSB37	60	0	60	Site 1A	NSB73	3	NS	3	
NSB38	320	0	320	Site 1A	NSB74	5	NS	5	

See notes at end of table.

Table 2-1 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Northern Trench
January 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
NSB75	8	NS	8		NSB114	ND	NS	ND	
NSB76	ND	NS	ND		NSB115	ND	NS	ND	
NSB77	14	NS	14		NSB116	ND	NS	ND	Site 3
NSB78	1	NS	1		NSB117	ND	NS	ND	Site 3
NSB79	ND	NS	ND		NSB118	ND	NS	ND	
NSB80	130	0	130	Site 1T	NSB119	ND	NS	ND	
NSB81	ND	NS	ND		NSB120	ND	NS	ND	
NSB82	7	NS	7		NSB121	ND	NS	ND	
NSB83	ND	NS	ND		NSB123	ND	NS	ND	
NSB84	ND	NS	ND		NSB124	1	NS	1	
NSB85	1	NS	1		NSB125	22	0	22	Site 1B
NSB86	1	NS	1		NSB126	34	0	34	Site 1B
NSB87	ND	NS	ND		NSB127	11	0	11	Site 1B
NSB88	18	0	18		NSB128	1700	1	1699	Site 1B
NSB89	ND	NS	ND		NSB129	1800	6	1794	Site 1B
NSB90	7	NS	7		NSB130	43	5	38	Site 1B
NSB91	3	NS	3		NSB131	ND	NS	ND	Site 1B
NSB92	ND	NS	ND		NSB132	1400	0	1400	Site 1B
NSB93	ND	NS	ND		NSB133	28	2	26	Site 1B
NSB94	9	NS	9		NSB134	50	14	36	Site 1B
NSB95	ND	NS	ND		NSB135	ND	NS	ND	Site 1B
NSB96	ND	NS	ND		NSB136	120	7	113	Site 1B
NSB97	ND	NS	ND		NSB137	290	1	289	Site 1B
NSB98	ND	NS	ND		NSB138	200	0	200	Site 1B
NSB99	ND	NS	ND		NSB139	130	2	128	Site 1B
NSB100	ND	NS	ND		NSB140	60	4	56	Site 1B
NSB101	ND	NS	ND		NSB141	7	1	6	Site 1B
NSB102	ND	NS	ND		NSB142	12	0	12	
NSB103	ND	NS	ND		NSB143	ND	NS	ND	
NSB104	1	NS	1		NSB144	ND	NS	ND	
NSB105	ND	NS	ND		NSB145	12	1	11	
NSB106	1	NS	1		NSB146	1	NS	1	
NSB107	1	NS	1		NSB147	2	NS	2	
NSB108	ND	NS	ND	Site 3	NSB148	5	NS	5	
NSB109	1	NS	1	Site 3	NSB149	26	1	25	
NSB110	17	NS	17	Site 3	NSB150	45	2	45	Site 1C
NSB111	ND	NS	ND		NSB151	ND	NS	ND	Site 1C
NSB112	ND	NS	ND		NSB152	ND	NS	ND	Site 1C
NSB113	ND	NS	ND		NSB153	ND	NS	ND	Site 1C

See notes at end of table.

Table 2-1 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Northern Trench
January 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
NSB154	ND	NS	ND	Site 1C	NSB193	3	NS	3	Site 1E
NSB155	ND	NS	ND		NSB194	ND	NS	ND	Site 1E
NSB156	3	NS	3		NSB195	ND	NS	ND	Site 1E
NSB157	4	NS	4		NSB196	ND	NS	ND	Site 1E
NSB158	ND	NS	ND		NSB197	ND	NS	ND	Site 1E
NSB159	ND	NS	ND		NSB198	2	NS	2	Site 1E
NSB160	ND	NS	ND		NSB199	ND	NS	ND	Site 1E
NSB161	ND	NS	ND		NSB200	ND	NS	ND	
NSB162	ND	NS	ND		NSB201	1	NS	2	
NSB163	ND	NS	ND	Site 2	NSB202	ND	NS	ND	
NSB164	ND	NS	ND	Site 2	NSB203	ND	NS	ND	
NSB165	ND	NS	ND	Site 2	1AB001	ND	NS	ND	Site 1A
NSB166	ND	NS	ND		1AB002	ND	NS	ND	Site 1A
NSB167	ND	NS	ND		1AB003	ND	NS	ND	Site 1A
NSB168	ND	NS	ND		1AB004	ND	NS	ND	Site 1A
NSB169	ND	NS	ND	Site 1D	1AB005	230	0	230	Site 1A
NSB170	ND	NS	ND	Site 1D	1AB006	330	0	330	Site 1A
NSB171	2	NS	2	Site 1D	1AB007	ND	NS	ND	Site 1A
NSB172	ND	NS	ND	Site 1D	1AB008	85	0	85	Site 1A
NSB173	ND	NS	ND		1AB009	ND	NS	ND	Site 1A
NSB174	ND	NS	ND		1AB010	17	0	17	Site 1A
NSB175	ND	NS	ND		1AB011	25	0	25	Site 1A
NSB176	ND	NS	ND		1AB012	1	0	1	Site 1A
NSB177	ND	NS	ND		1AB013	3	NS	3	Site 1A
NSB178	ND	NS	ND		1AB014	1200	0	1200	Site 1A
NSB179	ND	NS	ND		1AB015	ND	NS	ND	Site 1A
NSB180	ND	NS	ND		1AB016	ND	NS	ND	Site 1A
NSB181	ND	NS	ND		1AB017	460	0	460	Site 1A
NSB182	ND	NS	ND		1AB018	8	0	8	Site 1A
NSB183	ND	NS	ND		1AB019	6	0	6	Site 1A
NSB184	ND	NS	ND		1AB020	95	0	95	Site 1A
NSB185	ND	NS	ND		1AB021	80	0	80	Site 1A
NSB186	90	9	81	Site 1E	1AB022	4	0	4	Site 1A
NSB187	ND	NS	ND		1AB023	1	0	1	Site 1A
NSB188	ND	NS	ND	Site 1E	1AB024	29	0	29	Site 1A
NSB189	80	2	78	Site 1E	1AB025	12	0	12	Site 1A
NSB190	ND	NS	ND	Site 1E	1AB026	10	0	10	Site 1A
NSB191	ND	NS	ND	Site 1E	1AB027	ND	NS	ND	Site 1A
NSB192	ND	NS	ND	Site 1E	1AB028	23	0	23	Site 1A

See notes at end of table.

Table 2-1 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Northern Trench
January 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
1AB029	3	NS	3	Site 1A	1BB007	9	0	9	Site 1B
1AB030	ND	NS	ND	Site 1A	1BB008	1	NS	1	Site 1B
1AB031	14	NS	14	Site 1A	1BB009	1	NS	1	Site 1B
1AB032	ND	NS	ND	Site 1A	1BB010	ND	NS	ND	Site 1B
1AB033	3	NS	3	Site 1A	1BB011	44	1	43	Site 1B
1BB001	8	0	8	Site 1B	1BB012	92	0	92	Site 1B
1BB002	ND	NS	ND	Site 1B	1BB013	ND	NS	ND	Site 1B
1BB003	1	NS	1	Site 1B	1BB014	ND	NS	ND	Site 1B
1BB004	16	0	16	Site 1B	1BB015	ND	NS	ND	Site 1B
1BB005	ND	NS	ND	Site 1B	1BB016	ND	NS	ND	Site 1B
1BB006	1	NS	1	Site 1B	1BB017	ND	NS	ND	Site 1B

¹ The actual concentration is the difference of the unfiltered and the filtered readings. All organic vapor analyzer (OVA) readings are in parts per million.

² Sites 2 through 13 are used oil underground storage tank sites directly adjacent to the AVGAS pipeline (Site 1). OVA readings taken in the trench as it passes these sites are noted in the remarks column. Sites 1A through 1U are subsites of Site 1, the Aviation Gasoline (AVGAS) Pipeline Area.

Notes: AVGAS = Aviation Gasoline.
 ND = not detected.
 NS = not sampled.
 OVA = organic vapor analyzer.

**Table 2-2
Summary of Organic Vapor Analyzer Headspace Results, Southern Trench,
January 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SSB1	5	NS	5		SSB22-1	11	0	11	Site 1J
SSB2	34	2	32	Site 1G	SSB23	80	0	80	Site 1J
SSB2-1	ND	NS	ND	Site 1G	SSB24	110	0	110	Site 1J
SSB2-2	3	NS	3	Site 1G	SSB24-1	18	0	18	
SSB2-3	39	9	30	Site 1G	SSB25	40	0	40	Site 5
SSB2-4	110	4	106	Site 1G	SSB26	ND	NS	ND	Site 5
SSB2-5	37	11	26		SSB27	80	0	80	Site 5
SSB3	ND	NS	ND		SSB28	28	0	28	Site 1K
SSB4	27	1	26		SSB29	120	0	120	Site 1K
SSB5	ND	NS	ND		SSB30	7	NS	7	
SSB6	9	NS	9		SSB31	11	0	11	Site 1U
SSB7	11	0	11		SSB32	150	0	150	Site 1U
SSB8	4	NS	4		SSB32-1	220	6	214	Site 1U
SSB9	3	NS	3		SSB33	2500	0	2500	Site 1U
SSB10	6	NS	6		SSB33-1	180	0	180	Site 1U
SSB11	55	4	51	Site 1H	SSB34	ND	NS	ND	Site 1U
SSB12	ND	NS	ND		SSB35	40	0	40	Site 1U
SSB13	4	NS	4		SSB35-1	1550	4	1546	Site 1U
SSB14	3	NS	3	Site 1I	SSB36	3	NS	3	
SSB15	90	0	90	Site 1I	SSB37	1	NS	1	
SSB16	80	0	80	Site 1I	SSB38	3	NS	3	
SSB17	ND	NS	ND	Site 1I	SSB39	8	NS	8	
SSB18	24	4	20	Site 1I	SSB40	3	NS	3	
SSB18-1	48	0	48	Site 1I	SSB41	36	0	36	
SSB19	49	0	49	Site 1J	SSB42	ND	NS	ND	
SSB19-1	260	5	255	Site 1J	SSB43	ND	NS	ND	
SSB20	10	0	10	Site 1J	SSB44	4	NS	4	
SSB21	19	0	19	Site 1J	SSB45	ND	NS	ND	
SSB21-1	110	0	110	Site 1J	SSB46	ND	NS	ND	
SSB22	50	1	49	Site 1J	SSB47	ND	NS	ND	
SSB48	19	0	19		SSB78	ND	NS	ND	
SSB49	8	NS	8		SSB79	ND	NS	ND	
SSB50	12	1	11		SSB80	ND	NS	ND	
SSB51	ND	NS	ND		SSB81	ND	NS	ND	
SSB52	ND	NS	ND		SSB82	ND	NS	ND	
SSB53	ND	NS	ND		SSB83	ND	NS	ND	
SSB54	ND	NS	ND	Site 6	SSB84	3	NS	3	
SSB55	ND	NS	ND	Site 6	SSB85	3	NS	3	

See notes at end of table.

Table 2-2 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Southern Trench,
January 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SSB56	ND	NS	ND	Site 6	SSB86	ND	NS	ND	Site 7
SSB57	ND	NS	ND	Site 6	SSB87	1	NS	1	Site 7
SSB58	ND	NS	ND	Site 6	SSB88	ND	NS	ND	Site 7
SSB59	ND	NS	ND		SSB89	9	NS	9	Site 7
SSB60	ND	NS	ND		SSB90	ND	NS	ND	Site 7
SSB61	ND	NS	ND		SSB91	ND	NS	ND	
SSB62	ND	NS	ND		SSB92	ND	NS	ND	
SSB63	15	0	15		SSB93	6	NS	6	
SSB64	ND	NS	ND		SSB94	6	NS	6	
SSB65	ND	NS	ND		SSB95	ND	NS	ND	
SSB66	ND	NS	ND		SSB96	ND	NS	ND	
SSB67	ND	NS	1D		SSB97	ND	NS	ND	
SSB68	ND	NS	ND		SSB98	ND	NS	ND	
SSB69	ND	NS	ND		SSB99	200	0	200	Site 1L
SSB70	ND	NS	ND		SSB100	1500	0	1500	Site 1L
SSB71	ND	NS	ND		SSB101	6	NS	6	
SSB72	ND	NS	ND		SSB102	4	NS	4	
SSB73	2	NS	2		SSB103	ND	NS	ND	
SSB74	ND	NS	ND		SSB104	ND	NS	ND	
SSB75	ND	NS	ND		SSB105	ND	NS	ND	
SSB76	1	NS	1		SSB106	ND	NS	ND	
SSB77	ND	NS	ND		SSB107	150	0	150	Site 1N
SSB108	200	0	200	Site 1N	NSB135	ND	NS	ND	
SSB109	350	0	350	Site 1N	SSB136	ND	NS	ND	
SSB110	300	0	300	Site 1N	SSB137	1	NS	1	
SSB111	200	0	200	Site 1N	SSB138	ND	NS	ND	
SSB112	270	0	270	Site 1N	SSB139	ND	NS	ND	
SSB113	400	0	400	Site 1N	SSB140	ND	NS	ND	
SSB114	550	0	550	Site 1N	SSB141	ND	NS	ND	
SSB115	90	0	90	Site 1N	SSB142	ND	NS	ND	
SSB116	26	0	26	Site 1N	SSB143	ND	NS	ND	
SSB117	100	0	100	Site 1N	SSB144	ND	NS	ND	
SSB118	53	0	53	Site 1N	SSB145	2	NS	2	
SSB119	9	NS	9	Site 1N	SSB146	ND	NS	ND	
SSB120	6	NS	6	Site 1N	SSB147	ND	NS	ND	
SSB121	150	0	150	Site 1N	SSB148	ND	NS	ND	
SSB122	100	0	100	Site 1N	SSB149	ND	NS	ND	
SSB123	9	NS	9		SSB150	ND	NS	ND	

See notes at end of table.

Table 2-2 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Southern Trench,
January 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SSB124	ND	NS	ND		SSB151	ND	NS	ND	
SSB125	ND	NS	ND		SSB152	ND	NS	ND	
SSB126	ND	NS	ND		SSB153	ND	NS	ND	
SSB127	ND	NS	ND		SSB154	ND	NS	ND	
SSB128	ND	NS	ND		SSB155	ND	NS	ND	
SSB129	ND	NS	ND		SSB156	ND	NS	ND	
SSB130	ND	NS	ND		SSB157	ND	NS	ND	
SSB131	ND	NS	ND		SSB158	4	NS	4	
SSB132	ND	NS	ND		SSB159	1	NS	1	
SSB133	ND	NS	ND		SSB160	2	NS	2	
SSB134	ND	NS	ND						

¹ The actual concentration is the difference of the unfiltered and the filtered readings. All organic vapor analyzer (OVA) readings are in parts per million.

² Sites 2 through 13 are used oil underground storage tank sites directly adjacent to the AVGAS pipeline (Site 1). OVA readings taken in the trench as it passes these sites are noted in the remarks column. Sites 1A through 1U are subsites of Site 1, the Aviation Gasoline (AVGAS) Pipeline Area.

Notes: AVGAS = Aviation Gasoline.
 ND = not detected.
 NS = not sampled.
 OVA = organic vapor analyzer.

**Table 2-3
Summary of Organic Vapor Analyzer Headspace Results, Northeastern Trench,
January 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
NESB1	ND	NS	ND	Site 1P	NESB25	2	NS	2	
NESB2	1	NS	1		NESB26	2	NS	2	
NESB3	ND	NS	ND		NESB27	ND	NS	ND	
NESB4	3	NS	3		NESB28	2	NS	2	
NESB5	1	NS	1		NESB29	1	NS	1	
NESB6	3	NS	3		NESB30	7	NS	7	
NESB7	2	NS	2		NESB31	2	NS	2	
SSB8	ND	NS	ND		NESB32	ND	NS	ND	
NESB9	ND	NS	ND		NESB33	ND	NS	ND	
NESB10	ND	NS	ND		NESB34	2	NS	2	
NESB11	1	NS	1		NESB35	2	NS	2	
NESB12	2	NS	2		NESB36	ND	NS	NS	
NESB13	5	NS	5		NESB37	1	NS	1	
NESB14	2	NS	2	Site 1F	NESB38	5	NS	5	
NESB15	70	1	69	Site 1F	NESB39	1	NS	1	
NESB15-1	26	1	25	Site 1F	NESB40	ND	NS	ND	
NESB15-2	1	NS	1	Site 1F	NESB41	ND	NS	ND	
NESB15-3	ND	NS	ND	Site 1F	NESB42	ND	NS	ND	
NESB15-4	150	6	144	Site 1F	NESB43	ND	NS	ND	
NESB15-5	4	NS	4	Site 1F	NESB44	ND	NS	ND	
NESB15-6	ND	NS	ND	Site 1F	NESB45	ND	NS	ND	
NESB16	ND	NS	ND		NESB46	ND	NS	ND	
NESB17	2	NS	2		NESB47	ND	NS	ND	
NESB18	2	NS	2		NESB48	ND	NS	ND	
NESB19	ND	NS	ND		NESB49	ND	NS	ND	
NESB20	ND	NS	ND		NESB50	6	NS	6	
NESB21	ND	NS	ND		NESB51	ND	NS	ND	
NESB22	1	NS	1		NESB52	2	NS	2	
NESB23	ND	NS	ND		NESB53	ND	NS	ND	
NESB24	ND	NS	ND		NESB54	ND	NS	ND	
NESB55	1	NS	1		NESB59	ND	NS	ND	
NESB56	2	NS	2		NESB60	ND	NS	ND	
NESB57	ND	NS	ND		NESB61	2	NS	2	Site 1O
NESB58	ND	NS	ND						

¹ The actual concentration is the difference of the unfiltered and the filtered readings.

² Sites 1A through 1U are subsites of Site 1, the AVGAS Pipeline Area.

Notes: AVGAS = Aviation Gasoline.

ND = not detected.

NS = not sampled.

**Table 2-4
Summary of Organic Vapor Analyzer Headspace Results, Southeastern Trench,
February 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SESB1	1	NS	1		SESB22-1	2	NS	2	Site 8
SESB2	2	NS	2	Site 1Q	SESB23	ND	NS	ND	Site 8
SESB2-1	40	0	40	Site 1Q	SESB24	ND	NS	ND	Site 8
SESB2-2	150	0	150	Site 1Q	SESB25	NI	NI	NI	No access
SESB2-3	3	NS	3	Site 1Q	SESB26	NI	NI	NI	No access
SESB2-4	41	1	40	Site 1Q	SESB27	NI	NI	NI	No access
SESB2-5	1	NS	1	Site 1Q	SESB28	NI	NI	NI	No access
SESB2-6	5	NS	5	Site 1Q	SESB29	NI	NI	NI	No access
SESB2-7	7	NS	7	Site 1Q	SESB30	NI	NI	NI	No access
SESB2-8	ND	NS	ND	Site 1Q	SESB31	NI	NI	NI	No access
SESB3	2	NS	2	Site 1Q	SESB32	ND	NS	ND	
SESB4	ND	NS	ND		SESB33	ND	NS	ND	
SESB5	ND	NS	ND		SESB34	ND	NS	ND	
SESB6	ND	NS	ND		SESB35	ND	NS	ND	
SESB7	ND	NS	ND		SESB36	ND	NS	ND	
SESB8	ND	NS	ND		SESB37	ND	NS	ND	
SESB9	ND	NS	ND		SESB38	ND	NS	ND	
SESB10	ND	NS	ND		SESB39	ND	NS	ND	
SESB11	ND	NS	ND		SESB40	ND	NS	ND	
SESB12	ND	NS	ND		SESB41	ND	NS	ND	
SESB13	ND	NS	ND		SESB42	ND	NS	ND	
SESB14	ND	NS	ND		SESB43	ND	NS	ND	
SESB15	ND	NS	ND		SESB44	ND	NS	ND	
SESB16	ND	NS	ND		SESB45	ND	NS	ND	
SESB17	ND	NS	ND		SESB46	ND	NS	ND	
SESB18	ND	NS	ND		SESB47	ND	NS	ND	
SESB19	1	NS	1		SESB48	ND	NS	ND	
SESB20	2	NS	2		SESB49	ND	NS	ND	
SESB21	1	NS	1	Site 8	SESB50	2	NS	2	
SESB22	16	0	16	Site 8	SESB51	8	NS	8	
SESB52	ND	NS	ND		SESB77	ND	NS	ND	
SESB53	2	NS	2		SESB78	6	NS	6	
SESB54	32	2	30	Site 9	SESB79	2	NS	2	
SESB54-1	ND	NS	NS	Site 9	SESB80	ND	NS	ND	
SESB54-2	ND	NS	ND	Site 9	SESB81	ND	NS	ND	
SESB55	68	0	68	Site 9	SESB82	ND	NS	ND	
SESB55-1	ND	NS	ND	Site 9	SESB83	ND	NS	ND	

See notes at end of table.

Table 2-4 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Southeastern Trench,
February 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SESB55-2	1	NS	1	Site 9	SESB84	ND	NS	ND	
SESB55-3	1	NS	1	Site 9	SESB85	ND	NS	ND	
SESB55-4	ND	NS	ND	Site 9	SESB86	ND	NS	ND	
SESB56	ND	NS	ND	Site 9	SESB87	ND	NS	ND	
SESB57	3	NS	3	Site 9	SESB88	ND	NS	ND	
SESB58	90	1	90	Site 9	SESB89	ND	NS	ND	
SESB59	ND	NS	ND	Site 9	SESB90	ND	NS	ND	
SESB60	ND	NS	ND	Site 9	SESB91	ND	NS	ND	
SESB61	3	NS	3	Site 9	SESB92	ND	NS	ND	
SESB62	2	NS	2	Site 9	SESB93	ND	NS	ND	
SESB63	ND	NS	ND		SESB94	ND	NS	ND	
SESB64	ND	NS	ND		SESB95	ND	NS	ND	
SESB65	2	NS	2		SESB96	ND	NS	ND	
SESB66	ND	NS	ND		SESB97	2	NS	2	
SESB67	ND	NS	ND		SESB98	2	NS	2	
SESB68	1	NS	1		SESB99	ND	NS	ND	
SESB69	ND	NS	ND		SESB100	9	NS	9	Site 11
SESB70	7	NS	7		SESB101	1	NS	1	Site 11
SESB71	2	NS	2		SESB102	ND	NS	ND	Site 11
SESB72	ND	NS	ND	Site 10	SESB103	ND	NS	ND	Site 11
SESB73	3	NS	3	Site 10	SESB104	1	NS	1	Site 11
SESB74	ND	NS	ND	Site 10	SESB105	1	NS	1	
SESB75	ND	NS	ND	Site 10	SESB106	ND	NS	ND	
SESB76	1	NS	1		SESB107	ND	NS	ND	
SESB108	ND	NS	ND		SESB136	ND	NS	ND	
SESB109	4	NS	4		SESB137	ND	NS	ND	
SESB110	1	NS	1		SESB138	ND	NS	ND	
SESB111	ND	NS	ND		SESB139	ND	NS	ND	
SESB112	ND	NS	ND		SESB140	ND	NS	ND	
SESB113	ND	NS	ND		SESB141	ND	NS	ND	
SESB114	ND	NS	ND		SESB142	ND	NS	ND	
SESB115	1	NS	1		SESB143	ND	NS	ND	
SESB116	2	NS	2	Site 12	SESB144	ND	NS	ND	
SESB117	ND	NS	ND	Site 12	SESB145	ND	NS	ND	
SESB118	1	NS	1	Site 12	SESB146	ND	NS	ND	
SESB119	1	NS	1	Site 12	SESB147	ND	NS	ND	
SESB120	ND	NS	ND	Site 12	SESB148	ND	NS	ND	

See notes at end of table.

Table 2-4 (Continued)
Summary of Organic Vapor Analyzer Headspace Results, Southeastern Trench,
February 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks ²
SESB121	5	NS	5		SESB149	ND	NS	ND	
SESB122	ND	NS	ND		SESB150	ND	NS	ND	
SESB123	ND	NS	ND		SESB151	ND	NS	ND	
SESB124	ND	NS	ND		SESB152	ND	NS	ND	
SESB125	ND	NS	ND		SESB153	ND	NS	ND	
SESB126	ND	NS	ND		SESB154	ND	NS	ND	
SESB127	ND	NS	ND		SESB155	ND	NS	ND	
SESB128	ND	NS	ND		SESB156	ND	NS	ND	
SESB129	ND	NS	ND		SESB157	ND	NS	ND	
SESB130	ND	NS	ND		SESB158	ND	NS	ND	Site 13
SESB131	ND	NS	ND		SESB159	ND	NS	ND	Site 13
SESB132	ND	NS	ND		SESB160	ND	NS	ND	Site 13
SESB133	ND	NS	ND		SESB161	ND	NS	ND	Site 13
SESB134	ND	NS	ND		SESB162	ND	NS	ND	Site 13
SESB135	ND	NS	ND						

¹ The actual concentration is the difference of the unfiltered and the filtered readings. All organic vapor analyzer (OVA) readings are in parts per million.

² Sites 2 through 13 are used oil underground storage tank sites directly adjacent to the AVGAS pipeline (Site 1). OVA readings taken in the trench as it passes these sites are noted in the remarks column. Sites 1A through 1U are subsites of Site 1, the Aviation Gasoline (AVGAS) Pipeline Area.

Notes: AVGAS = Aviation Gasoline.
 ND = not detected.
 NS = not sampled.
 OVA = organic vapor analyzer.
 NI = not installed.

**Table 2-5
Summary of Organic Vapor Analyzer Headspace Results, Eastern Spur,
February 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks	Sample Location	Unfiltered Reading	Filtered Reading	Actual Reading ¹	Remarks
ESB1	ND	NS	ND		ESB9	ND	NS	ND	
ESB2	ND	NS	ND		ESB10	ND	NS	ND	
ESB3	ND	NS	ND		ESB11	1	NS	1	
ESB4	ND	NS	ND		ESB12	ND	NS	ND	
ESB5	ND	NS	ND		ESB13	ND	NS	ND	
ESB6	ND	NS	ND		ESB14	ND	NS	ND	
ESB7	ND	NS	ND		ESB15	5	NS	5	
ESB8	ND	NS	ND						

¹ The actual concentration is the difference of the unfiltered and the filtered readings. All organic vapor analyzer (OVA) readings are in parts per million.

Notes: AVGAS = Aviation Gasoline.
ND = not detected.
NS = not sampled.

Site 1A. On January 6, 1995, an area of excessively contaminated soil located between the northeast corner of the Public Works Center (PWC) environmental engineering trailer and a drainage ditch was identified during the AVGAS pipeline removal. An IRA was recommended by onsite ABB-ES personnel. Approximately 14 cubic yards of soil were removed (Figure 2-2). Excavation stopped short of the eastern side of the AVGAS pipeline because of the proximity to Industrial Road. Excessively contaminated soil on the eastern side of the excavation, however, was still present, as indicated by OVA headspace readings of 900 ppm at NSB39 and 2,500 ppm at NSB44.

In March 1995, the northern section of Industrial Road was demolished. On March 28, 1995, ABB-ES personnel were present for the continuation of the Site 1A IRA. An additional 62 cubic yards of soil were removed from the eastern side of Site 1A. Confirmatory sample locations and results are shown on Figure 2-2. Most excessively contaminated soil detected at Site 1A was removed and stockpiled offsite for disposal at an incineration facility. One small area of excessively contaminated soil 5 feet by 10 feet remains at Site 1A in the vicinity of 1AB014.

Site 1B. On January 16, 1995, OVA headspace readings of 1,699 ppm, 1,794 ppm, and 1400 ppm were detected in soil samples collected from NSB128, NSB129, and NSB132, respectively (Figure 2-3). These soil samples were located in the northern trench, on the northwest corner of the intersection of Taylor and Industrial Roads. An IRA was conducted, and approximately 22 cubic yards of soil were removed. The excessively contaminated soil in the vicinity of NSB128 was removed; however, contaminated soil in the vicinity of NSB129 was not removed due to the proximity of Taylor Road. Taylor Road could not be closed or destroyed because it served as the main route for BRAC construction supplies and equipment. Contaminated soil in the vicinity of NSB132 was not removed because of the underground electric line in that area. This electric line was damaged during excavation activities, and work could not continue in that area before or during repairs. Repairs to the electric line were not completed during the time span of the IRA at Site 1B.

In February 1995, ABB-ES advanced soil borings 1BB001 through 1BB012 to assess soil contamination remaining at Site 1B (Figure 2-3). These soil borings were placed around previously identified areas of soil contamination on the west site of the IRA excavation and around Taylor Road.

In April 1995, BRAC contractors removed Industrial Road, the concrete parking area west of Industrial Road, and parts of Taylor Road. Old utilities in the vicinity of Site 1B were removed or abandoned in place. In May 1995, a complex network of underground utilities was installed across Site 1B. The trench in which the utilities were installed was approximately 8 feet wide. The soil in this area underwent extensive reworking during the utility installation. In June 1995, ABB-ES returned to Site 1B and collected five additional confirmatory samples, 1BB013 through 1BB017, in areas previously identified as contaminated. VOC concentrations in these soil samples were below the OVA detection limit of 1 ppm. No additional soil assessment or remediation was conducted at Site 1B.

Site 1R. On January 9, 1995, a VOC concentration of 1,800 ppm was detected in the soil sample collected from NSB46. NSB46 was located in the northern trench, on the east side of the PWC environmental engineering trailer (Figure 2-1). An

IRA was conducted, and approximately 1 cubic yard of contaminated soil was removed. Confirmatory soil samples NSB61 (<1 ppm) and NSB62 (80 ppm) confirmed that the excessively contaminated soil had been removed from the Site 1R area.

Sites 1L. On February 2, 1995, a VOC concentration of 1,500 ppm was detected in the soil sample collected from SSB100. SSB100 was located along the southern trench, approximately 50 feet north of Murray Road (Figure 2-4). Due to high water table elevations (less than 1 foot bls) in this area, the soil sample collected was not representative of soil conditions in this area. Collection of unsaturated soil samples at a later date was not possible in this area due to standing water which was present after the demolition of the parking lot at Site 1L. Additionally, Site 1L is located within IR Site 23. ABB-ES was directed by the Navy not to excavate the contaminated soil in this area because it is being addressed under another contract.

Site 1U. On January 31, 1995, VOC concentrations of 2,500 ppm and 1,546 ppm were detected in the soil samples collected from SSB33 and SSB35-1, respectively (Figure 2-4). Both soil borings were located in the southern trench, approximately 340 feet south of Taylor Road. Due to high water table elevations (less than 1 foot bls), both soil samples collected were wet. Additionally, Site 1U is also located within IR Site 23. ABB-ES was directed by the Navy not to excavate the contaminated soil in this area because it is being addressed under another contract.

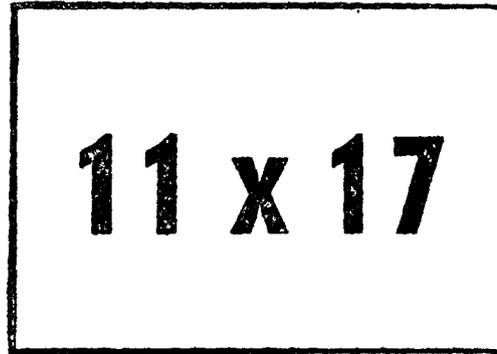
Site 1N. On February 20, 1995, a VOC concentration of 550 ppm was detected in the soil sample collected from SSB114 (Figure 2-4). SSB114 was located on the east wall of the southern trench where it crossed Murray Road. A VOC concentration of 400 ppm (SSB113) was detected on the west wall opposite SSB114. VOC concentrations less than 500 ppm (but greater than 10 ppm) were detected on the southern trench walls 10 feet north and 10 feet south of SSB114. Because Murray Road is a major four-lane thoroughfare, only soil within the 5-foot width of the trench was removed. Twenty-four cubic yards of contaminated soil were removed from the Site 1N area.

Fourteen additional areas of soil contamination (Sites 1C through 1K, and Sites 1M, 1O, 1P, 1S, and 1T) were identified by OVA headspace analysis. Contaminated soil removal at these locations was addressed during the IRA for those sites.

2.2 Groundwater Contamination Assessment

2.2.1 Monitoring Well Installation and Sampling Twenty-two temporary monitoring wells were installed at selected locations along the pipeline where excessively contaminated soil was detected or in areas where VOC concentrations detected in the soil exceeded 50 parts per billion (ppb). Figures 2-8 through 2-12 present the temporary well locations. Each temporary well location was assigned a subsite name, 1A through 1U. Thus, temporary monitoring wells were designated 1AZ001 through 1UZ001. Two temporary wells were installed at Site 1N and designated 1NZ001 and 1NZ002. Site 1Q was discussed in the Site 8 CAR Addendum (ABB-ES, November, 1995) assessed as part of Site 8 and is not discussed in this report.

Figure 2-8 Monitoring Well Location and Groundwater Contamination Distribution Map, Northern Trench



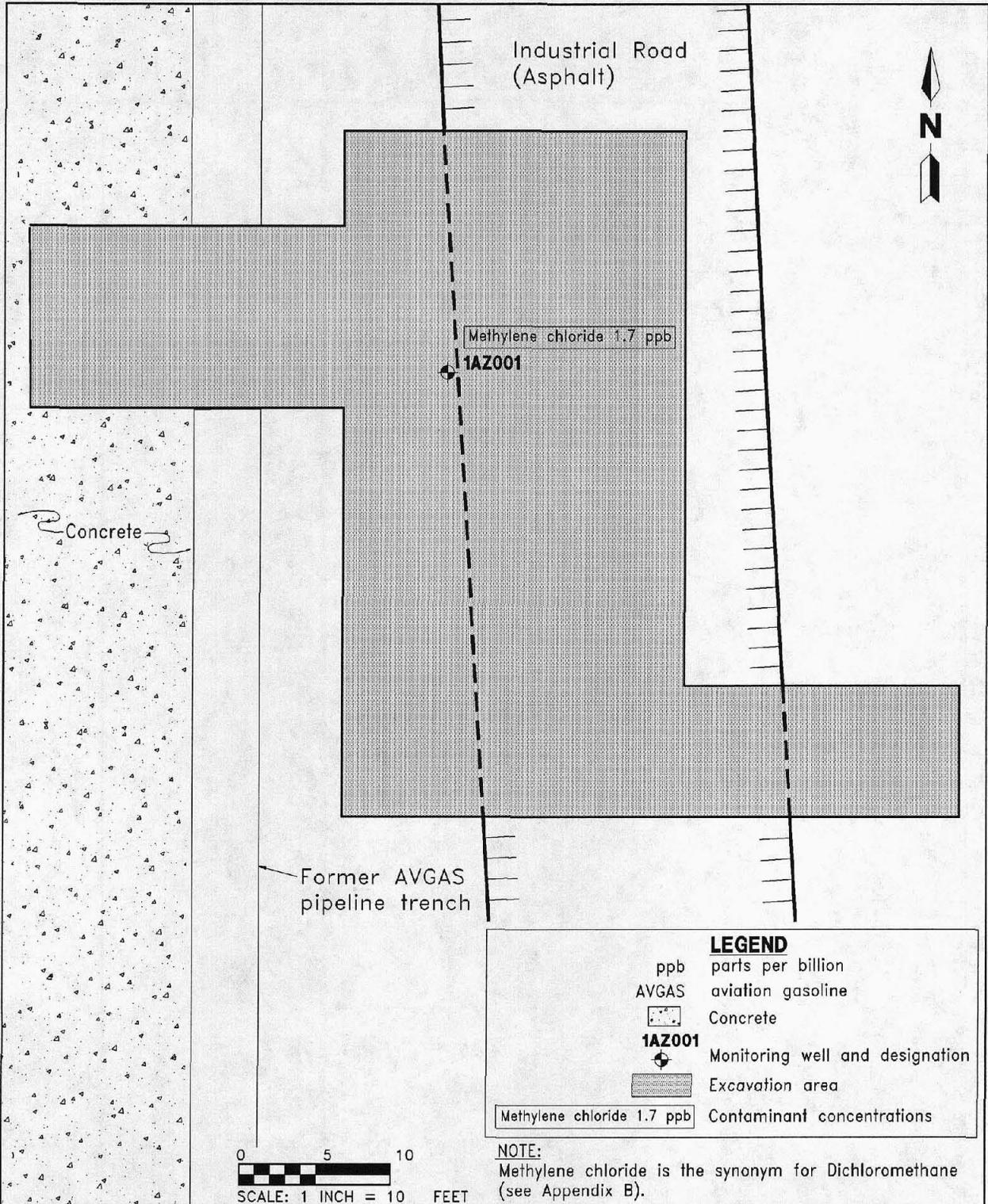
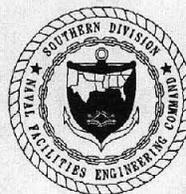


FIGURE 2-9
MONITORING WELL LOCATION
AND GROUNDWATER CONTAMINATION
DISTRIBUTION MAP, NORTHERN TRENCH



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

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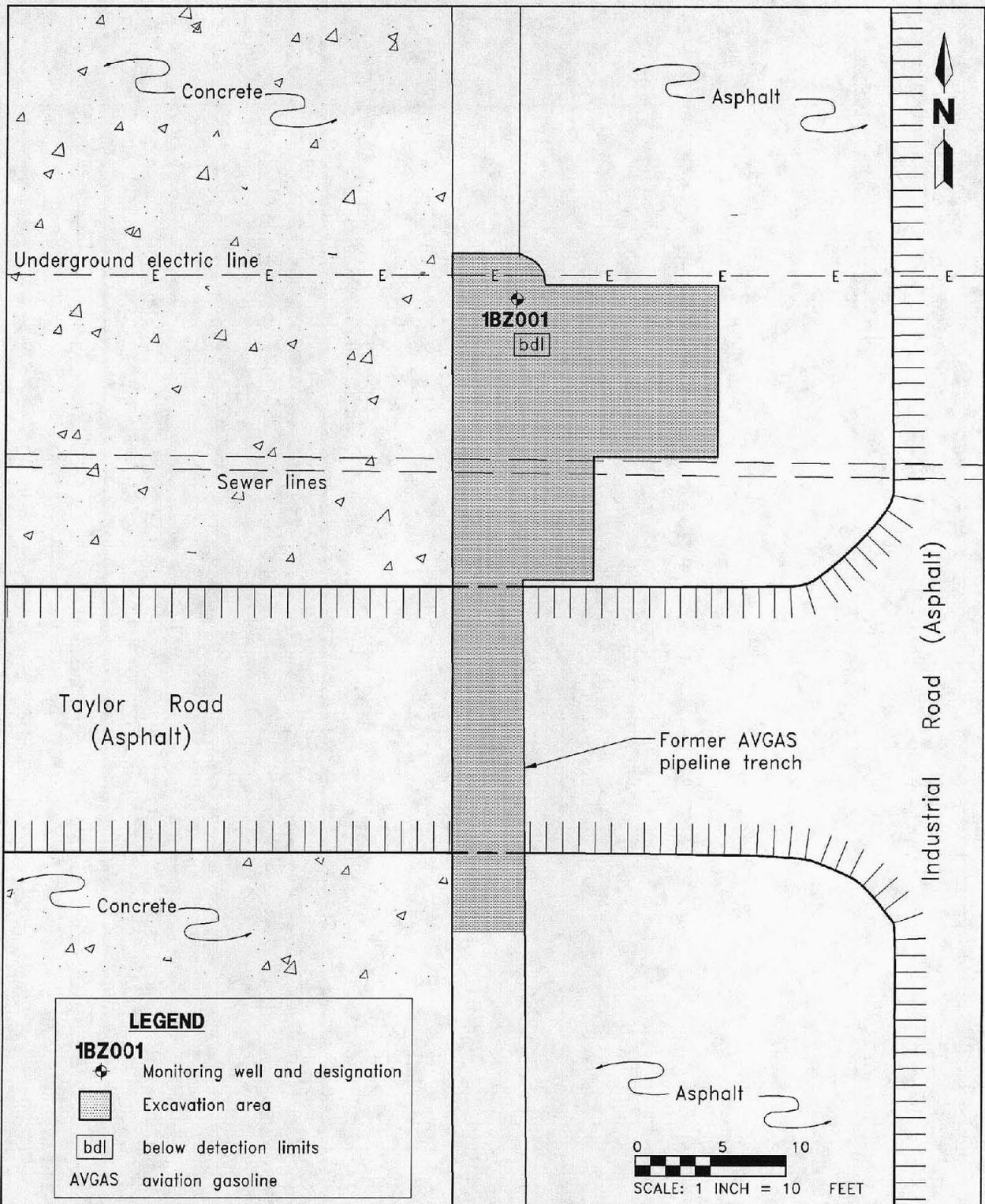


FIGURE 2-10
MONITORING WELL LOCATION
AND GROUNDWATER CONTAMINATION
DISTRIBUTION MAP, SITE 1B DETAIL



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

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Figure 2-11 Monitoring Well Location and Groundwater Contamination Distribution Map, Southern Trench

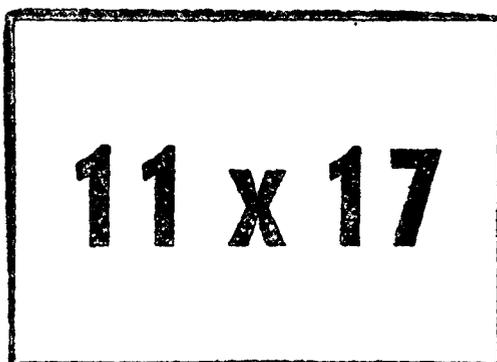
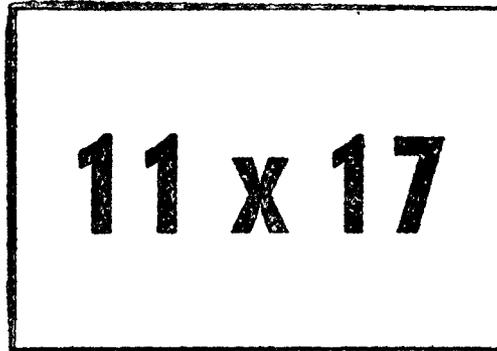


Figure 2-12 Monitoring Well Location and Groundwater Contamination Distribution
Map, Northeastern Trench



Groundwater samples were collected from temporary monitoring wells on the same day that the well was installed to ensure that an undisturbed groundwater sample was collected. Temporary monitoring wells were later replaced with permanent monitoring wells if analytical laboratory results detected petroleum compounds in the groundwater sample from that well.

Four areas of groundwater contamination were indicated by laboratory analysis of groundwater samples from the temporary monitoring wells. These areas were designated Sites 1I, 1J, 1L, and 1T. Nine permanent monitoring wells designated 1IG001 and 1JG001 through 1JG008 were installed at Sites 1I and 1J. Because Sites 1I and 1J were located 50 feet apart and were hydraulically connected, they were treated as one site, which was designated Site 1J. Figure 2-13 presents the site plan and monitoring well locations for Site 1J. One additional temporary well was installed at Site 1L to replace the original temporary well that was removed due to construction activities. This additional temporary well is shown on Figure 2-11 as 1LZ001R. No additional wells were installed at Site 1T.

Monitoring well construction details are presented in the AVGAS Pipeline Area CAR (ABB-ES, August 1995). Monitoring well logs for both temporary and permanent monitoring wells are included in Appendix A of this report.

2.2.2 Site-Specific Hydrology The elevation and slope of the water table was assessed at Site 1J. The groundwater elevation was calculated using field-surveyed top-of-casing (TOC) elevation data for each monitoring well and correlating the elevation data to a common arbitrary datum of 100 feet. Groundwater levels were measured at Site 1J on March 17, 1995. Figure 2-14 presents the water table elevation contour map and groundwater flow direction for Site 1J. Table 2-6 presents the top-of-casing elevations, total depths, and groundwater elevations for Site 1J.

No slug tests were conducted at Site 1 or Site 1J because the low levels of petroleum contamination detected at the sites met FDEP guidelines for no further action.

2.2.3 Temporary Monitoring Well Groundwater Sampling Results Table 2-7 presents a summary of the groundwater sampling results from the temporary monitoring wells installed during the pipeline removal. Figures 2-8 through 2-12 present the distribution of groundwater contaminants detected along the AVGAS pipeline. Laboratory data sheets are presented in Appendix B of this report.

The following is a summary of the groundwater sample analytical results at Sites 1A through 1U.

- Benzene and ethylene dibromide (EDB) were not detected in any of the groundwater samples collected from the temporary monitoring wells at Site 1.
- Total volatile organic aromatics (VOA) concentrations are the sum concentration of benzene, toluene, ethylbenzene, and xylenes. Total VOA concentrations were detected in 6 of 21 groundwater samples, but did not exceed the Chapter 62-770.730, FAC, target level of 50 parts ppb.

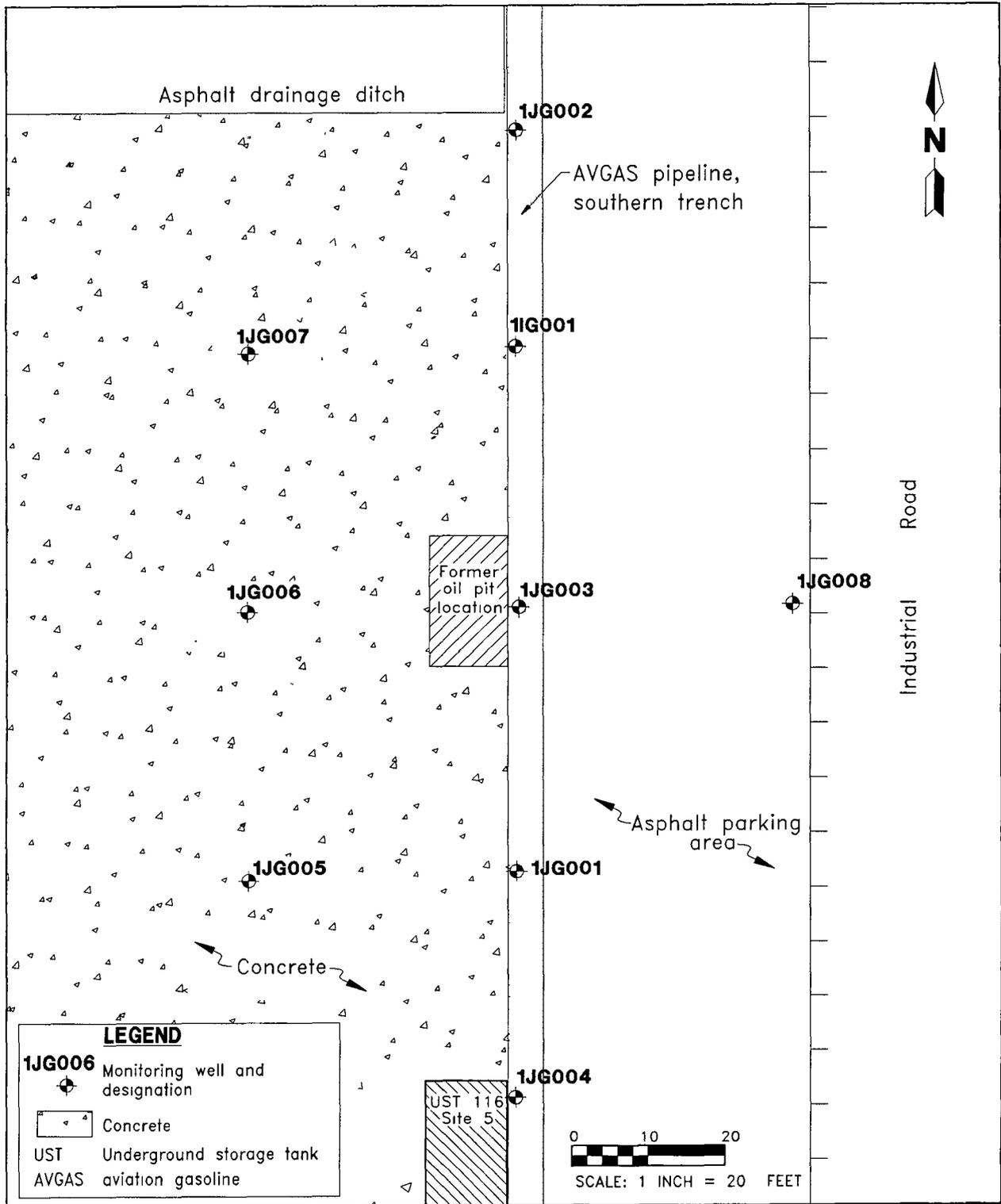


FIGURE 2-13
PERMANENT MONITORING WELL
LOCATION MAP, SITE 1J



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SITE 1, AVGAS PIPELINE

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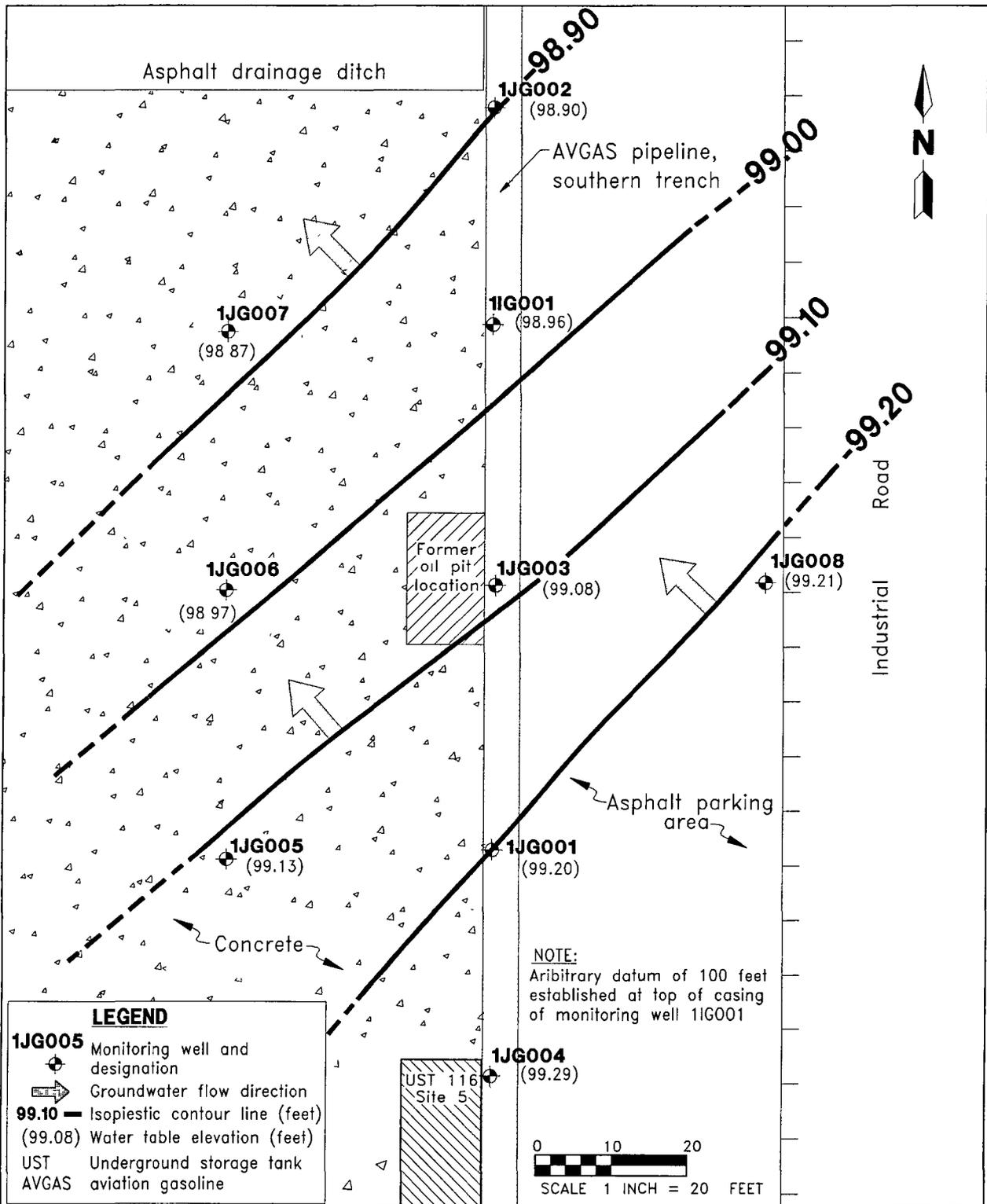
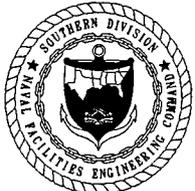


FIGURE 2-14
WATER TABLE ELEVATION
CONTOUR MAP, SITE 1J
MARCH 17, 1995



CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE

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**Table 2-6
Top-of-Casing and Groundwater Elevations, Site 1J,
March 17, 1995**

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Monitoring Well Designation	Total Depth	Top-of-Casing Elevation	Depth to Ground-water	Groundwater Elevation
1IG001	12.18	100.00	1.04	98.96
1JG001	12.10	100.28	1.08	99.20
1JG002	12.46	100.09	1.19	98.90
1JG003	12.41	100.02	0.94	99.08
1JG004	12.35	100.32	1.03	99.29
1JG005	12.40	100.87	1.74	99.13
1JG006	12.29	100.73	1.76	98.97
1JG007	12.18	100.59	1.72	98.87
1JG008	12.23	100.31	1.10	99.21

Notes: All depths and elevations are recorded in feet.
Elevations are based on an arbitrary elevation datum of 100.00 feet at the top-of-casing of monitoring well 1IG001.

AVGAS = Aviation Gasoline.

Table 2-7
Summary of Groundwater Analytical Results, Site 1 Temporary Monitoring Wells,
January through June 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Contaminant	Groundwater Sample Designation								State Target Levels ¹
	1AZ00101	1BZ00101	1CZ00101	1DZ00101	1EZ00101	1FZ00101	1GZ00101 ²	1HZ00101	
<u>Volatile Organic Aromatics (VOA). Reported in parts per billion (ppb).</u>									
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total xylenes	<1.0	<1.0	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	
Total VOA	<4.0	<4.0	<4.0	<4.0	7.1 N	<4.0	<4.0	1.5 N	50
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2400
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200
Methylene chloride ⁴	1.7 B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Ethylene dibromide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
<u>Total Recoverable Petroleum Hydrocarbons (TRPH). Reported in parts per million (ppm).</u>									
TRPH	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	1.7	2.1	5
<u>Lead. Reported in ppb.</u>									
Total lead ³	<5.0	<5.0	16.3/<5.0	118/<5.0	6000/12.5	3570/22.2	229/<5.0	148/<5.0	50
Dissolved lead	NS	NS	NS	NS	<5.0	<5.0	NS	NS	
See notes at end of table.									

Table 2-7 (Continued)
Summary of Groundwater Analytical Results, Site 1 Temporary Monitoring Wells
January through June 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Contaminant	Groundwater Sample Designation								State Target Levels ¹
	1IZ00101	1JZ00101	1KZ00101	1LZ00101	1LZ001R01	1MZ00101	1NZ00101	1NZ00201	
VOA. ppb.									
Benzene	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	<1.0	1
Toluene	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	<1.0	
Ethylbenzene	<1.0	<1.0	1.5	<1.0	NS	<1.0	<1.0	<1.0	
Total xylenes	<1.0	1.5	14	<1.0	NS	<1.0	<1.0	<1.0	
Total VOA	<4.0	1.5 N	15.5 N	<4.0	NS	<4.0	<4.0	<4.0	50
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2400
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200
Methylene chloride ⁴	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	<1.0	5
Ethylene dibromide	<0.02	<0.02	<0.02	<0.02	NS	<0.02	<0.02	<0.02	0.02
TRPH. ppm.									
TRPH	49.2	2.0	1.4	3.9	NS	<1.0	<1.0	<1.0	5
Lead. Reported in ppb.									
Total lead ³	106	291	208/<5.0	445/512	170	<5.0	<5.0	<5.0	50
Dissolved lead	NS	NS	<5.0	<5.0	NS	<5.0	NS	NS	
See notes at end of table.									

Table 2-7 (Continued)
Summary of Groundwater Analytical Results, Site 1 Temporary Monitoring Wells,
January through June 1995

Contamination Assessment Report Addendum
 Site 1, AVGAS Pipeline, Naval Aviation Depot
 Pensacola, Florida

Contaminant	Groundwater Sample Designation						State Target Levels ¹
	1OZ00101	1PZ00101 ²	1RZ00101	1SZ00101	1TZ00101	1UZ00101	
VOA. Reported in ppb.							
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total xylenes	<1.0	<1.0	<1.0	1.0	1.0	<1.0	
Total VOA	<4.0	<4.0	<4.0	1.0 N	1.0 N	<4.0	50
Chloromethane	<1.0	<1.0	<1.0	<1.0	74	<1.0	1
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	140	<1.0	2400
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	9.4	<1.0	7
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	16	<1.0	200
Methylene chloride ⁴	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
Ethylene dibromide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
TRPH. Reported in ppm.							
TRPH	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	5
Lead. Reported in ppb.							
Total lead ³	16.2	20.9	5.3	13.3	<5.0	<5.0	50

¹ Chapter 62-770.730, Florida Administrative Code (FAC) and Chapter 62-550, Tables 1 and 2, FAC.

² Concentrations listed for this sample are the highest concentrations detected in it or its duplicate sample.

³ When possible, a second groundwater sample was collected from temporary monitoring wells with high total lead concentrations. Total lead concentrations are listed in chronological order.

⁴ Methylene chloride is the synonym for dichloromethane.

Notes: AVGAS = Aviation Gasoline.

Total VOA = the sum concentration of benzene, toluene, ethylbenzene, and xylenes.

B = compound detected in method blank associated with this sample.

NS = not sampled.

N = the actual concentration may be higher than the listed value.

< = less than.

- A 1,1-Dichloroethene (DCE) concentration of 9.4 ppb was detected in the groundwater sample collected from 1TZ001. 1,1-DCE was not detected in any other groundwater sample. The Florida primary drinking water standard for 1,1-DCE is 7 ppb.
- Total recoverable petroleum hydrocarbons (TRPH) were detected in the groundwater samples collected from 8 of 21 temporary monitoring wells. The TRPH concentration detected in the groundwater samples collected from 1IZ001 was 49.2 ppm. TRPH concentrations detected in the seven groundwater samples from the other monitoring wells were below the Chapter 62-770.730, FAC, target level of 5 ppm.
- Total lead concentrations were detected in 11 of 22 groundwater samples collected from Site 1 temporary monitoring wells. Due to high turbidity levels, high lead concentrations were attributed to suspended sediment.
- Temporary monitoring wells with high total lead concentrations were resampled. Data from each sampling event at a given temporary well are provided in Table 2-7. Only the most recent data for each well are discussed in the following text.

Total lead concentrations below the Chapter 62-770.730, FAC, target level of 50 ppb were detected in the most recent groundwater samples collected from all temporary monitoring wells except 1IZ001 (106 ppb), 1JZ001 (291 ppb), and 1LZ001 (512 ppb). Monitoring wells 1IZ001 and 1JZ001 were replaced with permanent wells and resampled. The results of resampling are discussed in Section 2.2.4 of this report. 1LZ001R was installed and sampled using a low-flow sampling technique to reduce suspended sediment in samples collected from 1LZ001. A lead concentration of 170 ppb was detected in the sediment-free groundwater sample collected from 1LZ001R. Although suspended sediment in the groundwater sample was reduced, the concentration of total lead detected at Site 1L exceeded the State target level.

2.2.4 Permanent Monitoring Well Groundwater Sampling Results Nine permanent wells were installed and sampled at Site 1J to assess the horizontal extent of petroleum contamination detected in temporary wells 1IZ001 and 1JZ001. Table 2-8 presents a summary of the March 1995 groundwater sampling results at Site 1J. Figure 2-15 presents an areal distribution map of groundwater sampling results from Site 1J.

The following is a summary of the groundwater sample analytical results at Site 1J.

- Benzene and EDB were not detected in any groundwater samples collected from Site 1J monitoring wells.
- A toluene concentration of 2.7 parts per billion was detected in the groundwater sample collected from 1JG006. VOAs were not detected in any other groundwater samples collected from Site 1J.
- TRPH concentrations were below method detection limits in all the samples collected from Site 1J permanent monitoring wells.

Table 2-8
Summary of Groundwater Analytical Results, Site 1J Permanent Monitoring Wells,
March 1995

Contamination Assessment Report Addendum
Site 1, AVGAS Pipeline, Naval Aviation Depot
Pensacola, Florida

Contaminant	Groundwater Sample Designation									State Target Levels ¹
	1JG00101	1JG00101	1JG00201	1JG00301 ²	1JG00401	1JG00501	1JG00601	1JG00701	1JG00801	
<u>Volatile Organic Aromatics (VOA). Reported in parts per billion (ppb).</u>										
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total VOA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	2.7 N	<4.0	<4.0	50
Ethylene dibromide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
<u>Total Recoverable Petroleum Hydrocarbons (TRPH). Reported in parts per million (ppm).</u>										
TRPH	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5
<u>Total Lead. Reported in ppb.</u>										
Total lead ³	10.8	24.5	5.9	34.5	5.6	<5.0	22.2	5.1	18.0	50
Dissolved lead	<5.0	<5.0	NS	NS	NS	NS	<5.0	NS	<5.0	

¹ Chapter 62-770.730, Florida Administrative Code.

² A groundwater sample 1JG00301 and a duplicate sample 1JG00301D were collected at this location. The highest concentration from either sample is reported in this table.

³ The total lead concentration detected in the equipment blank was 6.3 ppb.

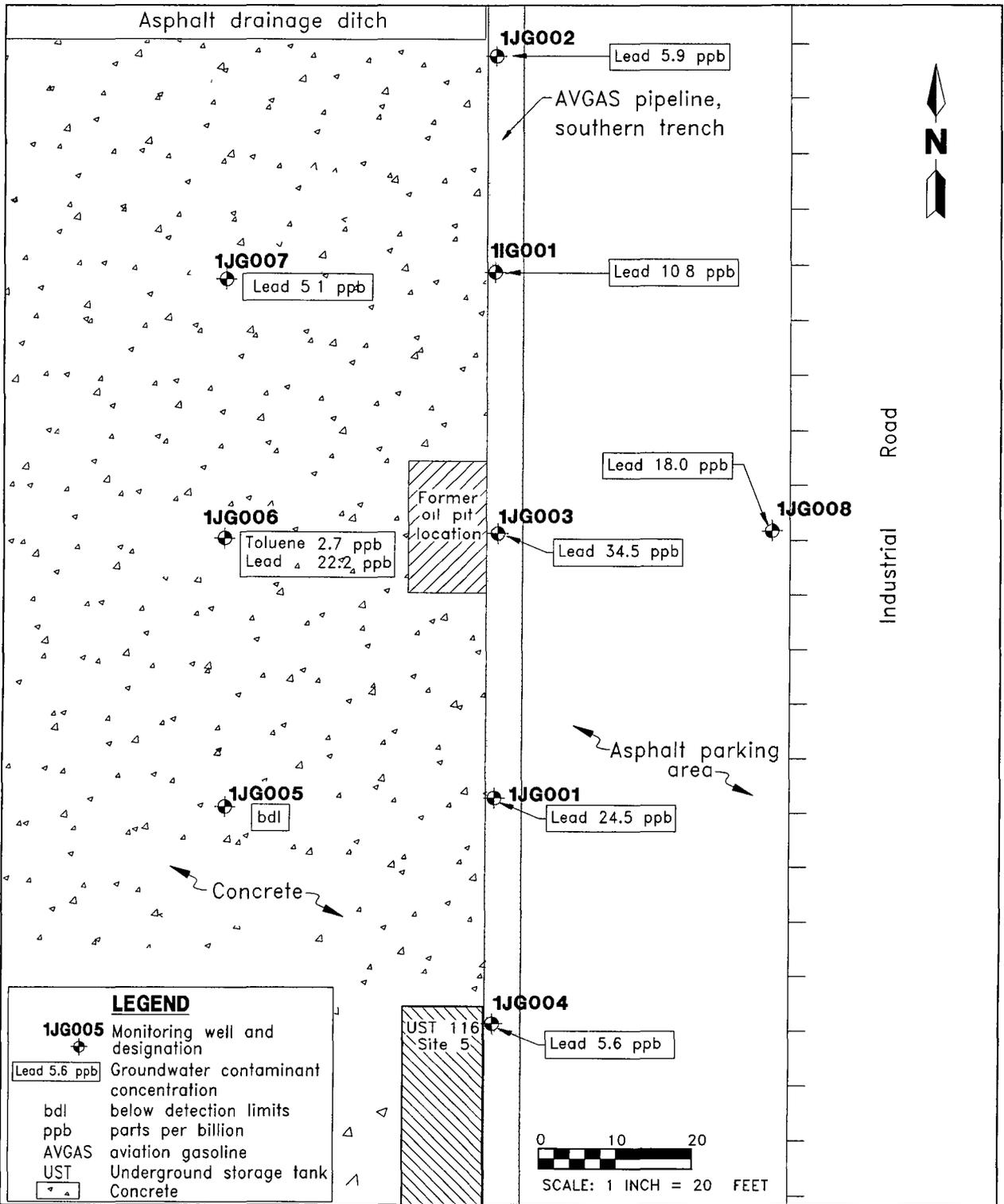
Notes: AVGAS = Aviation Gasoline.

Total VOA = the sum concentration of benzene, toluene, ethylbenzene, and xylenes.

NS = not sampled.

< = less than.

N = the actual concentration may be higher than the listed value.



**FIGURE 2-15
GROUNDWATER CONTAMINATION
DISTRIBUTION MAP SITE 1J
MARCH 1995**



**CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 1, AVGAS PIPELINE
NAVAL AVIATION DEPOT
PENSACOLA, FLORIDA**

H:\9595\191100\CCK-NP\12-20-95

- Total lead was detected in eight of nine groundwater samples collected from Site 1J. Total lead concentrations detected did not exceed the Chapter 62-770.730, FAC, target level of 50 ppb.

3.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

3.1 SUMMARY. Based on the findings of the CA field investigations and laboratory analytical results, the following is a summary of existing conditions at the site.

Soil Contamination Assessment Summary. A total of 686 soil borings were advanced along the length of the AVGAS pipeline as it was removed. Excessively contaminated soil was initially identified at six locations: Site 1A, 1B, 1R, 1L, 1U, and 1N.

- All excessively contaminated soil was removed from Sites 1A and 1R.
- Although excessively contaminated soil was not excavated due to the presence of utilities and major roadways at Site 1B, BRAC demolition and construction at the site caused extensive reworking and mixing of contaminated and uncontaminated soil. Confirmatory soil samples collected from Site 1B subsequent to the soil reworking indicated no excessively contaminated soil at the site.
- Soil samples collected from Sites 1L and 1U were wet as a result of seasonally high water table conditions and are not representative of soil contamination in the unsaturated zone. Additionally, both sites were within the boundaries of IR Site 23, where soil contamination will be assessed by another contractor.
- Excessively contaminated soil on the north, south, and west sides of Site 1N excavation was removed. Excessively contaminated soil on the east side of Site 1N was not removed because it lies beneath an active major thoroughfare.
- Contaminated soil removed from Site 1 was stockpiled offsite until the AVGAS pipeline removal was completed. Stockpiled soil was then transported to an incineration facility for thermal treatment and disposal.

Groundwater Contamination Assessment Summary. Twenty-three temporary monitoring wells were installed along the length of the former AVGAS pipeline. Four potentially contaminated areas (Sites 1I, 1J, 1L, and 1T) were identified from the temporary well groundwater sampling results.

- Nine permanent monitoring wells were installed at Site 1J (including Site 1I) and sampled for the Gasoline Analytical Group. Groundwater sampling results revealed that petroleum contamination at Site 1J was below Chapter 62-770.730, FAC, target levels.
- Lead concentrations exceeding the Chapter 62-770.730, FAC, target level of 50 ppm were detected in both of the temporary wells at Site 1L. Due to construction and standing water at the site, no additional wells were installed. No other contaminants detected in these monitoring wells exceeded State target levels listed in Chapter 62-770.730, FAC.

- The 1,1-DCE concentration of 9.4 ppb detected in the temporary well installed at Site 1T exceeds the State drinking water standard of 7 ppb. No other contaminants detected in this monitoring well exceeded State target levels listed in Chapter 62-770.730, FAC.

3.2 CONCLUSIONS. Based on the findings of the CA and site conditions, the following can be concluded.

- Excessively contaminated soil has been removed from all locations except Site 1N. Excessively contaminated soil at Site 1N is capped beneath an asphalt road, and laboratory analytical results indicate the groundwater in that area has not been affected.
- Petroleum contamination exceeding State target levels listed in Chapter 62-770.730, FAC, was not detected in the groundwater at any Site 1 subsites except Site 1L and 1T.
- Site 1L groundwater sampling results indicate lead contamination as the only petroleum constituent exceeding Chapter 62-770.730, FAC, target levels. Excavation conducted by the BRAC contractor, Hyman Construction, Inc. (HCI), in the Site 1L vicinity revealed evidence of a former disposal area northwest of Site 1L and lead and mercury contamination in the soil of that area (personal communication, HCI, June 1995). Following completion of the BRAC construction, Site 1L will require further investigation to assess the extent and source of the lead contamination.
- The 1,1-DCE concentration at Site 1T only slightly exceeds the Chapter 62-550, FAC, drinking water standard. Because 1,1-DCE is a chlorinated solvent and not a petroleum constituent, the AVGAS pipeline is an unlikely source of this contaminant. It is possible that the solvent contamination is associated with the drainage ditch where Site 1T is located. The drainage ditch network west of Site 1 is an IR site.

3.3 RECOMMENDATIONS. Based on the findings, conclusions, and interpretations of the Site 1 CA, ABB-ES recommends a No Further Action proposal for Site 1, the AVGAS Pipeline Area, with the exception of Site 1L. Following the completion of BRAC construction in the Chevalier Field area, ABB-ES recommends further investigation of Site 1L as part of the investigation of the former disposal area to the northwest.

4.0 PROFESSIONAL REVIEW CERTIFICATION

This contamination assessment report was prepared under the supervision of a professional geologist registered in Florida using sound hydrogeologic principles and judgment. 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 CAR was developed for Site 2662W and the contamination plume in the vicinity of Building 3380 at NADEP, Naval Air Station, Pensacola, Florida, and should not be construed to apply to any other site.



Michael J. Williams
Professional Geologist
P.G. No. 344

12/22/95
Date



REFERENCES

ABB Environmental Services Inc., 1995, AVGAS Area Pipeline Contamination Assessment Report, August.

Florida Department of Environmental Regulation (FDER), 1989, Groundwater Guidance Concentrations, compiled by R. Merchant, Division of Water Facilities, February.

FDER, 1991, Guidelines for assessment and Remediation of Petroleum Contaminated Soils, Division of Waste Management, February.

FDER, 1992, Guidelines for Assessment and Remediation of Petroleum Contaminated Soils, revised: Division of Waste Management, May.

Florida Department of Transportation, 1982, Florida official transportation map.

Watts, G.B., 1989, Groundwater Monitoring Parameters and Pollution Sources, 3rd edition, Bureau of Waste Cleanup, FDER.

APPENDIX A
MONITORING WELL LOGS

TITLE: NADEP Pensacola		LOG of WELL: 1AZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 6/6/95	COMPLTD: 6/6/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 1-11'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 11FT.	DPTH TO ∇ 2.5 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 6/6/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Fill mixed with asphalt.		FILL		
					Fill mixed with asphalt, more sand and clay than asphalt.				
5					SAND: Very dark gray, very fine- to fine-grained, 10-15% silt, poorly sorted.		SP		
10									
15									

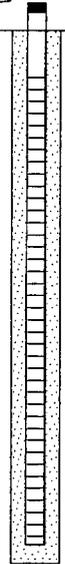
TITLE: NADEP Pensacola		LOG of WELL: 1BZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 6/15/95	COMPLTD: 6/15/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 0-8'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 8 FT.	DPTH TO ∇ 1.75 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 6/15/95		SITE: Site 1

DEPTH F.T.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND: Grayish brown, very fine- to fine-grained, silty.		SM		
					FILL: Red sandy clay.				
					SILTY SAND: Black, organic, very fine- to fine-grained, 40% silt.		SM		
5									
10									
15									

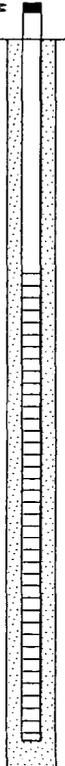
TITLE: NADEP Pensacola		LOG of WELL: 1CZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 6/6/95	COMPLTD: 6/6/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 1-11'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 8 FT.	DPTH TO ∇ 3 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 6/6/95		SITE: Site 1

DEPTH F.T.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY.	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					FILL		FILL		
					SAND AND ASPHALT				
5					SAND: Very light to medium gray, very fine- to fine-grained, moderately sorted.		SP		
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: 1DZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 1/18/95	COMPLTD: 1/18/95
METHOD: Excavator	CASE SIZE: 2 inches	SCREEN INT.: 0-5.5'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 5.5FT.	DPTH TO ∇ 3.5 FT.
LOGGED BY: D. Meyers	WELL DEVELOPMENT DATE: 1/18/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Concrete.		SP		
					SAND: Light gray mixed with dark yellowish orange, fine- to very fine-grained, moderately sorted, dry.				
5					SAND: Light to medium gray, fine-grained, well sorted, dry to saturated.				
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: IEZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/17/95	COMPLTD: 2/17/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.2-7.5'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7.5FT.	DPTH TO ∇ 4.37 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/17/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Crushed limestone.		FILL		
					SAND: Grayish brown, fine-grained, well sorted, wet.		SP		
5									
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: 1FZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/17/95	COMPLTD: 2/17/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-7'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7FT.	DPTH TO ∇ 3.75 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/17/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Crushed limestone.				
					FILL: Red clayey sand.				
5					SAND: Light grayish brown, fine-grained, well sorted, wet.		SP		
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: 1GZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-7'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7FT.	DPTH TO ∇ 2 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Crushed limestone.		FILL		
					FILL: Red clayey sand.				
5					SAND: Light grayish brown, fine-grained, well sorted, wet.		SP		
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: IHZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-7.4'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7.31FT.	DPTH TO ∇ 1.43 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1

DEPTH F.T.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Crushed limestone.				
					FILL: Red clayey sand.				
5					SAND: Light grayish brown, fine-grained, well sorted, wet.		SP		
10									
15									

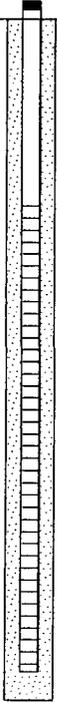
TITLE: NADEP Pensacola		LOG of WELL: 11Z001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 1/31/95	COMPLTD: 1/31/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 0-4'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 4FT.	DPTH TO ∇ 1 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 1/31/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					Crushed limestone.		FILL		
					FILL: Red clayey sand.		SM		
10					SILTY SAND: Medium gray, very fine- to fine-grained, 20-25% silt, 5% clay, organic.				
15									

TITLE: NADEP Pensacola		LOG of WELL: 1JZ001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 1/31/95	COMPLTD: 1/31/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 0-4'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 4FT.	DPTH TO ∇ 1 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 1/31/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					Crushed limestone.		FILL		
					FILL: Red clayey sand.				
10					SILTY SAND: Very pale orange becoming medium gray, very fine- to fine-grained, 10% silt, moderately to poorly sorted, organic odor.		SW		
15									

TITLE: NADEP Pensacola		LOG of WELL: 1LZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/15/95	COMPLTD: 2/15/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-7'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7FT.	DPTH TO ∇ 2 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/15/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND: Brownish gray, very fine- to fine-grained, moderately sorted.		SP		
					SILTY SAND: Black, very fine-grained, 40% silt, poorly sorted, bricks, roots, copper chunks.		SM		
5									
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: IIG001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/15/95	COMPLTD: 2/15/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-12'	PROTECTION LEVEL: D
TOC ELEV.: 100.00× FT.	MONITOR INST.: OVA	TOT DPTH: 12.18FT.	DPTH TO ∇ 1.04 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/15/95		SITE: Site IJ

DEPTH F.T.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					FILL: crushed limestone.		FILL		
					FILL: Red sandy clay.				
10					SAND: 20 to 25% silt, 5% clay, very fine to fine, very poor sort, organic, medium gray.		SM		
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG001	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/15/95	COMPLTD: 2/15/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-12'	PROTECTION LEVEL: D
TOC ELEV.: 100.28* FT.	MONITOR INST.: OVA	TOT DPTH: 12.10 FT.	DPTH TO ∇ 1.08 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/15/95		SITE: Site 1J

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					FILL: crushed limestone.		FILL		
					FILL: Red sandy clay.				
10					SAND: Very fine to fine grained, 10% silt, moderate to poor sort, very pale orange becoming medium gray, organic odor.		SM		
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG002	BORING NO.
CLIENT: SOUTHNAVFACENCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.4-12.4'	PROTECTION LEVEL: D
TOC ELEV.: 100.09* FT.	MONITOR INST.: OVA	TOT DPTH: 12.46FT.	DPTH TO ∇ : 1.19 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1J

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					FILL: Crushed limestone.		FILL		
					FILL: Red sandy clay.		SP		
					SAND: Very fine to fine, trace silt, moderately sorted, wet mottled gray and dark gray.				
5					SAND: Very fine to fine, trace medium, poorly sorted, damp to wet.				
10									
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG003	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.4-12.4'	PROTECTION LEVEL: D
TOC ELEV.: 100.02* FT.	MONITOR INST.: OVA	TOT DPTH: 12.41FT.	DPTH TO ∇ 0.94 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1J

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					FILL: Crushed limestone.		FILL		
					FILL: Red sandy clay.				
					SAND: Very fine to fine, trace medium, trace silt, assorted asphalt chunks, poor sort, damp to wet.		SP		
5					SAND: Very fine to fine, trace medium, moderately sorted, dark gray.				
10									
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG004	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.3-12.3'	PROTECTION LEVEL: D
TOC ELEV.: 100.32 FT.	MONITOR INST.: OVA	TOT DPTH: 12.35FT.	DPTH TO ∇ 1.03 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1J

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					FILL: Crushed limestone.		FILL		
					FILL: Red sandy clay.				
10					SAND: Very fine to fine, trace medium, 5% silt, poorly sorted, saturated, brownish gray to dark gray.		SM		
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: IJG005	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.4-12.4'	PROTECTION LEVEL: D
TOC ELEV.: 100.87* FT.	MONITOR INST.: OVA	TOT DPTH: 12.41FT.	DPTH TO ∇ 1.74 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site IJ

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Concrete.		SP		
					SAND: Very fine to fine, moderately sorted, dry to wet, mottled very pale orange and reddish brown.				
5					SAND: Very fine to fine, 10% silt, trace medium, poorly sorted, light brownish gray to dark gray, saturated.		SM		
10									
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG006	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.3-12.3'	PROTECTION LEVEL: D
TOC ELEV.: 100.73* FT.	MONITOR INST.: OVA	TOT DPTH: 12.29FT.	DPTH TO ∇ 1.76 FT.
LOGGED BY: J. Ullb	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1J

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					Concrete.		SP		
					SAND: Very fine to fine, moderately to well sorted, dry to wet, reddish brown becoming very pale orange.				
10					SILTY SAND: Very fine to fine, 15% silt, saturated, grayish brown to dark gray.		SM		
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: IJG007	BORING NO.
CLIENT: SOUTHNAVFACENCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-12'	PROTECTION LEVEL: D
TOC ELEV.: 100.59* FT.	MONITOR INST.: OVA	TOT DPTH: 12.18FT.	DPTH TO ∇ 1.72 FT.
LOGGED BY: J. Ullo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site IJ

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5					Concrete.		SP		
					SAND: Very fine to fine, moderately sorted, dry to wet, mottled brown with orange brown becoming mottled brown with orange brown with very light gray.				
10					SAND: Very fine to fine, 10% silt, trace medium, poorly sorted grayish-brown, saturated.		SM		
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1JG008	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-12'	PROTECTION LEVEL: D
TOC ELEV.: 100.31* FT.	MONITOR INST.: OVA	TOT DPTH: 12.23FT.	DPTH TO ∇ 1.10 FT.
LOGGED BY: J. Uilo	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1J

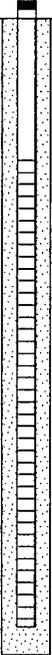
DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Asphalt.				
					SAND: Very fine to fine, trace medium, moderately sorted, damp, dark yellowish orange.		SP		
					SAND: Fine, well sorted, wet, light gray.				
					SAND: Very fine to fine, moderately sorted, trace silt, saturated, grayish brown, organic odor.				
5					SAND: Very fine to fine, moderately sorted, increasing silt, saturated, grayish brown, organic odor.		SM		
10									
15									
20									

* TOC elevation based on an arbitrarily selected elevation.

TITLE: NADEP Pensacola		LOG of WELL: 1KZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/16/95	COMPLTD: 2/16/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 0-7.4'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7.38FT.	DPTH TO ∇ 1.78 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 2/16/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Concrete.				
					SAND: Dark yellowish orange to pale yellowish brown, fine-grained, moderate sorting with some pebbles, wet.		SW		
					SAND: Grayish orange to dark yellowish orange, fine-grained, well sorted, wet, no petroleum odor.		SP		
5									
10									
15									

TITLE: NADEP Pensacola		LOG of WELL: 1LZ001R	BORING NO.
CLIENT: SOUTHNAVFACENGCOM			PROJECT NO: 7527-34
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 6/7/95	COMPLTD: 6/7/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 1.5-6.5'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 6.5FT.	DPTH TO ∇ 0.5 FT.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 6/7/95		SITE: Site 1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND: Brownish gray, very fine- to fine-grained, moderatley sorted.		SP		
					SILTY SAND: Black, very fine-grained, 40% silt, bricks, roots, copper chunks, poorly sorted, met refusal at 6.5.		SM		
5									
10									
15									

TITLE: NADEP Pensacola		LOG of WELL. 1MZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-34	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 2/13/95	COMPLTD: 2/13/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2.1-7.1'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 7 18FT	DPTH TO ∇ 4 58 FT
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 2/13/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				Gravel fill	\wedge \vee \wedge	FILL		
				SAND Very pale orange, very fine- to fine-grained, moderately sorted, damp to saturated	\wedge \vee \wedge	SP		
5								
10								
15								

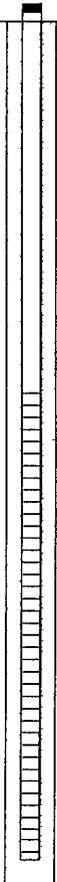
TITLE: NADEP Pensacola		LOG of WELL: INZ001	BORING NO.
CLIENT. SOUTHNAVFACENGCOM		PROJECT NO. 7527-34	
CONTRACTOR. Groundwater Protection Inc		DATE STARTED: 3/15/95	COMPLTD: 3/15/95
METHOD: 3 25" ID HSA	CASE SIZE. 2 inches	SCREEN INT.: 4-9'	PROTECTION LEVEL: D
TOC ELEV.: NM FT	MONITOR INST.: OVA	TOT DPTH. 9FT.	DPTH TO ∇ 4.5 FT.
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE. 3/15/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5				Clayey sand		SC		
				SAND: Black to brownish gray, very fine- to fine-grained, 10% silt and clay, poorly sorted, organic odor, wet		SP		
10								
15								

TITLE: NADEP Pensacola		LOG of WELL: 1NZ002	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-34	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 3/15/95	COMPLTD. 3/15/95
METHOD: 3 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 4-9'	PROTECTION LEVEL: D
TOC ELEV.: NM FT.	MONITOR INST.: OVA	TOT DPTH: 9FT.	DPTH TO ∇ ~4.5 FT
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 3/15/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				SAND Moderate reddish brown to brownish gray, very fine- to fine- grained, 10% clay decreasing with depth, dry to damp		SP		
5				SAND Grayish brown, very fine- to fine-grained, moderately sorted, wet				
10								
15								

TITLE: NADEP Pensacola		LOG of WELL: 10Z001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 2/14/95	COMPLTD: 2/14/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 4-9'	PROTECTION LEVEL: D
TOC ELEV.. NM FT	MONITOR INST.: OVA	TOT DPTH: 9FT.	DPTH TO ∇ 4 FT.
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 2/14/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5				FILL/SILTY SAND: Very dark gray, very fine- to fine-grained, 30% black silt, dry		SM		
				Asphalt		SP		
				SAND: Brownish gray, very fine- to fine-grained, moderately sorted, damp to saturated				
10								
15								

TITLE: NADEP Pensacola		LOG of WELL: 1PZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/14/95	COMPLTD: 2/14/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 4-9'	PROTECTION LEVEL: D
TOC ELEV.. NM FT.	MONITOR INST.: OVA	TOT DPTH: 9FT	DPTH TO ∇ 4 FT ?
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 2/14/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL/SILTY SAND Very dark gray, very fine- to fine-grained, 30% black silt, dry		SM		
				Asphalt		SP		
				SAND Brownish gray, very fine- to fine-grained, moderately sorted, damp to saturated				
5								
10								
15								

TITLE: NADEP Pensacola		LOG of WELL: 1RZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 2/17/95	COMPLTD: 2/17/95
METHOD: 3 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 2-7'	PROTECTION LEVEL: D
TOC ELEV.: NM FT	MONITOR INST.: OVA	TOT DPTH: 7 16FT	DPTH TO ∇ 1 61 FT
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 2/17/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				Crushed limestone		FILL		
				FILL: Red sandy clay		SP		
				SAND Pale yellowish brown, very fine- to fine-grained, moderately sorted, damp to wet				
5								
10								
15								

TITLE: NADEP Pensacola		LOG of WELL: 1SZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-34	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 3/15/95	COMPLTD: 3/15/95
METHOD: 3.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 0-9'	PROTECTION LEVEL: D
TOC ELEV.: NM FT	MONITOR INST.: OVA	TOT DPTH: 9FT	DPTH TO ∇ 1.5 FT
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 3/15/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				Crushed rock				
				FILL: Red clayey sand				
				SAND Dark gray, fine-grained sand mixed with asphalt, wet				
5				SAND Dark brownish gray, very fine- to fine-grained, 10% silt, poorly sorted, wet		SP		
10								
15								

TITLE. NADEP Pensacola		LOG of WELL: 1TZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-34	
CONTRACTOR. Groundwater Protection Inc		DATE STARTED. 3/15/95	COMPLTD: 3/15/95
METHOD: 3.25" ID HSA	CASE SIZE. 2 inches	SCREEN INT.: 4-9'	PROTECTION LEVEL: D
TOC ELEV.: NM FT	MONITOR INST.. OVA	TOT DPTH: 9FT	DPTH TO ∇ 2 FT.
LOGGED BY. P. Wagner	WELL DEVELOPMENT DATE: 3/15/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5				Crushed rock		FILL		
				FILL Red clayey sand		FILL		
				SAND Brownish gray, fine-grained sand mixed with chunks of asphalt, well sorted, wet		FILL		
				SAND As above, no asphalt		SP		

TITLE: NADEP Pensacola		LOG of WELL: 1UZ001	BORING NO.
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-34	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 3/15/95	COMPLTD: 3/15/95
METHOD: 3 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.. 0-9'	PROTECTION LEVEL: D
TOC ELEV.. NM FT	MONITOR INST.: OVA	TOT DPTH: 9FT.	DPTH TO ∇ 1 FT
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 3/15/95		SITE: Site 1

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				Crushed rock		FILL		
				FILL Red clayey sand				
				SAND Light gray to medium gray, fine-grained, well sorted, wet		SP		
5				SILTY SAND Black to very dark gray, very fine- to fine-grained, 20% silt, poorly sorted, organic		SM		
10								
15								

APPENDIX B
LABORATORY ANALYTICAL DATA

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5F0901050		B5F1901060		B5A1900430		B5F1901060		
Site	NADEP AVGAS		NADEP AVGAS		NADEP-1		NADEP AVGAS		
Locator	1A200101		1B200101		1C200101		1C200102		
Collect Date:	08-JUN-95		15-JUN-95		18-JAN-95		15-JUN-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602												
Chloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Dichloromethane	1.7 B	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Chloroform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Bromoform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Benzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Toluene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-		
601 mod.												
Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	.02 U	ug/l	.02	-		
METALS												
Lead	5 U	ug/l	5	5 U	ug/l	5	16.3	ug/l	5	5 U	ug/l	5
TRPH												
Total Petroleum Hydrocarbons	1 U	mg/l	1	1 U	mg/l	1	1 U	mg/l	1	-		

U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5A1900430	B580600440	B5A2400380	B582000040							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1DZ00101	1DZ00102	1EZ00101	1EZ00102							
Collect Date:	18-JAN-95	03-FEB-95	23-JAN-95	17-FEB-95							
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

EPA 601/602

Chloromethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Bromomethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Dichlorodifluoromethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Vinyl chloride	1 U	ug/t	1	-	1 U	ug/t	1	-
Chloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Dichloromethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Trichlorofluoromethane	1 U	ug/t	1	-	1 U	ug/t	1	-
1,1-Dichloroethene	1 U	ug/t	1	-	1 U	ug/t	1	-
1,1-Dichloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
trans-1,2-Dichloroethene	1 U	ug/t	1	-	1 U	ug/t	1	-
Chloroform	1 U	ug/t	1	-	1 U	ug/t	1	-
1,2-Dichloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
1,1,1-Trichloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Carbon tetrachloride	1 U	ug/t	1	-	1 U	ug/t	1	-
1,2-Dichloropropane	1 U	ug/t	1	-	1 U	ug/t	1	-
cis-1,3-Dichloropropene	1 U	ug/t	1	-	1 U	ug/t	1	-
Trichloroethene	1 U	ug/t	1	-	1 U	ug/t	1	-
Dibromochloromethane	1 U	ug/t	1	-	1 U	ug/t	1	-
1,1,2-Trichloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
trans-1,3-Dichloropropene	1 U	ug/t	1	-	1 U	ug/t	1	-
Bromoform	1 U	ug/t	1	-	1 U	ug/t	1	-
1,1,2,2-Tetrachloroethane	1 U	ug/t	1	-	1 U	ug/t	1	-
Tetrachloroethene	1 U	ug/t	1	-	1 U	ug/t	1	-
Chlorobenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
1,3-Dichlorobenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
1,2-Dichlorobenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
1,4-Dichlorobenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
Methyl tert-butyl ether	1 U	ug/t	1	-	1 U	ug/t	1	-
Benzene	1 U	ug/t	1	-	1 U	ug/t	1	-
Toluene	1 U	ug/t	1	-	1 U	ug/t	1	-
Chlorobenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
Ethylbenzene	1 U	ug/t	1	-	1 U	ug/t	1	-
Xylenes (total)	1 U	ug/t	1	-	7.1	ug/t	1	-

601 mod.

Ethylene Dibromide	.02 U	ug/t	.02	-	.02 U	ug/t	.02	-
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METALS

Lead	118	ug/l	5	5 U	ug/l	5	6000	ug/l	5	12.5	ug/l	5
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TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5A1900430	B580600440	B5A2400380	B582000040					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1DZ00101	1DZ00102	1EZ00101	1EZ00102					
Collect Date:	18-JAN-95	03-FEB-95	23-JAN-95	17-FEB-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	mg/l	1	-	2.8	mg/t	1	-
------------------------------	-----	------	---	---	-----	------	---	---

U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:
Site
Locator
Collect Date:

B5A2600530
NADEP-1
1FZ00101
25-JAN-95

B5B2000040
NADEP-1
1FZ00102
17-FEB-95

B5B0200040
NADEP-1
1GZ00101
30-JAN-95

B5B0200040
NADEP-1
1GZ00101D
30-JAN-95

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

EPA 601/602

Chloromethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Chloroform	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Bromoform	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Benzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Toluene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	-		1 U	ug/l	1	1 U	ug/l	1

601 mod.											
Ethylene Dibromide	.02 U	ug/l	.02	-		.02 U	ug/l	.02	.02 U	ug/l	.02

METALS												
Lead	3570	ug/l	5	22.2	ug/l	5	164	ug/l	5	229	ug/l	5

TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5A2600530	B5B2000040	B5B2000040	B5B2000040	B5B2000040						
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1	NADEP-1						
Locator	1FZ00101	1FZ00102	1GZ00101	1GZ00101	1GZ00101D						
Collect Date:	25-JAN-95	17-FEB-95	30-JAN-95	30-JAN-95	30-JAN-95						
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

Total Petroleum Hydrocarbons	1	U	mg/l	1	-			1.7	mg/l	1	1.7	mg/l	1
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B582300490	B580200040	B582000040	B580200040							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1G200102	1H200101	1H200102	1I200101							
Collect Date:	22-FEB-95	31-JAN-95	16-FEB-95	31-JAN-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602

Chloromethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Bromomethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Dichlorodifluoromethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Vinyl chloride	-		1 U	ug/l	1	-			1 U	ug/l	1
Chloroethane	+		1 U	ug/l	1	+			1 U	ug/l	1
Dichloromethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Trichlorofluoromethane	-		1 U	ug/l	1	-			1 U	ug/l	1
1,1-Dichloroethene	-		1 U	ug/l	1	-			1 U	ug/l	1
1,1-Dichloroethane	-		1 U	ug/l	1	-			1 U	ug/l	1
trans-1,2-Dichloroethene	-		1 U	ug/l	1	-			1 U	ug/l	1
Chloroform	-		1 U	ug/l	1	+			1 U	ug/l	1
1,2-Dichloroethane	+		1 U	ug/l	1	+			1 U	ug/l	1
1,1,1-Trichloroethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Carbon tetrachloride	-		1 U	ug/l	1	-			1 U	ug/l	1
1,2-Dichloropropane	-		1 U	ug/l	1	-			1 U	ug/l	1
cis-1,3-Dichloropropene	-		1 U	ug/l	1	-			1 U	ug/l	1
Trichloroethene	+		1 U	ug/l	1	+			1 U	ug/l	1
Dibromochloromethane	+		1 U	ug/l	1	+			1 U	ug/l	1
1,1,2-Trichloroethane	-		1 U	ug/l	1	-			1 U	ug/l	1
trans-1,3-Dichloropropene	-		1 U	ug/l	1	-			1 U	ug/l	1
Bromoform	-		1 U	ug/l	1	-			1 U	ug/l	1
1,1,2,2-Tetrachloroethane	-		1 U	ug/l	1	-			1 U	ug/l	1
Tetrachloroethene	-		1 U	ug/l	1	+			1 U	ug/l	1
Chlorobenzene	-		1 U	ug/l	1	+			1 U	ug/l	1
1,3-Dichlorobenzene	-		1 U	ug/l	1	-			1 U	ug/l	1
1,2-Dichlorobenzene	-		1 U	ug/l	1	-			1 U	ug/l	1
1,4-Dichlorobenzene	-		1 U	ug/l	1	-			1 U	ug/l	1
Methyl tert-butyl ether	-		1 U	ug/l	1	-			1 U	ug/l	1
Benzene	-		1 U	ug/l	1	+			1 U	ug/l	1
Toluene	-		1.5	ug/l	1	+			1 U	ug/l	1
Chlorobenzene	-		1 U	ug/l	1	-			1 U	ug/l	1
Ethylbenzene	-		1 U	ug/l	1	-			1 U	ug/l	1
Xylenes (total)	-		1 U	ug/l	1	-			1 U	ug/l	1

601 mod.

Ethylene Dibromide	-		.02 U	ug/l	.02	+			.02 U	ug/l	.02
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METALS

Lead	5 U	ug/l	5	148	ug/l	5	5 U	ug/l	5	106	ug/l	5
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TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B2300490		B5B0200040		B5B2000040		B5B0200040		
Site	NADEP-1		NADEP-1		NADEP-1		NADEP-1		
Locator	1GZ00102		1HZ00101		1HZ00102		1IZ00101		
Collect Date:	22-FEB-95		31-JAN-95		16-FEB-95		31-JAN-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	-			2.1	mg/l	1	-			49.2	mg/l	10
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AV GAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B0200040	B5B0300960	B5B2000040	B5B0600440							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1JZ00101	1KZ00101	1KZ00102	1LZ00101							
Collect Date:	31-JAN-95	02-FEB-95	17-FEB-95	03-FEB-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602

Chloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromoform	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Benzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Toluene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1.5	ug/l	1	-	1 U	ug/l	1
Xylenes (total)	1.5	ug/l	1	14	ug/l	1	-	1 U	ug/l	1

601 mod.

Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	-	.02 U	ug/l	.02
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METALS

Lead	291	ug/l	5	208	ug/l	5	5 U	ug/l	5	445	ug/l	5
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TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B580200040	B580300960	B582000040	B580600440					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1JZ00101	1KZ00101	1KZ00102	1LZ00101					
Collect Date:	31-JAN-95	02-FEB-95	17-FEB-95	03-FEB-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	2	mg/l	1	1.4	mg/l	1	-			3.9	mg/l	1
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B2000040		B5F1901060		B5B1600910		B5B2000040		
Site	NADEP-1		NADEP-1		NADEP-1		NADEP-1		
Locator	1LZ00102		1LZR0103		1M200101		1M200102		
Collect Date:	16-FEB-95		15-JUN-95		15-FEB-95		17-FEB-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602										
Chloromethane	-			-			1 U	ug/t	1	-
Bromomethane	-			-			1 U	ug/t	1	-
Dichlorodifluoromethane	-			-			1 U	ug/t	1	-
Vinyl chloride	-			-			1 U	ug/t	1	-
Chloroethane	-			-			1 U	ug/t	1	-
Dichloromethane	-			-			1 U	ug/t	1	-
Trichlorofluoromethane	-			-			1 U	ug/t	1	-
1,1-Dichloroethene	-			-			1 U	ug/t	1	-
1,1-Dichloroethane	-			-			1 U	ug/t	1	-
trans-1,2-Dichloroethene	-			-			1 U	ug/t	1	-
Chloroform	-			-			1 U	ug/t	1	-
1,2-Dichloroethane	-			-			1 U	ug/t	1	-
1,1,1-Trichloroethane	-			-			1 U	ug/t	1	-
Carbon tetrachloride	-			-			1 U	ug/t	1	-
1,2-Dichloropropane	-			-			1 U	ug/t	1	-
cis-1,3-Dichloropropene	-			-			1 U	ug/t	1	-
Trichloroethene	-			-			1 U	ug/t	1	-
Dibromochloromethane	-			-			1 U	ug/t	1	-
1,1,2-Trichloroethane	-			-			1 U	ug/t	1	-
trans-1,3-Dichloropropene	-			-			1 U	ug/t	1	-
Bromoform	-			-			1 U	ug/t	1	-
1,1,2,2-Tetrachloroethane	-			-			1 U	ug/t	1	-
Tetrachloroethene	-			-			1 U	ug/t	1	-
Chlorobenzene	-			-			1 U	ug/t	1	-
1,3-Dichlorobenzene	-			-			1 U	ug/t	1	-
1,2-Dichlorobenzene	-			-			1 U	ug/t	1	-
1,4-Dichlorobenzene	-			-			1 U	ug/t	1	-
Methyl tert-butyl ether	-			-			1 U	ug/t	1	-
Benzene	-			-			1 U	ug/t	1	-
Toluene	-			-			1 U	ug/t	1	-
Chlorobenzene	-			-			1 U	ug/t	1	-
Ethylbenzene	-			-			1 U	ug/t	1	-
Xylenes (total)	-			-			1 U	ug/t	1	-

601 mod.												
Ethylene Dibromide	-			-			.02 U	ug/l	.02	-		
METALS												
Lead	512	ug/t	20	170	ug/l	5	5 U	ug/t	5	5 U	ug/l	5

TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B2000040	B5F1901060	B5B1600910	B5B2000040							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1LZ00102	1LZR0103	1MZ00101	1MZ00102							
Collect Date:	16-FEB-95	15-JUN-95	15-FEB-95	17-FEB-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	-	-	1 U	mg/t	1	-
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5C1700460	B5C1700460	B5C1700460	B5B1600910	B5B2300490						
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1	NADEP-1						
Locator	1N200101	1N200201	10200101	10200101	10200101						
Collect Date:	15-MAR-95	16-MAR-95	15-FEB-95	15-FEB-95	22-FEB-95						
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602											
Chloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Chloroform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Bromoform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Benzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Toluene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	-	

601 mod.											
Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	.02 U	ug/l	.02	-	

METALS											
Lead	5 U	ug/l	5	5 U	ug/l	5	16.2	ug/l	5	-	

TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5C1700460	B5C1700460	B5B1600910	B5B2300490					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1N200101	1N200201	10Z00101	10Z00101					
Collect Date:	15-MAR-95	16-MAR-95	15-FEB-95	22-FEB-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	mg/l	1	1 U	mg/l	1	-	2.2	mg/l	1
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:
Site
Locator
Collect Date:

B5B1600910
NADEP-1
1P200101
15-FEB-95
VALUE
QUAL UNITS
DL

B5B1600910
NADEP-1
1P200101D
15-FEB-95
VALUE
QUAL UNITS
DL

B5B2000040
NADEP-1
1R200101
17-FEB-95
VALUE
QUAL UNITS
DL

B5C1700460
NADEP-1
1SZ00101
16-MAR-95
VALUE
QUAL UNITS
DL

EPA 601/602

Chloromethane	1 U	ug/l	1									
Bromomethane	1 U	ug/l	1									
Dichlorodifluoromethane	1 U	ug/l	1									
Vinyl chloride	1 U	ug/l	1									
Chloroethane	1 U	ug/l	1									
Dichloromethane	1 U	ug/l	1									
Trichlorofluoromethane	1 U	ug/l	1									
1,1-Dichloroethene	1 U	ug/l	1									
1,1-Dichloroethane	1 U	ug/l	1									
trans-1,2-Dichloroethene	1 U	ug/l	1									
Chloroform	1 U	ug/l	1									
1,2-Dichloroethane	1 U	ug/l	1									
1,1,1-Trichloroethane	1 U	ug/l	1									
Carbon tetrachloride	1 U	ug/l	1									
1,2-Dichloropropane	1 U	ug/l	1									
cis-1,3-Dichloropropene	1 U	ug/l	1									
Trichloroethene	1 U	ug/l	1									
Dibromochloromethane	1 U	ug/l	1									
1,1,2-Trichloroethane	1 U	ug/l	1									
trans-1,3-Dichloropropene	1 U	ug/l	1									
Bromoform	1 U	ug/l	1									
1,1,2,2-Tetrachloroethane	1 U	ug/l	1									
Tetrachloroethene	1 U	ug/l	1									
Chlorobenzene	1 U	ug/l	1									
1,3-Dichlorobenzene	1 U	ug/l	1									
1,2-Dichlorobenzene	1 U	ug/l	1									
1,4-Dichlorobenzene	1 U	ug/l	1									
Methyl tert-butyl ether	1 U	ug/l	1									
Benzene	1 U	ug/l	1									
Toluene	1 U	ug/l	1									
Chlorobenzene	1 U	ug/l	1									
Ethylbenzene	1 U	ug/l	1									
Xylenes (total)	1 U	ug/l	1									

601 mod.

Ethylene Dibromide	.02 U	ug/l	.02									
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METALS

Lead	20.9	ug/l	5	18.4	ug/l	5	5.3	ug/l	5	13.3	ug/l	5
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TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B1600910	B5B1600910	B5B2000040	B5C1700460					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1PZ00101	1PZ00101D	1RZ00101	1SZ00101					
Collect Date:	15-FEB-95	15-FEB-95	17-FEB-95	16-MAR-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	-			1 U	mg/L	1	1 U	mg/L	1	1 U	mg/L	1
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

Lab Sample Number:	B5C1700460	B5C1700460	B5A1900430	B5A2400380							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1T200101	1U200101	TRIPBLANK	TRIPBLANK							
Collect Date:	16-MAR-95	16-MAR-95	18-JAN-95	23-JAN-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602

Chloromethane	1 U	ug/l	1									
Bromomethane	1 U	ug/l	1									
Dichlorodifluoromethane	1 U	ug/l	1									
Vinyl chloride	1 U	ug/l	1									
Chloroethane	74	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1									
Trichlorofluoromethane	1 U	ug/l	1									
1,1-Dichloroethene	9.4	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethane	140	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1									
Chloroform	1 U	ug/l	1									
1,2-Dichloroethane	1 U	ug/l	1									
1,1,1-Trichloroethane	16	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1									
1,2-Dichloropropane	1 U	ug/l	1									
cis-1,3-Dichloropropene	1 U	ug/l	1									
Trichloroethene	1 U	ug/l	1									
Dibromochloromethane	1 U	ug/l	1									
1,1,2-Trichloroethane	1 U	ug/l	1									
trans-1,3-Dichloropropene	1 U	ug/l	1									
Bromoform	1 U	ug/l	1									
1,1,2,2-Tetrachloroethane	1 U	ug/l	1									
Tetrachloroethene	1 U	ug/l	1									
Chlorobenzene	1 U	ug/l	1									
1,3-Dichlorobenzene	1 U	ug/l	1									
1,2-Dichlorobenzene	1 U	ug/l	1									
1,4-Dichlorobenzene	1 U	ug/l	1									
Methyl tert-butyl ether	1 U	ug/l	1									
Benzene	1 U	ug/l	1									
Toluene	1 U	ug/l	1									
Chlorobenzene	1 U	ug/l	1									
Ethylbenzene	1 U	ug/l	1									
Xylenes (total)	1	ug/l	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1

601 mod.

Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	-	-
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METALS

Lead	5 U	ug/l	5	5 U	ug/l	5	-	-
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TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5C1700460		B5C1700460		B5A1900430		B5A2400380		
Site	NADEP-1		NADEP-1		NADEP-1		NADEP-1		
Locator	1T200101		1UZ00101		TRIPBLANK		TRIPBLANK		
Collect Date:	16-MAR-95		16-MAR-95		18-JAN-95		23-JAN-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	mg/t	1	1 U	mg/l	1	-	-
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U = Not Detected J = Estimated Value
 B = Compound Detected in Method Blank associated with this sample

Lab Sample Number:
Site
Locator
Collect Date:

B5A2400380
NADEP-1
TRIPBLANK
23-JAN-95
VALUE QUAL UNITS DL

B5A2600530
NADEP-1
TRIPBLANK
25-JAN-95
VALUE QUAL UNITS DL

B5B0200040
NADEP-1
TRIPBLANK
30-JAN-95
VALUE QUAL UNITS DL

B5B0300960
NADEP-1
TRIPBLANK
02-FEB-95
VALUE QUAL UNITS DL

EPA 601/602

	VALUE	QUAL UNITS	DL									
Chloromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Bromomethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Vinyl chloride	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
Chloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1									
1,1-Dichloroethene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/l	1
Chloroform	1 U	ug/l	1									
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Dibromochloromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Bromoform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1									
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1									
Benzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Toluene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1

601 mod.

Ethylene Dibromide - - -

METALS

Lead - - -

TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5A2400380			B5A2600530			B5B0200040			B5B0300960		
Site	NADEP-1			NADEP-1			NADEP-1			NADEP-1		
Locator	TRIPBLANK			TRIPBLANK			TRIPBLANK			TRIPBLANK		
Collect Date:	23-JAN-95			25-JAN-95			30-JAN-95			02-FEB-95		
	VALUE	QUAL UNITS	DL									

Total Petroleum Hydrocarbons

- - -

U = Not Detected J = Estimated Value
B = Compound Detected in Method Blank associated with this sample

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:
Site
Locator
Collect Date:

B5B0600440
NADEP-1
TRIPBLANK
03-FEB-95

B5B1600910
NADEP-1
TRIPBLANK
15-FEB-95

B5B2000040
NADEP-1
TRIPBLANK
17-FEB-95

B5C1700460
NADEP-1
TripBlank
16-MAR-95

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

EPA 601/602

Chloromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Vinyl chloride	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Dichloromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Trichloroethene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Dibromochloromethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Bromoform	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Benzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Toluene	1 U	ug/t	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	1 U	ug/t	1	1 U	ug/l	1

601 mod.
Ethylene Dibromide

- - - -

METALS
Lead

- - - -

TRPH

07/28/95 NADEP AVGAS PIPELINE SITE 1 16:09:29

Lab Sample Number:	B5B0600440		B5B1600910		B5B2000040		B5C1700460		
Site	NADEP-1		NADEP-1		NADEP-1		NADEP-1		
Locator	TRIPBLANK		TRIPBLANK		TRIPBLANK		TripBlank		
Collect Date:	03-FEB-95		15-FEB-95		17-FEB-95		16-MAR-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons

- - - -

U = Not Detected J = Estimated Value
B = Compound Detected in Method Blank associated with this sample

Lab Sample Number: B5B0600440
 Site NADEP-1
 Locator 0120EB01
 Collect Date: 03-FEB-95

VALUE QUAL UNITS DL

EPA 601/602

Chloromethane	1 U	ug/l	1
Bromomethane	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1
Chloroethane	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1
Chloroform	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1
Bromoform	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1
Benzene	1 U	ug/l	1
Toluene	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1

601 mod.

Ethylene Dibromide	.02 U	ug/l	.02
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METALS

Lead	5 U	ug/l	5
Lead, dissolved	-		

TRPH

Total Petroleum Hydrocarbons	1 U	mg/l	1
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U = Not Detected J = Estimated Value

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470	B5C3100470	B5E0500040	B5C3100470							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1JG00101	1JG00101	1JG00102	1JG00201							
Collect Date:	29-MAR-95	29-MAR-95	03-MAY-95	29-MAR-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602

Chloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromoform	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Benzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Toluene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1

601 mod.										
Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	-	.02 U	ug/l	.02

METALS												
Lead	10.8	ug/l	5	24.5	ug/l	5	5 U	ug/l	5	5.9	ug/l	5

TRPH										
Total Petroleum Hydrocarbons	1 U	mg/l	1	1 U	mg/l	1	-	1 U	mg/l	1

U = Not Detected J = Estimated Value

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:
Site
Locator
Collect Date:

B5C3100470
NADEP-1
1JG00301
29-MAR-95

DL

B5C3100470
NADEP-1
1JG00301D
29-MAR-95

DL

B5E0500040
NADEP-1
1JG00302
03-MAY-95

DL

B5C3100470
NADEP-1
1JG00401
30-MAR-95

DL

VALUE

QUAL UNITS

VALUE

QUAL UNITS

VALUE

QUAL UNITS

VALUE

QUAL UNITS

EPA 601/602

Chloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chloroform	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Bromoform	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Benzene	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
Toluene	1 U	ug/l	1	1 U	ug/l	1	+	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	-	1 U	ug/l	1

601 mod.

Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	-	.02 U	ug/l	.02
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METALS

Lead	34.5	ug/l	5	19.2	ug/l	5	5 U	ug/l	5	5.6	ug/l	5
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TRPH

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470	B5C3100470	B5E0500040	B5C3100470							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1JG00301	1JG00301D	1JG00302	1JG00401							
Collect Date:	29-MAR-95	29-MAR-95	03-MAY-95	30-MAR-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	m/L	1	1 U	mg/L	1	-		1 U	mg/L	1
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U = Not Detected J = Estimated Value

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470	B5C3100470	B5E0500040	B5C3100470							
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1							
Locator	1JG00501	1JG00601	1JG00602	1JG00701							
Collect Date:	30-MAR-95	29-MAR-95	03-MAY-95	29-MAR-95							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602											
Chloromethane	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Bromomethane	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Chloroethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Chloroform	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Trichloroethene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Dibromochloromethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Bromoform	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,1,2,2-Tetrachloroethane	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Tetrachloroethene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Benzene	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Toluene	1 U	ug/t	1	2.7	ug/l	1	-		1 U	ug/l	1
Chlorobenzene	1 U	ug/t	1	1 U	ug/l	1	-		1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	1 U	ug/l	1	-		1 U	ug/l	1

601 mod.											
Ethylene Dibromide	.02 U	ug/l	.02	.02 U	ug/l	.02	-		.02 U	ug/l	.02

METALS											
Lead	5 U	ug/t	5	22.2	ug/l	5	-	5 U	ug/t	5	5.1

TRPH

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470	B5C3100470	B5E0500040	B5C3100470					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1JG00501	1JG00601	1JG00602	1JG00701					
Collect Date:	30-MAR-95	29-MAR-95	03-MAY-95	29-MAR-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	mg/l	1	1 U	mg/l	1	-			1 U	mg/l	1
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U = Not Detected J = Estimated Value

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470		B5E0500040		B5C3100470		B5C3100470		
Site	NADEP-1		NADEP-1		NADEP-1		NADEP-1		
Locator	1JG00801		1JG00802		1JG0EB01		1JG0TB01		
Collect Date:	29-MAR-95		03-MAY-95		30-MAR-95		30-MAR-95		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EPA 601/602												
Chloromethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Bromomethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Dichlorodifluoromethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Vinyl chloride	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Chloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Dichloromethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Trichlorofluoromethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,1-Dichloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
trans-1,2-Dichloroethene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Chloroform	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,1,1-Trichloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Carbon tetrachloride	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,2-Dichloropropane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
cis-1,3-Dichloropropene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Trichloroethene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Dibromochloromethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,1,2-Trichloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
trans-1,3-Dichloropropene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Bromoform	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,1,1,2-Tetrachloroethane	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Tetrachloroethene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Methyl tert-butyl ether	1 U	ug/l	1	-			1 U	ug/l	1	-		
Benzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Toluene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1	-			1 U	ug/l	1	1 U	ug/l	1

601 mod.											
Ethylene Dibromide	.02 U	ug/l	.02	-			.02 U	ug/l	.02	-	

METALS											
Lead	18	ug/l	5	5 U	ug/l	5	6.3	ug/l	5	-	

TRPH

08/01/95 NADEP AVGAS PIPELINE SITE 1 15:11:09

Lab Sample Number:	B5C3100470	B5E0500040	B5C3100470	B5C3100470					
Site	NADEP-1	NADEP-1	NADEP-1	NADEP-1					
Locator	1JG00801	1JG00802	1JG0EB01	1JG0T801					
Collect Date:	29-MAR-95	03-MAY-95	30-MAR-95	30-MAR-95					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

Total Petroleum Hydrocarbons	1 U	mg/l	1	-	1 U	mg/l	1	-
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U = Not Detected J = Estimated Value