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**COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN II)**  
**Northern and Central California, Nevada, and Utah**  
**Contract Number N62474-94-D-7609**  
**Contract Task Order 226**

**Prepared for**

**DEPARTMENT OF THE NAVY**  
**Ms. Marianna Potacka**  
**Southwestern Division**  
**Naval Facilities Engineering Command**  
**San Diego, California**

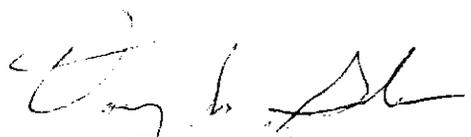
**MOFFETT FEDERAL AIRFIELD, CALIFORNIA**  
**(Formerly Naval Air Station Moffett Field)**

**DRAFT**  
**BASEWIDE TANK SITE**  
**CLOSURE REPORT**

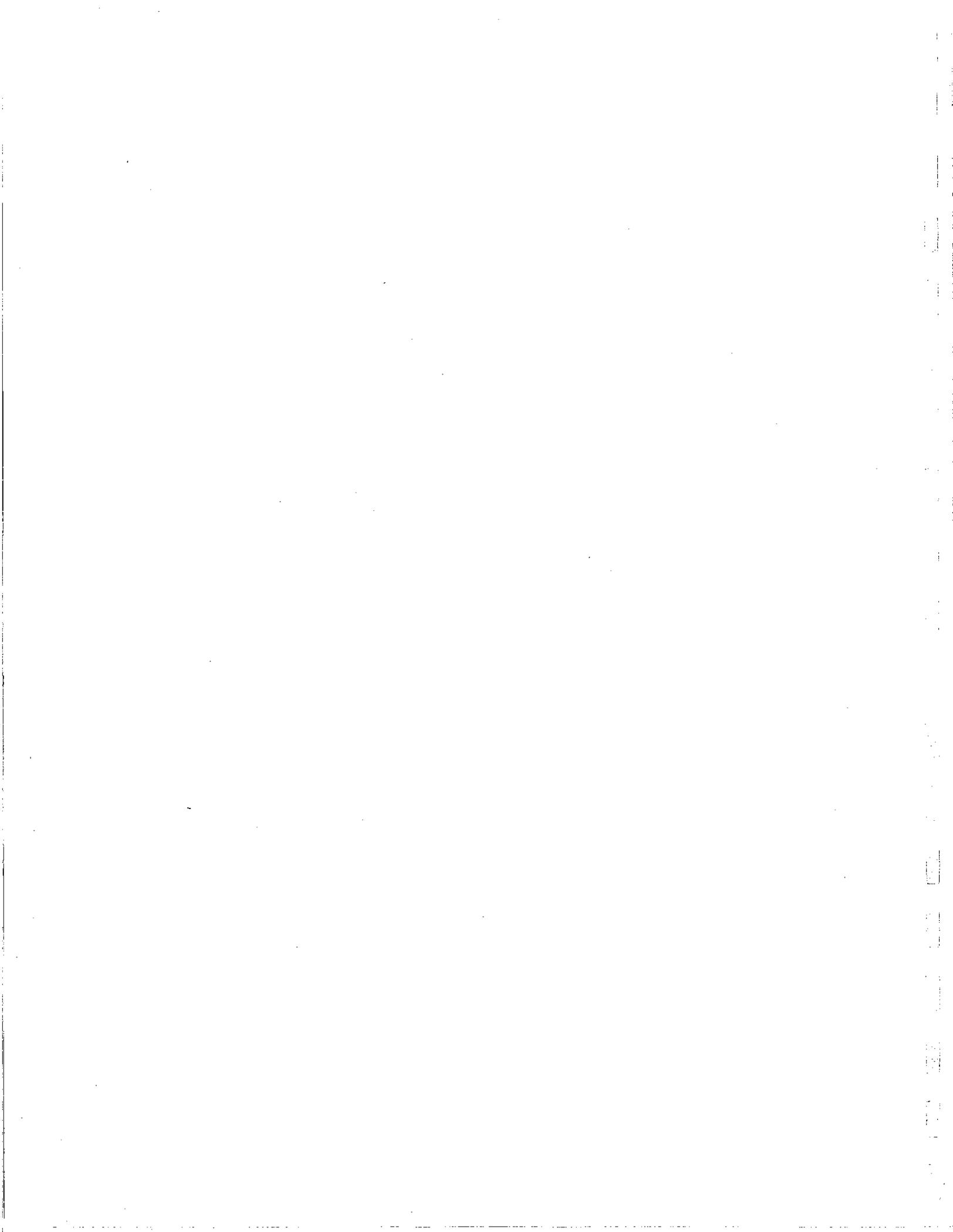
**May 26, 2000**

**Prepared by**

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DEPARTMENT OF THE NAVY  
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NAVAL FACILITIES ENGINEERING COMMAND  
1220 PACIFIC HIGHWAY  
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5090  
Ser 06CT.AT/0376  
May 26, 2000

Mr. Joseph Chou  
San Francisco Bay Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Dear Mr. Chou:

Subj: DRAFT BASEWIDE TANK CLOSURE REPORT, MOFFETT FEDERAL AIRFIELD

Enclosed is a copy of the "Draft Basewide Tank Closure Report, Moffett Federal Airfield", of May 26, 2000, for your review. Please provide your comments or concurrence on the draft report to the following address by June 12, 2000 in order to meet the June 30, 2000 submission of the Final Basewide Tank Closure Report to your office:

Commander  
Attn: Mr. Arturo Tamayo (Code 06CT.AT)  
Southwest Division, Naval Facilities Engineering Command  
1220 Pacific Highway  
San Diego, CA 92132-5190

If you have any questions, please contact Mr. Art Tamayo, UST Remedial Project Manager, at (619) 532-0916.

Sincerely,

MARIANNA K. POTACKA  
BRAC Environmental Coordinator  
By direction of the Commander

Encl: (1) Draft Basewide Tank Closure Report, Moffett Federal Airfield, May 26, 2000

Copy to: (w/o encl)  
Ms. Roberta Blank  
U. S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, CA 94105





## Tetra Tech EM Inc.

1099 18th Street, Suite 1960 ♦ Denver, CO 80202 ♦ (303) 295-1101 ♦ FAX (303) 295-2818

May 26, 2000

Ms. Marianna Potacka  
Department of the Navy  
Southwestern Division  
Naval Facilities Engineering Command  
1230 Columbia Street Suite 1100  
San Diego, California 92101

**Subject: Draft Basewide Tank Site Closure Report, Moffett Federal Airfield  
CLEAN Contract Number N62474-94-D-7609, Contract Task Order 226**

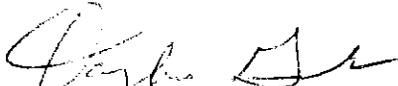
Dear Ms. Potacka:

Enclosed are three copies of the above-referenced document. Tetra Tech EM Inc. (TtEMI) prepared this report to present data for 35 tank sites at Moffett Federal Airfield. These sites were compiled into this report because they each meet the action levels agreed upon between the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the Navy in 1994. Per your direction, TtEMI is submitting this report for Navy and RWQCB concurrent review to meet RWQCB's request for closure information by June 30, 2000.

Thirty-five tank sites are evaluated in this report. The report recommends closure for Tanks 15, 18, 22, 28, 41B, 55, 57, 59, 63, 64, 67, 69, 86A, 86B, 88, 106, 110, 111, and 116 because soil and groundwater samples at each tank site met the action levels and methyl tertiary butyl ether (MTBE) was not detected. The report also recommends closure for three tanks that were never used, Tanks 30, 31, and 78; eight tanks that were not used for storage of petroleum products, Tanks 54, 62, 62A, 66, 68, 77, 91, and 130; and five tank numbers where tanks never existed, Tanks 27, 51, 65, 112, and 123.

TtEMI will incorporate any comments from the Navy and RWQCB into the final basewide tank site closure report. Furthermore, an Access database is currently in progress and will be submitted with the Final Basewide Tank Site Closure Report to fulfill RWQCB's requirements. If you have any questions, please call Douglas Gale at (303) 382-8789 or Timothy Mower at (303) 312-8874.

Sincerely,

  
Douglas Gale  
Project Geologist

  
Timothy Mower  
Project Manager

DG/jed

Enclosures:

cc: Don Chuck, EFA WEST  
Joseph Chou, RWQCB  
Sandy Olliges, NASA



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## ACRONYMS AND ABBREVIATIONS

AIMD	Aircraft Intermediate Maintenance Department
AST	Aboveground storage tank
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylene
Cal/EPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Chemical of concern
CPT	Cone penetrometer test
CTO	Contract Task Order
DHS	California Department of Health Services
DQO	Data Quality Objective
DTSC	California Department of Toxic Substances Control
ECC	Environmental Chemical Corporation
Envirotox	Envirotox Technologies Incorporated
EPA	U.S. Environmental Protection Agency
ft/ft	Feet of drop per foot of distance
HSA	Hollow-stem auger
IRP	Installation Restoration Program
JP	Jet petroleum
µg/L	Micrograms per liter
MCL	Maximum contaminant level
MFA	Moffett Federal Airfield
mg/kg	Milligrams per kilogram
MQO	Measurement quality objective
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
NASA	National Aeronautics and Space Administration
ND	Nondetect
NEX	Naval Exchange
NS	Not sampled
PCB	Polychlorinated biphenyl
PID	Photoionization detector
PRC	PRC Environmental Management, Inc.
PRG	Preliminary remediation goal
PWC	Navy Public Works Center

## ACRONYMS AND ABBREVIATIONS (Continued)

QA/QC	Quality assurance and quality control
RWQCB	Regional Water Quality Control Board, San Francisco Bay Region
SAIC	Science Applications International Corporation
SCCEHS	Santa Clara County Department of Environmental Health Services
SWRCB	California State Water Resources Control Board
TM	Technical memorandum
TPH	Total petroleum hydrocarbons
TPH-e	Total petroleum hydrocarbons extractable
TPH-p	Total petroleum hydrocarbons purgeable
TtEMI	Tetra Tech EM Inc.
UST	Underground storage tank



## EXECUTIVE SUMMARY

Tetra Tech EM Inc. (TtEMI) has prepared this draft Basewide Tank Site Closure Report to expedite closure of several tank sites at Moffett Federal Airfield (MFA). Thirty tanks were selected that meet prescribed action levels for soil and groundwater as agreed upon by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the Navy. Five additional tank sites where tanks were never installed are also addressed. Petroleum sites at MFA are evaluated and closed separately from Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites under the guidance of RWQCB. The ultimate goal of the petroleum sites evaluation methodology is to obtain site closure. These 35 tank sites were evaluated using the data quality objectives (DQOs) developed for MFA petroleum sites; DQOs are described fully in Section 3.0.

Tanks, as used in this report, refer to liquid storage or diversion structures, and include underground storage tanks (USTs), a stormwater diversion box, sumps, and oil/water separators. Included are tanks associated with Installation Restoration Program (IRP) Site 5 (Tanks 15, 18, 30, and 31), Site 14 (Tanks 67 and 68), Site 15 (Tanks 54, 59, 62, 62A, 63, 64, and 130) and Site 18 (Tank 66); also included are tank sites from across MFA: Tanks 22, 28, 41B, 55, 57, 69, 77, 78, 86A, 86B, 88, 91, 106, 110, 111, and 116 (Figure 1). Five additional tank sites (Tanks 27, 51, 65, 112, and 123) where tanks were never installed are also addressed. Other tank areas at MFA that do not meet the action levels are evaluated further in appendices to the Final Basewide Petroleum Site Evaluation Methodology Technical Memorandum (TM) (TtEMI 1998).

Soil and groundwater data from completed investigations were evaluated in areas where releases were suspected to have occurred. Investigations focused on action levels set for total petroleum hydrocarbons (TPH) and individual petroleum constituents. Chemicals of concern (COCs) include TPH extractable (TPH-e) as diesel, jet petroleum (JP-5), motor oil, other heavy, and other light components, and TPH purgeable (TPH-p) as gasoline and benzene, toluene, ethylbenzene, and xylene (BTEX) components. Additional methyl tertiary butyl ether (MTBE) groundwater sampling requirements for tank closure were established in March 1999, after RWQCB and the Navy agreed upon action levels. The action level for MTBE was set at 13 micrograms per liter ( $\mu\text{g/L}$ ). Additional sampling of monitoring wells downgradient of tanks that contained gasoline was conducted in August 1999 for BTEX and MTBE.

Soil and groundwater results at each tank site meet the action levels agreed upon by RWQCB and Navy. Therefore, the Navy recommends closure for Tanks 15, 18, 22, 27, 28, 30, 31, 41B, 51, 54, 55, 57, 62, 62A, 63, 64, 65, 66, 67, 68, 69, 77, 78, 86A, 86B, 88, 91, 106, 110, 111, 112, 116, 123, and 130. The Navy also recommends closure of Navy responsibility for Tank 59, which is still active.

The following points were significant in the tank site closure evaluation:

- All sources of petroleum have been removed at each of the tank sites that contained or may have contained petroleum and no free product was encountered.
- Petroleum constituents concentrations have been detected at concentrations that do not exceed the action levels agreed upon by RWQCB and the Navy.

The following tank closure checklist presents a summary of tank characterization and removal activities and chemical concentrations in soil and groundwater at each site tank.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 15 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 15	UST 15	1,000	Diesel

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-Place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
Unknown	No	Removed	December 1992	Good	Good

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil (removed during excavation)

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
PRC Environmental Management, Inc. (PRC). Closure Report for Underground Storage Tanks 15, 28, 78, 88 and 41B	April 1995
Tetra Tech EM Inc. (TtEMI). November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 15**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	4,400 <sup>1</sup>	400
Benzene	--	--	ND (0.005)	4.4
Toluene	--	--	ND (0.005)	2,700
Ethylbenzene	--	--	ND (0.005)	3,100
Xylene	--	--	ND (0.005)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Indicates that the soil surrounding the sample was removed in a subsequent investigation.
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 18 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 18	UST 18	935	Diesel

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-Place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	April 1994	NA	NA

Note:  
NA      Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
1	1

**REPORTS**

Author and Title	Date
ERM-West. Tank Closure Documentation	June 1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 18**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (10)	150
TPH-e as diesel	18B-065037-13	5/94	5	400
Benzene	--	--	ND (0.006)	4.4
Toluene	--	--	ND (0.006)	2,700
Ethylbenzene	--	--	ND (0.006)	3,100
Xylene	--	--	ND (0.006)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (10)	NL
Naphthalene	--	--	ND (0.038)	240
2-Methylnaphthalene	--	--	ND (0.038)	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	ND (0.038)	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit or range in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	ND	--	ND	1
Toluene	--	--	ND	--	ND	680
Ethylbenzene	--	--	ND	--	ND	1,000
Xylene	--	--	ND	--	ND	1,750
MTBE	--	--	ND (10)	--	NS	13
TPH-e as JP-5	--	--	ND (0.25-250)	--	ND (0.25-250)	700
Naphthalene	--	--	ND (10)	--	ND (10)	NL
2-Methylnaphthalene	--	--	ND (10)	--	ND (10)	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	ND (10)	--	ND (10)	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 22 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 22	Tar-coated steel UST 22	600	Diesel

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	December 1992	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil and Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
3	1

**REPORTS**

Author and Title	Date
PRC. Final Stationwide Remedial Investigation Report	May 1996
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 22**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit or range in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1.2-0.61)	150
TPH-e as diesel	--	--	ND (1.2)	400
Benzene	--	--	ND (0.006)	4.4
Toluene	--	--	ND (0.006)	2,700
Ethylbenzene	--	--	ND (0.006)	3,100
Xylene	--	--	ND (0.006)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (1.2)	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	38 <sup>1</sup>	NL
TPH-e as other light components	--	--	ND (1.2)	NL
TPH-e as kerosene	--	--	ND (1.2)	NL
TPH-e as motor oil	--	--	ND (12)	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit or range in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	37 <sup>1</sup>	--	ND (50)	50
TPH-e as diesel	WT22-1	8/96	300Y	--	260 <sup>2</sup>	700
Benzene	--	--	ND (0.5)	--	ND (0.1)	1
Toluene	--	11/96	0.32 <sup>1</sup>	--	ND (0.1)	680
Ethylbenzene	--	--	ND (0.5)	--	ND (0.1)	1,000
Xylene	--	--	ND (0.5)	--	ND (1)	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	ND (50-100)	--	ND (50-100)	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	GWT22-2	7/95	450 <sup>2</sup>	--	NS	NL
TPH-e as other light components	--	--	ND (50)	--	NS	NL
TPH-e as kerosene	--	--	ND (50-100)	--	ND (50-100)	NL
TPH-e as motor oil	WT22-1	2/96	370	11/96	160	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Estimated concentration
- <sup>2</sup> Pattern does not match calibrated fuel pattern but does resemble a fuel pattern
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 27 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

Tank 27 never existed; no soil or groundwater samples were collected.  
Therefore, there are no summary tables for soil and groundwater for this tank.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 28 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 28	Steel Tank 28	150	Diesel

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	June 1991	Good	Good

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
Quorum Environmental Consultants, Inc. (Quorum). Letter Report of Underground Storage Tank Removal	August 1991
PRC. Closure Report for Underground Storage Tanks 15, 28, 78, 88 and 41B	April 1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 28**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	ND (10)	400
Benzene	--	--	ND (0.005)	4.4
Toluene	--	--	ND (0.005)	2,700
Ethylbenzene	--	--	ND (0.005)	3,100
Xylene	--	--	ND (0.005)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	S-05-T28	6/91	16	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

**Notes:**

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary-butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANKS 30 AND 31 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Tanks 30 and 31 were installed together in the same excavation and are discussed together in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

Tanks 30 and 31 were never used. The tanks were installed in the ground; however, their installations were not complete. No soil or groundwater samples were collected when the tanks were removed because the tanks were never filled. Therefore, there are no summary tables for soil and groundwater for this tank.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 41B CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 41B	Concrete, 41B	3,000	Oil/water separator

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-Place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	January 1993	NA	NA

Note:  
NA      Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
PRC. Closure Report for USTs 15, 28, 78, 88, and 41B	April 1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 41B**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)	Screening Level (mg/kg)
TPH-p as gasoline	Tank 41B (E)	1/93	4.6	150
TPH-e as diesel	--	--	NS	400
Benzene	Tank 41B (E)	1/93	0.012	4.4
Toluene	Tank 41B (E)	1/93	0.085	2,700
Ethylbenzene	Tank 41B (E)	1/93	0.061	3,100
Xylene	Tank 41B (E)	1/93	0.041	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 51 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

Tank 51 never existed; no soil or groundwater samples were collected.  
Therefore, there are no summary tables for soil and groundwater for this tank.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 54 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 54	UST 54	1,620	Wastewater from paint shop

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	December 1992	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
PRC. Revised Final IRP Petroleum Sites (and Wastewater Tanks and Sumps) Characterization Report	January 1994
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 54**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	(Screening Level (mg/kg))
TPH-p as gasoline	--	--	ND (1)	150
TPH-e as diesel	--	--	ND (1)	400
Benzene	--	--	ND <sup>1</sup>	4.4
Toluene	--	--	ND <sup>1</sup>	2,700
Ethylbenzene	--	--	ND <sup>1</sup>	3,100
Xylene	--	--	ND <sup>1</sup>	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND <sup>1</sup>	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	ND <sup>1</sup>	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Detection limits unknown
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 55 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 55	UST 55	200	Diesel

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	NA	NA	NA

Note:  
NA      Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil and Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
4	1

**REPORTS**

Author and Title	Date
ERM-West and Aqua Resources, Inc. Joint Venture. Hazardous Materials Underground Storage Tank Study	April 1986
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS – TANK 55**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (0.56)	150
TPH-e as diesel	SBT55-1	8/95	49	400
Benzene	--	--	ND (0.00056)	4.4
Toluene	--	--	ND (0.00056)	2,700
Ethylbenzene	--	--	ND (0.00056)	3,100
Xylene	--	--	ND (0.00056)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (28)	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	SBT55-1	8/95	440	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit or range in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	WT55-1	8/95	43 <sup>1</sup>	--	ND (50)	50
TPH-e as diesel	WT55-1	8/95	62	--	ND (100)	700
Benzene	WT55-1	5/97	6	--	ND (1)	1
Toluene	--	--	ND (1)	--	ND (1)	680
Ethylbenzene	--	--	ND (0.5)	--	ND (0.5-1)	1,000
Xylene	WT55-1	8/95	1.1	--	ND	1,750
MTBE	--	--	ND (1-10)	--	ND (1-10)	13
TPH-e as JP-5	--	--	ND (100-500)	--	ND (50-500)	700
Naphthalene	--	--	ND (10)	--	ND (10)	NL
2-Methylnaphthalene	--	--	ND (10)	--	ND (10)	NL
TPH-e as other heavy components	--	--	ND (50)	--	NS	NL
TPH-e as other light components	--	--	ND (50)	--	NS	NL
TPH-e as kerosene	--	--	ND (100)	--	NS	NL
TPH-e as motor oil	GWT55-2	7/95	1,600	--	NS	NL
Benzo(a)pyrene	--	--	ND (10)	--	ND (10)	NL

Notes:

- <sup>1</sup> Estimated concentration
- No information (not sampled or not detected)
- GWT Groundwater sample location collected via Geoprobe. No additional samples are available from this location.
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 57 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 57	Steel UST 57	550	Waste Oil

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	June 1991	NA	NA

Note:  
NA      Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
5	1

**REPORTS**

Author and Title	Date
Quorum. Letter Report of Underground Storage Tank Removal	August 1991
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS – TANK 57**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1.2)	150
TPH-e as diesel	--	--	ND (1.2)	400
Benzene	--	--	ND (0.007)	4.4
Toluene	--	--	ND (0.007)	2,700
Ethylbenzene	--	--	ND (0.007)	3,100
Xylene	--	--	ND (0.007)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (1.2)	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	ND (1.2)	NL
TPH-e as other light components	--	--	ND (1.2)	NL
TPH-e as kerosene	--	--	ND (1.2)	NL
TPH-e as motor oil	GPT57-4	7/95	83	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit or range in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	WT57-1	2/96	38 <sup>1</sup>	--	ND (50)	50
TPH-e as diesel	WT57-1	2/96	88 <sup>1</sup>	--	ND (100)	700
Benzene	WT57-1	5/97	2.0	--	ND (1)	1
Toluene	WT57-1	2/96	0.92	--	ND (0.5-1)	680
Ethylbenzene	WT57-1	5/97	0.4	--	ND (1)	1,000
Xylene	WT57-1	5/97	0.5 <sup>1</sup>	--	ND (1)	1,750
MTBE	--	--	ND (1)	--	ND (10)	13
TPH-e as JP-5	--	--	ND (100-500)	--	ND (100-500)	700
Naphthalene	--	--	ND (10)	--	NS	NL
2-Methylnaphthalene	--	--	ND (10)	--	NS	NL
TPH-e as other heavy components	GWT57-4	7/95	350	--	NS	NL
TPH-e as other light components	--	7/95	--	--	NS	NL
TPH-e as kerosene	--	--	ND (100)	--	ND (100)	NL
TPH-e as motor oil	GWT57-4	7/95	1,900	--	NS	NL
Benzo(a)pyrene	--	--	ND (10)	--	NS	NL

**Notes:**

- <sup>1</sup> Estimated concentration
- No information
- GWT Groundwater sample location collected via Geoprobe. No additional samples are available from this location.
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 59 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 59	Oil/Water Separator 59	1,400	Oil/water separator

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	Yes	Active	NA	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
2	0

**REPORTS**

Author and Title	Date
PRC. Draft West-Side Aquifers Field Investigation Technical Memorandum, Vol. 1	March 1993
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 59**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	(Screening Level (mg/kg))
TPH-p as gasoline	--	--	ND (1.2)	150
TPH-e as diesel	--	--	ND (1.2)	400
Benzene	--	--	ND (0.006)	4.4
Toluene	--	--	ND (0.006)	2,700
Ethylbenzene	--	--	ND (0.006)	3,100
Xylene	--	--	ND (0.006)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (1.2)	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	GP59-2	11/94	2.30 <sup>1</sup>	NL
TPH-e as other light components	--	--	ND (1.2)	NL
TPH-e as kerosene	--	--	ND (1.2)	NL
TPH-e as motor oil	--	--	ND (12)	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Estimated concentration, surrogate recovery out of quality control limits
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANKS 62 AND 62A CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Tanks 62 and 62A were installed adjacent to one another inside Building 45 and are discussed together in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 62 /62A	Recirculation tanks UST 62 UST 62A	NA NA	Waste water from paint facilities

Note:  
UST    Underground storage tank  
NA     Information not available

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Cleaned and left in-place	October 1992	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil and Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
2	0

**REPORTS**

Author and Title	Date
Navy. Tank Summary Report Prepared by Don Chuck	1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANKS 62 AND 62A**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit unknown)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND	150
TPH-e as diesel	--	--	ND	400
Benzene	--	--	ND	4.4
Toluene	--	--	ND	2,700
Ethylbenzene	--	--	ND	3,100
Xylene	--	--	ND	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit unknown)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND	--	NS	50
TPH-e as diesel	--	--	ND	--	NS	700
Benzene	--	--	ND	--	NS	1
Toluene	--	--	ND	--	NS	680
Ethylbenzene	--	--	ND	--	NS	1,000
Xylene	--	--	ND	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	ND	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 63 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 63	Drain sump 63	200	Wastewater

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Closed In-Place	NA	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
2	0

**REPORTS**

Author and Title	Date
PRC. Draft West-Side Aquifers Field Investigation Technical Memorandum	March 1993
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 63**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	(Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1.2)	150
TPH-e as diesel	--	--	ND (1.2)	400
Benzene	--	--	ND (0.006)	4.4
Toluene	--	--	ND (0.006)	2,700
Ethylbenzene	--	--	ND (0.006)	3,100
Xylene	--	--	ND (0.006)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	GP63-1 (5-7)	1/94	61	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	GP63-2 (5-7)	1/94	17	NL
TPH-e as other light components	GP63-1 (5-7)	1/94	72	NL
TPH-e as kerosene	--	--	ND (1.2)	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS (50)	--	NS	50
TPH-e as diesel	--	--	ND (52)	--	NS	700
Benzene	--	--	ND (0.5)	--	NS	1
Toluene	--	--	ND (0.5)	--	NS	680
Ethylbenzene	--	--	ND (0.5)	--	NS	1,000
Xylene	--	--	ND (0.5)	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	ND (52)	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	ND (52)	--	NS	NL
TPH-e as other light components	--	--	ND (50)	--	NS	NL
TPH-e as kerosene	--	--	ND (52)	--	NS	NL
TPH-e as motor oil	--	--	ND (520)	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

**Notes:**

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 64 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 64	Concrete settling basin/ oil skimmer Tank 64	NA	Stormwater diversion box

Note:  
UST     Underground storage tank  
NA     Information not available

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	1994	NA	None

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
1	1

**REPORTS**

Author and Title	Date
Navy. Tank Closure Summary Report Prepared by Don Chuck	1995
Science Applications International Corporation (SAIC). Soil Removal Project. Storm Drain Channel Area of Investigation	March 1997
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 64**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	NS	400
Benzene	--	--	NS	4.4
Toluene	--	--	NS	2,700
Ethylbenzene	--	--	NS	3,100
Xylene	--	--	NS	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND (50)	--	ND (50)	50
TPH-e as diesel	--	--	ND (50)	--	ND (50)	700
Benzene	--	--	ND (0.5)	--	ND (0.5)	1
Toluene	--	--	ND (0.5)	--	ND (0.5)	680
Ethylbenzene	--	--	ND (0.5)	--	ND (0.5)	1,000
Xylene	--	--	ND (0.5)	--	ND (0.5)	1,750
MTBE	--	--	ND (10)	--	NS	13
TPH-e as JP-5	--	--	ND (50)	--	ND (50)	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	WNB-9	11/92	190 <sup>1</sup>	6/93	67	NL
TPH-e as other light components	--	--	ND (0.5)	--	ND (0.5)	NL
TPH-e as kerosene	--	--	ND	--	ND (0.5)	NL
TPH-e as motor oil	--	--	ND (500)	--	ND (500)	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Estimated concentration
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 65 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

Tank 65 never existed; no soil or groundwater samples were collected.  
Therefore, there are no summary tables for soil or groundwater for Tank 65.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANKS 66, 67, 68 AND 91 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Tanks 66, 67, 68, and 91 were all installed near, and were related to the operation of, the former Building 88 dry cleaning facility. Therefore, these tanks are discussed together in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 66	Concrete sump	Unknown	Dry cleaning effluent
Tank 67	Steel UST 67	16,000	Fuel oil
Tank 68	Concrete UST	Unknown	Dry cleaning effluent
Tank 91	Concrete Sump	700	Dry cleaning effluent

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	1990	NA	NA
NA	No	Removed	1990	Good	Good
NA	No	Removed	1995	NA	NA
NA	No	Removed	1995	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil and Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
13	10

**REPORTS**

Author and Title	Date
PRC. Tank and Sump Removal Summary Report	July 1991
PRC. Final Operable Unit 2-West (Building 88) Project Summary Report	October 1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANKS 66, 67, 68, AND 91**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit or range in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	SB68-1(A)-5-17.5	9/6/90	1.3	150
TPH-e as diesel	W68-1(A)-5-17.5	6/7/90	150	400
Benzene	SB68-1(A) (12.5)	9/6/90	0.003 <sup>1</sup>	4.4
Toluene	TP67-5-7	6/7/90	0.47	2,700
Ethylbenzene	--	--	ND (0.005)	3,100
Xylene	--	--	ND (0.005)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (1.3)	NL
Naphthalene	--	--	ND (0.42)	240
2-Methylnaphthalene	--	--	ND (0.42)	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	ND (1.3 - 100)	NL
TPH-e as motor oil	SU-66-S-1.5	6/7/90	63	NL
Benzo(a)pyrene	--	--	ND (0.42)	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit or range in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	W9-46	11/5/91	2,000	--	ND (50)	50
TPH-e as diesel	W9-46	11/5/91	1,100	--	ND (50)	700
Benzene	W9-46	5/24/93	12	--	ND (0.5)	1
Toluene	W9-46	5/24/93	4	--	ND (10)	680
Ethylbenzene	W91-1	11/18/92	0.5 <sup>1</sup>	--	ND (0.5)	1,000
Xylene	W9-46	12/9/93	3	--	ND (0.5)	1,750
MTBE	--	--	ND (6)	--	ND (59)	13
TPH-e as JP-5	--	--	ND (50)	--	ND (50)	700
Naphthalene	--	--	ND (10)	--	ND (10)	NL
2-Methylnaphthalene	--	--	ND (10)	--	ND (10)	NL
TPH-e as other heavy components	W91-1	6/18/92	350 <sup>1</sup>	--	ND (50)	NL
TPH-e as other light components	ERM-4	9/10/92	2,600 <sup>1</sup>	5/18/93	1,700 <sup>1</sup>	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	ND (500)	--	ND (500)	NL
Benzo(a)pyrene	--	--	ND (10)	--	NS	NL

Notes:

- <sup>1</sup> Estimated concentration
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 69 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 69	Steel UST 69	2,000	Waste water from parts rinsing

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	1991	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
5	1

**REPORTS**

Author and Title	Date
Quorum. Letter Report of Underground Storage Tank Removal	August 1991
PRC. Final Stationwide Remedial Investigation Report	May 1996
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 69**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1.2)	150
TPH-e as diesel	--	--	ND (1.2)	400
Benzene	GPT69-03 (6.5)	7/95	0.0007 <sup>1</sup>	4.4
Toluene	GPT69-03 (6.5)	7/95	0.001 <sup>1</sup>	2,700
Ethylbenzene	--	--	ND (0.006)	3,100
Xylene	--	--	NS	980
MTBE	--	--	ND (0.006)	NL
TPH-e as JP-5	--	--	ND (1.2)	NL
Naphthalene	--	--	ND (0.41)	240
2-Methylnaphthalene	--	--	ND (0.41)	NL
TPH-e as other heavy components	--	--	ND (1.2)	NL
TPH-e as other light components	--	--	ND (1.2)	NL
TPH-e as kerosene	--	--	ND (1.2)	NL
TPH-e as motor oil	--	--	ND (12)	NL
Benzo(a)pyrene	--	--	ND (0.41)	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L) (Detection limit or range in parentheses)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND (50)	--	ND (50)	50
TPH-e as diesel	--	--	ND (100)	--	ND (100)	700
Benzene	GWT69-1	7/95	0.06	--	ND (0.5)	1
Toluene	--	--	ND (0.5)	--	ND (0.5)	680
Ethylbenzene	--	--	ND (0.5)	--	ND (0.5)	1,000
Xylene	--	--	ND (0.5)	--	ND (0.5)	1,750
MTBE	--	--	NS	--	ND (10)	13
TPH-e as JP-5	--	--	ND (100)	--	ND (100)	700
Naphthalene	--	--	ND (10)	--	ND (10)	NL
2-Methylnaphthalene	--	--	ND (10)	--	ND (10)	NL
TPH-e as other heavy components	--	--	ND (50)	--	ND (50)	NL
TPH-e as other light components	--	--	ND (50)	--	ND (50)	NL
TPH-e as kerosene	--	--	ND (100)	--	ND (100)	NL
TPH-e as motor oil	WT69-1	8/95	52 <sup>1</sup>	--	ND (100-500)	NL
Benzo(a)pyrene	--	--	ND (10)	--	ND (10)	NL

Notes:

- <sup>1</sup> Estimated concentration
- No information (not sampled or not detected)
- GWT Groundwater sample collected via Geoprobe. No additional samples are available from this location.
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 77 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 77	Fiberglass 77	1,360	Diesel

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Closed In- Place	1995	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
Navy. Final Summary Report for Underground Storage Tank 77, Closure in Place	April 1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 77**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)		Screening Level (mg/kg)
			(Detection limit or range in parentheses)		
TPH-p as gasoline	--	--	NS		150
TPH-e as diesel	77-E-8	4/95	ND (1)		400
Benzene	--	--	NS		4.4
Toluene	--	--	NS		2,700
Ethylbenzene	--	--	NS		3,100
Xylene	--	--	NS		980
MTBE	--	--	NS		NL
TPH-e as JP-5	--	--	NS		NL
Naphthalene	--	--	NS		240
2-Methylnaphthalene	--	--	NS		NL
TPH-e as other heavy components	--	--	NS		NL
TPH-e as other light components	--	--	NS		NL
TPH-e as kerosene	--	--	NS		NL
TPH-e as motor oil	--	--	NS		NL
Benzo(a)pyrene	--	--	NS		0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		(Detection limit or range in parentheses)				
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	77-W-8	4/95	ND (50)	--	NS	50
TPH-e as diesel	77-W-8	4/95	62	--	NS	700
Benzene	77-W-8	4/95	0.51	--	NS	1
Toluene	77-W-8	4/95	0.56	--	NS	680
Ethylbenzene	77-W-8	4/95	ND (0.50)	--	NS	1,000
Xylene	77-W-8	4/95	1.4	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	77-W-8	4/95	16	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

**Notes:**

- No information (not sampled or not detected)
- GWT Groundwater sample collected via grab sample. No additional samples are available from this location.
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 78 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 78	Fiberglass UST	1,000	Containment bay for acid storage

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	January 1993	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
PRC. Final Stationwide Remedial Investigation Report	May 1996
Navy. Tank Closure Summary Report Prepared by Don Chuck	1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 78**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit or range in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1)	150
TPH-e as diesel	--	--	NS	400
Benzene	--	--	ND (0.005)	4.4
Toluene	--	--	ND (0.005)	2,700
Ethylbenzene	--	--	ND (0.005)	3,100
Xylene	--	--	ND (0.005)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

**Notes:**

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANKS 86A AND 86B CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Tanks 86A and 86B were installed together in the same excavation and are discussed together in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 86A/86B	Steel UST 86A	5,000	Gasoline
	Steel UST 86B	7,000	Diesel

Note:  
UST: Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
1948	No	Removed	January 1993	NA	NA

Note:  
NA: Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
3	1

**REPORTS**

Author and Title	Date
PRC. Final Stationwide Remedial Investigation Report	May 1996
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANKS 86A AND 86B**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)	
			(Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (13)	150
TPH-e as diesel	--	--	ND (12)	400
Benzene	--	--	ND (0.066)	4.4
Toluene	--	--	ND (0.066)	2,700
Ethylbenzene	--	--	ND (0.066)	3,100
Xylene	--	--	ND (0.066)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (12)	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	GPT86B-1	6/95	190 <sup>1</sup>	NL
TPH-e as kerosene	--	--	ND (12)	NL
TPH-e as motor oil	--	--	ND (12)	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		(Detection limit or range in parentheses)		(Detection limit or range in parentheses)		
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	WT86B-1	2/96	910 <sup>1</sup>	--	ND (50)	50
TPH-e as diesel	--	--	ND (100)	--	ND (100)	700
Benzene	WT86B-1	2/96	28 <sup>1</sup>	--	ND (1)	1
Toluene	WT86B-1	2/97	ND (0.5-1)	--	ND (0.5-1)	680
Ethylbenzene	WT86B-1	2/96	1.3	--	ND (0.5)	1,000
Xylene	GWT86B-1	6/95	6	--	NS	1,750
MTBE	--	--	ND (1)	--	ND (10)	13
TPH-e as JP-5	--	--	ND (100-500)	--	ND (100-500)	700
Naphthalene	--	--	ND (10)	--	ND (10)	NL
2-Methylnaphthalene	--	--	ND (10)	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	GWT86B-1	6/95	5,900 <sup>1</sup>	--	NS	NL
TPH-e as kerosene	--	--	ND (100)	--	NS	NL
TPH-e as motor oil	--	--	ND (100)	--	ND (100)	NL
Benzo(a)pyrene	--	--	ND (10)	--	NS	NL

**Notes:**

- <sup>1</sup> Estimated concentration, surrogate recovery out of quality control limits.
- No information (not sampled or not detected)
- GWT Groundwater sample collected via Geoprobe. No additional samples are available from this location.
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 88 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 88	Steel Tank 88	500	Wastewater

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	December 1992	NA	NA

Note:  
NA      Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	Soil and Groundwater

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
Navy. Tank Summary Report Prepared by Don Chuck	1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 88**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	ND (1)	150
TPH-e as diesel	--	--	ND (1)	400
Benzene	--	--	NS	4.4
Toluene	--	--	NS	2,700
Ethylbenzene	--	--	NS	3,100
Xylene	--	--	NS	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 106 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends site closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 106	UST 106	5,000	Gasoline

Note:  
UST     Underground Storage Tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
Unknown	No	Unknown	NA	NA	NA

Note:  
NA     Not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as compounds exceeding instrument detection limits

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
4	0

**REPORTS**

Author and Title	Date
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 106**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	NS	400
Benzene	--	--	NS	4.4
Toluene	--	--	NS	2,700
Ethylbenzene	--	--	NS	3,100
Xylene	--	--	NS	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND (50)	--	NS	50
TPH-e as diesel	UST106-SB-01 <sup>1</sup>	8/99	100	--	NS	700
Benzene	--	--	ND (0.5)	--	NS	1
Toluene	--	--	ND (0.5)	--	NS	680
Ethylbenzene	--	--	ND (0.5)	--	NS	1,000
Xylene	--	--	ND (1)	--	NS	1,750
MTBE	--	--	ND (1)	--	NS	13
TPH-e as JP-5	--	--	ND (100)	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	ND (100)	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- <sup>1</sup> Groundwater sample collected via Hydropunch. No additional samples are available from this location.
- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 110 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 110	Steel UST 110	2,000	Diesel

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	No	Removed	April 1994	NA	NA

Note:  
NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
0	0

**REPORTS**

Author and Title	Date
Navy. Tank Summary Report Prepared by Don Chuck	1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 110**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limit in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	ND (1)	400
Benzene	--	--	ND (0.1)	4.4
Toluene	--	--	ND (0.1)	2,700
Ethylbenzene	--	--	ND (0.1)	3,100
Xylene	--	--	ND (0.1)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	NS	--	NS	1
Toluene	--	--	NS	--	NS	680
Ethylbenzene	--	--	NS	--	NS	1,000
Xylene	--	--	NS	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 111 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends site closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 111	Steel UST 111	2,500	Fuel Oil

Note:  
UST     Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
Unknown	No	Closed In Place	November 1995	Rusted	NA

Note:  
NA     Not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
Yes	None

Note:  
<sup>1</sup> Contaminants are defined as compounds detected exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
4	0

**REPORTS**

Author and Title	Date
Navy. Tank Closure Summary Report Prepared by Don Chuck	1995
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 111**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limits in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	TK111-SP-001	11/1/95	0.13	150
TPH-e as diesel	TK111-SP-001	11/1/95	64.1	400
Benzene	--	--	ND (0.005)	4.4
Toluene	--	--	ND (0.005)	2,700
Ethylbenzene	--	--	ND (0.005)	3,100
Xylene	--	--	ND (0.005)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	ND (15)	NL
Naphthalene	--	--	ND (0.07)	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	UST111-SB-01	8/25/99	NS	NL
TPH-e as motor oil	--	--	12	NL
Benzo(a)pyrene	--	--	ND (0.0028)	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND (50)	--	--	50
TPH-e as diesel	--	--	ND (100)	--	--	700
Benzene	--	--	ND (0.5)	--	--	1
Toluene	--	--	ND (0.5)	--	--	680
Ethylbenzene	--	--	ND (0.5)	--	--	1,000
Xylene	UST111-SB-04	8/99	4.4	NS	NS	1,750
MTBE	--	--	ND (1)	--	--	13
TPH-e as JP-5	--	--	ND (100)	--	--	700
Naphthalene	--	--	NS	--	--	NL
2-Methylnaphthalene	--	--	NS	--	--	NL
TPH-e as other heavy components	--	--	NS	--	--	NL
TPH-e as other light components	--	--	NS	--	--	NL
TPH-e as kerosene	--	--	NS	--	--	NL
TPH-e as motor oil	--	--	ND (100)	--	--	NL
Benzo(a)pyrene	--	--	NS	--	--	NL

**Notes:**

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 112 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends site closure.
- The Navy recommends further action.

Tank 112 never existed; no soil or groundwater samples were collected. Therefore, there are no summary tables for soil or groundwater for Tank 112.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 116 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends site closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 116	Steel UST 116	5,000	Aviation Gasoline

Note:  
UST      Underground storage tank

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
1933	No	Removed	Unknown	Unknown	Unknown

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
Yes	Soil

Note:  
<sup>1</sup> Contaminants are defined as compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
4	0

**REPORTS**

Author and Title	Date
Navy. Tank Closure Summary Report Prepared by Don Chuck	1995
ECC. 1996. Draft Closure Report for Mod. #3. Underground Storage Tank Removal at Moffett Federal Airfield	January 1996
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 116**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg)	Screening Level
			(Detection limit in parentheses)	(mg/kg)
TPH-p as gasoline	TK116-EX-001	11/1/95	5.1	150
TPH-e as diesel	TK116-EX-003	11/1/95	371	400
Benzene	--	--	ND (0.005)	4.4
Toluene	TK116-EX-001	11/1/95	0.01	2,700
Ethylbenzene	TK116-EX-001	11/1/95	ND (0.006)	3,100
Xylene	TK116-EX-001	11/1/95	0.028	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L)		Most Recent Groundwater From Same Well (µg/L)		Screening Level (µg/L)
		Detection limit in parentheses)		Date		
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	ND (50)	--	--	50
TPH-e as diesel	--	--	NS	--	--	700
Benzene	--	--	ND (0.5)	--	--	1
Toluene	--	--	ND (0.5)	--	--	680
Ethylbenzene	--	--	ND (0.5)	--	--	1,000
Xylene	--	--	ND (1)	--	--	1,750
MTBE	--	--	ND (1)	--	--	13
TPH-e as JP-5	--	--	NS	--	--	700
Naphthalene	--	--	NS	--	--	NL
2-Methylnaphthalene	--	--	NS	--	--	NL
TPH-e as other heavy components	--	--	NS	--	--	NL
TPH-e as other light components	--	--	NS	--	--	NL
TPH-e as kerosene	--	--	NS	--	--	NL
TPH-e as motor oil	--	--	NS	--	--	NL
Benzo(a)pyrene	--	--	NS	--	--	NL

**Notes:**

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- N/A Not applicable
- ND Not detected
- NS Not sampled
- TPH Total petroleum hydrocarbons

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 123 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends site closure.
- The Navy recommends further action.

Tank 123 never existed; no soil or groundwater samples were collected.  
Therefore, there are no summary tables for soil or groundwater for Tank 123.

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT**

**TANK 130 CLOSURE CHECKLIST**

A tank closure checklist is included in this Executive Summary for each of the tanks assessed in this Tank Closure Report. Because all tanks were evaluated separately and are located far apart, each tank and its site conditions will be presented separately in the document.

- The Navy recommends tank closure.
- The Navy recommends further action.

**TANK INFORMATION**

Site Number	Tank Type and Number	Tank Size (gallons)	Contents
Tank 130	Sump 130	NA	Waste water from a battery locker

Note:  
 UST     Underground storage tank  
 NA     Information not available

**TANK INSTALLATION AND REMOVAL**

Date Installed	Active (Yes, No)	Closed In-place, Removed, Active	Date Closed	Condition of Tank	Condition of Piping
NA	NA	Closed In-place	NA	NA	NA

Note:  
 NA     Information not available

**LEAK AND CONTAMINATION**

Identified Source or Leak (Yes, No)	Contaminants Identified in Medium (Soil, Groundwater, None) <sup>1</sup>
No	None

Note:  
<sup>1</sup> Contaminants are defined as petroleum compounds exceeding instrument detection limits.

**INVESTIGATION CONDUCTED**

Number of Soil Borings	Number of Monitoring Wells
2	0

**REPORTS**

Author and Title	Date
PRC. Final Additional Petroleum Sites Investigation Technical Memorandum	August 1996
TtEMI. November 1999 Quarterly Report	May 2000

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
MAXIMUM CHEMICAL CONCENTRATIONS - TANK 130**

**SOIL**

Chemical	Sample Name	Date	Soil Concentration (mg/kg) (Detection limits in parentheses)	Screening Level (mg/kg)
TPH-p as gasoline	--	--	NS	150
TPH-e as diesel	--	--	NS	400
Benzene	--	--	ND (0.012)	4.4
Toluene	--	--	ND (0.012)	2,700
Ethylbenzene	--	--	ND (0.012)	3,100
Xylene	--	--	ND (0.012)	980
MTBE	--	--	NS	NL
TPH-e as JP-5	--	--	NS	NL
Naphthalene	--	--	NS	240
2-Methylnaphthalene	--	--	NS	NL
TPH-e as other heavy components	--	--	NS	NL
TPH-e as other light components	--	--	NS	NL
TPH-e as kerosene	--	--	NS	NL
TPH-e as motor oil	--	--	NS	NL
Benzo(a)pyrene	--	--	NS	0.26

**GROUNDWATER**

Chemical	Well Name	Maximum Concentration (µg/L) (Detection limit in parentheses)		Most Recent Groundwater from Same Well (µg/L)		Screening Level (µg/L)
		Date	Concentration	Date	Concentration	
TPH-p as gasoline	--	--	NS	--	NS	50
TPH-e as diesel	--	--	NS	--	NS	700
Benzene	--	--	ND (2)	--	NS	1
Toluene	--	--	ND (2)	--	NS	680
Ethylbenzene	--	--	ND (2)	--	NS	1,000
Xylene	--	--	ND (2)	--	NS	1,750
MTBE	--	--	NS	--	NS	13
TPH-e as JP-5	--	--	NS	--	NS	700
Naphthalene	--	--	NS	--	NS	NL
2-Methylnaphthalene	--	--	NS	--	NS	NL
TPH-e as other heavy components	--	--	NS	--	NS	NL
TPH-e as other light components	--	--	NS	--	NS	NL
TPH-e as kerosene	--	--	NS	--	NS	NL
TPH-e as motor oil	--	--	NS	--	NS	NL
Benzo(a)pyrene	--	--	NS	--	NS	NL

Notes:

- No information (not sampled or not detected)
- JP Jet petroleum
- µg/L Micrograms per liter
- mg/kg Milligrams per kilogram
- MTBE Methyl tertiary butyl ether
- ND No detections
- NL No defined screening level
- NS Not sampled
- TPH Total petroleum hydrocarbons

## 1.0 INTRODUCTION

The U.S. Navy requests closure of tank sites at Moffett Federal Airfield (MFA), Santa Clara County, California, that meet prescribed action levels for soil and groundwater. Tank sites at MFA are evaluated and closed separately from the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites under the guidance of the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). The ultimate goal of tank site evaluation at MFA is to obtain site closure with no further required action. RWQCB guidance drives tank site evaluation methodology and RWQCB ultimately grants site closure.

In 1994, RWQCB and the Navy reached agreement on petroleum action levels in groundwater and soil at MFA (California Environmental Protection Agency [Cal/EPA] 1994). Thirty tank sites that meet these action levels have been compiled in this document to expedite their closure. Petroleum site evaluation in this document is driven by the data quality objectives (DQOs) presented in Section 3.0. Included are tanks associated with Installation Restoration Program (IRP) Site 5 (Tanks 15, 18, 30, and 31), Site 14 (Tanks 67 and 68), Site 15 (Tanks 54, 59, 62, 62A, 63, 64, and 130) and Site 18 (Tank 66); also included are tank sites from other areas at MFA: Tanks 22, 28, 41B, 55, 57, 69, 77, 78, 86A, 86B, 88, 91, 106, 110, 111, and 116 (Figure 1). Five additional tank sites (Tanks 27, 51, 65, 112 and 123) where tanks were never installed are also addressed. Other tank areas at MFA that do not meet the action levels are evaluated further in appendices to the Final Basewide Petroleum Site Evaluation Methodology Technical Memorandum (TM) (Tetra Tech EM Inc. [TtEMI] 1998).

This tank site closure report is organized as follows. Section 2.0 presents regulatory background information and summarizes the evaluation criteria to be used for each site. Section 3.0 presents data quality objectives. Section 4.0 presents background, previous tank site investigations, physical site characteristics, the nature and extent of contamination, a low-risk criteria checklist, and conclusions for each tank site. Risk assessments are not included in this document because all tank sites meet the agreed upon action levels discussed in Section 2.0. Section 5.0 describes basewide geology. Section 6.0 discusses the conclusion for the tank sites closure report. Section 7.0 presents references cited. Figures and tables are located after Section 7.0.

Appendices follow the figures and tables. Appendix A presents Santa Clara County Tank Closure Inspection Information, and Appendix B presents soil borehole logs and monitoring well diagrams. The RWQCB request-for-no-further-action Access database will be provided with the final version of this report.

## 2.0 REGULATORY BACKGROUND

In 1994, Cal/EPA, including the Department of Toxic Substances Control (DTSC) and RWQCB, and the Navy reached consensus on petroleum action levels in groundwater and soil at MFA (Cal/EPA 1994). The action levels were set for total petroleum hydrocarbons (TPH) and individual petroleum constituents. The groundwater action goals were set at the maximum contaminant levels (MCLs) for the constituents of concern; for individual benzene, toluene, ethylbenzene, and xylene (BTEX) action levels in soils, the risk-based U.S. Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs) for industrial sites were selected (Cal/EPA 1994). Groundwater and soil action levels for TPH are separated into two main categories: TPH purgeable (TPH-p) as gasoline and BTEX, and TPH extractable (TPH-e) as diesel or jet petroleum (JP)-5. These action levels for soil and groundwater are summarized below.

Constituent	Soil milligrams per kilogram (mg/kg)	Groundwater micrograms per liter (µg/L)
TPH-p	150	50
TPH-e	400	700
Benzene	4.4	1
Toluene	2,700	680
Ethylbenzene	3,100	1,000
Xylene	980	1,750

These action levels are considered to be conservative (protective) because the State of California petroleum corrective action philosophy and approach changed significantly in 1995 (TtEMI 1998). Although the California State Water Resources Control Board (SWRCB) revised its policy for petroleum sites, tank areas evaluated in this document all meet the more protective action levels established for MFA in 1994.

In March 1999, the California Department of Health Services (DHS) established an action level for methyl tertiary butyl ether (MTBE). The California drinking water action level for MTBE is 13 micrograms per liter (µg/L). In addition, pursuant to State of California Health and Safety Code 25299.37.1 (amended by California State Senate Bill 989), testing for MTBE is required for all underground storage tank (UST) sites that may have contained gasoline before RWQCB can issue a closure letter. The presence of MTBE may be assessed by direct sampling or by reviewing TPH-p chromatograms of a groundwater sample downgradient from the tank area. As agreed upon by the Navy and RWQCB, if the chromatogram does not indicate the presence of MTBE, closure may be

recommended. If the review indicates the presence of MTBE, the recommended action is closure, conditional on the collection of one groundwater sample with an MTBE result less than 13 µg/L.

### **3.0 DATA QUALITY OBJECTIVES**

DQOs for petroleum sites at MFA direct the methodology of this evaluation. The following sections identify and respond to the seven steps identified in EPA's DQO Process for Superfund (EPA 1999). The seven steps are summarized in Table 1.

#### **3.1 STEP 1: STATE THE PROBLEM**

Twenty of the 35 tank sites evaluated in this document contained petroleum products that may have been released to the environment. The problem is to determine whether concentrations of petroleum products in soil and groundwater at each site exceed action levels. Chemicals of concern (COCs) identified in soil and groundwater include TPH-e as diesel, JP-5, motor oil, other heavy and light TPH components, TPH-p as gasoline, and BTEX constituents. Potential exposure pathways and receptors are illustrated in the petroleum conceptual site model (Figure 2). Potential exposure pathways include infiltration to groundwater; groundwater transport; volatilization of contaminants into the atmosphere; migration of volatiles into enclosed space; and exposure to contaminated soils. Potential receptors include surface water, groundwater, supply wells, ecological receptors, and occupational and construction workers. Potential exposure pathways and receptors for petroleum site at MFA are discussed in more detail in the TM.

#### **3.2 STEP 2: IDENTIFY THE DECISION**

The tank site evaluation is designed to provide the information required to make the following decisions (Figure 3):

- Has a petroleum release occurred?
- Do concentrations of petroleum constituents in soil or groundwater exceed action levels?
- Can site closure be requested based on existing MTBE data? (Is the MTBE concentration below 13 µg/L?)

#### **3.3 STEP 3: IDENTIFY THE INPUTS TO THE DECISION**

The decisions for tank site closure are evaluated using historical site or tank information, soil and groundwater data from previous investigations, and regulatory guidance. Tank removal observations and

soil and groundwater data are used to assess whether a petroleum release has occurred. Constituent concentrations are evaluated based on investigation data. Action levels are the values agreed upon between RWQCB and the Navy in 1994.

### **3.4 STEP 4: DEFINE THE STUDY BOUNDARIES**

The study boundaries are defined as the area surrounding each tank site that may have been affected by a petroleum release. Investigation data were collected in the area where releases were suspected to have occurred based on tank locations, field observations of the release, and groundwater flow direction. Soil and groundwater samples were collected from the tank excavations, upgradient, and up to 120 feet downgradient of the tank locations. Sample locations for each site are discussed in Section 4.0.

### **3.5 STEP 5: DEVELOP A DECISION RULE**

The following decision rules were used in tank site evaluation:

- **Petroleum release:** If petroleum is observed in the excavation, soil or groundwater results indicate the presence of petroleum constituents, or holes or cracks were observed in the tank or tank piping, then it is assumed that a petroleum release has occurred and the next decision rule will be evaluated. If a petroleum release is not evidenced, MTBE will be evaluated if the tank held gasoline. If a release is not evident and the tank did not hold gasoline, then the site will be recommended for closure.
- **Action levels:** If soil and groundwater results do not exceed the action levels, then the next decision rule will be evaluated. If soil and groundwater results exceed the action levels, then the petroleum site will be evaluated further in an appendix to the TM.
- **MTBE:** If there are MTBE data indicating concentrations less than 13 µg/L, then site closure will be requested. If there are no MTBE data, or MTBE results exceed 13 µg/L, then further evaluation will be required.

### **3.6 STEP 6: SPECIFY LIMITS ON DECISION ERRORS**

Limits on decision errors are specified to limit uncertainty in the analytical data and in the results of statistical tests. Areas of uncertainty in the analytical data include error related to the analytical method, sampling, and sample heterogeneity. Measurement quality objectives (MQOs) were established to verify that data quality and quantity requirements were met. The analytical uncertainties were checked through established quality assurance and quality control (QA/QC) procedures.

Limiting decision errors due to sampling design goals was not directly applicable to this investigation because the primary objective of tank site investigations is to assess whether a release of petroleum has

occurred. Sampling was performed using a judgmental sampling design to target areas of potential release. Because a nonprobability-based design was used, the number of samples collected was not determined by statistical analysis of existing data (EPA 1999).

### **3.7 STEP 7: OPTIMIZING THE DESIGN FOR OBTAINING DATA**

Sample locations were selected using a nonprobability-based design on a biased basis using site-specific information, such as tank location and groundwater flow directions, to identify the presence of petroleum releases. Because a nonprobability-based design was used, the number of samples collected was not determined by statistical analysis of existing data (EPA 1999); instead, it was based on site-specific information such as tank location, known spill area, tank contents, and groundwater flow direction.

## **4.0 SITE BACKGROUND, PREVIOUS INVESTIGATIONS, NATURE AND EXTENT OF CONTAMINATION, LOW-RISK CRITERIA CHECKLIST, AND CONCLUSIONS**

The following sections are subdivided into subsections: site history, investigation efforts, nature and extent of contamination, a low-risk criteria checklist presented in Table 2, and a conclusion for each site. Tanks, as used in this report, refer to liquid storage or diversion structures, and include USTs, a stormwater diversion box, sumps, and oil/water separators. Although some sites contained sumps or catch basins, they are all referred to by their tank number in this report for consistency.

### **4.1 TANK 15**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### **4.1.1 Background**

Tank 15 was a 1,000-gallon diesel UST used to supply fuel to an emergency generator. The tank was located between the two parallel runways, approximately 20 feet west of Building 252 (radar building) (Figure 4). The tank was installed in a revetment with only a few feet of the tank below ground surface. Tank 15 was located at these coordinates: latitude 37.42027 and longitude 122.05021. Santa Clara County Tank Closure Inspection Information is provided in Appendix A.

#### **4.1.2 Previous Tank-Site Investigation**

Tank 15 was removed in December 1992 and the tank was in good condition. Three soil samples were collected at the time of the excavation. In July 1993, the Navy conducted an additional removal action to overexcavate the area. The excavation was extended north, where soil was stained and a petroleum odor was observed. This excavation was extended northward approximately 6 to 8 feet from the north end of the original excavation where a concrete electrical conduit was encountered (PRC 1995a). One soil sample was collected on each side of this conduit. The excavated material was transported to a staging area for later treatment or disposal and the excavation was backfilled with clean material. No water was observed in the excavation.

#### **4.1.3 Physical Site Characteristics**

Tank 15 was located in a grassy area between the runways near a radar building (Building 252). The nearest surface water body is the stormwater retention pond over 3,000 feet to the north.

#### **4.1.4 Nature and Extent of Contamination**

Tank 15, associated piping, or overfills were the potential sources of contamination at the Tank 15 area. The tank has been removed and the area was overexcavated. No free product was encountered during investigations at Tank 15. Three soil samples were collected during the initial investigation (Tank 15-South, Tank 15-North, and Tank 15-Pipe) and analyzed for TPH-e as diesel and BTEX. During this initial investigation, TPH-e as diesel was detected at concentrations exceeding cleanup criteria in the north soil sample (Tank 15-North) at 4,400 mg/kg. No other petroleum compound was detected at concentrations greater than action levels. A subsequent investigation in July 1993 removed the soil surrounding the Tank 15-North sample. The soil samples TN15-S-001 and TN15-S-002 collected during this investigation did not contain petroleum compounds above action levels. The following table presents data that are indicative of maximum petroleum constituent concentrations that remain in soil. All soil data are presented in Table 3. Groundwater was not encountered in the excavation; therefore, groundwater samples were not collected from this investigation.

TANK 15 INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	NA	32	NA	ND (0.005)	0.0057	0.014	0.15
<i>Soil Action Levels</i>	<i>150</i>	<i>400</i>	<i>400</i>	<i>4.4</i>	<i>2,700</i>	<i>3,100</i>	<i>980</i>

Notes:

NA Not analyzed

ND Nondetect

#### 4.1.5 Low-Risk Criteria

Tank 15 meets the low-risk soil and groundwater criteria evaluation summarized in Table 2.

#### 4.1.6 Conclusion

Tank 15 was removed in 1992. Although, TPH-e as diesel was detected above action levels in one sample in 1992, the soil surrounding this sample was excavated in a second field investigation in 1993. Soil samples from the 1993 excavation and areas not overexcavated in 1992 did not contain petroleum constituent concentrations greater than action levels. Because Tank 15 held diesel, MTBE is not a potential contaminant of concern at this site. The Navy, therefore, recommends closure for Tank 15.

### 4.2 TANK 18

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### 4.2.1 Background

Former Tank 18 was located near Building 300 (Figure 5). Tank 18 was a 935-gallon diesel storage UST. Personnel in Building 300 used this tank to supply diesel to emergency generators. Former Tank 18 was located at these coordinates: latitude 37.41290 and longitude 122.03882. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 18.

#### **4.2.2 Previous Tank-Site Investigation**

The Navy Public Works Center (PWC) removed Tank 18 in April 1994 (ERM-West 1995). After tank removal, two soil samples were collected from the excavation (Table 4). Tank removal and excavation sampling were the only activities that occurred at Tank 18 (ERM-West 1995). No groundwater samples were collected from the excavation. A nearby monitoring well (W05-09), less than 50 feet away, was sampled 11 times between October 1988 and April 1992 (Table 5).

#### **4.2.3 Physical Site Characteristics**

Tank 18 was located in a grassy area with a slight slope to the north. The nearest surface water bodies are the Northern Channel and North Patrol Road Ditch, located more than 5,000 feet north.

#### **4.2.4 Nature and Extent of Contamination**

PWC removed Tank 18 and piping, the potential sources of soil and groundwater petroleum contamination at the Tank 18 area, in April 1994. No free product was encountered during investigations at Tank 18. Following tank removal, two soil samples were collected from the excavation and analyzed for TPH-e and BTEX. The following paragraphs summarize sample location and analysis.

After tank removal, samples 065037-12 and 065037-13 were collected at locations 18A and 18B. These samples were obtained from the sidewalls of the excavated trench at a depth of 5.5 feet. The samples were analyzed for TPH-e and BTEX. Petroleum compound concentrations were not detected greater than action levels (Table 4).

No groundwater samples were collected from the excavation. A nearby monitoring well (W05-09), less than 50 feet away, was sampled 11 times between October 1988 and April 1992 for TPH-e as (JP-5) and BTEX compounds (Table 5). Because Tank 18 held diesel, MTBE is not a potential COC. The following table presents maximum concentrations of COCs detected in soil and groundwater after the removal investigation. COCs were not detected in soil or groundwater at concentrations greater than action levels. Tank 18 soil and groundwater data are summarized in the table below.

TANK 18 INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	NA	5	ND (10)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
<i>Soil Action Levels</i>	<i>150</i>	<i>400</i>	<i>400</i>	<i>4.4</i>	<i>2,700</i>	<i>3,100</i>	<i>980</i>
Groundwater (µg/L)	NA	NA	ND (0.25- 250)	ND (5)	ND (5)	ND (5)	ND (5)
<i>Groundwater Action Levels</i>	<i>50</i>	<i>700</i>	<i>700</i>	<i>1</i>	<i>680</i>	<i>1,000</i>	<i>1,750</i>

Notes:

NA Not analyzed  
 ND Nondetect

#### 4.2.5 Low-Risk Criteria

Tank 18 meets the low-risk soil and groundwater criteria presented in Table 2.

#### 4.2.6 Conclusion

Tank 18 was removed in 1994. TPH-e as diesel was detected at concentrations less than action levels in one soil sample and no BTEX compounds were detected. Groundwater samples were not collected during the Tank 18 removal; however, TPH-e and BTEX results from a nearby monitoring well were nondetect. MTBE is not a concern because Tank 18 held diesel. The Navy, therefore, recommends closure for Tank 18.

### 4.3 TANK 22

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### 4.3.1 Background

Tank 22 was located near the northwest corner of Building 484, in the Area 3 ammunition bunker compound (Figure 6). Tank 22 was a 600-gallon steel UST that stored diesel fuel for an emergency generator located inside Building 484. Former Tank 22 was located at these coordinates: latitude

37.42634 and longitude 122.04475. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 22.

#### **4.3.2 Previous Tank-Site Investigation**

Tank 22 was removed on December 18, 1992 (PRC 1996). During tank removal, two soil samples (22E and 22W) were collected from underneath the tank and a water sample (22) was collected from water present in the excavation. In 1993, Navy personnel excavated additional soil east and west of the former tank location and collected two soil samples (TN22-SL-N-001 and TN22-SL-S-001) (Figure 6).

In June through August 1995, TtEMI (formerly known as PRC Environmental Management, Inc.) collected five soil samples from two hand-auger borings (GPT22-1 and GPT22-2) (Figure 6). Soil boring SBT22-1 was advanced during installation of monitoring well WT22-1. Well WT22-1 was completed at the center of the tank excavation. Soil samples were selected by screening with a photoionization detector (PID). None of these samples exhibited any observable petroleum contamination. Groundwater samples were collected from the two locations (GWT22-1 and GWT22-2). Groundwater samples were collected four times between August 1995 and November 1996 and again in 1999 from well WT22-1. Soil sample data are presented in Table 6 and groundwater sample data are presented in Table 7.

#### **4.3.3 Physical Site Characteristics**

Tank 22 was located in a grassy area on the north side of MFA with a slight slope to the north. The nearest surface water body, the North Patrol Road Ditch, is located about 50 feet to the north. Beyond the North Patrol Road Ditch are the Northern Channel (75 feet north of the former Tank 22), and Cargill saltwater evaporation pond which lies another 100 feet to the north. Water from the North Patrol Road Ditch is pumped into the Northern Channel at a pump station located about 0.5 miles to the west of Tank 22.

#### **4.3.4 Nature and Extent of Contamination**

Tank 22 and piping, potential sources of soil and groundwater petroleum contamination at the Tank 22 area, have been removed. Furthermore, free product has not been encountered at the site. The following paragraphs summarize sample locations and sample analysis.

Soil grab samples from the excavation, overexcavation, and borings were analyzed for TPH-p, TPH-e, and BTEX. COCs in soil were not detected in soil at concentrations greater than action levels. Soil grab samples are summarized in the following table and presented in Table 6. Soil samples Tank 22 (E) and Tank 22 (W) were collected during tank removal. Soil samples TN22-SL-S-001 and TN22-SL-N-001 were collected by the Navy during overexcavation.

TANK 22 INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	ND (1.2-0.61)	ND (1.2)	ND (1.2)	ND (0.006)	ND (0.006)	ND (0.006)	ND (0.006)
Soil Action Levels	150	400	400	4.4	2,700	3,100	980

Note:

ND Nondetect

Groundwater was sampled from well WT22-1 between August 1995 and November 1996 for TPH-p as gasoline, TPH-e as diesel and JP-5, and BTEX. In August 1999, well WT22-1 was sampled for BTEX and MTBE. COCs were not detected in groundwater at concentrations greater than action levels.

Furthermore, MTBE was not detected in the 1999 groundwater sample. The following table summarizes the groundwater sample analysis from well WT22-1. Table 7 presents results from all groundwater samples collected at well WT22-1.

TANK 22 (Well WT22-1) GROUNDWATER SAMPLING SUMMARY							
Sample Dates	Maximum Concentration (µg/L) (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
August 1995	ND (50)	280	ND	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
February 1996	37 <sup>1</sup>	130 <sup>2</sup>	ND	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
August 1996	ND (50)	300 <sup>3</sup>	ND	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
November 1996	ND (50)	260 <sup>2</sup>	ND	ND (0.5)	0.32 <sup>1</sup>	ND (0.5)	ND (0.5)
August 1999	NA	NA	NA	ND (1)	ND (1)	ND (1)	ND (1)
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

Notes:

NA Not analyzed

ND Nondetect

<sup>1</sup> Estimated concentration

<sup>2</sup> Chromatogram did not resemble fuel pattern.

<sup>3</sup> Chromatogram did not resemble diesel pattern.

#### **4.3.5 Low-Risk Criteria**

Tank 22 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

#### **4.3.6 Conclusion**

Tank 22 was removed in 1992. Petroleum compounds have not been detected in soil or groundwater samples at concentrations exceeding action levels. Furthermore, MTBE has not been detected at Tank 22 area. Therefore, Navy recommends closure for Tank 22.

#### **4.4 TANK 27**

Tank 27 never existed. Tank 27 is included in Table 2, the low-risk soil and groundwater criteria evaluation, to complete the list of all tanks evaluated in this document.

#### **4.5 TANK 28**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

##### **4.5.1 Background**

Tank 28 was located approximately 2 feet west of Building 563 at the north end of the fuel pier (Figure 7). The 150-gallon UST stored diesel for a back-up generator in Building 563. Tank 28 was located at these coordinates: latitude 37.43550 and longitude 122.02648. Santa Clara County Tank Closure Inspection Information is presented in Appendix A.

##### **4.5.2 Previous Tank-Site Investigation**

Tank 28 was removed in June 1991 and appeared in to be good condition with no holes observed (Quorum 1991). A concrete slab was observed below the tank; soil in the excavation and around the slab did not exhibit discoloration or hydrocarbon odor. Soil sample (S-5-T28) was taken at the excavation. Groundwater was not present in the excavation, so no groundwater sample was collected.

#### 4.5.3 Physical Site Characteristics

Tank 28 was located on a berm at the north end of the fuel pier. The nearest surface water body is Cargill saltwater evaporation pond within 15 feet of the former tank location; however, contamination has not been encountered during the investigation.

#### 4.5.4 Nature and Extent of Contamination

Tank 28, the only potential source of contamination in the area surrounding the tank, was removed in 1991. Furthermore, free product has not been encountered at the site. One soil sample was collected at the Tank 28 excavation and motor oil was the only petroleum compound detected at the site.

Groundwater was not encountered in the excavation; therefore, groundwater has not been sampled. Also, because the tank did not hold gasoline, MTBE is not a potential contaminant of concern. The following table presents maximum petroleum concentrations at the Tank 28 excavation. Table 8 presents analytical data for the soil sample collected near Tank 28.

TANK 28 INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	NA	ND (10)	NA	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
<i>Soil Action Levels</i>	<i>150</i>	<i>400</i>	<i>400</i>	<i>4.4</i>	<i>2,700</i>	<i>3,100</i>	<i>980</i>
Groundwater (µg/L)	NA	NA	NA	NA	NA	NA	NA
<i>Groundwater Action Levels</i>	<i>50</i>	<i>700</i>	<i>700</i>	<i>1</i>	<i>680</i>	<i>1,000</i>	<i>1,750</i>

Notes:

NA Not analyzed  
 ND Nondetect

#### 4.5.5 Low-Risk Criteria Evaluation

Tank 28 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

#### 4.5.6 Conclusion

Tank 28 has been removed and the only petroleum compound detected was TPH-e as motor oil at 16 mg/kg. Other petroleum compounds were not detected. Because Tank 28 did not hold gasoline, MTBE is not a potential contaminant of concern. The Navy, therefore, recommends closure for Tank 28.

## **4.6 TANKS 30 AND 31**

The following subsection describes previous work conducted at these tanks, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

### **4.6.1 Background**

Tanks 30 and 31 were located in the northern section of IRP Site 5 (Figure 8). Both tanks were 4,500-gallon USTs originally installed to hold cleaning solvents. According to Navy personnel, tank installations were not completed, and Tanks 30 and 31 were never used (PRC 1994). The tanks have been included in this report to expedite site closure. Former Tanks 30 and 31 were located at these coordinates: Tank 30 latitude 37.41935 and longitude 122.03682; and Tank 31 latitude 37.41933 and longitude 122.03666. Santa Clara County Tank Closure Inspection Information is not currently available for Tanks 30 and 31.

### **4.6.2 Previous Tank-Site Investigation**

Tanks 30 and 31 were removed in December 1992. No soil contamination was observed during the excavation. The area was backfilled with the excavated soil, and additional soil was brought in to fill the area of the removed tank. Soil samples from the removal of Tanks 30 and 31 were not collected since the USTs were never used.

### **4.6.3 Physical Site Characteristics**

The tank site is located in the northern section of IRP Site 5. The area is relatively flat with a slight slope to the north. The nearest surface water bodies are the Northern Channel and North Patrol Road Ditch, more than 3,000 feet to the north.

### **4.6.4 Nature and Extent of Contamination**

Tanks 30 and 31 were never used; therefore, no soil or groundwater samples were collected for these tanks.

#### **4.6.5 Low-Risk Criteria**

Tanks 30 and 31 were never used; however, both Tanks 30 and 31 are included on Table 2, the low-risk criteria evaluation, indicating that there is no risk from these two tanks.

#### **4.6.6 Conclusion**

Tanks 30 and 31 were removed in 1992. Installation was not completed and the tanks were never used; consequently, no soil or groundwater samples were taken. The Navy, therefore, recommends closure for Tanks 30 and 31.

#### **4.7 TANK 41B**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

##### **4.7.1 Background**

Tank 41B was a 3,000 gallon oil/water separator. Tank 41B was located about 4 feet west of the Building 503 (NEX) (Figure 9). Tank 41B was formerly located at these coordinates: latitude 37.40952 and longitude 122.05251. Santa Clara County Tank Closure Inspection Information is presented in Appendix A.

##### **4.7.2 Previous Tank-Site Investigation**

Tank 41B was removed in January 1993. Two soil samples (Tank 41B [W] and Tank 41B [E]) were collected at the bottom of the excavation at the time of the removal. The samples were analyzed for TPH-p as gasoline and BTEX. TPH-p as gasoline and BTEX were detected in sample 41B(E). No groundwater was present in the excavation, therefore, no groundwater samples were collected.

##### **4.7.3 Physical Site Characteristics**

Tank 41B was located near Building 503 (the naval exchange [NEX] service station). The nearest surface water body, the stormwater retention pond, is located over 6,000 feet north.

#### 4.7.4 Nature and Extent of Contamination

Tank 41B, the potential source of contamination at the area, was removed in January 1993. No free product was encountered at the site. The following paragraph summarizes soil sample locations and analysis. Soil sample concentrations are less than action levels. Groundwater was not present in the excavation.

Data collected during the January 1993 removal action are presented in Table 9 and in the closure reports for USTs 15, 28, 78, 88, and 41B (PRC 1995a). Two soil samples were collected at the time of removal and analyzed for TPH-p and BTEX. Soil sample Tank 41B (W), collected at the bottom of the excavation at the west end at an estimated depth of 11 feet below ground surface (bgs), did not have detectable concentrations of TPH-p or BTEX. Soil sample Tank 41B (E), collected at the bottom of the excavation at the east end at an estimated depth of 11 feet bgs, contained TPH-p and BTEX concentrations near the detection limit. The following table presents the detections at the Tank 41B excavation. Because groundwater was not encountered, MTBE was not analyzed. The concentrations of petroleum compounds, in soil are minimal indicating that groundwater impact is unlikely.

TANK 41B INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	4.6	NA	NA	0.012	0.085	0.061	0.041
Soil Action Levels	150	400	400	4.4	2,700	3,100	980

Notes:

NA Not analyzed

#### 4.7.5 Low-Risk Criteria Evaluation

Tank 41B meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

#### 4.7.6 Conclusion

Tank 41B was removed in 1993. TPH-p and BTEX have been detected below the action levels. Therefore, the Navy recommends closure for Tank 41B.

#### **4.8 TANK 51**

Tank 51 never existed. Tank 51 was once believed to be near the NEX service station. However, site investigations and interviews with former workers revealed that Tank 51 never existed. Tank 51 is included in Table 2 for a complete list of all tanks addressed in this document.

#### **4.9 TANK 54**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

##### **4.9.1 Background**

Former Tank 54 was located near Hangar 3 (Figure 11). Tank 54 was a 1,620-gallon wastewater UST for paint activities at the hangar. This tank was used by the aircraft intermediate maintenance department (AIMD) paint shop (PRC 1993). Tank 54 was located at these coordinates: latitude 37.41699 and longitude 122.04062. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 54.

##### **4.9.2 Previous Tank-Site Investigation**

Tank 54 was removed in December 1992. After Tank 54 was removed, soil around the tank was overexcavated and disposed of off site. Three soil samples were collected from the Tank 54 excavation, samples 54N, 54S, and 54; the sample depths are unknown. Tank removal and excavation sampling were the only activities that occurred at Tank 54 (PRC 1994).

##### **4.9.3 Physical Site Characteristics**

Tank 54 was located along the east side of Hangar 3. The area surrounding Tank 54 is paved. The nearest surface water bodies are the Northern Channel and North Patrol Road Ditch, located more than 4,000 feet to the north.

#### 4.9.4 Nature and Extent of Contamination

The potential sources of soil and groundwater petroleum contamination at the Tank 54 area were Tank 54 and associated piping. These sources have been removed. Furthermore, free product has not been encountered at the site. Neither soil nor groundwater contamination has been detected at concentrations exceeding action levels at Tank 54. The following paragraphs summarize sample locations and sample analysis.

Three soil samples were collected from the Tank 54 excavation, samples 54N, 54S, and 54; the sample depths are unknown. No groundwater samples were collected during tank removal; however, because no petroleum compounds exist in soil, it is unlikely that groundwater was affected. Tank 54 removal data are summarized in the table below and presented in Table 10. Tank 54 was removed in 1992. The site was overexcavated, and the soil was removed off site. Because Tank 54 did not contain gasoline, MTBE is not a potential contaminant.

TANK 54 INVESTIGATION DATA SUMMARY							
Medium	Maximum Concentration (Detection limit in parentheses)						
	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	ND (1)	ND (1)	ND <sup>1</sup>				
Soil Action Levels	150	400	400	4.4	2,700	3,100	980

Notes:

ND Nondetect

<sup>1</sup> Detection limits unknown

#### 4.9.5 Low-Risk Criteria

Tank 54 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

#### 4.9.6 Conclusion

Tank 54 was removed in 1992. The site was overexcavated, and the soil was removed off site. No groundwater samples were collected during tank removal; however, because no petroleum compounds exist in soil, it is unlikely groundwater was affected. Tank 54 did not contain gasoline; therefore, MTBE is not a potential contaminant and samples were not analyzed for MTBE. The Navy recommends closure for Tank 54.



During investigations at the former Tank 55 area, both soil and groundwater were sampled. Soil was sampled during the initial investigation in 1995 from three soil borings at Geoprobe locations GPT55-1 through GPT55-3 (Figure 11). A PID was used to screen the soils removed from each location for petroleum contamination; no contamination was observed. One additional soil sample (SRT55-1) was collected during installation of monitoring well MWTS5-1. None of the soil or groundwater samples contained petroleum constituent concentrations exceeding action levels. Soil sample analyses (offsite laboratory data only) are presented in Table 11 and summarized in the table following the next paragraph.

Groundwater samples GWT55-1 and GWT55-2 were collected from Geoprobe soil borings GPT55-1 and GPT55-2. No groundwater samples were collected from GPT55-3 because no groundwater entered the 9-foot-deep boring. Groundwater samples GWT55-1 and GWT55-2 were collected by lowering disposable bailers directly into the Geoprobe borings. Groundwater data from these Geoprobe locations are included in Table 12 and summarized in the table below.

TANK 55 INVESTIGATION DATA SUMMARY							
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
	Maximum Concentrations (Detection limit in parentheses)						
Soil (mg/kg)	ND (0.56)	49	ND (28)	ND (0.00056)	ND (0.00056)	ND (0.00056)	ND (0.00056)
Soil Action Levels	150	400	400	4.4	2,700	3,100	980
Groundwater (µg/L)	ND (50)	ND (50)	ND (50)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

Notes:

ND Nondetect

TEMI installed monitoring well WTS5-1 and groundwater samples were collected four times from August 1995 to May 1997. The May 1997 sample was also analyzed for MTBE. All results were within action levels with one exception. Benzene was detected in the May 1997 sample at 6 µg/L. Because all other benzene results were nondetect, this result may represent an anomaly. Well WTS5-1 was sampled in August 1999. Petroleum constituents were not detected in this sample. The following table summarizes groundwater data from well WTS5-1. All groundwater data are presented in Table 12.



extended east from the auto shop service bays to the tank. Tank 57 was formerly located at these coordinates: latitude 37.40519 and longitude 122.05032. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 57.

#### 4.11.2 Previous Tank-Site Investigations

Tank 57 was removed in June 1991 by Envirotox (Quorum 1991, also included in Navy 1995a). Tank 57 was first investigated during tank removal in June 1991. Two soil samples (S-7-T57N and S-6-T57S) were collected from the floor of the excavation (PRC 1996). Navy personnel excavated additional soil during August 1991, which revealed visible contamination on the western sidewall (Figure 12). One soil sample (S-10-T57) was collected during the August 1991 excavation. No groundwater was observed during tank removal or subsequent excavation.

In 1995, TEMI used a Geoprobe to collect continuous soil cores from four locations, GPT57-1 through GPT57-4 (Figure 12). A PID was used to field screen the soil cores for petroleum contamination. Four samples collected at depths ranging from 4.5 to 8.5 feet bgs. One additional soil sample (from boring SBT57-1) was collected during installation of monitoring well WT57-1. Laboratory analytical soil data are included in Table 13.

Groundwater samples GWT57-1 through GWT57-4 were collected from the Geoprobe borings. Samples were collected directly from the boring with disposable bailer or a peristaltic pump. Monitoring well WT57-1 was installed about 8 feet northwest of the former tank location. Geoprobe coring indicated that groundwater was present at 5.5 feet bgs. The well was subsequently screened from 5 to 10 feet bgs. After installation, less than 1 inch of water was observed in well WT57-1, and the well could not be developed. Over time, the conditions at the well have improved, allowing limited development of the well and purging and sampling of the well. The well was first sampled in 1996 and was sampled for three additional quarters. Well WT57-1 was also sampled in August 1999. Laboratory analytical results are included in Table 14.

#### 4.11.3 Physical Site Characteristics

Tank 57 was located just east of Building 544. The area is paved with asphalt with a slight slope to the north. The nearest surface water body is the stormwater retention ponds, located more than 8,000 feet to the north.



Tank 57 was removed in 1991. No COCs were detected in concentrations exceeding action levels during the excavations in 1991. No COCs were detected in soil samples collected during the 1995 investigation. Four quarters of groundwater monitoring results indicate petroleum constituents were less than action levels, except for one sample. The May 1997 benzene concentration exceeded action levels; but the result was most likely an anomaly because the August 1999 result was nondetect for benzene. MTBE sample results for May 1997 and August 1999 were nondetect. The Navy, therefore, recommends closure for Tank 57.

**4.11.6 Conclusion**

Tank 57 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

**4.11.5 Low-Risk Criteria**

NA Not analyzed  
 ND Nondetect  
 Estimated concentration, concentration below detection limit

Notes:

TANK 57 (Well WT57-1) GROUNDWATER SAMPLING SUMMARY							
Sample Dates	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
	Maximum Concentration (µg/L) (Detection limit in parentheses)						
February 1996	38 <sup>1</sup>	88 <sup>1</sup>	ND	ND (0.5)	0.92	0.40 <sup>1</sup>	ND (0.5)
November 1996	ND (50)	NA	NA	ND (0.5)	0.20 <sup>1</sup>	ND (0.5)	ND (0.5)
February 1997	ND (50)	ND (100)	ND (100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
May 1997	ND (50)	ND (100)	ND (500)	2.0	ND (0.5)	0.4 <sup>1</sup>	0.5 <sup>1</sup>
August 1999	NA	NA	NA	ND (1)	ND (1)	ND (1)	ND (1)
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

All groundwater samples from well WT57-1 were within action levels except for one. Benzene results were nondetect until the May 1997 sample result (2.0 µg/L). BTEX constituents were not detected in a sample collected from well WT57-1 in August 1999, indicating that the May 1997 benzene result was an anomaly. Groundwater samples from May 1997 and August 1999 were analyzed for MTBE, but it was not detected in either sample. Groundwater laboratory analytical results from well WT57-1 are included in Table 14 and summarized in the following table.





#### 4.13.1 Background

Tanks 62 and 62A are concrete recirculation tanks located inside Building 45 (Navy 1995a). Figure 14 illustrates their locations. Tanks 62 and 62A still exist, but are inactive. These two tanks held water that removed paint particles from air. Paint particles were separated from the water in these two tanks and the water was either returned to the paint booth for reuse or discharged to another tank, Sump 61 (not discussed in this document) (Navy 1995a). Operations at Building 45 ceased in October 1992 (PRC 1993). Subsequently, Tanks 62 and 62A were drained and cleaned; the tanks currently remain inactive. Tank 62 is located at these coordinates: latitude 37.41330 and longitude 122.05427. Tank 62A is located at these coordinates: latitude 37.41326 and longitude 122.05426. Santa Clara County Tank Closure Inspection Information is not currently available for Tanks 62 and 62A.

#### 4.13.2 Previous Tank-Site Investigation

Two soil borings (B45-3 and B45-4) were advanced under the sumps by drilling through the concrete tank bottom (Navy 1995a). One soil sample was collected from each boring. Grab groundwater samples were collected from both boreholes. Groundwater samples were analyzed for the same constituents as the soil samples.

#### 4.13.3 Physical Site Characteristics

Tanks 62 and 62A are concrete recirculation tanks located inside Building 45. The nearest surface water body is the stormwater retention pond, more than 5,000 feet to the north.

#### 4.13.4 Nature and Extent of Contamination

Tank 62 and 62A and their piping, potential sources of soil and groundwater contamination at the Tank 62 and 62A area, have been cleaned and remain inactive. Furthermore, free product has not been encountered at the site. The following paragraphs summarize sample locations and sample analyses.

Two soil borings were advanced under the sumps by drilling through the concrete tank bottom. No petroleum constituents were detected in either of the soil samples. Grab groundwater samples were collected from both boreholes. No petroleum constituents were detected in the two groundwater samples (Navy 1995a). Tanks 62 and 62A data are summarized in the table below. Soil sample analytical data are presented in Table 16 and groundwater analytical data are presented in Table 17. Tanks 62 and 62A did not hold petroleum products; therefore, MTBE is not a potential COC at this site.





Tank 64 was a stormwater diversion box located in the former Lindbergh Avenue storm channel (Figure 16) (Navy 1995a). The channel was filled between 1993 and 1995, and the diversion box was no longer needed. The diversion box acted as a settling basin, oil skimmer, and diversion structure. Effluent from the box was discharged through the west-side storm sewer system and routed to the

**4.15.1 Background**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

**4.15 TANK 64**

Tank 63 is believed to have been closed in place. Soil samples collected during the 1994 investigation did not indicate any constituents above action levels. Hydroponch sample results did not detect petroleum constituents. In addition, MTBE is not likely to be a COC because groundwater has not been affected. The Navy, therefore, recommends closure for Tank 63.

**4.14.6 Conclusion**

Tank 63 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

**4.14.5 Low-Risk Criteria**

ND Nondetect

Notes:

TANK 63 INVESTIGATION DATA SUMMARY							
Maximum Concentration (Detection limit in parentheses)							
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	F	X
Soil (mg/kg)	ND (1.2)	ND (1.2)	61	ND (0.006)	ND (0.006)	ND (0.006)	ND (0.006)
Soil Action Levels	150	400	400	4.4	2,700	3,100	980
Groundwater (µg/L)	ND (50)	ND (52)	ND (52)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

19. Because groundwater has not been affected, it is unlikely that MTBE is a potential COC. The January 1994 investigation data are summarized in the table below.



diversion box indicated TPH-e as JP-5 or diesel at concentrations below the action levels with one exception. The sample collected at the north end of the channel indicated TPH-e as diesel above the action level at a concentration of 3,300 mg/kg. Subsequently, the channel soil was overexcavated and post-excavation samples were collected by SAIC; however, post-excavation samples were only analyzed for polychlorinated biphenyls (PCBs) and lead. Because the Tank 64 area was overexcavated, it is unlikely that the remaining soil will have an effect on groundwater.

No groundwater monitoring wells were installed to monitor the northern end of the channel and no groundwater samples were collected during the channel excavation. However, one groundwater sample was collected from nearby well WNB-9 in August 1999 and analyzed for MTBE, but MTBE was not detected. Groundwater data from well WNB-9 are presented in Table 20.

**TANK 64 (Well WNB-9) GROUNDWATER SAMPLING SUMMARY**

Maximum Concentration (µg/L) (Detection limit in parentheses)							
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
	Groundwater (µg/L)	ND (50)	ND (50)	ND (50)	ND (0.5)	ND (0.5)	ND (0.5)
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

Notes:  
 µg/L Micrograms per liter\*\*\*  
 ND Nondetect

**4.15.5 Low-Risk Criteria**

Tank 64 meets the low-risk soil and groundwater criteria evaluation presented in Table 2.

**4.15.6 Conclusion**

Tank 64 was removed between 1993 and 1995. Only one out of six samples had a detection of TPH-e as JP-5 exceeding action levels. However, the site was subsequently overexcavated and is unlikely to contain contaminated soil. A groundwater sample from a nearby monitoring well does not indicate the presence of MTBE. The Navy, therefore, recommends closure for Tank 64.

**4.16 TANK 65**

Tank 65 never existed. The tank number was not used due to a numbering oversight. In some documents, Tank 130 has been referred to as Tank 65; but this is incorrect. The tank number is included in Table 2 to keep a complete list of all tanks addressed in this report.





**4.17.5 Low-Risk Criteria**

Tanks 66, 67, 68, and 91 meet the low-risk soil and groundwater checklist evaluation as presented in Table 2.

**4.17.6 Conclusion**

Tanks 66, 67, 68, and 91 have been removed. Tank 67 was the only tank that contained petroleum products. Petroleum constituents have not been detected at any of these four tanks in excess of action levels. The most recent samples from wells surrounding Tanks 66, 67, 68 and 91 indicate that petroleum constituents in groundwater are below detection limits. Also, MTBE has not been detected in samples from two groundwater monitoring wells. The Navy, therefore, recommends closure for Tanks 66, 67, 68, and 91.

**4.18 TANK 69**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

**4.18.1 Background**

Tank 69 was located adjacent to Hangar 3 (Building 47), in the east parking area (Figure 18). Tank 69 was a 2,000-gallon steel UST that stored wastewater received from parts-rinsing sinks located inside Building 47. The tank was removed in June 1991 by Envirotox (Quorum 1991). Tank 69 was located at these coordinates: latitude 37.41596 and longitude 122.03987. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 69.

**4.18.2 Previous Tank-Site Investigation**

Tank 69 was first investigated during tank removal in June 1991 (Quorum 1991). One soil sample (S-7-T69) and one water sample (W-7-T69) were collected from the excavation.

In July 1995, TEMI collected soil samples from four Geoprobe locations (GPT69-1 through GPT69-4) around the former tank location (Figure 18). A PID was used to field screen soils for petroleum contamination. Soil samples were collected at depths ranging from 5.0 to 6.5 feet bgs. One additional

soil sample (from boring SBT69-2) was collected during installation of monitoring well WT69-1. Soil data are included in Table 23. Groundwater samples GWT69-1 through GWT69-4 were collected from the Geoprobe soil sampling locations. TREMI installed monitoring well WT69-1 at boring SBT69-2, about 1 foot north (downgradient) of the former tank location. Four samples have been collected since August 1995. Groundwater sample data are presented in Table 24.

#### 4.18.3 Physical Site Characteristics

Tank 69 was located in a parking area near Hangar 3. The area is paved and the nearest surface water bodies are the Northern Channel and the North Patrol Road Ditch, more than 4,000 feet to the north.

#### 4.18.4 Nature and Extent of Contamination

Tank 69 and its piping, potential sources of soil and groundwater petroleum contamination at the Tank 69 area, have been removed. Furthermore, free product has not been encountered at the site. The following paragraphs summarize sample locations and sample analysis.

During the initial investigation conducted by Quorum, one soil sample, S-7-T69, was collected from the east sidewall and contained no detectable target compounds. Water sample W-7-T69, collected from the excavation, contained 5,400 µg/L TPH-e as motor oil (PRC 1996).

In July 1995, TREMI collected soil samples from four Geoprobe locations (GPT69-1 through GPT69-4) around the former tank location (Figure 18). Soil samples were collected at depths ranging from 5.0 to 6.5 feet bgs. One additional soil sample (SBT69-2) was collected during installation of monitoring well WT69-1. Soil data are included in Table 23. Results from these analyses indicate that petroleum constituent concentrations were less than action levels in all five soil samples.

Groundwater samples GWT69-1 through GWT69-4 were collected from the Geoprobe soil sampling locations. These samples were analyzed for TPH-e, TPH-p, and BTEX (GWT69-2 only) (PRC 1996). All results were within detection limits. Tank 69 did not contain gasoline, therefore, MTBE is not a potential COC at this site. Tank 69 investigation soil and groundwater data from the tank removal investigation are summarized in the following table. Groundwater data are presented in Table 24.



Tank 77 is located near Building 549. The area is paved and the nearest surface water bodies are the Northern Channel and North Patrol Road Ditch, which are more than 6,000 feet to the north.

**4.19.3 Physical Site Characteristics**

Tank 77 was closed in place in April 1995. Before closing the tank in place, all contents of the tank were removed by PWC and the tank was triple rinsed by Laidlaw using a high-pressure washing unit. After cleaning, all voids in Tank 77 were completely filled with a slurry mix. All fill-line piping was flushed and filled with a slurry mix prior to cutting. The tank had no indication of leaking. One soil and one groundwater sample, 77-E-8 and 77-W-8, respectively, were collected under each end of the tank during closure (Navy 1995b).

**4.19.2 Previous Tank-Site Investigation**

County Tank Closure Inspection Information is presented in Appendix A. Tank 77 was located at these coordinates: latitude 37.41113 and longitude 122.03735. Santa Clara store diesel for an onsite emergency generator for chillers located outside Building 549 (Navy 1995b). Tank 77 was a 1,360-gallon fiberglass tank located near Building 77 (Figure 19). The tank was used

**4.19.1 Background**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

**4.19 TANK 77**

Tank 69 was removed in 1991. Petroleum compounds have not been detected above action levels at Tank 69. Furthermore, the tank did not hold gasoline; thus, MTBE is not a COC at this site. The Navy recommends closure of Tank 69.

**4.18.6 Conclusion**

4.19.4 Nature and Extent of Contamination

Tank 77 and its piping, potential sources of soil and groundwater petroleum contamination, have been cleaned and closed in place. No free product has been encountered at the site. The following paragraph summarizes sample locations and analysis.

One soil sample (77-E-8) and one groundwater sample (77-W-8) were taken under each end of the tank using slant boring. The soil sample was taken under the east end of the tank and the groundwater sample was taken under the west end of the tank. The soil sample was analyzed for TPH-e as diesel. The results indicated that TPH-e as diesel was not detected. Results of the soil sample analysis are presented in Table 25 and summarized in the table below.

The groundwater sample was analyzed for TPH-e as diesel, TPH-p, and BTEX. TPH-e as diesel was detected at 62 µg/L. TPH-p and ethylbenzene were not detected. Other BTEX constituents were detected at concentrations less than action levels. Because Tank 77 did not contain gasoline, MTBE is not a potential contaminant at this site. Groundwater data are presented in Table 26 and summarized in the following table.

TANK 77 INVESTIGATION DATA SUMMARY							
Maximum Concentration (Detection limit in parentheses)							
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
Soil (mg/kg)	NA	ND (1)	NA	NA	NA	NA	NA
Soil Action Levels	150	400	400	4.4	2,700	3,100	980
Groundwater (µg/L)	ND (50)	62	NA	0.51	0.56	ND (0.5)	1.4
Groundwater Action Levels	50	700	700	1	680	1,000	1,750

Notes:

NA Not Analyzed  
 ND Nondetect

4.19.5 Low-Risk Criteria

Tank 77 meets the low-risk soil and groundwater criteria evaluation in Table 2.

#### 4.19.6 Conclusion

PWC closed Tank 77 in place in 1995. Petroleum compounds have not been detected in soil or in groundwater in excess of action levels. Furthermore, because Tank 77 did not hold gasoline, MTBE is not a potential contaminant of concern at the site. The Navy recommends closure of Tank 77.

#### 4.20 TANK 78

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### 4.20.1 Background

Tank 78 was a 1,000-gallon fiberglass tank located next to Building 127 (Figure 20). Tank 78 was connected to a drain inside the building, which was part of a secondary containment bay for acid storage. The facility was never used (Navy 1995a). Tank 78 was located at these coordinates: latitude 37.42010 and longitude 122.05814. Santa Clara County Tank Closure Inspection Information is presented in Appendix A.

#### 4.20.2 Previous Tank-Site Investigation

The tank was removed in January 1993. No holes were observed in the tank or piping. Two soil samples were collected during tank removal (78N and 78S). Groundwater was not observed in the excavation.

#### 4.20.3 Physical Site Characteristics

Tank 78 was located next to Building 127. The nearest surface water body is the stormwater retention pond approximately 3,000 feet to the north.

#### 4.20.4 Nature and Extent of Contamination

No contamination was found during investigation activities at Tank 78. Tank 78 was apparently never used. Also, Tank 78 has been removed. The following table summarizes soil samples collected at the Tank 78 excavation. Table 27 presents soil analytical data for Tank 78.

Tanks 86A and 86B were located southwest of Building 107, which was originally the Public Works Fueling Facility (Figure 21). Tank 86A was a 5,000-gallon steel UST that stored gasoline. Tank 86B was a 7,000-gallon steel UST that stored diesel fuel. The tanks were installed in 1948 and were positioned side by side. Both tanks were removed in January 1993. Tank 86A was located at these coordinates: latitude 37.40990 and longitude 122.05562. Tank 86B was located at these coordinates: latitude 37.40989 and longitude 122.05567. Santa Clara County Tank Closure Inspection Information for Tanks 86A and 86 B is included in Appendix A.

**4.21.1 Background**

The following subsection describes previous work conducted at these tanks, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

**4.21 TANKS 86A AND 86B**

Tank 78 was never used. Furthermore, contamination has not been detected at Tank 78 area. Because Tank 78 was never used, MTBE is not a potential contaminant of concern. The Navy recommends closure of Tank 78.

**4.20.6 Conclusion**

Tank 78 meets the low-risk soil and groundwater checklist evaluation presented in Table 2.

**4.20.5 Low-Risk Criteria**

NA Not analyzed  
 ND Nondetect

Notes:

TANK 78 INVESTIGATION DATA SUMMARY							
Maximum Concentration (Detection limit in parentheses)							
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
	Soil (mg/kg)	Soil (mg/kg)	Soil (mg/kg)	Soil (mg/kg)	Soil (mg/kg)	Soil (mg/kg)	Soil (mg/kg)
	ND (1)	NA	NA	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
	150	400	400	44	2,700	3,100	980
	Soil Action Levels						

#### 4.21.2 Previous Tank-Site Investigation

Tanks 86A and 86B were first investigated during their removal in January 1993 (PRC 1996). During excavation and removal, four soil samples (86AN, 86AS, 86BS, 86BN) were collected from beneath the tanks. A groundwater sample (86A) was collected from beneath Tank 86A during excavation. Navy groundwater sample was also collected from beneath Tank 86B (sample 86B) during excavation. Navy personnel present during tank removal suggested that low-level contamination was the result of spillage observed to occur during tank removal, rather than leakage during tank operation (PRC 1996).

In June 1995, TEMI advanced two borings, GPT86B-1 and GPT86B-2. Boring GPT86B-1 was advanced from the approximate center of the former location of Tank 86B. At 10.0 feet bgs, concrete, possibly the tank anti buoyancy anchor slab, was encountered. One soil sample (GPT86B-1) was collected at 9.5 to 10.0 feet bgs. Two additional soil samples from SBT86B-3 were collected during the installation of monitoring well WT86B-1. Soil data are included in Table 28.

TEMI also collected groundwater samples from borings GPT86B-1 and GPT86B-2 using disposable bailers. In February 1996, soil boring SBT86B-3 was drilled immediately north of the former tank excavation. Monitoring well WT86B-1 was constructed in boring SBT86B-3. Groundwater samples were collected from this well five times between 1996 and 1997 and results are presented in Table 29.

#### 4.21.3 Physical Site Characteristics

Tank 86A and 86B were located adjacent to the west side of Building 107. The nearest surface water body is the stormwater retention pond, more than 6,000 feet to the north.

#### 4.21.4 Nature and Extent of Contamination

During excavation and removal, four soil samples (86AN, 86AS, 86BS, 86BN) were collected from beneath the tanks. A groundwater sample was also collected beneath each tank (samples 86A and 86B). Petroleum constituents were not detected in soil samples at concentrations exceeding action levels. Groundwater grab samples collected from the excavation are not indicative of contamination in the aquifer. Therefore, groundwater grab samples 86A and 86B are not used in this evaluation or included in Table 29 following the text. Navy personnel present during tank removal suggested that this low-level contamination was the result of spillage observed to occur during tank removal, rather than leakage during tank operation (PRC 1996). Figure 21 illustrates sample locations.



nature and extent of contamination, and the low-risk criteria.

The following subsection describes previous work conducted at the tank, physical site characteristics,

**4.22 TANK 88**

Tanks 86A and 86B. Tanks 86A and 86B were removed in 1993. During excavation and in 1995 soil samples did not contain petroleum compounds detected above action levels. Five rounds of groundwater monitoring were also conducted. All groundwater monitoring well results were less than action levels with two exceptions. In February 1996, one TPH-p result exceeded the action level at an estimated concentration of 910 µg/L. Four subsequent samples were less than actions levels. The May 1997 result for benzene exceeded the action level. Because the three previous results were nondetect and the subsequent sample in August 1999 was nondetect, the May 1997 result was most likely an anomaly. Furthermore, MTBE was not detected in the August 1999 sample from well WT86B-1. Therefore, the Navy recommends closure for Tanks 86A and 86B.

**4.21.6 Conclusions**

Tanks 86A and 86B meet the low-risk criteria evaluation presented in Table 2.

**4.21.5 Low-Risk Criteria Evaluation**

NA Not analyzed  
 ND Nondetect  
 1 Estimated concentration, concentration below detection limit  
 2 Estimated concentration because surrogate recovery was out of quality control limits.

Notes:

Sample Dates	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	I	680	1,000	1,750
	Maximum Concentration (Detection limit in parentheses)							
February 1996	ND (100)	910 <sup>1</sup>	ND (100)	28 <sup>2</sup>	ND (0.5)	1.3 <sup>2</sup>	ND (0.5)	X
August 1996	ND (100)	33 <sup>2</sup>	ND (100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
November 1996	ND (100)	ND (50)	ND (100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
February 1997	ND (100)	46 <sup>2</sup>	ND (100)	ND (0.5)	ND (0.5)	0.3 <sup>2</sup>	ND (0.5)	ND (0.5)
May 1997	ND (90)	ND (50)	ND (500)	3	ND	0.3 <sup>2</sup>	ND (1)	0.3
August 1999	NA (100)	NA	ND (100)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

**TANKS 86A AND 86B (Well WT86B-1) GROUNDWATER SAMPLING SUMMARY**



Very little information is available on Tank 106. The installation date is unknown and there is no record that the tank was removed. Tank 106 is a 5,000-gallon UST of unknown construction near Building 49 and is associated with a former gas station (Figure 23). The tank may have contained gasoline and may remain under Building 49. Tank 106 was located at these coordinates: latitude 37.41323 and longitude 122.03852. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 106.

**4.23.1 Background**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

**4.23 TANK 106**

Tank 88 was removed in 1992. Soil and groundwater data do not exceed action levels. Furthermore, because the tank did not contain gasoline, MTBE is not a potential contaminant at the site. Therefore, the Navy recommends closure of Tank 88.

**4.22.6 Conclusion**

Tank 88 meets the low-risk soil and groundwater checklist evaluation presented Table 2.

**4.22.5 Low-Risk Criteria**

NA Not sampled  
 ND Not detected

Notes:

TANK 88 INVESTIGATION DATA SUMMARY						
Maximum Concentration (Detection limit in parentheses)						
Soil (mg/kg)	TPH-e (Diesel)	TPH-p (Gasoline)	B	T	E	X
ND (1)	ND (1)	ND (1)	NA	NA	NA	NA
Soil Action Levels	400	150	4.4	2,700	3,100	980

**4.23.2 Previous Tank-Site Investigation**

In August 1999, TEMI advanced four direct-push borings (UST106-SB-01 through UST106-SB-04) at Tank 106 (Figure 24). Groundwater samples were collected from each of the four borings. Groundwater data are included in Table 31.

**4.23.3 Physical Site Characteristics**

Tank 106 is located in a paved area that is relatively flat. The nearest surface water body is the Northern Channel located 5,000 feet to the north.

**4.23.4 Nature and Extent of Contamination**

Soil samples were not collected near the location of Tank 106; however, groundwater samples were analyzed for BTEX and MTBE. Groundwater data indicate that petroleum constituents do not exceed action levels. Maximum groundwater petroleum concentrations are summarized in the following table. Analytical results of groundwater sampling are presented in Table 31.

TANK 106 INVESTIGATION DATA SUMMARY							
Maximum Concentration (Detection limits unknown)							
Groundwater (µg/L)	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E	X
ND (50)	50	700	700	1	680	1,000	1,750
ND (100)	100	ND (100)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1)

Notes:

ND Nondetect

**4.23.5 Low-Risk Criteria**

Tank 106 meets the low-risk soil and groundwater checklist evaluation presented in Table 2.

#### 4.23.6 Conclusion

Tank 106 and associated piping may have been removed. Groundwater samples indicate that petroleum constituents do not exceed the action levels. MTBE was not detected in a 1999 groundwater sample. Navy, therefore, recommends closure for Tank 106.

#### 4.24 TANK 110

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### 4.24.1 Background

Tank 110 was a steel 2,000-gallon UST used to store diesel (Figure 24). The tank served as fuel storage for an emergency generator that was located in Building 109 (Navy 1995a). Tank 110 was located south of Building 109 next to Wescot Road. Tank 110 was located at these coordinates: latitude 37.40981 and longitude 122.05600. Santa Clara County Tank Closure Inspection Information is presented in Appendix A.

#### 4.24.2 Previous Tank-Site Investigation

Tank 110 was removed in April 1994. Two soil samples (065037-14 and 065037-15) (Figure 24) were collected from the excavation and analyzed for TPH-e. No contaminants were detected in the samples (Navy 1995a). Groundwater was not encountered in the excavation.

#### 4.24.3 Physical Site Characteristics

Tank 110 was located next to Building 109 in a grassy area. The nearest surface water body is the stormwater retention pond more than 6,000 feet to the north.

#### 4.24.4 Nature and Extent of Contamination

Two soil samples were collected from the excavation and analyzed for TPH-e. No contaminants were detected in the samples (Table 32). It is unlikely that groundwater has been affected at this site since no



#### 4.25.2 Previous Tank-Site Investigation

Removal of Tank 111 was scheduled for November 1995. During excavation, the top of the tank was located at 9 feet bgs (ECC 1996). The contractor attempted to remove the tank, but operations were stopped because continued excavation could have undermined the foundation of the adjacent building. The Navy determined that the UST would be closed in place instead. As a result, Tank 111 was filled with concrete slurry.

Soil samples were collected from soil excavated from around the tank during closure. In 1999, TEMI advanced four soil borings; samples were collected from all four borings (UST111-SB-01 through UST111-SB-04) and three soil samples were collected from one boring.

#### 4.25.3 Physical Site Characteristics

Tank 111 was located next to Building 48 under concrete. The tank was closed in place with a concrete slurry. The closest surface water body is the stormwater retention pond, more than 6,000 feet north.

#### 4.25.4 Nature and Extent of Contamination

The tank had visible holes and was filled with groundwater. One soil sample (TK111-SP-001) was collected from the soil excavated around Tank 111 (ECC 1996). One groundwater grab sample (TK111-GW-001) was also collected from the excavation. The soil and groundwater samples were submitted for analysis of TPH-e as diesel, TPH-p, and BTEX.

In August 1999, TEMI advanced four direct-push borings (UST111-SB-01 through UST111-SB-04) at Tank 111 (Figure 25). Three soil samples were collected at the former tank location from boring UST111-SB-01 and analyzed for TPH-p, TPH-e, and BTEX. Groundwater samples were collected from all four borings and analyzed for TPH-p, TPH-e, BTEX, and MTBE. Only xylene was detected in these groundwater samples collected in 1999.

Soil data for Tank 111 are included in Table 33. Groundwater data are included in Table 34. Grab groundwater samples collected from the excavation pit often contain contaminants from tank and piping removal and may not be representative of groundwater conditions. Therefore, data for grab groundwater sample TK111-GW-001 are not included in Table 34.

Approximately 300 feet upgradient of Tank 116 is Site 14 South. Site 14 South is a vehicle fueling facility with petroleum contamination from two former tanks. A recirculating in situ treatment system for remediating soils and groundwater was constructed at Site 14 South in 1995 (PRC 1995b). Site 14 South is addressed in Appendix C of the TM. Tank 116 was located at these coordinates: latitude 37.40681 and longitude 122.05004. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 116.

#### 4.27.2 Previous Tank-Site Investigation

The Tank 116 area was excavated in September 1994 (ECC 1996). The pump and control pits were located and control switches were in place; however, it appeared that the tank had previously been removed. The former tank area was filled, and pipe connections for the tank had been cut and plugged. In November 1995, ECC removed the concrete vault used to house electrical controls for the UST (ECC 1996). During exploratory excavation, hydrocarbon staining and odor were found near the bottom of the vault. Three soil samples (TK116-EX-001 through TK116-EX-003) were collected from unspecified locations within the excavation pit.

In August 1999, TCEMI advanced four direct-push borings (UST116-SB-01 through UST116-SB-04). Two soil samples were collected at the former tank location from boring UST116-SB-01. Groundwater samples were collected from all four borings.

#### 4.27.3 Physical Site Characteristics

Tank 116 was located next to an outside fence near the transportation yard (Building 146). The area surrounding former Tank 116 is paved. The nearest surface water body is the stormwater retention pond, more than 7,000 feet to the north.

#### 4.27.4 Nature and Extent of Contamination

Tank 116 and associated piping were the potential sources of contamination. In November 1995, ECC removed the concrete vault used to house electrical controls for the UST (ECC 1996). During exploratory excavation, hydrocarbon staining and odor were found near the bottom of the vault. Three soil samples (TK116-EX-001 through TK116-EX-003) were collected from unspecified locations within the excavation pit and analyzed for TPH-e, TPH-p, and BTEX. Soil data for Tank 116 are included in Table 35.

In August 1999, TEMI advanced four direct-push borings (UST116-SB-01 through UST116-SB-04). Two soil samples were collected at the former tank location from boring UST116-SB-01. Groundwater samples were collected from all four borings. Soil and groundwater were analyzed for BTEX and TPH. The following table summarizes the maximum petroleum constituent concentrations. MTBE was not detected in a groundwater sample collected in 1999. Groundwater data are included in Table 36.

**TANK 116 INVESTIGATION DATA SUMMARY**

TANK 116 INVESTIGATION DATA SUMMARY						
Maximum Concentration (Detection limits unknown)						
Medium	TPH-p (Gasoline)	TPH-e (Diesel)	TPH-e (JP-5)	B	T	E
Soil (mg/kg)	5.1	371	NS	ND (0.005)	0.01	ND (0.006)
Soil Action Levels	150	400	400	4.4	2,700	3,100
Groundwater (µg/L)	ND (50)	ND (50)	ND (50)	ND (0.5)	ND (0.5)	ND (0.5)
Groundwater Action Levels	50	700	700	1	680	1,000
						1,750

Notes:

ND Nondetect

**4.27.5 Low-Risk Criteria**

Tank 116 meets the low-risk soil and groundwater checklist evaluation presented in Table 2.

**4.27.6 Conclusion**

Tank 116 has been removed. Investigations in 1995 and again in 1999 indicate that petroleum contamination does not exceed action levels. A sample for MTBE in 1999 was nondetect. Therefore, the Navy recommends closure for Tank 116.

**4.28 TANK 123**

Tank 123 never existed. This tank number was never used due to a numbering oversight (Navy 1995a). Tank 123 is included in the list on Table 2 for completeness. The Navy recommends Tank 123 for closure.

**4.29 TANK 130**

The following subsection describes previous work conducted at the tank, physical site characteristics, nature and extent of contamination, and the low-risk criteria.

#### 4.29.1 Background

Tank 130 is an inactive sump that neutralized battery acids from a battery locker (Building 575) before discharge into the sanitary sewer (Figure 27). Tank 130 has been referenced as Tank 65 in other documents; the correct tank number is 130. The current status of Tank 130 is uncertain, but the tank is thought to be abandoned in place (PRC 1995b). Tank 130 is located at these coordinates: latitude 37.41097 and longitude 122.03731. Santa Clara County Tank Closure Inspection Information is not currently available for Tank 130.

#### 4.29.2 Previous Tank-Site Investigation

Few data exist concerning Tank 130. One investigation was conducted near the sump by TEMI in 1994. Two soil borings were advanced, GP65-1 and GP65-2 (Figure 27). One groundwater sample was collected near Tank 130 with a hydropunch, HP65-1.

#### 4.29.3 Physical Site Characteristics

Tank 130 was located in a paved area near Building 549. The nearest surface water bodies are the Northern Channel and North Patrol Road Ditch, more than 6,000 feet to the north.

#### 4.29.4 Nature and Extent of Contamination

Tank 130 was the potential source of contamination at the Tank 130 area. The tank is thought to have been closed in place. Furthermore, free product has not been encountered at the site. The following paragraphs summarize sample locations and sample analysis.

Two soil borings were advanced, GP65-1 and GP65-2 (Figure 27). Samples from these borings were analyzed for BTEX constituents; none were detected (Table 37).

One groundwater sample was collected near Tank 130 with a hydropunch (HP65-1) and analyzed for BTEX constituents; none were detected (Table 38). Because Tank 130 did not contain gasoline, samples were not analyzed for MTBE. Analytical results are summarized in the table below.



The A aquifer consists of sands and gravels found between depths of about 5 and 65 feet bgs. Aquifer A is further subdivided into the A1- and A2-aquifer zones by a discontinuous, low-permeability horizontal layer (A1/A2 aquitard) located between 25 and 30 feet bgs. Fine-grained sediments in the A aquifer consist of greenish-gray to yellow-brown silts and clays that often contain rust-colored staining of oxidized iron. Coarse materials in the A aquifer are sands and gravels. Coarse-grained channel deposits appear to have an individual maximum thickness of 20 feet on the western side of MFA and 10 feet on

**5.2.1 A Aquifer Hydrogeology**

Aquifer descriptions are based on existing data and lithologic interpretation of soil borings and cone penetrometer tests (CPTs). The shallow aquifer (upper 250 feet) is subdivided into the A, B, and C aquifers. A laterally extensive clay aquitard (B/C aquitard) effectively isolates the C aquifer (160 to 250 feet bgs) from the upper aquifers. The A/B aquitard may be locally continuous under MFA. The discussion focuses on the A aquifer because it is the most likely to be affected by petroleum contamination from surface spills or leaking USTs. In addition, groundwater at most locations across MFA exhibits an upward vertical gradient. This vertical gradient is evidenced by higher potentiometric heads in deeper wells at locations where shallow (A aquifer) and deeper (B aquifer) wells are paired.

**5.2 BASEWIDE HYDROGEOLOGY**

Regionally, the Santa Clara Valley contains up to 1,500 feet of Tertiary- and Quaternary-age interbedded alluvial, fluvial, and estuarine deposits that directly overlie early Tertiary or older bedrock (Iwamura 1980). Locally, these sediments consist of varying combinations of unconsolidated to moderately-consolidated clay, silt, sand, and gravel that represent intertonguing of estuarine and fluvial depositional environments. The fluvial sediments were derived from the Santa Cruz highlands west of the basin and deposited on an alluvial plain bounded by alluvial fan deposits to the west and baylands to the northeast (Iwamura 1980). These sediments most likely were deposited during the Holocene period when the world-wide sea level was rising toward its present elevation.

A continuous clay layer (A/B aquitard) between 45 and 65 feet below msl has been observed in borings across MFA. This clay layer does not correspond to a world-wide rise in sea level. Instead, its deposition appears to be of late Pleistocene age. An even deeper (100 to 160 feet below msl) clay layer (B/C aquitard) corresponds to Sangamon-age interglacial deposits (PRC and JMM 1992; Sangines and others 1995). Beneath this aquitard are undifferentiated alluvial gravels, sands, silts, and clays that make up the mid- to early-Pleistocene-age deposits and the Pliocene/Pleistocene-age Santa Clara Formation.

the eastern side of MFA. The coarse-grained deposits were incised in, and interbedded with, the fine-grained sediments. Channel orientation is generally south to north.

Groundwater flow is toward San Francisco Bay (north) with a horizontal gradient of 0.004 to 0.005 feet of drop per foot of distance (ft/ft). The horizontal gradient for the eastern side of MFA has been reported as slightly more gentle (0.002 to 0.003 ft/ft) than the western side (PRC 1995d). Aquifer porosity estimated from samples submitted for physical analysis ranges from 20 to 45 percent (PRC and JMM 1992). Hydraulic conductivity was estimated by aquifer tests to range from 5.7 to 240 feet per day for the A aquifer (PRC 1996). The low to moderate hydraulic conductivity at MFA and the distance from the bay dampen and restrict the effects of surface water and tidal fluctuations on groundwater flow direction and velocity such that the effects are negligible (Iwamura 1980; PRC and JMM 1992).

#### 5.2.2 B Aquifer and A/B Aquitard Hydrogeology

The B aquifer extends from approximately 60 to 120 feet bgs in the vicinity of MFA. The B aquifer consists of these more permeable deposits along with silts and clays. These deposits are correlated by fossil evidence with the Wisconsin-age glacial period (Brown 1978, PRC and JMM 1992). A lack of abundant gravels distinguishes the B from the A aquifer sediments. Groundwater flow direction in the B aquifer is generally north, and horizontal gradients are similar to those in the A aquifer (0.004 to 0.005 ft/ft). Vertical gradients between the A and B aquifers are variable as a result of heterogeneous confining conditions in individual channels (PRC and JMM 1992).

The A/B aquitard separates the interbedded sands, silts, and clays of the B aquifer from the sand and gravel channels of the A aquifer. It has been consistently identified in borings from the western side of MFA, but is less well defined on the eastern side. On the western side, this aquitard is a 5- to 7-foot thick clay encountered between the depths of approximately 55 and 70 feet bgs that appeared to be continuous across the western side of MFA. Potentiometric head differences between paired wells in the A2 zone of the A aquifer and the upper portion of the B aquifer (B2) during baseline flow conditions (August 1996) indicate hydraulic isolation of the two aquifers across the eastern side and the northern half of the western side of MFA (TEMI 2000).

### 6.0 CONCLUSIONS AND RECOMMENDATIONS

This report addresses 35 tank sites at MFA that do not exceed the action levels agreed upon in 1994 between RWQCB and the Navy for petroleum sites. In Section 4.0, investigation results at each tank site were presented. Soil and groundwater results at each tank site meet the action levels. The Navy,

therefore, recommends site closure for all 35 tanks described in this document. Table 2 lists all 35 tanks described in this document.

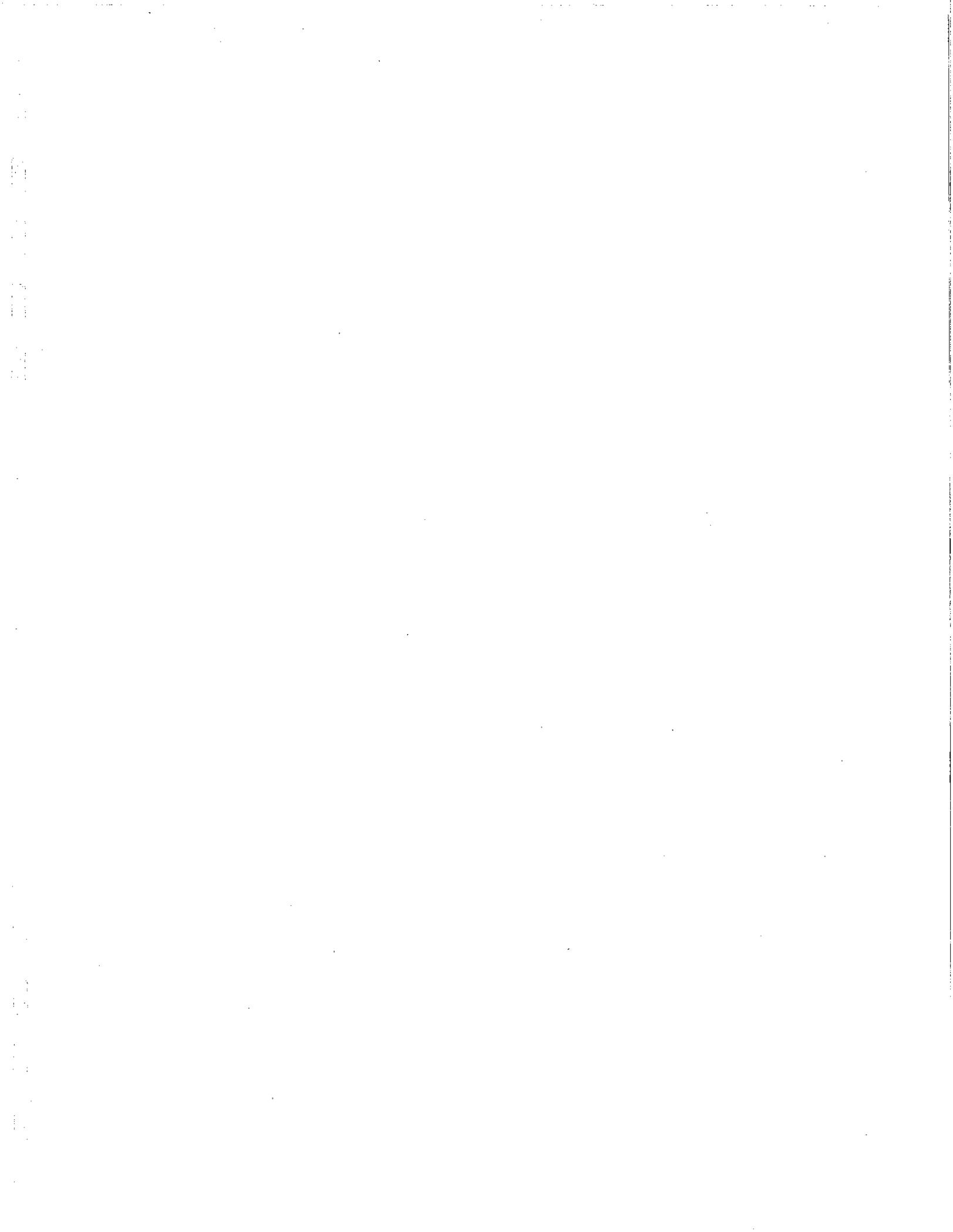
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- PRC. 1995c. Final Operable Unit 2-West (Building 88) Project Summary Report, Moffett Federal Airfield, Mountain View, California. October.
- PRC. 1995d. Final Operable Unit 5 Feasibility Study Report, Moffett Federal Airfield, California. August.
- PRC. 1996. Final Stationwide Remedial Investigation Report, Moffett Federal Airfield, California. May.





**FIGURES**



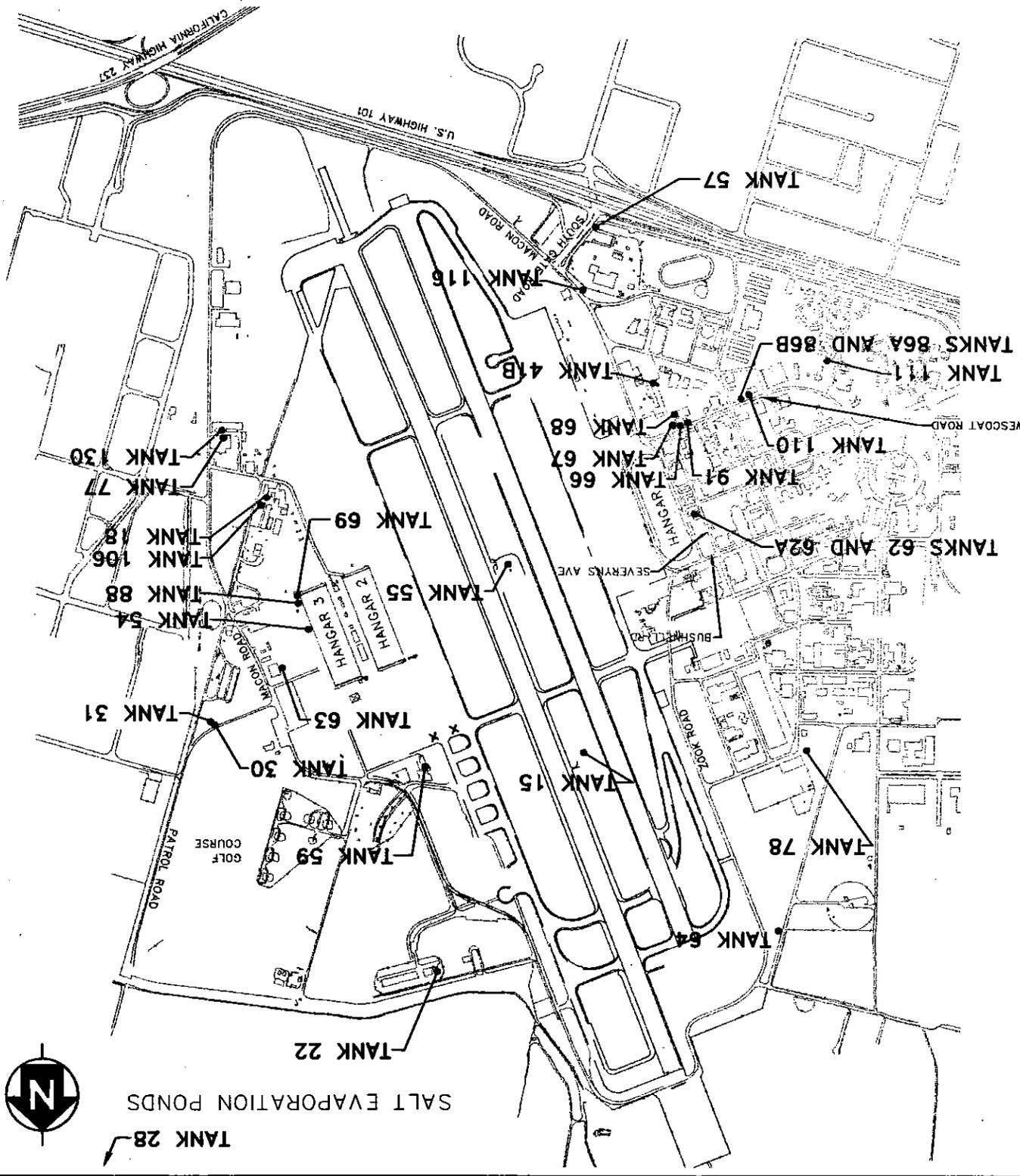
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SITE LOCATION MAP  
FIGURE 1



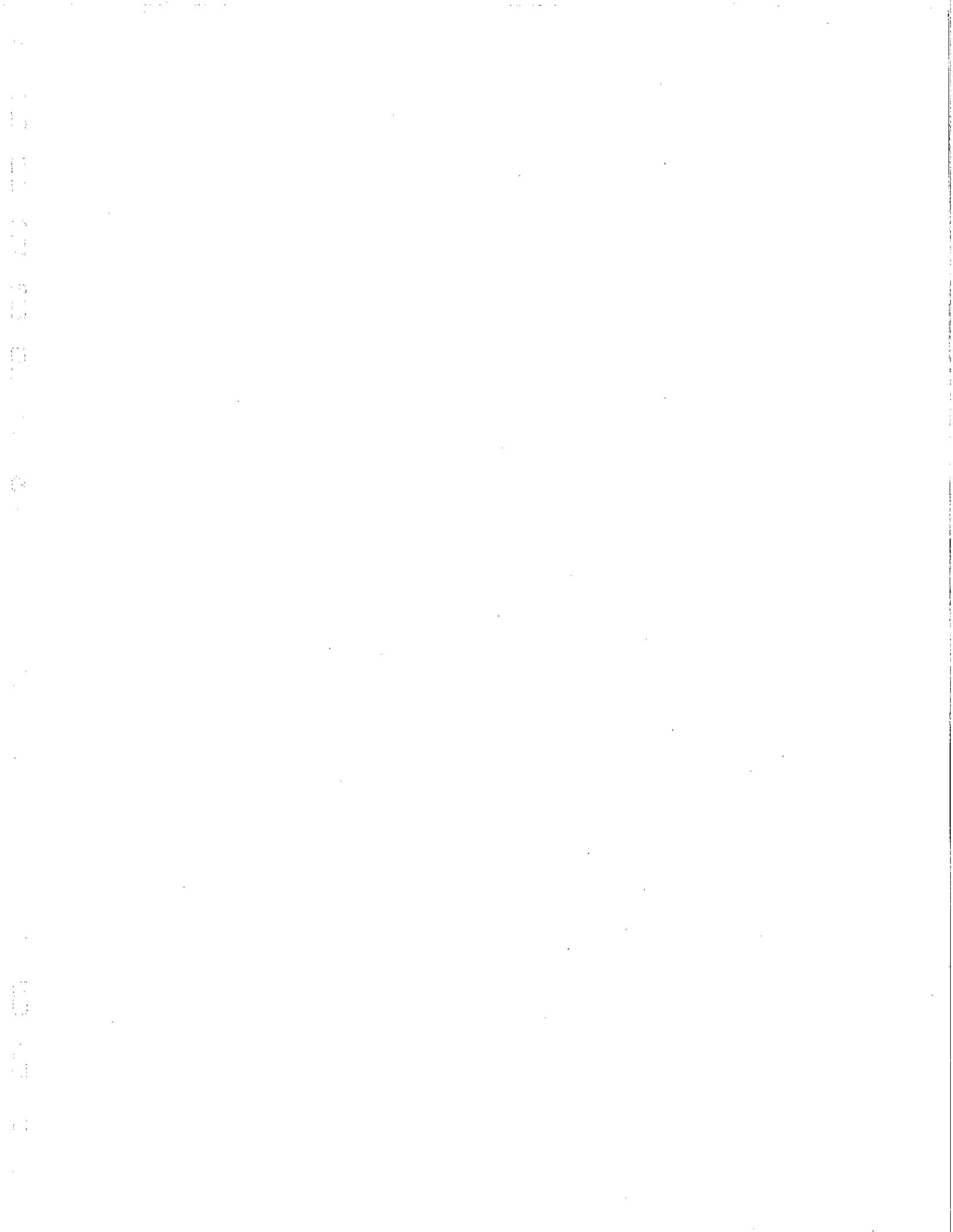
PROPOSED TANK CLOSURE SITE

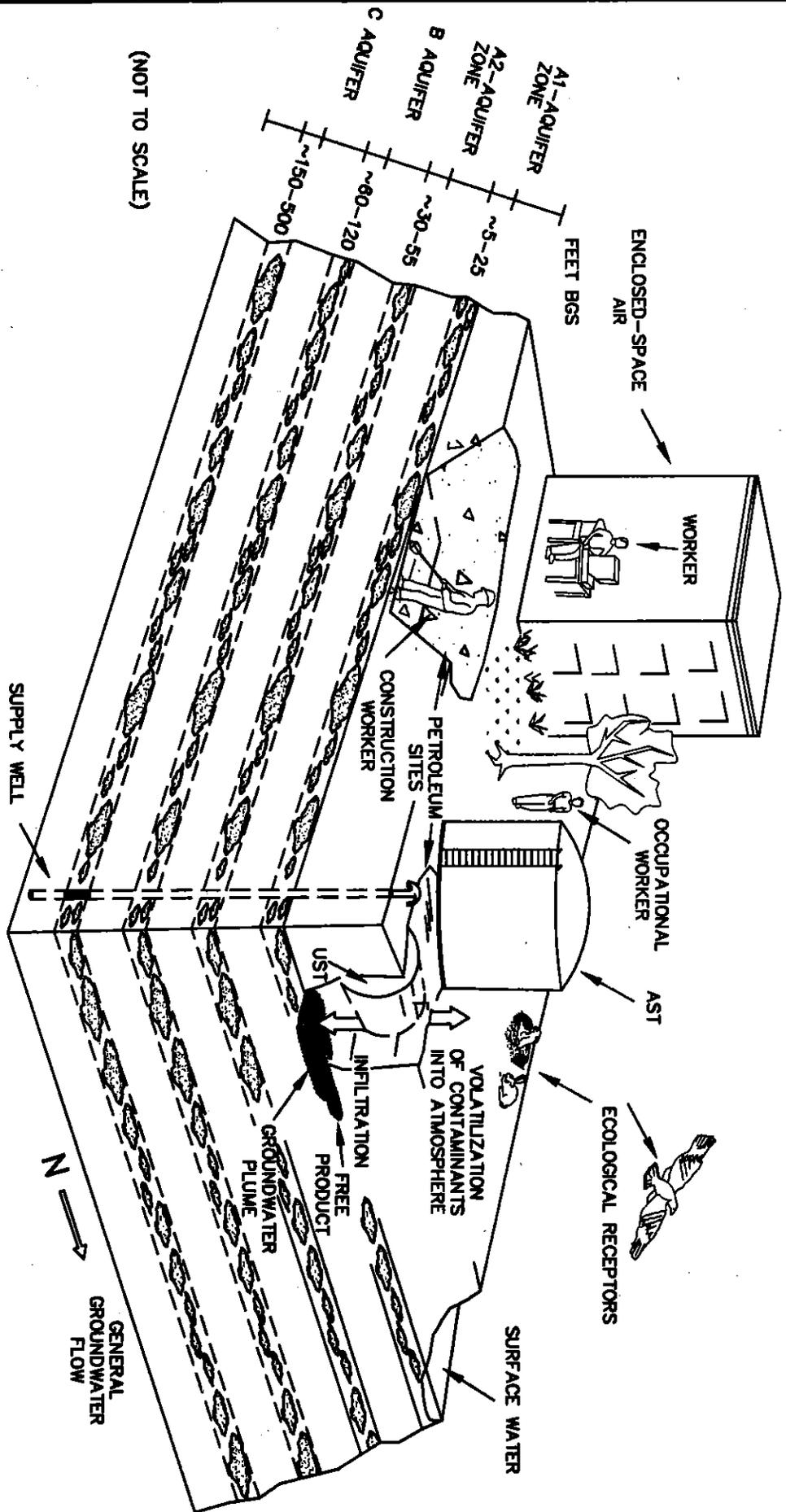
LEGEND

TANK 18



TANK 28  
SALT EVAPORATION PONDS





**NOTES:**  
AST = ABOVEGROUND STORAGE TANK  
BGS = BELOW GROUND SURFACE  
UST = UNDERGROUND STORAGE TANK

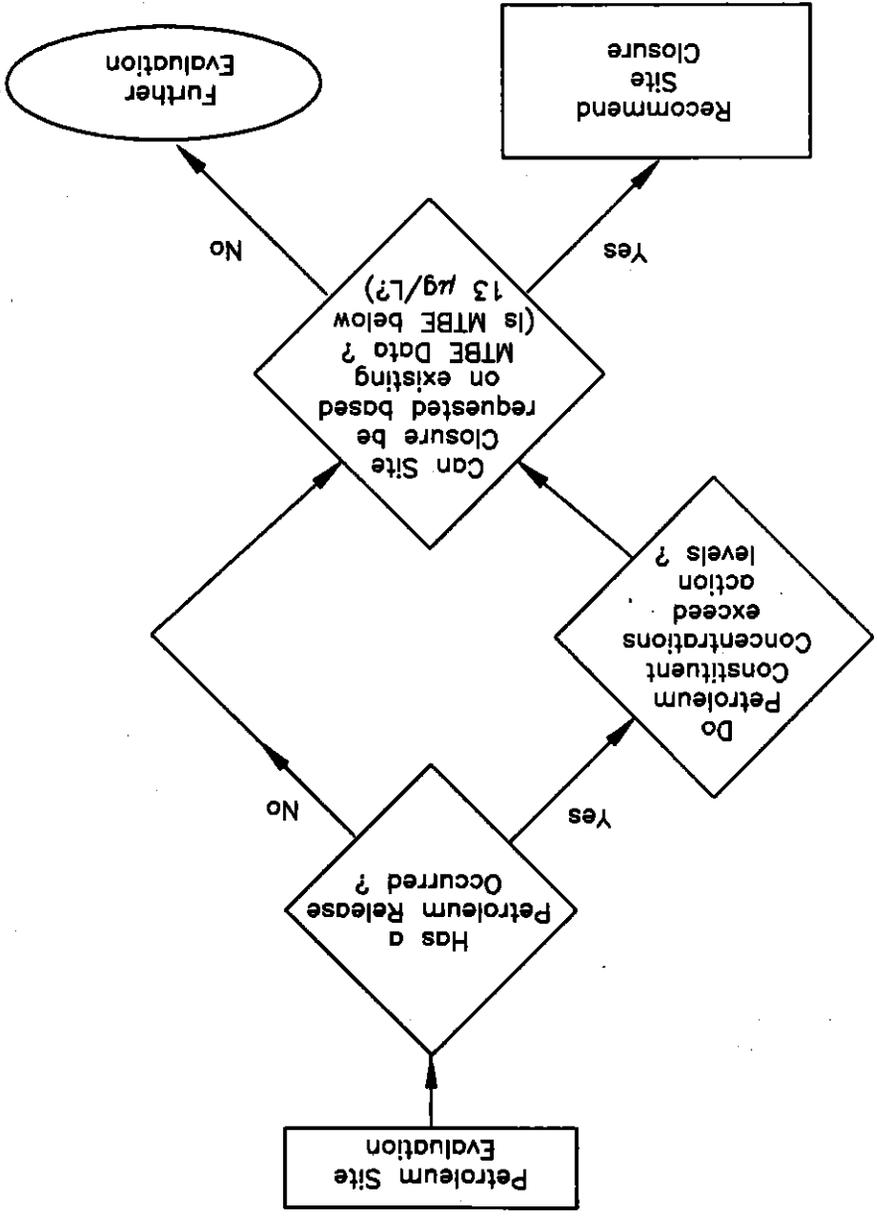
**FIGURE 2**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**CONCEPTUAL SITE MODEL**

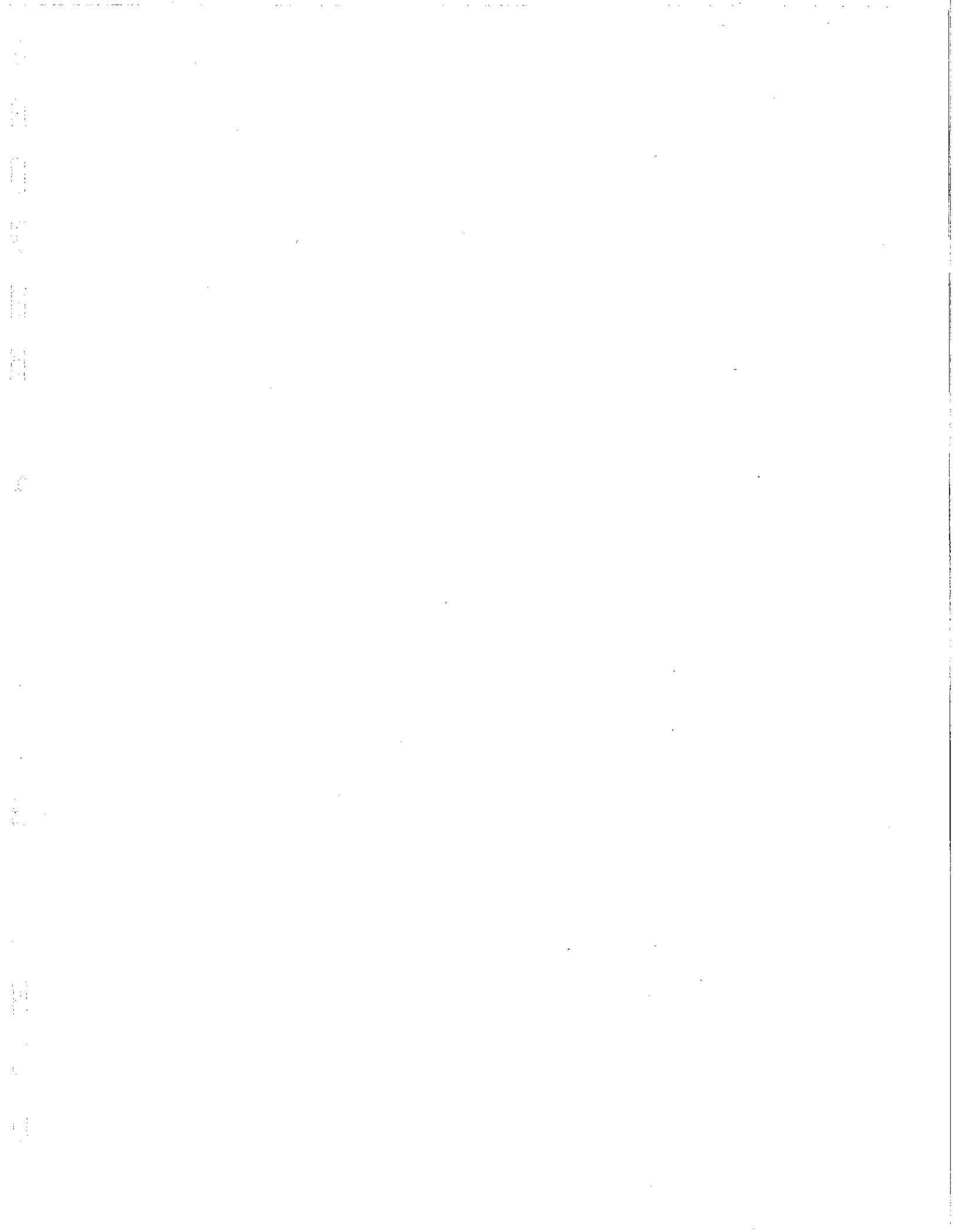


FIGURE 3  
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
DECISION FLOW CHART

MTBE = Methyl Tertiary Butyl Ether  
µg/L = Micrograms per Liter

NOTES:

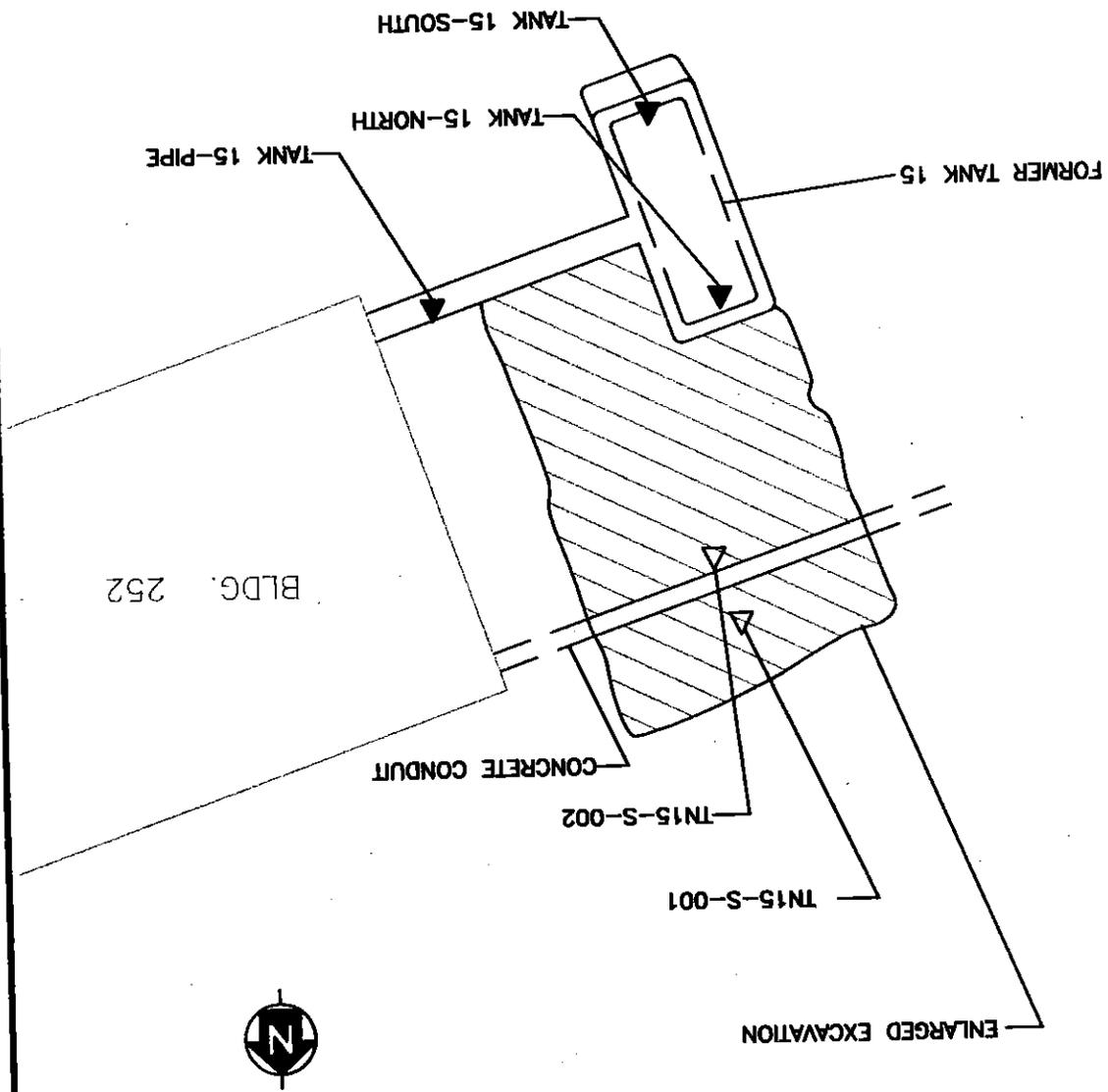
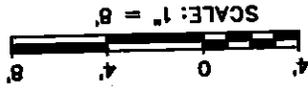




MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
FIGURE 4  
SAMPLING LOCATIONS AT TANK 15

- ▲ SOIL SAMPLE COLLECTED DURING TANK REMOVAL
- ▽ SOIL SAMPLE COLLECTED DURING SUBSEQUENT INVESTIGATIONS
- ▨ AREA OF ENLARGED EXCAVATION

LEGEND  
NOVEMBER 1999  
APPROXIMATE DIRECTION OF GROUNDWATER FLOW



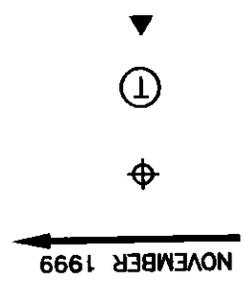
NOVEMBER 1999





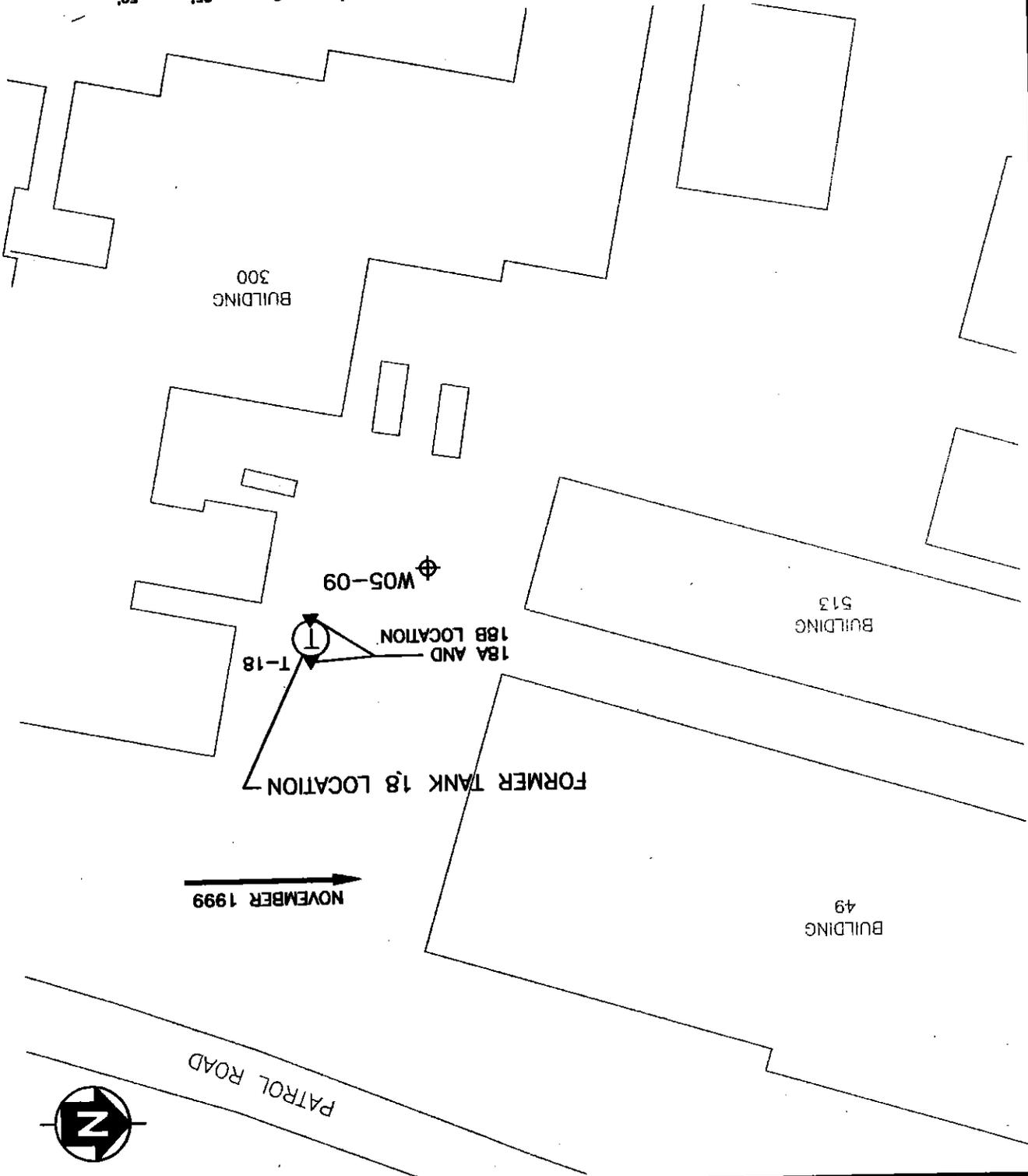
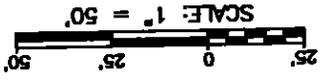
FIGURE 5  
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANK 18

MONITORING WELL LOCATION  
IN A1-AQUIFER ZONE  
TANK LOCATION  
SOIL SAMPLE COLLECTED  
DURING TANK REMOVAL



LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW



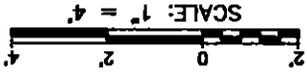
NOVEMBER 1999

PATROL ROAD

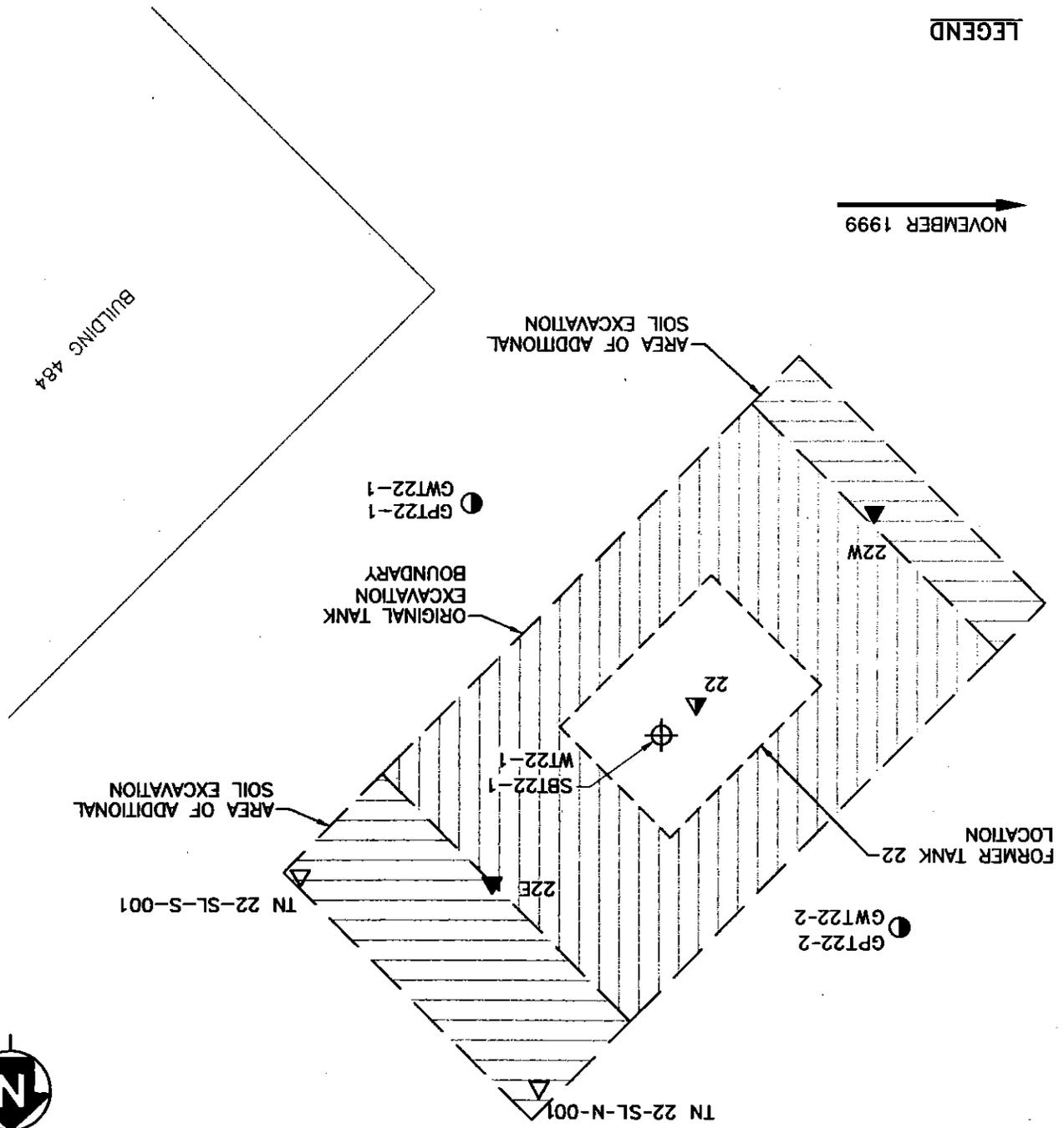


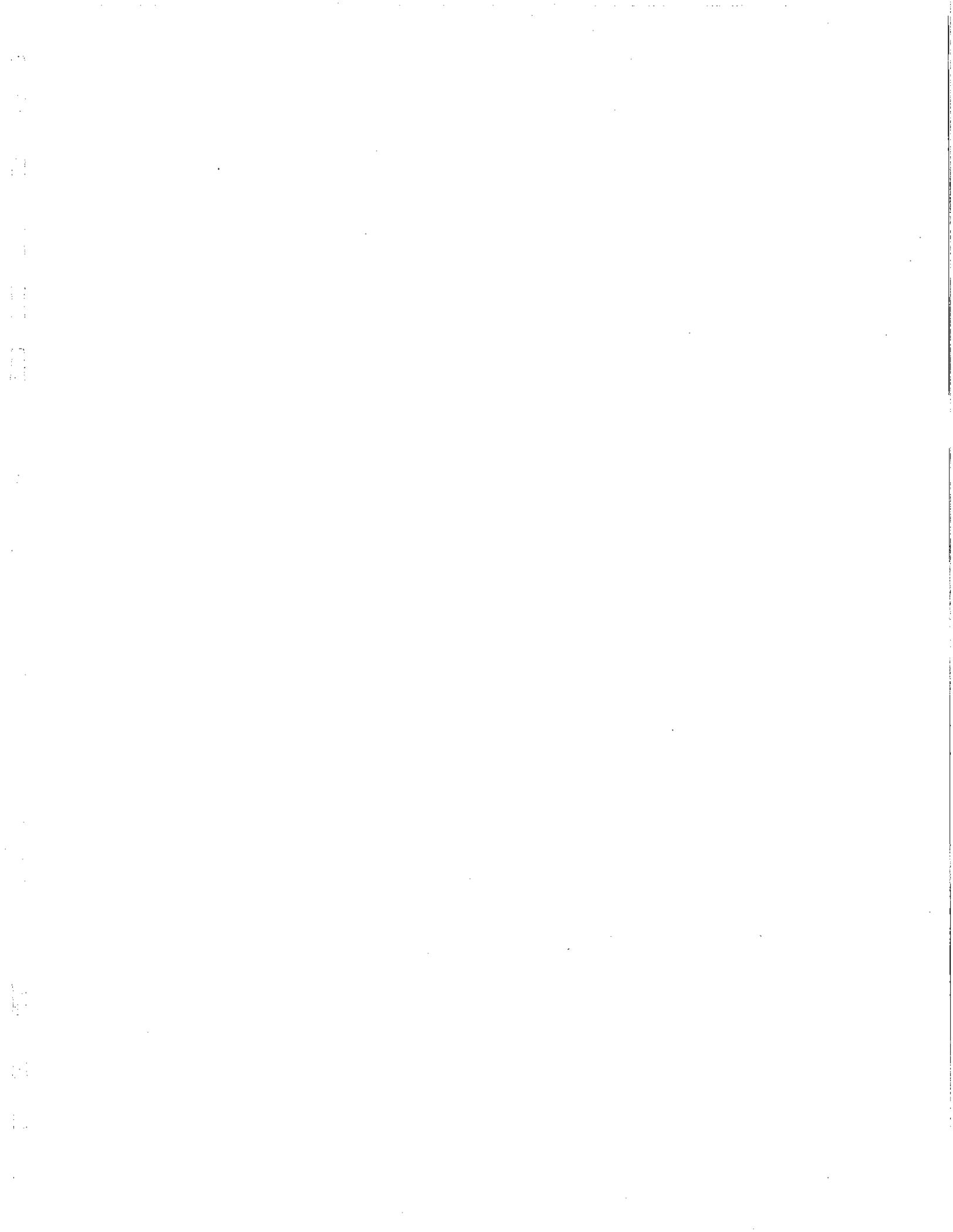


**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
FIGURE 6  
SAMPLING LOCATIONS AT TANK 22**



- LEGEND**
- ▲ SOIL SAMPLE COLLECTED DURING TANK REMOVAL
  - ▼ SOIL SAMPLE COLLECTED DURING SUBSEQUENT EXCAVATION
  - ▽ WATER SAMPLE COLLECTED DURING TANK REMOVAL
  - SOIL AND GROUNDWATER SAMPLE LOCATION
  - ⊕ MONITORING WELL LOCATION
- NOVEMBER 1999 ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW





# MOFFETT FEDERAL AIRFIELD TANK CLOSURE REPORT SAMPLING LOCATIONS AT TANK 28 FIGURE 7

SOIL SAMPLE COLLECTED  
DURING TANK REMOVAL

## LEGEND

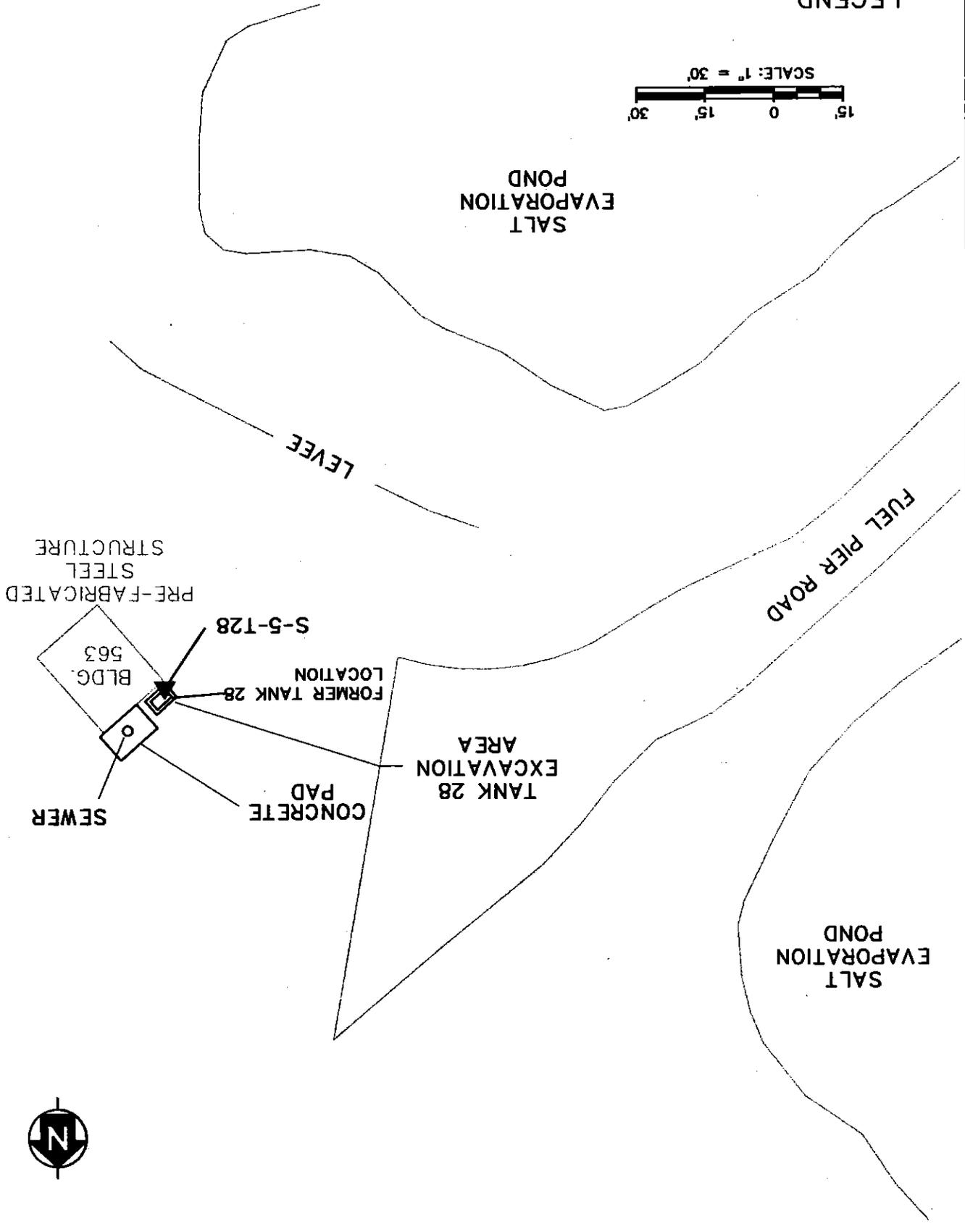
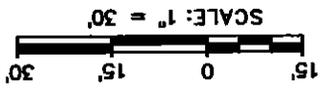
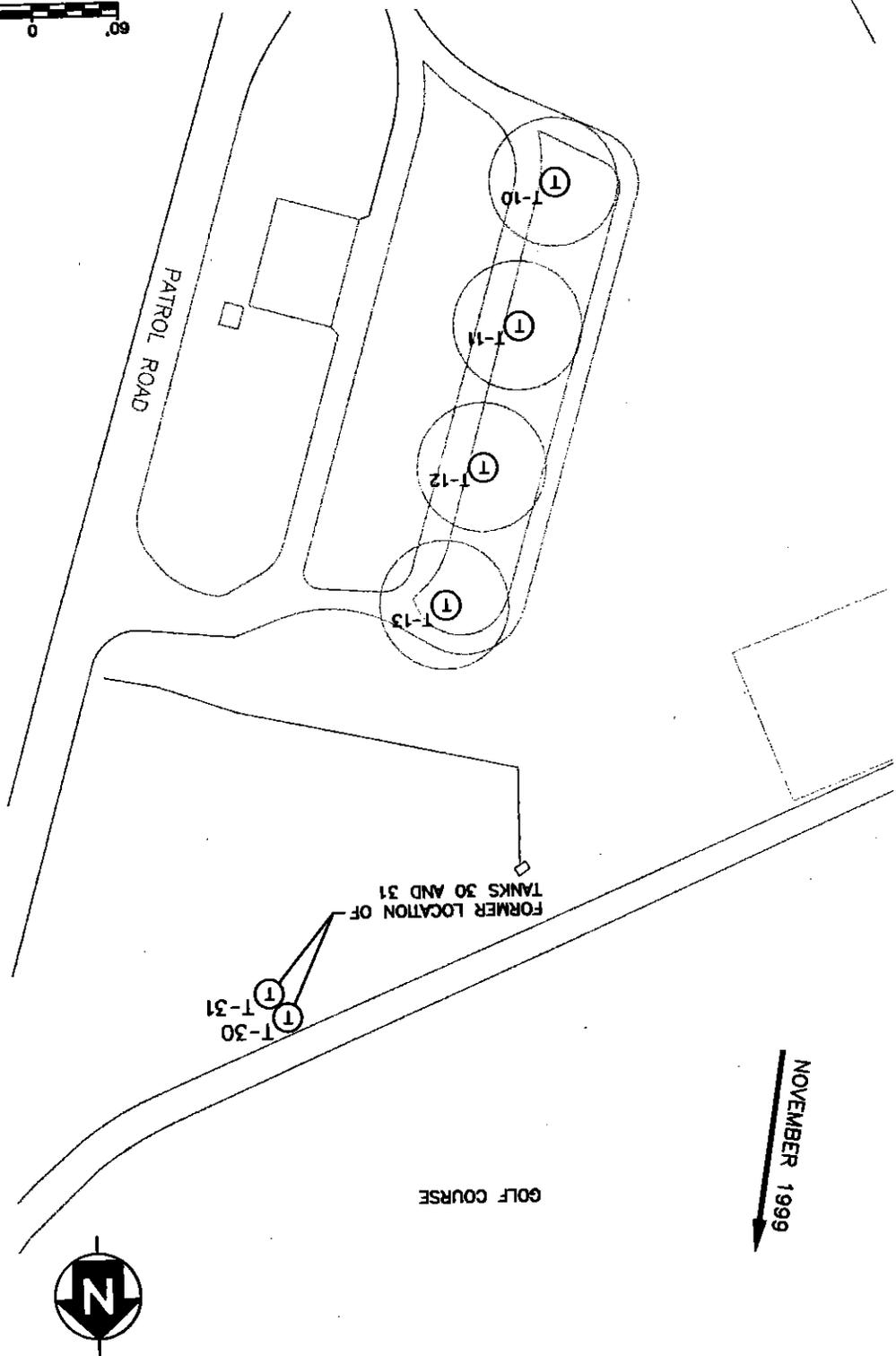




FIGURE 8  
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
LOCATIONS OF TANKS 30 AND 31

LEGEND  
NOVEMBER 1999  
TANK LOCATION  
APPROXIMATE DIRECTION OF GROUNDWATER FLOW

SCALE: 1" = 120'  
120' 60' 0' 60' 120'

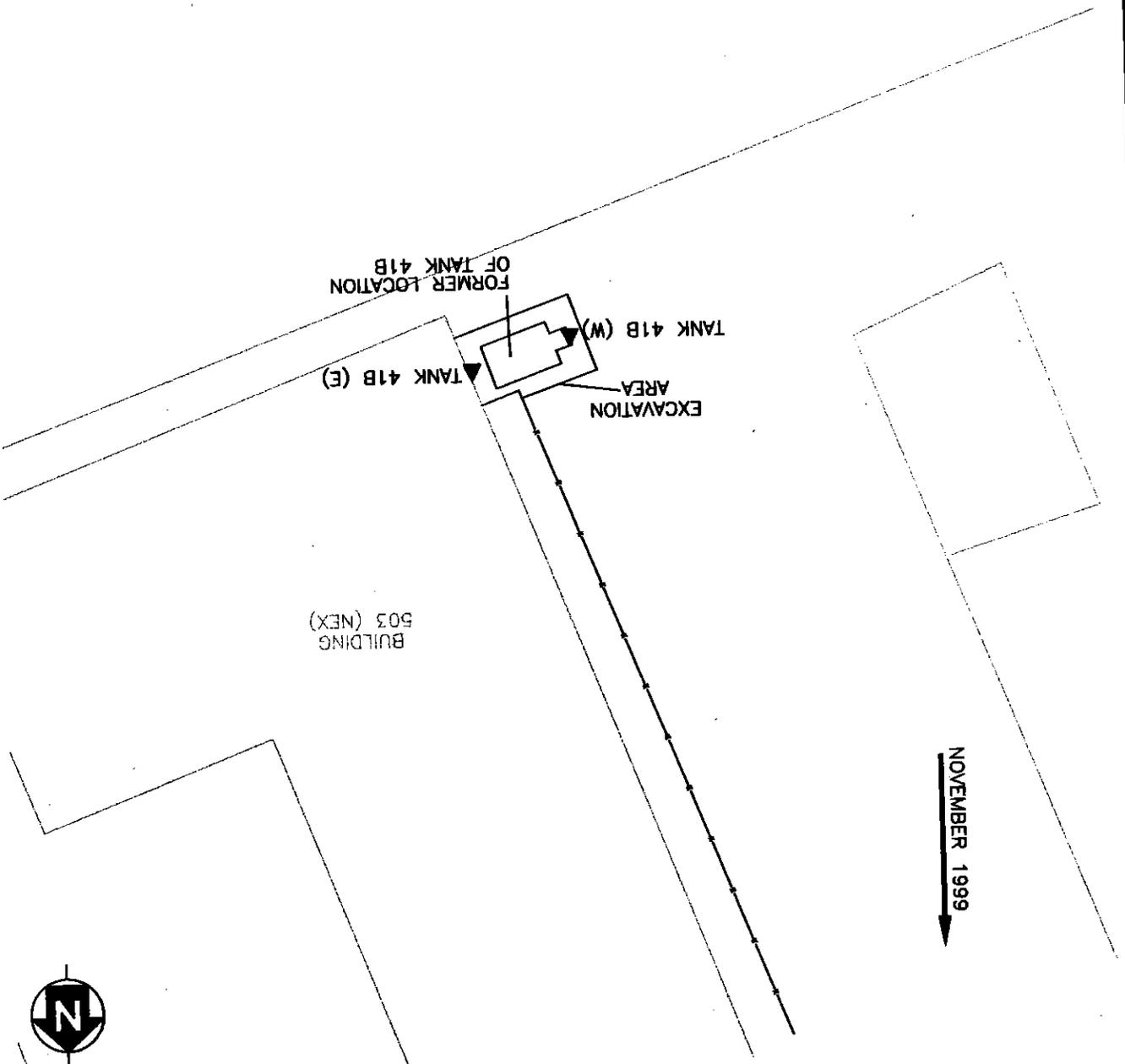
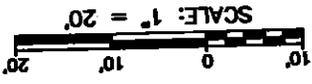




# MOFFETT FEDERAL AIRFIELD TANK CLOSURE REPORT FIGURE 9 SAMPLING LOCATIONS AT TANK 41B

NOVEMBER 1999  
APPROXIMATE DIRECTION OF  
GROUNDWATER FLOW  
SOIL SAMPLE COLLECTED  
DURING TANK REMOVAL

## LEGEND





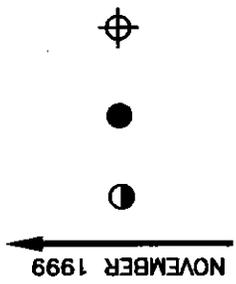
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
FIGURE 11  
SAMPLING LOCATIONS AT TANK 55  
PARENTHESES)

MONITORING WELL LOCATION  
(SOIL BORING IN  
PARENTHESES)

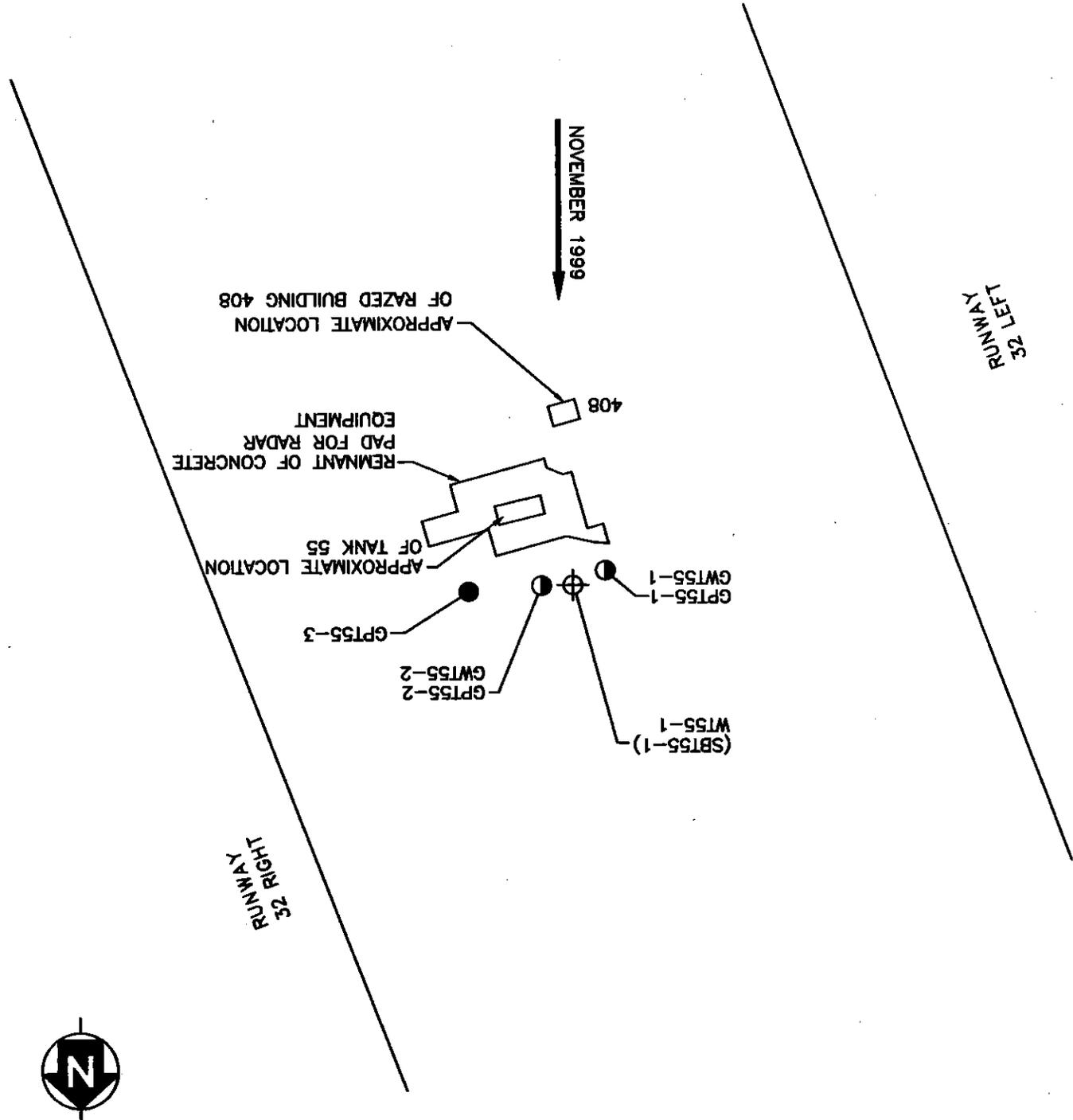
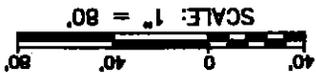
LOCATION OF ATTEMPTED  
GROUNDWATER SAMPLE

GROUNDWATER SAMPLING LOCATION

APPROXIMATE DIRECTION OF GROUNDWATER FLOW



LEGEND

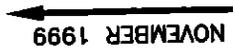




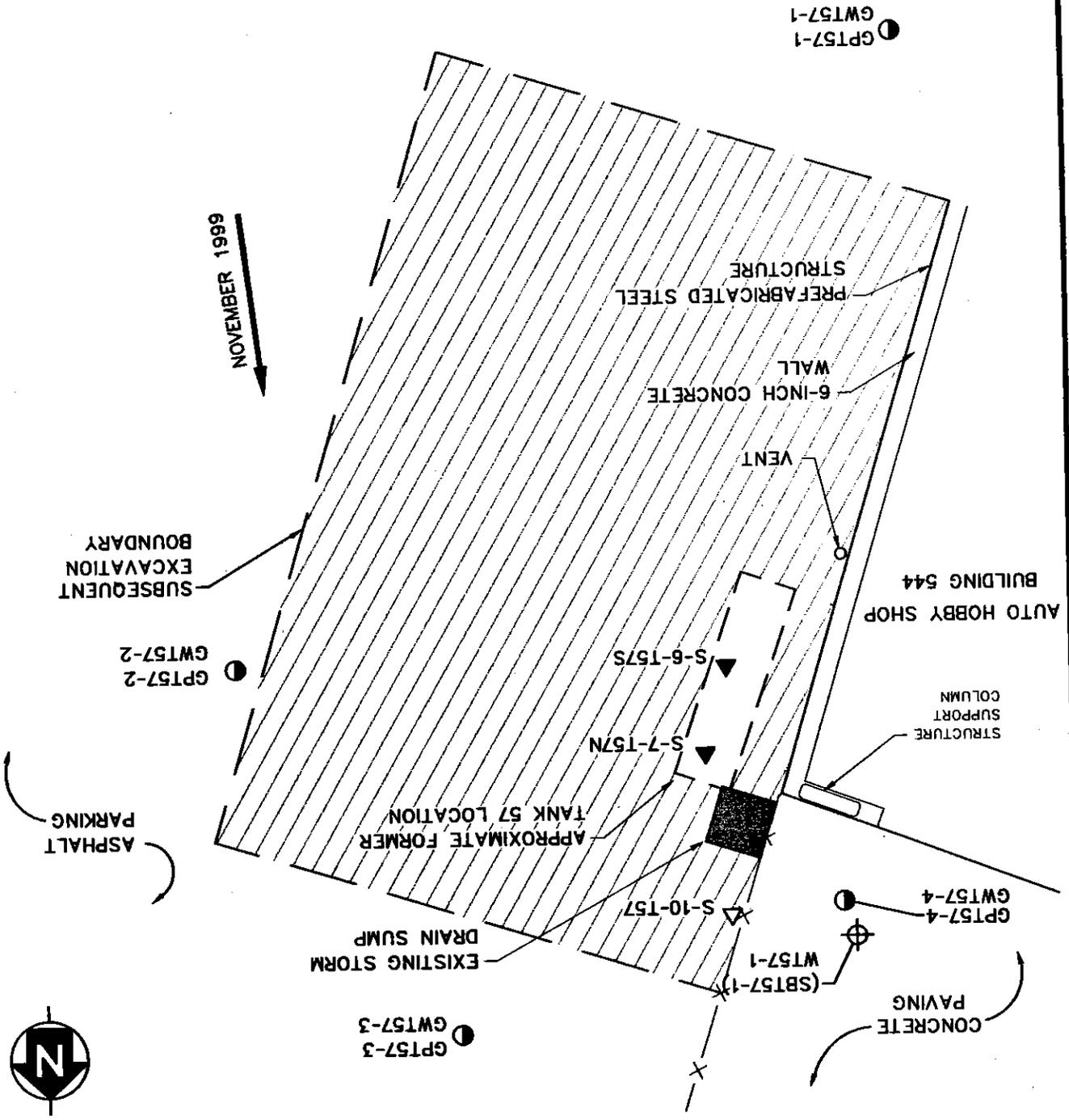
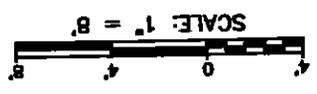
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
FIGURE 12  
SAMPLING LOCATIONS AT TANK 57

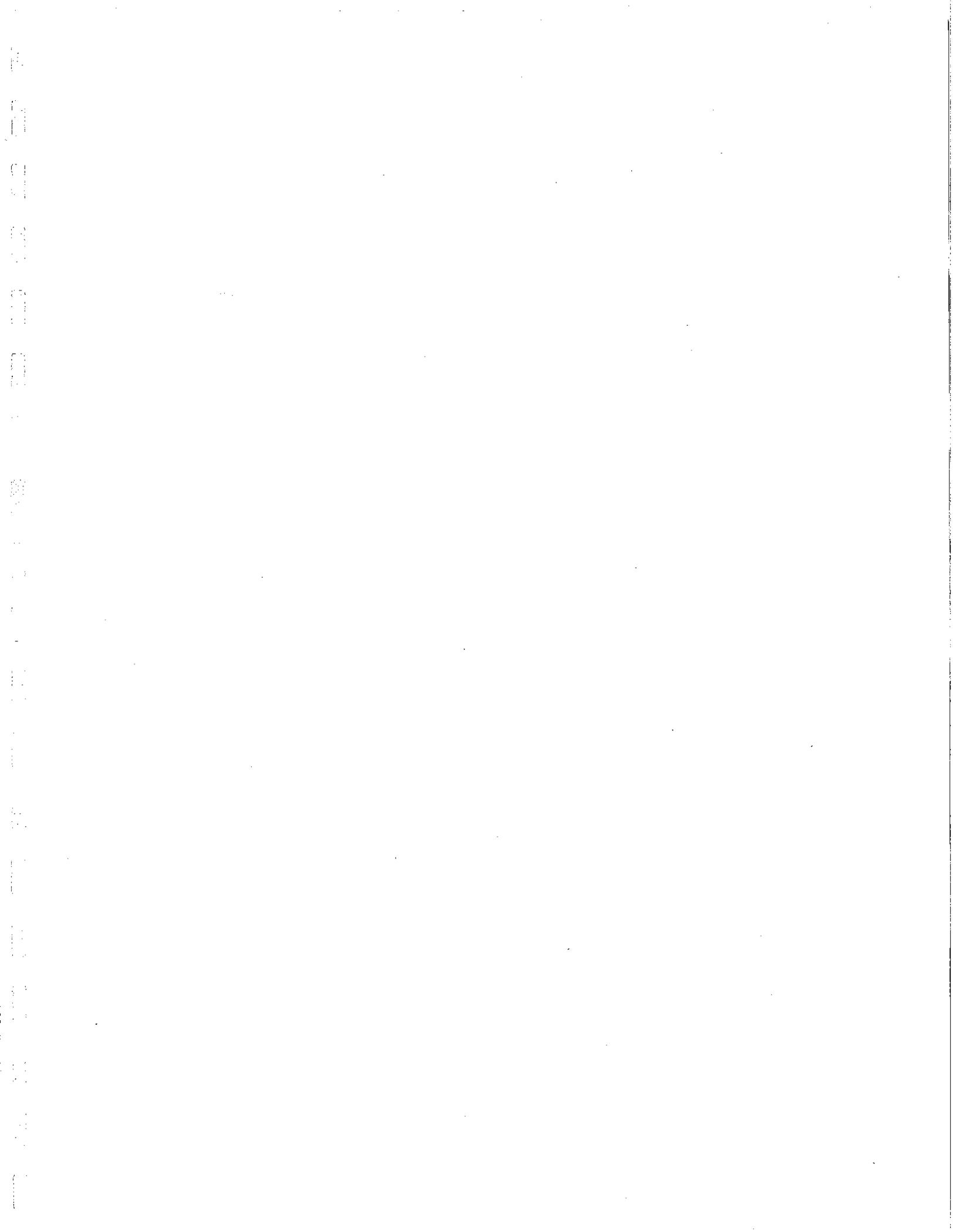
- ⊕ MONITORING WELL LOCATION (SOIL BORING IN PARENTHESES)
- SOIL AND GROUNDWATER SAMPLE LOCATION
- △ SOIL SAMPLE COLLECTED DURING SUBSEQUENT EXCAVATION
- ◀ SOIL SAMPLE COLLECTED DURING TANK REMOVAL

APPROXIMATE DIRECTION OF GROUNDWATER FLOW



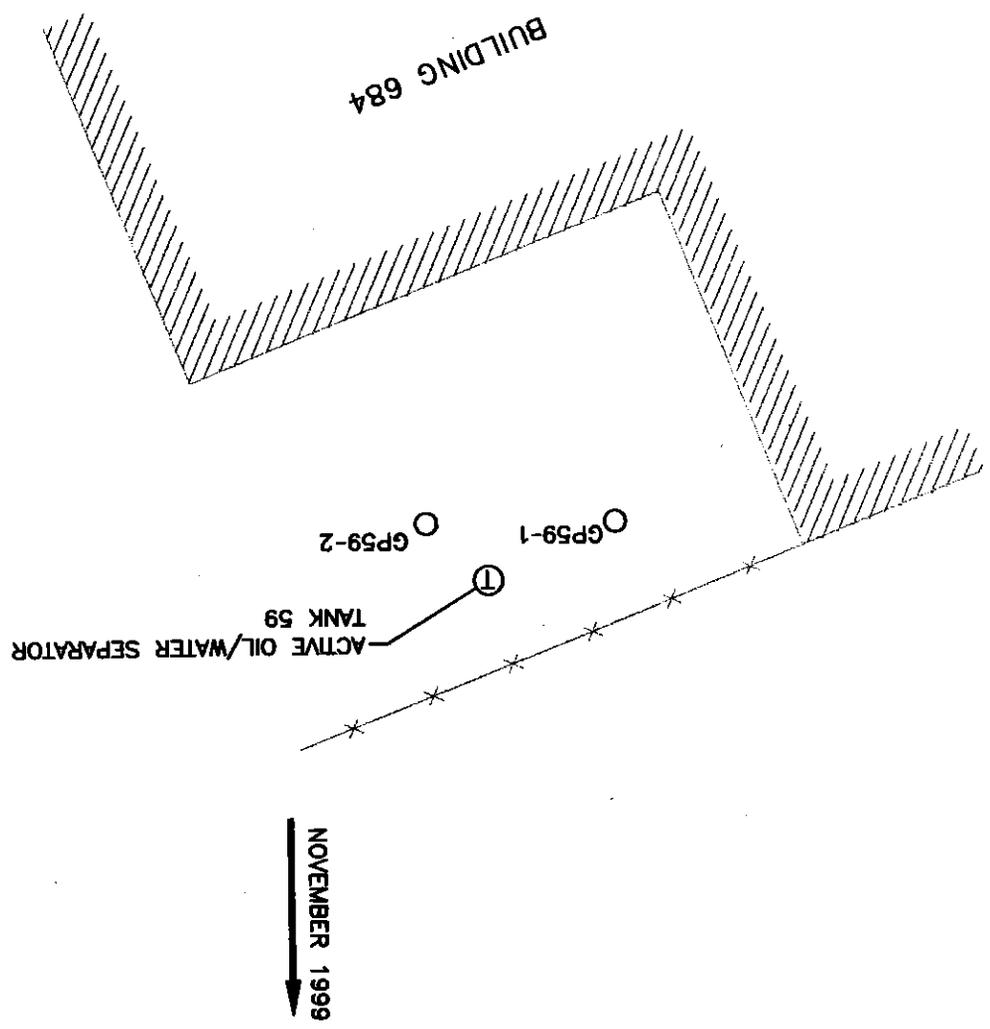
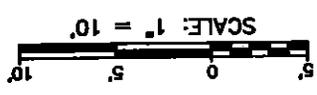
LEGEND





MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANK 59  
FIGURE 13

LEGEND  
NOVEMBER 1999  
← APPROXIMATE DIRECTION OF GROUNDWATER FLOW  
○ GEOPROBE SOIL SAMPLE LOCATION  
① TANK LOCATION



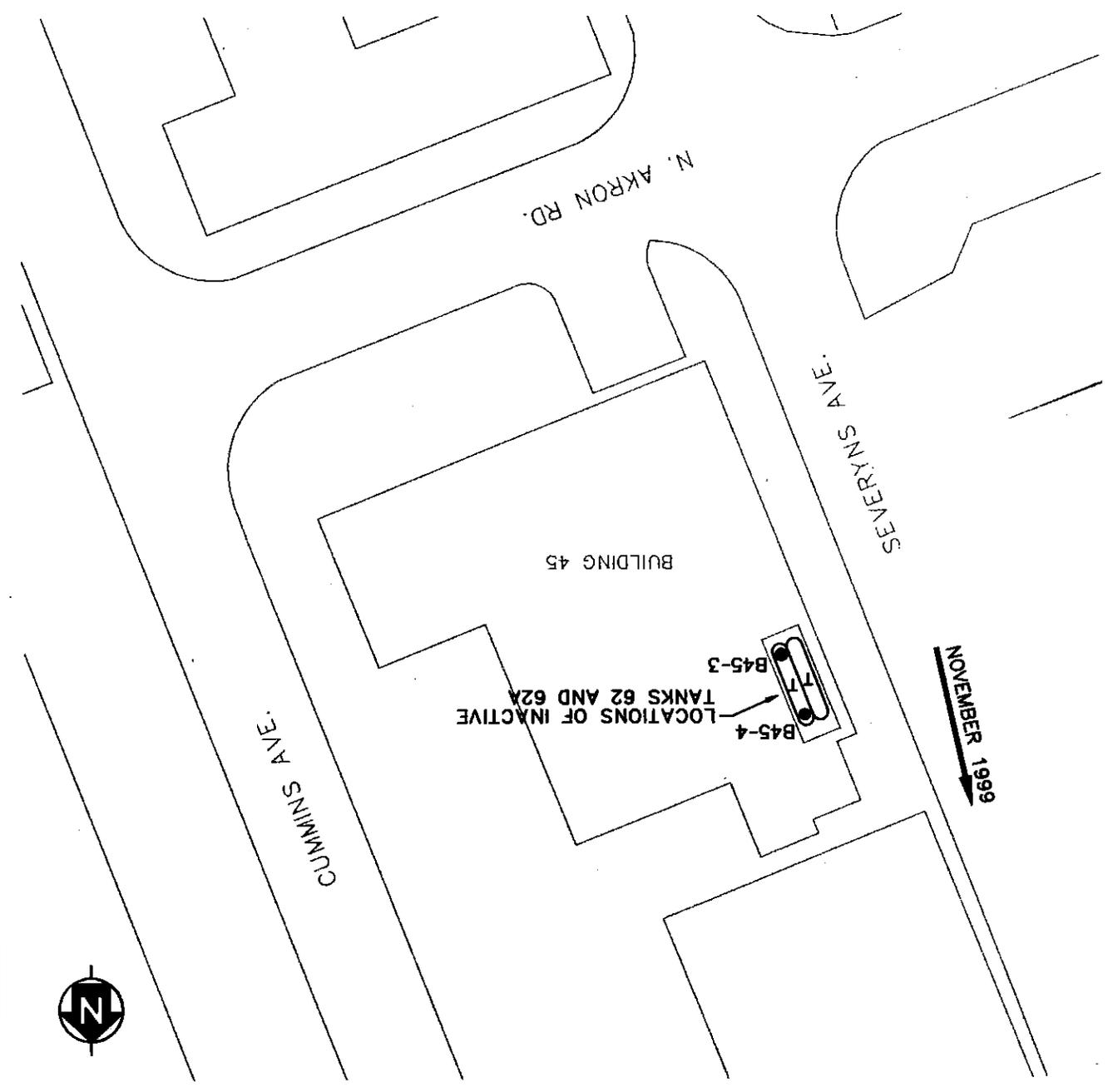
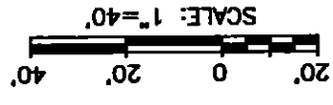


MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANKS 62 AND 62A

FIGURE 14

**LEGEND**

- SAMPLE LOCATION
- ▭ TANK LOCATION
- ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- ← NOVEMBER 1999



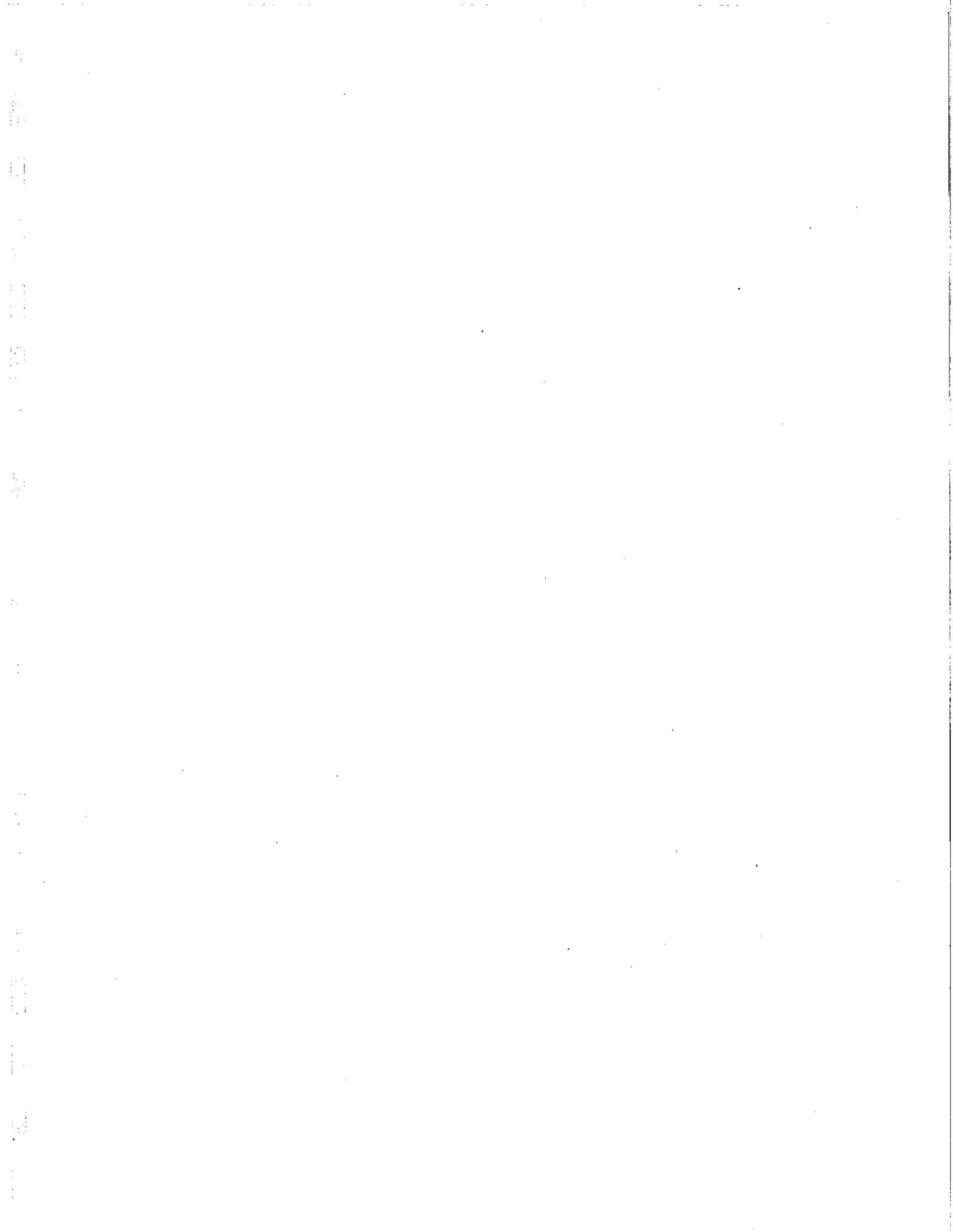


FIGURE 15  
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANK 63

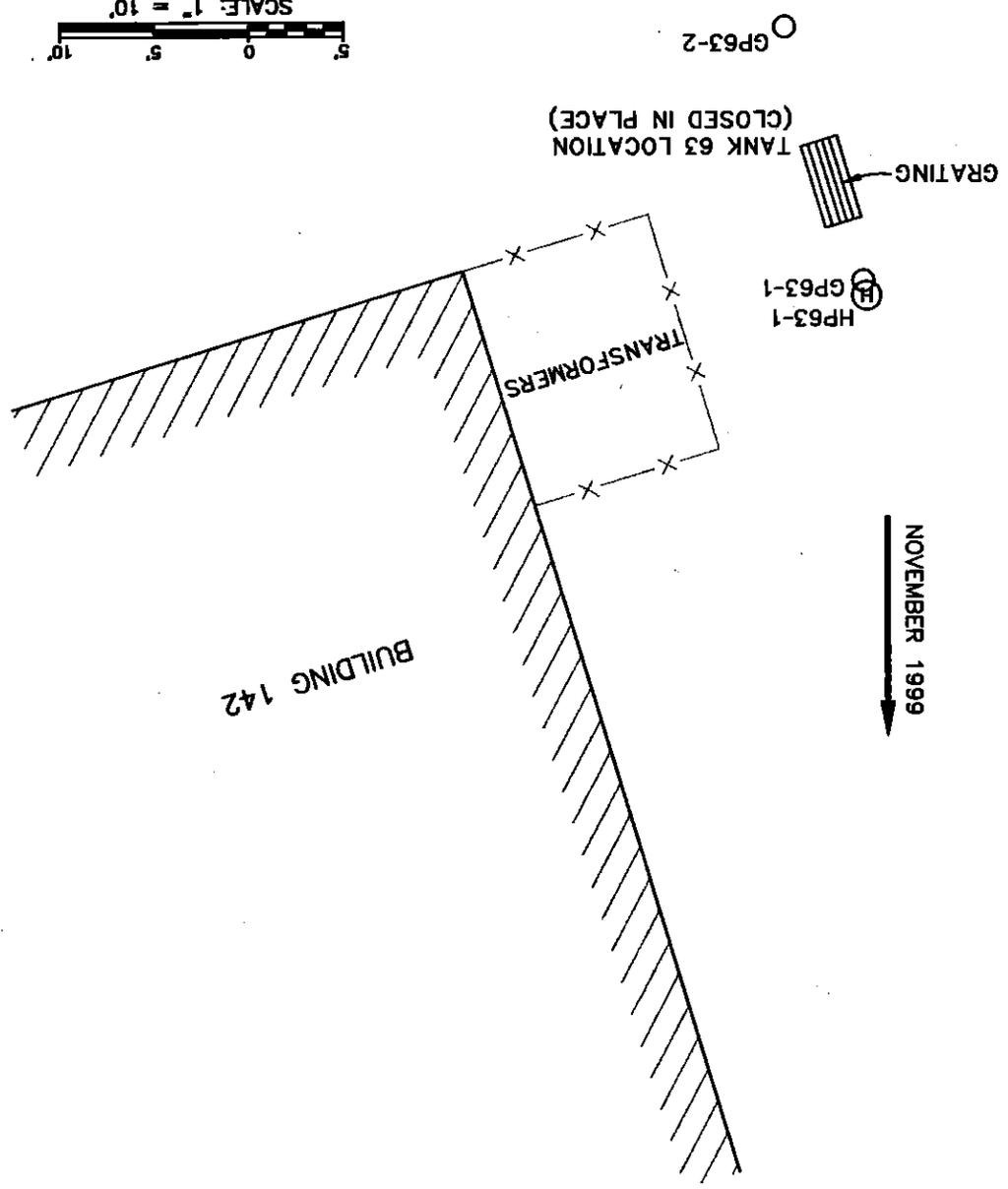
**LEGEND**

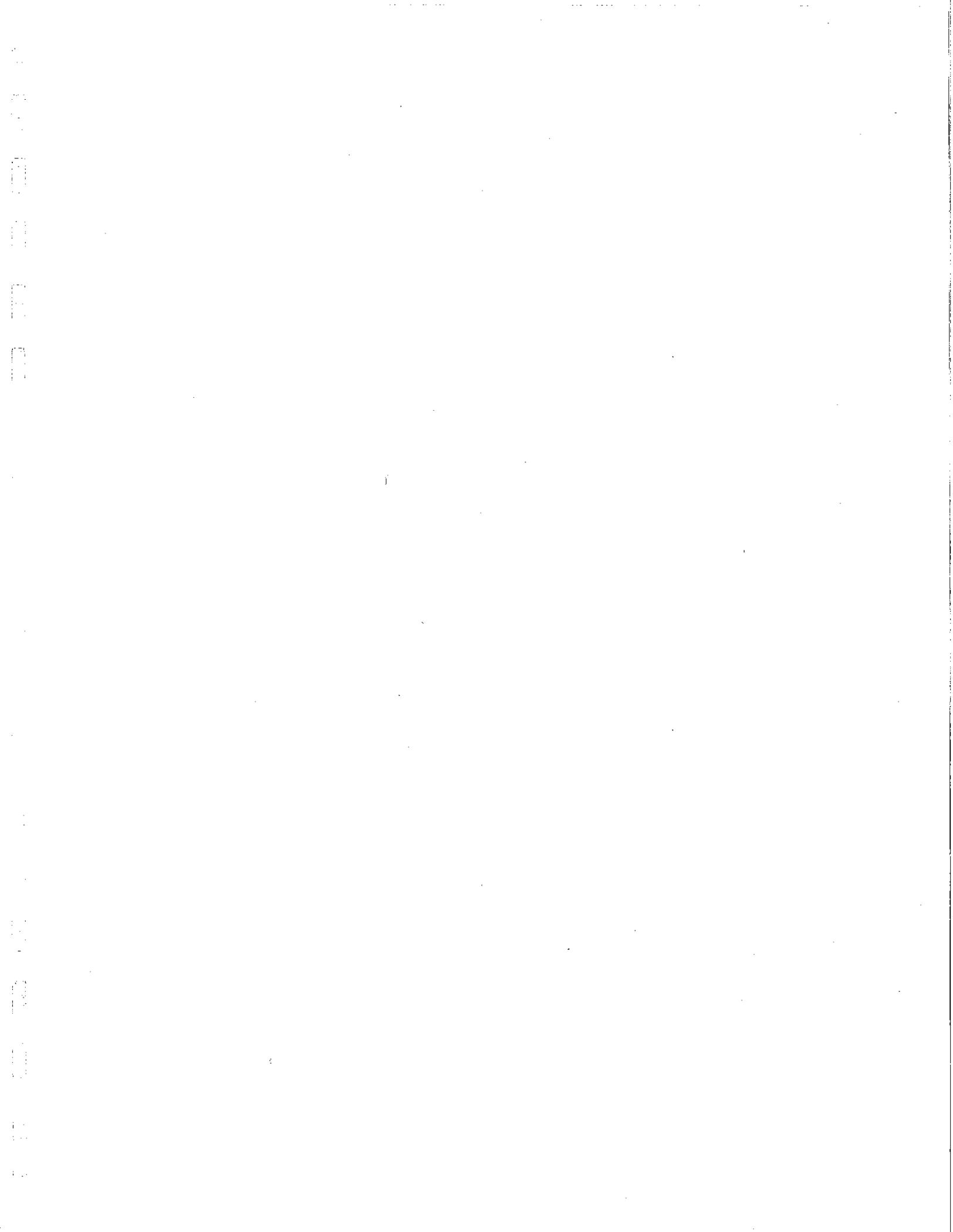
⊙ GEOPROBE SOIL SAMPLE LOCATION

⊕ HYDRONUNCH GROUNDWATER SAMPLE LOCATION

← APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOVEMBER 1999



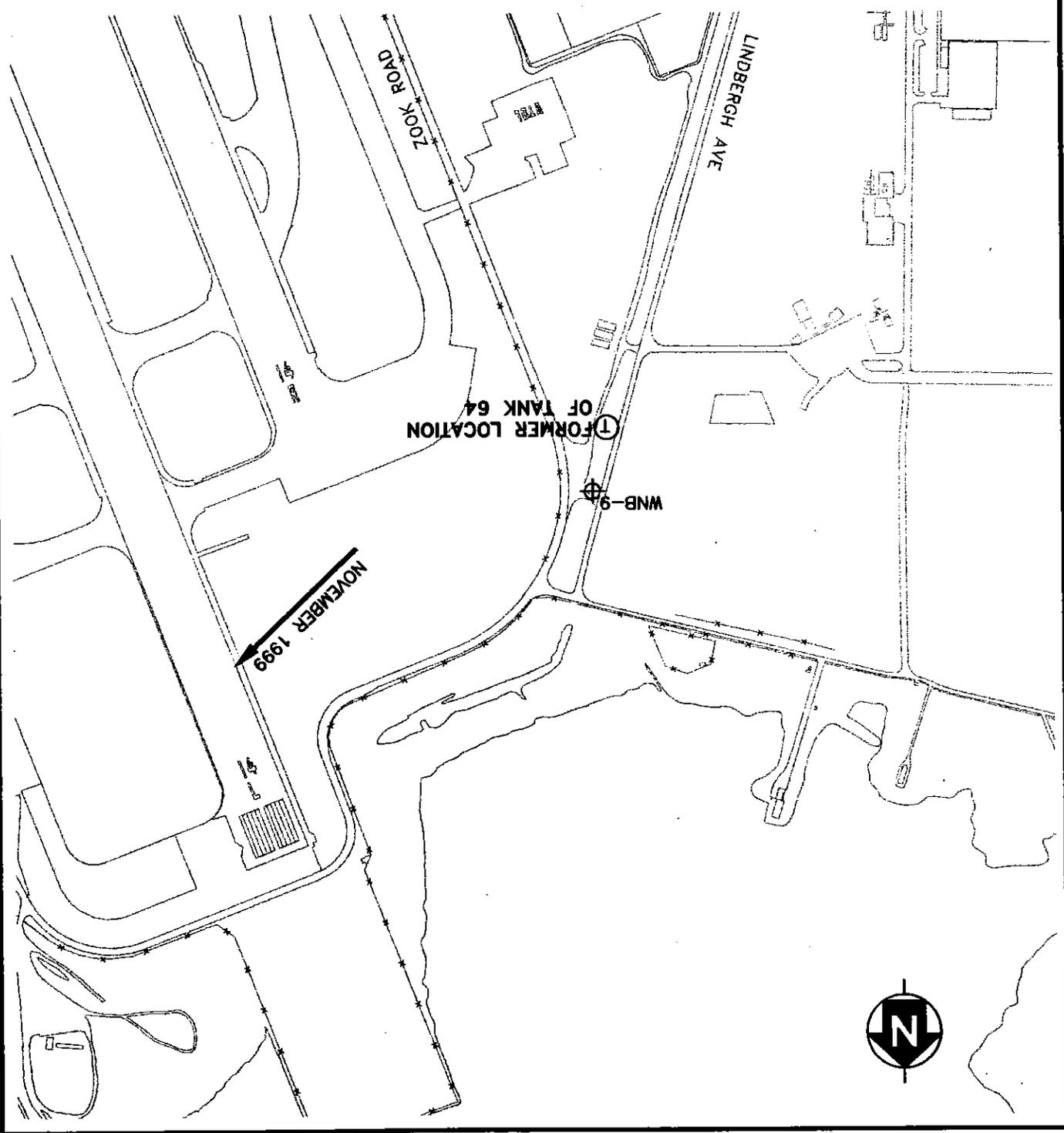
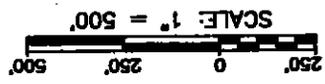


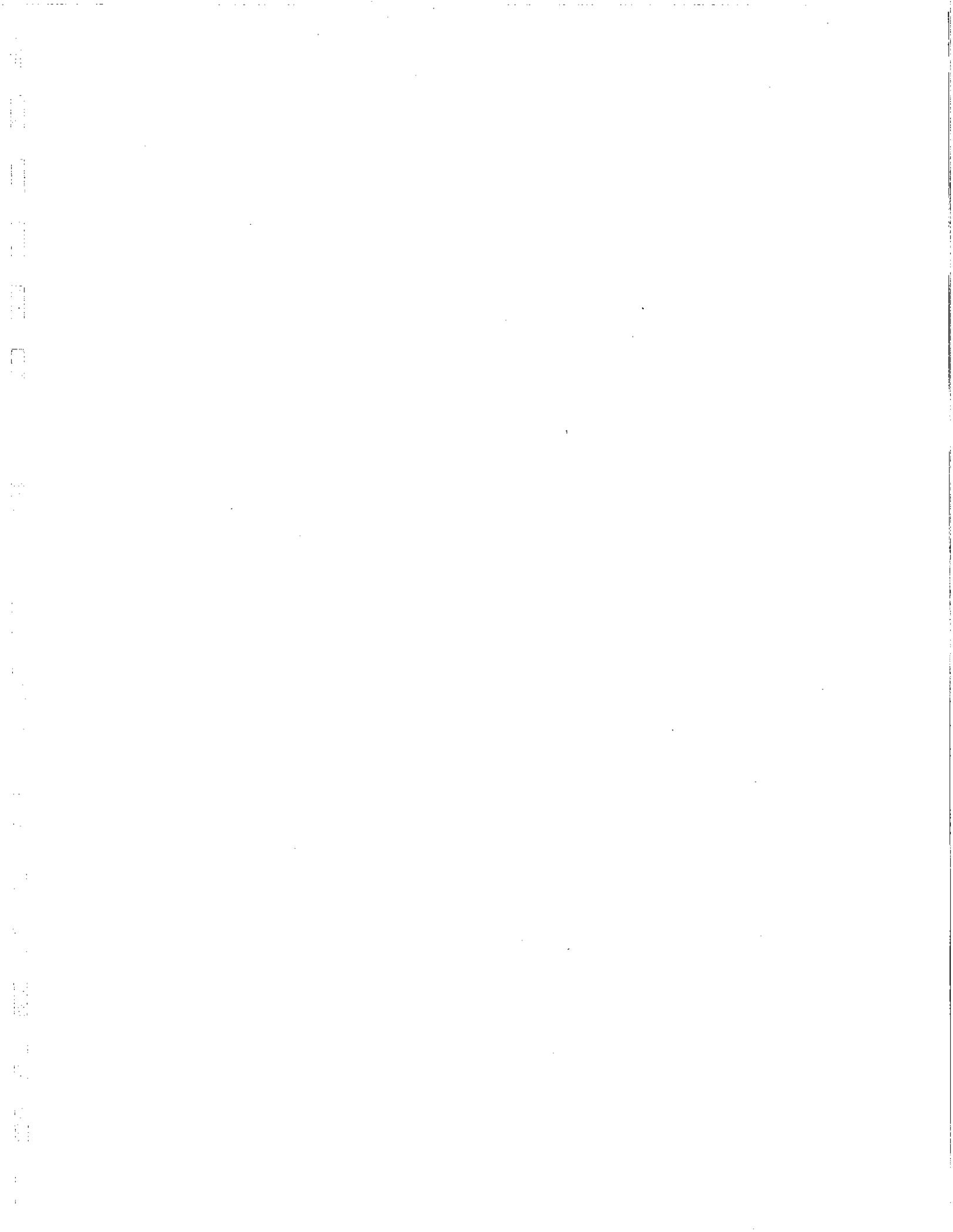
**FIGURE 16**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 64**

NOTE: SOIL SAMPLES ARE NOT INCLUDED ON THIS FIGURE, BECAUSE THEIR EXACT LOCATION IS UNKNOWN. REFER TO SAIC 1997.

- ① TANK LOCATION
- ⊕ MONITORING WELL LOCATION
- ← APPROXIMATE DIRECTION OF NOVEMBER 1999 GROUNDWATER FLOW

**LEGEND**





# MOFFETT FEDERAL AIRFIELD TANK CLOSURE REPORT SAMPLING LOCATIONS AT TANKS 66, 67, 68, AND 91

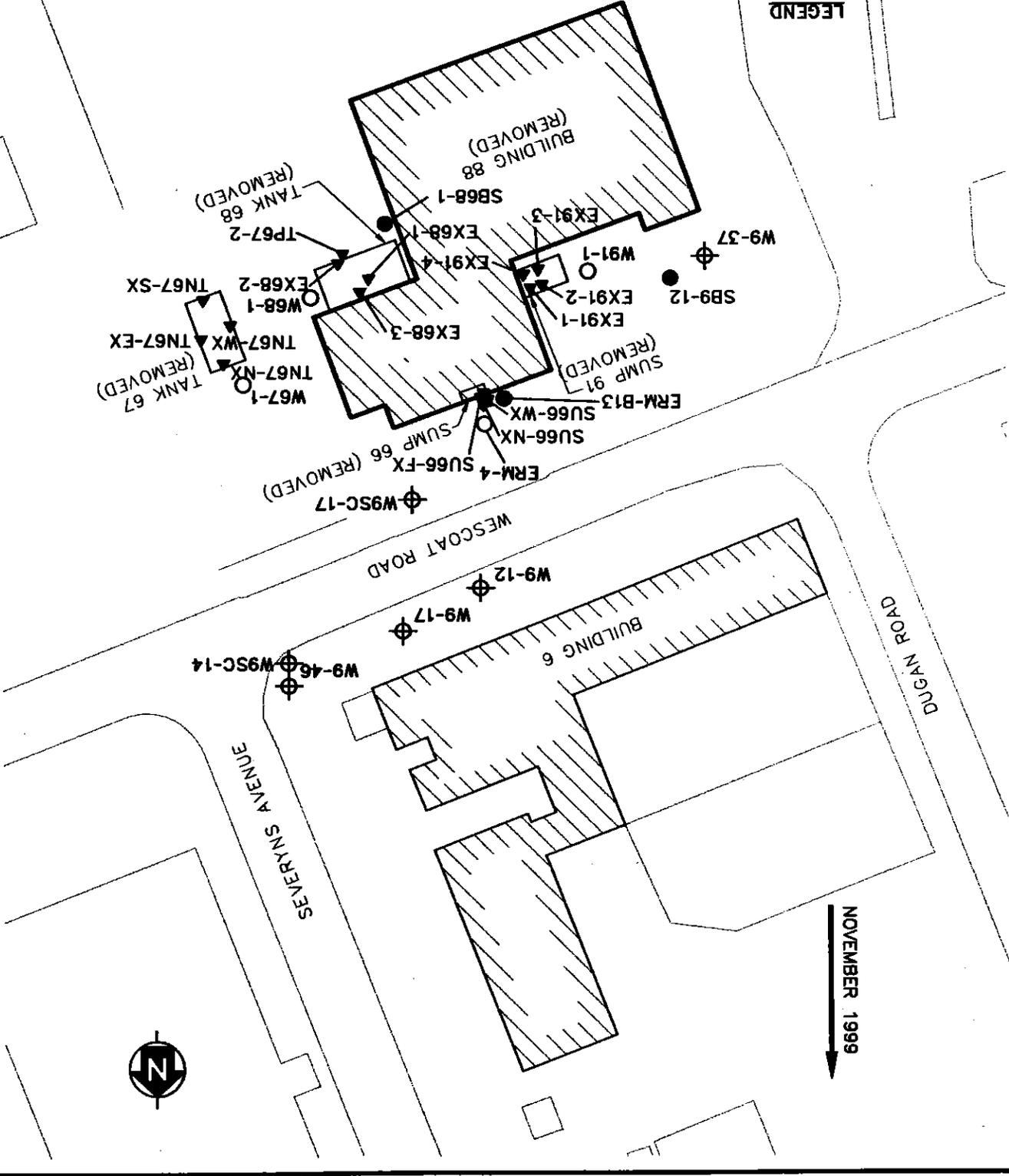
## FIGURE 17

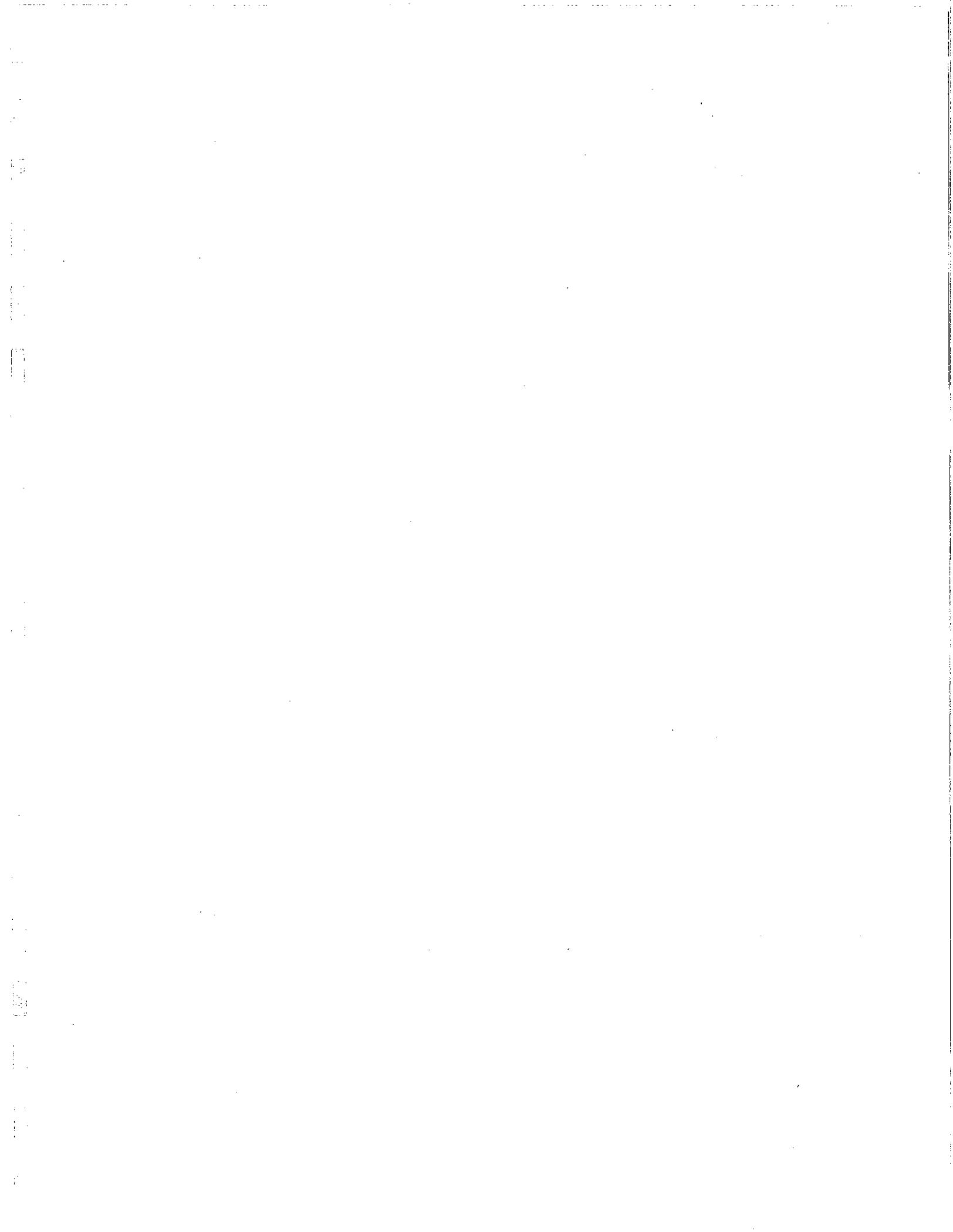
- FORMER GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION
- ▼ SOIL SAMPLE COLLECTED DURING TANK REMOVAL
- ⊕ MONITORING WELL LOCATION

NOVEMBER 1999  
← APPROXIMATE DIRECTION OF GROUNDWATER FLOW



### LEGEND





**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
FIGURE 18  
SAMPLING LOCATIONS AT TANK 69**

**LEGEND**

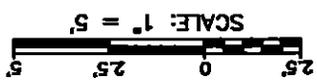
← NOVEMBER 1999

▲ GROUNDWATER SAMPLE COLLECTED DURING TANK REMOVAL

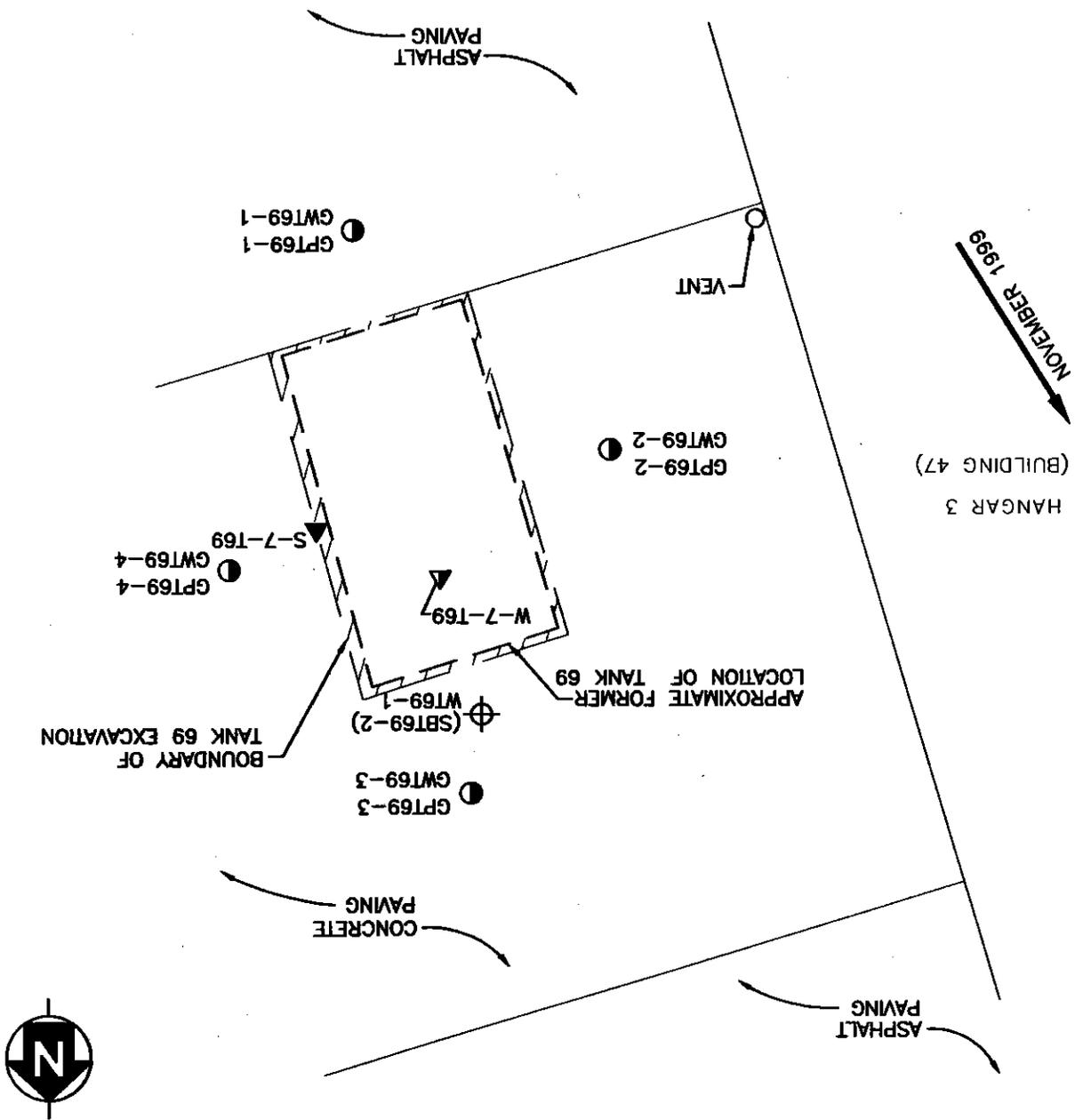
▼ SOIL SAMPLE COLLECTED DURING TANK REMOVAL

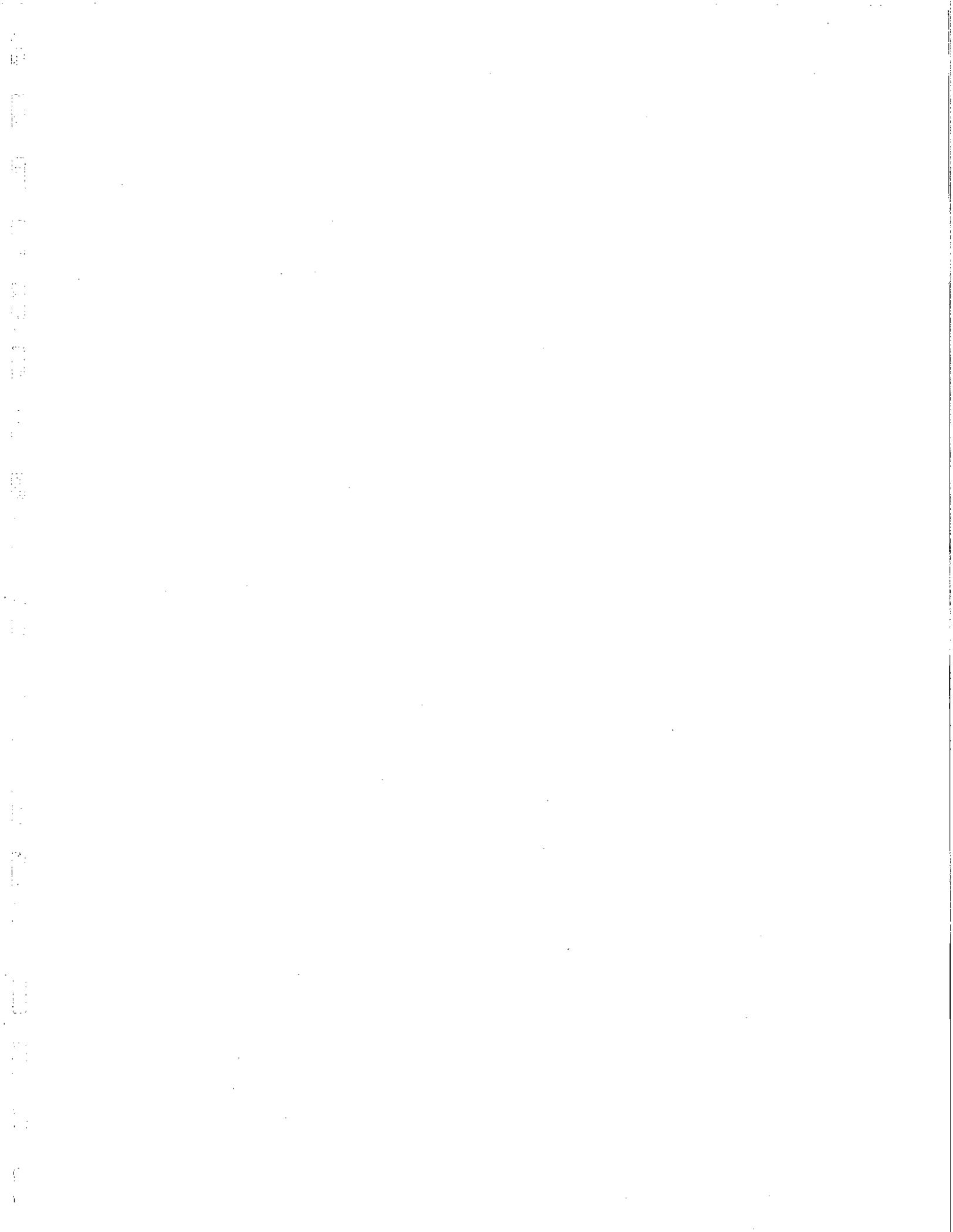
● SOIL AND GROUNDWATER SAMPLE LOCATION

⊕ MONITORING WELL LOCATION (SOIL BORING IN PARENTHESES)



APPROXIMATE DIRECTION OF GROUNDWATER FLOW



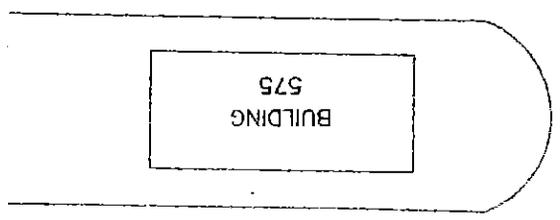
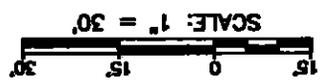


# TANK CLOSURE REPORT MOFFETT FEDERAL AIRFIELD SAMPLING LOCATIONS AT TANK 77

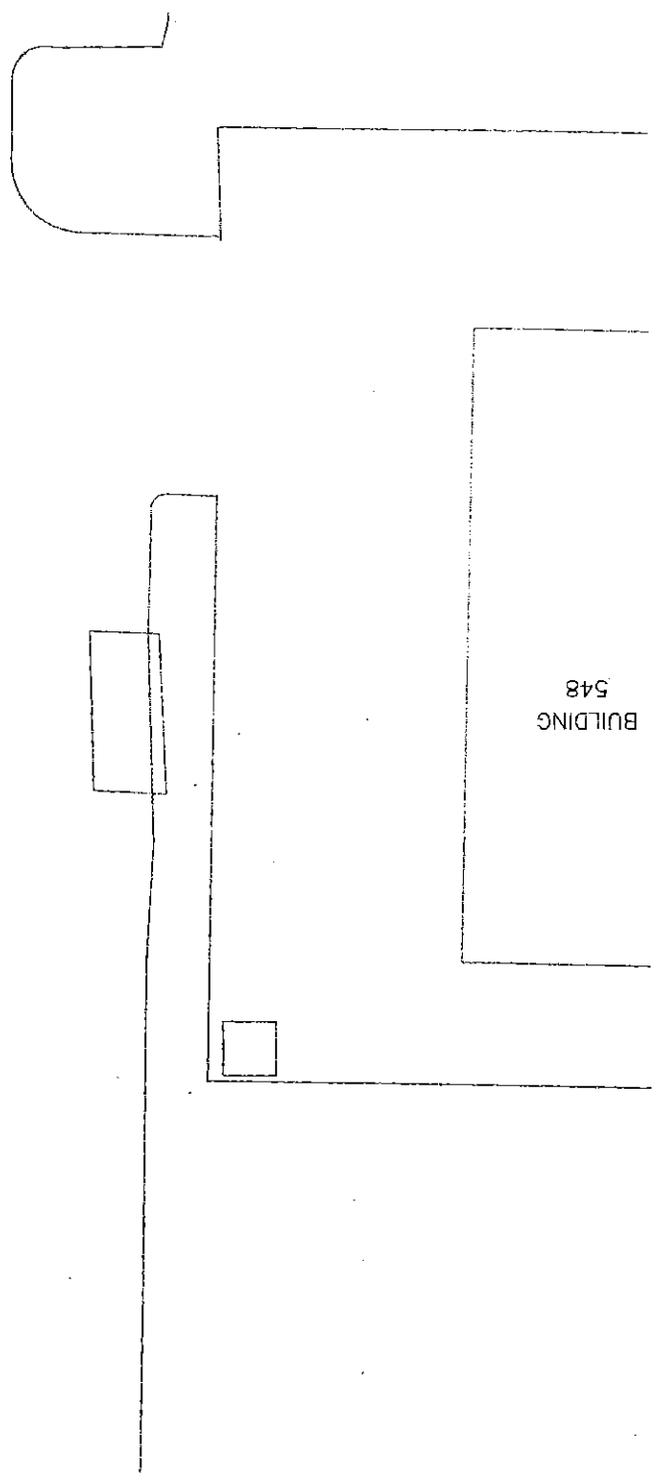
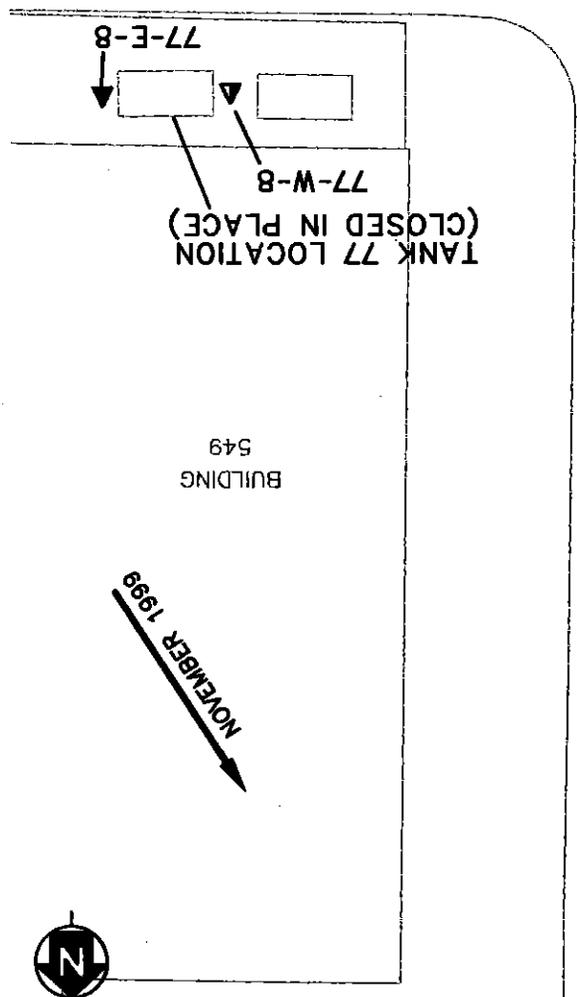
## FIGURE 19

▲ SOIL SAMPLE COLLECTED DURING TANK REMOVAL  
 ▼ GROUNDWATER SAMPLE COLLECTED DURING TANK REMOVAL  
 ← APPROXIMATE DIRECTION OF GROUNDWATER FLOW NOVEMBER 1999

### LEGEND

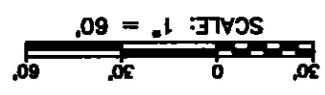


TO  
MACON  
ROAD



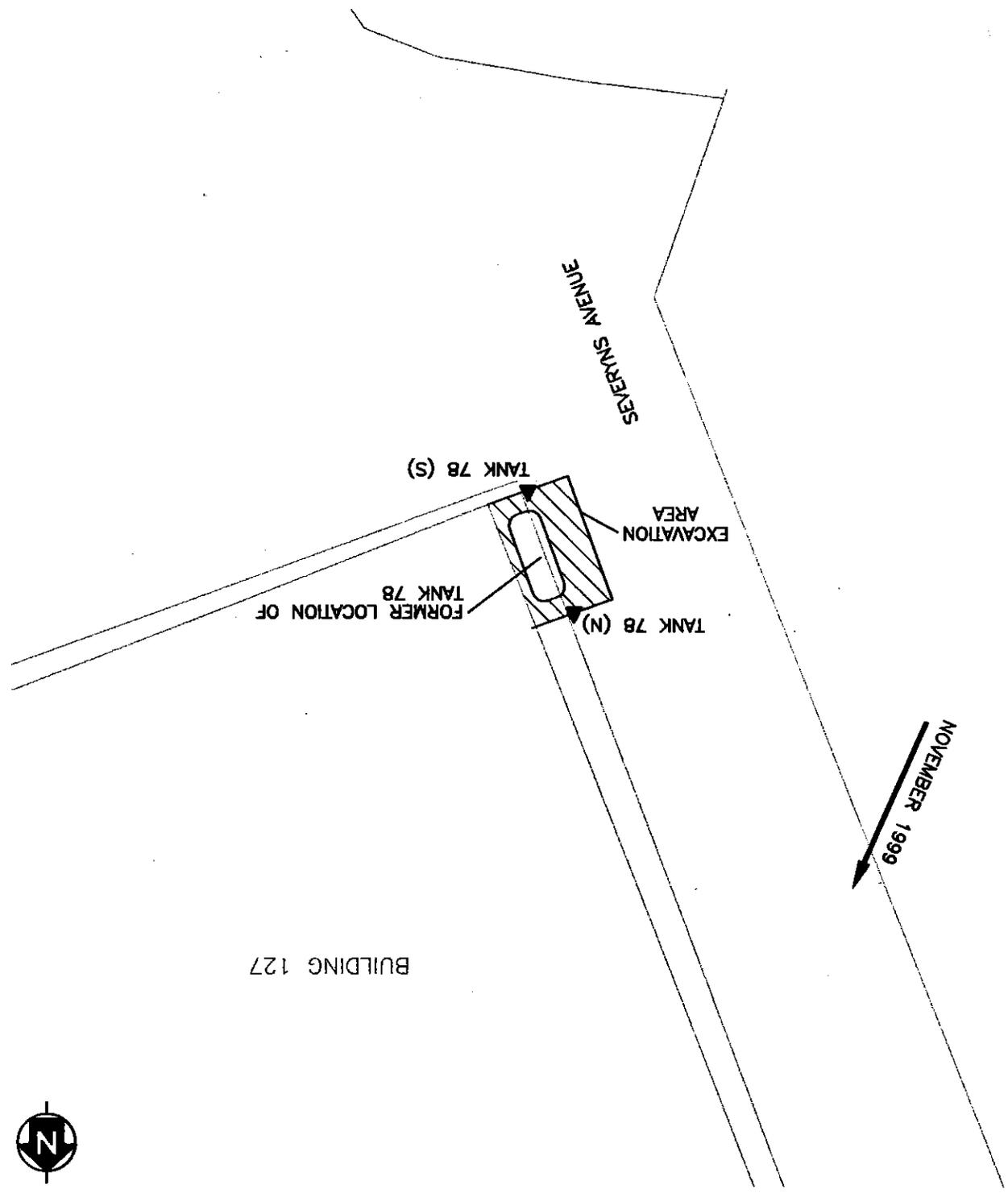


MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANK 78  
FIGURE 20

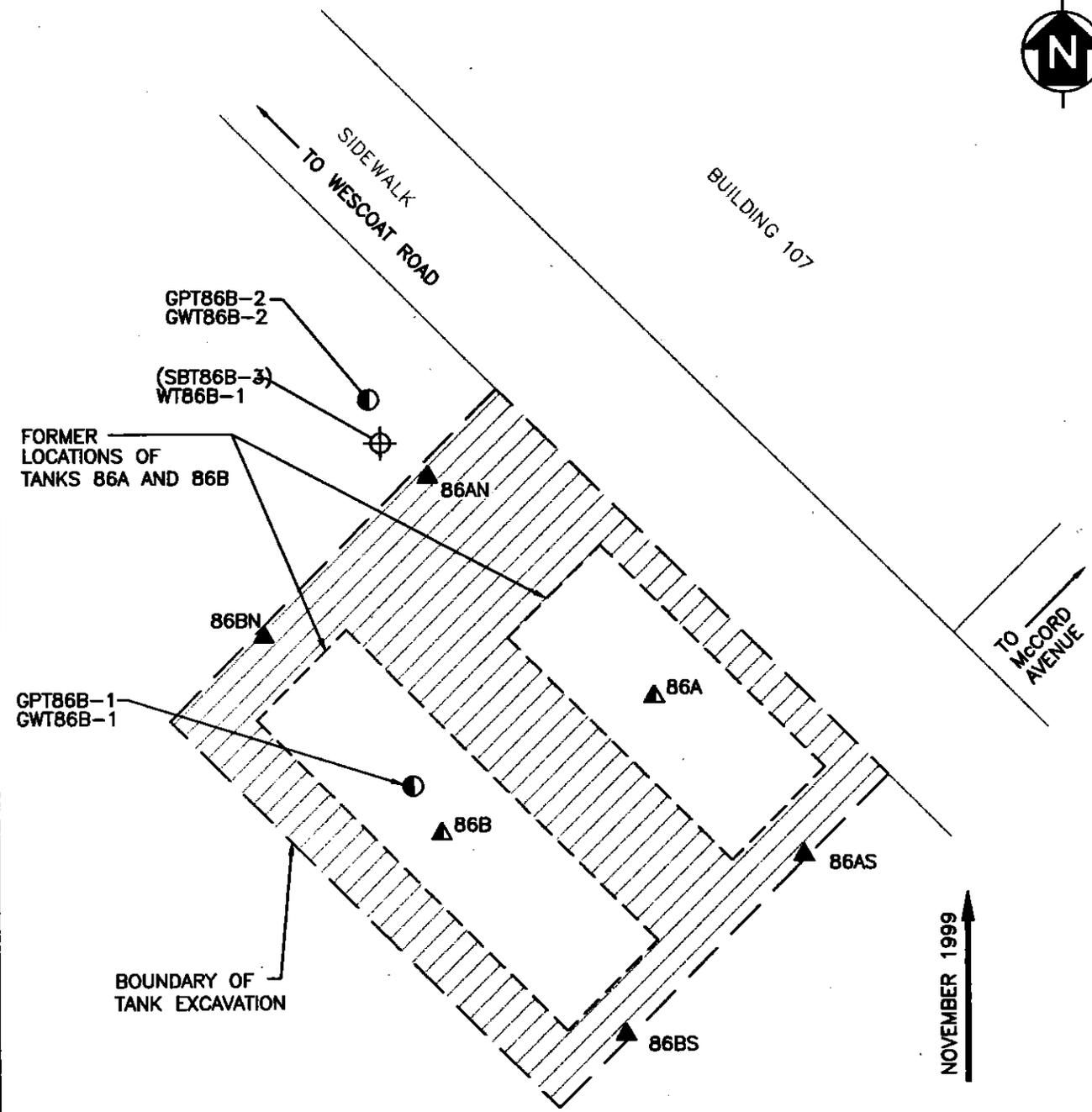


NOVEMBER 1999  
APPROXIMATE DIRECTION OF  
GROUNDWATER FLOW  
SOIL SAMPLE COLLECTED  
DURING TANK REMOVAL

LEGEND

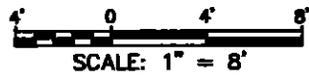






**LEGEND**

- 
**NOVEMBER 1999** APPROXIMATE DIRECTION OF GROUNDWATER FLOW
-  SOIL SAMPLE COLLECTED DURING TANK REMOVAL
-  WATER SAMPLE COLLECTED DURING TANK REMOVAL
-  SOIL AND GROUNDWATER SAMPLE LOCATION
-  MONITORING WELL LOCATION (SOIL BORING IN PARENTHESES)



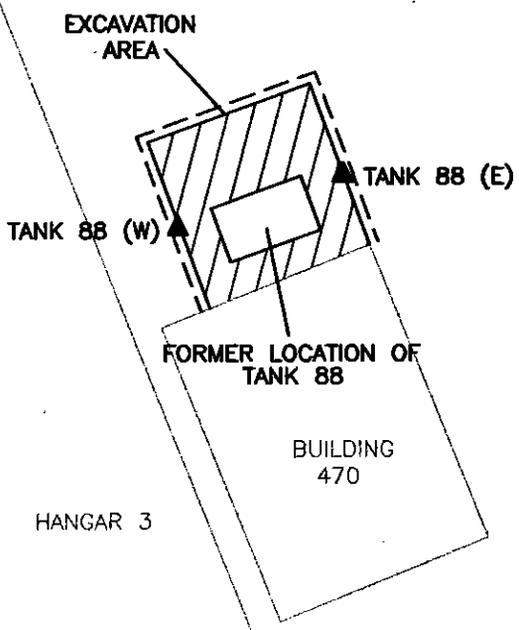
**FIGURE 21**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANKS 86A AND 86B**

R:\068\2269\0401\SAMP-T-BB.dwg 05/30/2000 thomasg DN





NOVEMBER 1999



**LEGEND**

NOVEMBER 1999

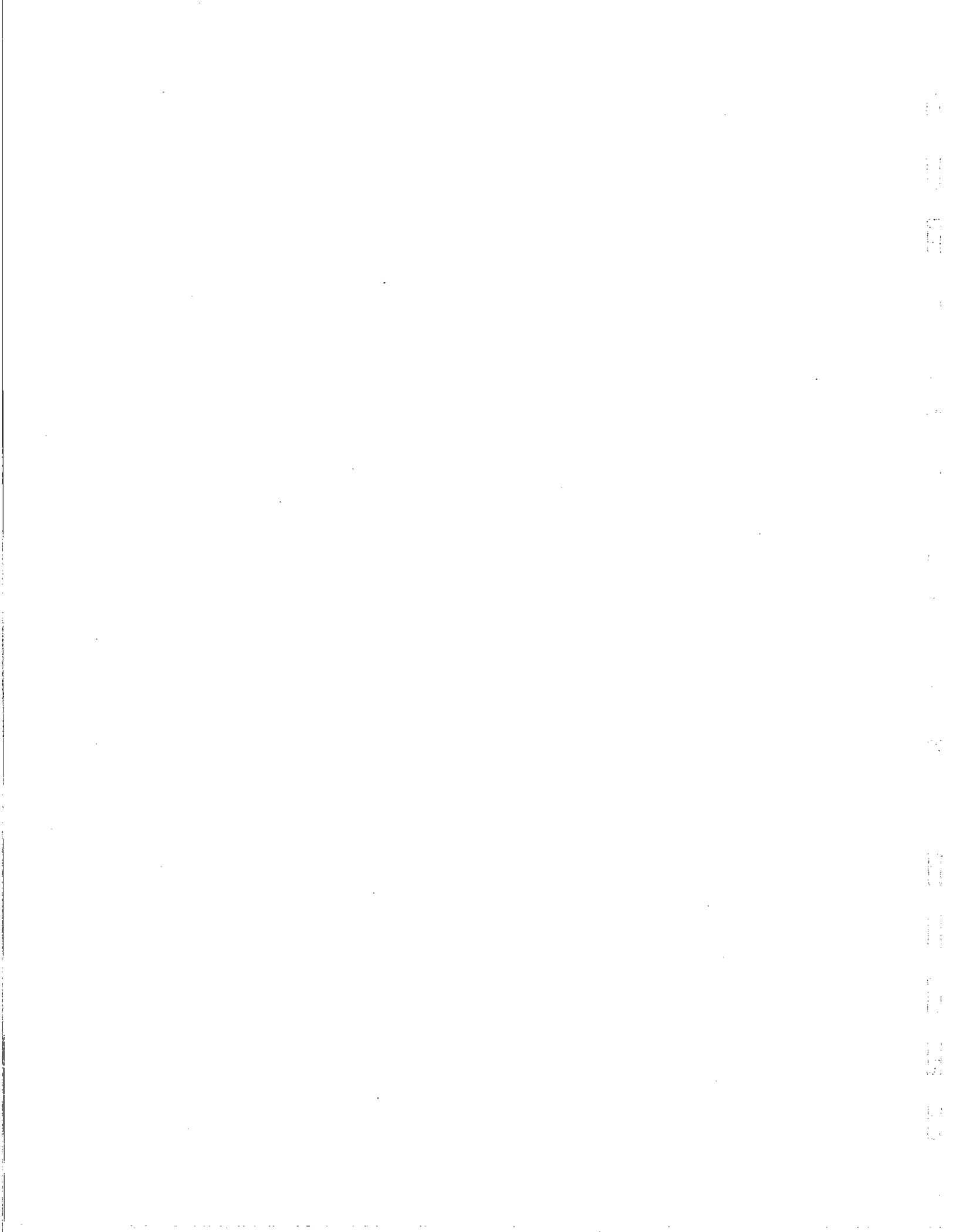
APPROXIMATE DIRECTION OF GROUNDWATER FLOW



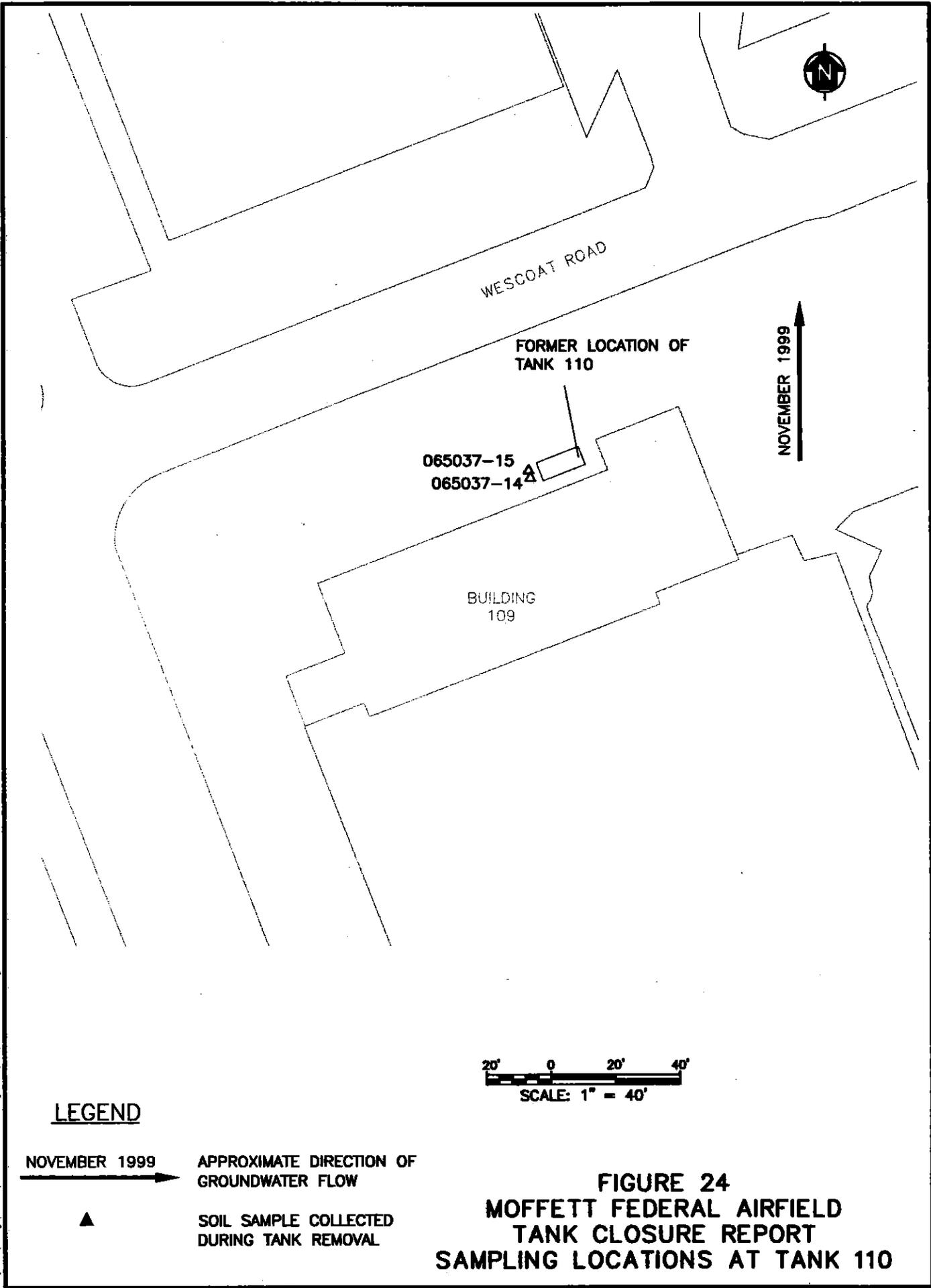
SOIL SAMPLE COLLECTED DURING TANK REMOVAL

**FIGURE 22**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 88**

R:\089\_226g\0401\ SAMP-T-88.dwg 05/30/2000 thomas DN



R:\089\226g\0401\ SAMP-T-110.dwg 05/30/2000 thomng DN



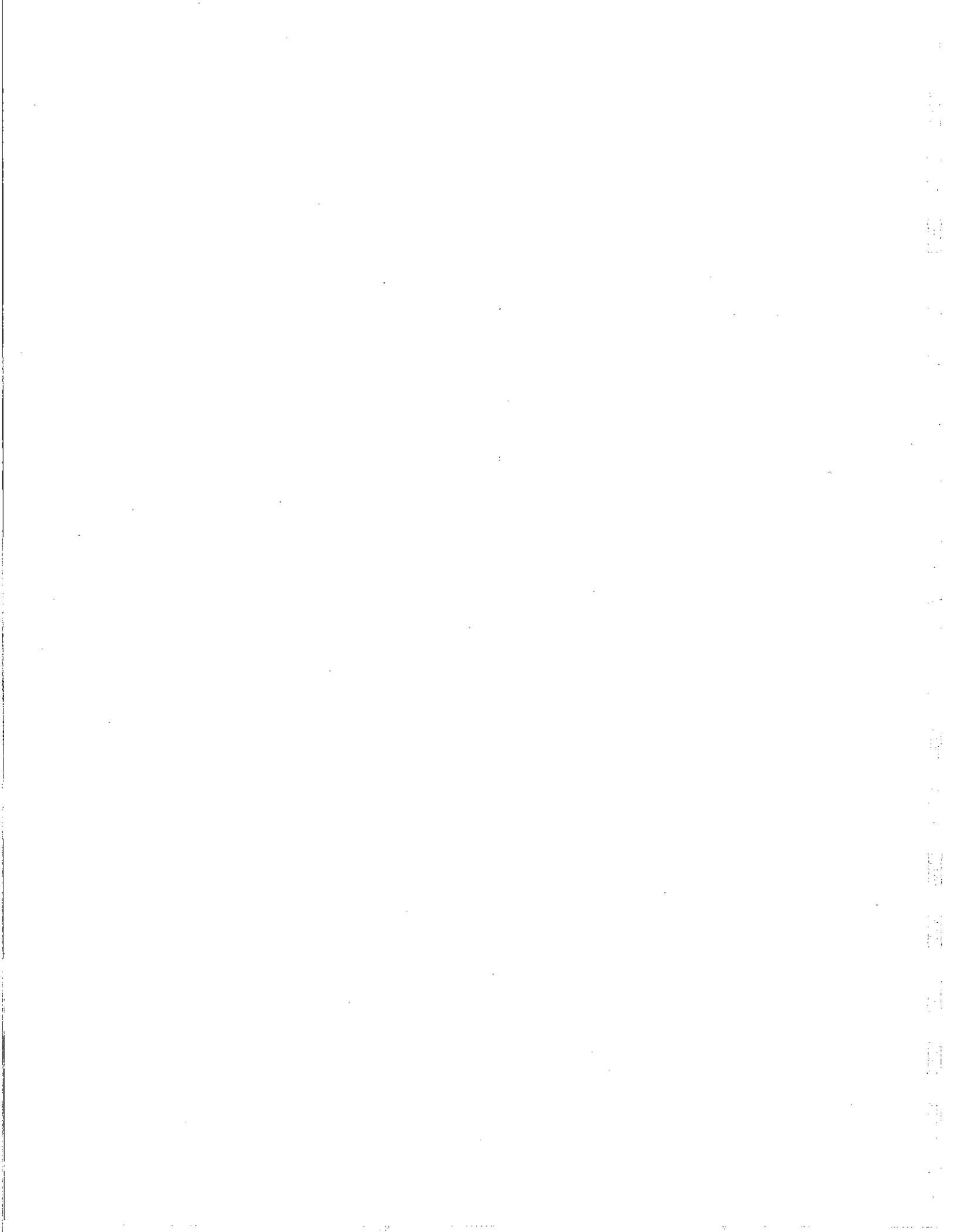
**LEGEND**

- 
 NOVEMBER 1999      APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 
 SOIL SAMPLE COLLECTED DURING TANK REMOVAL

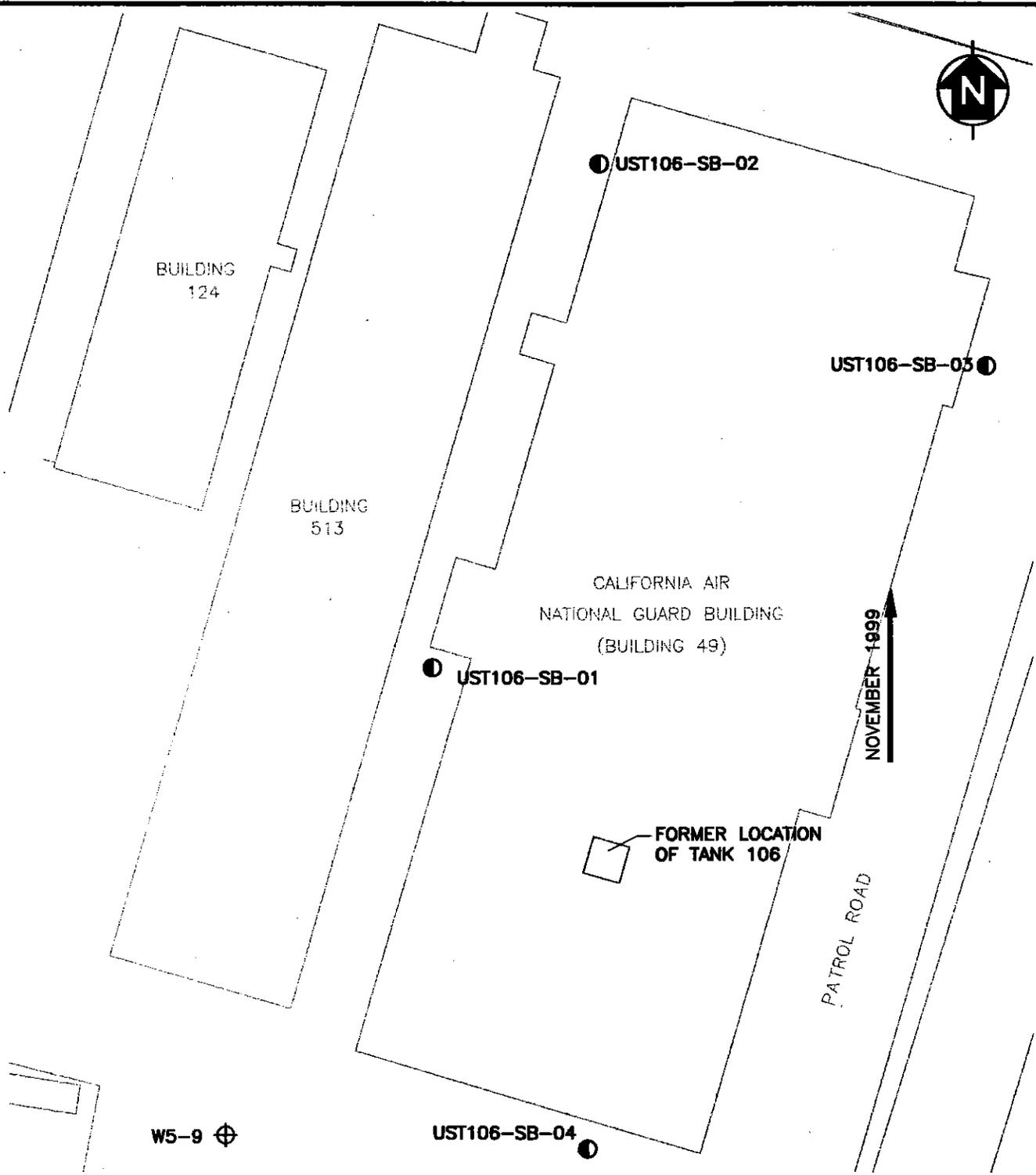
20'      0      20'      40'

SCALE: 1" = 40'

**FIGURE 24**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 110**



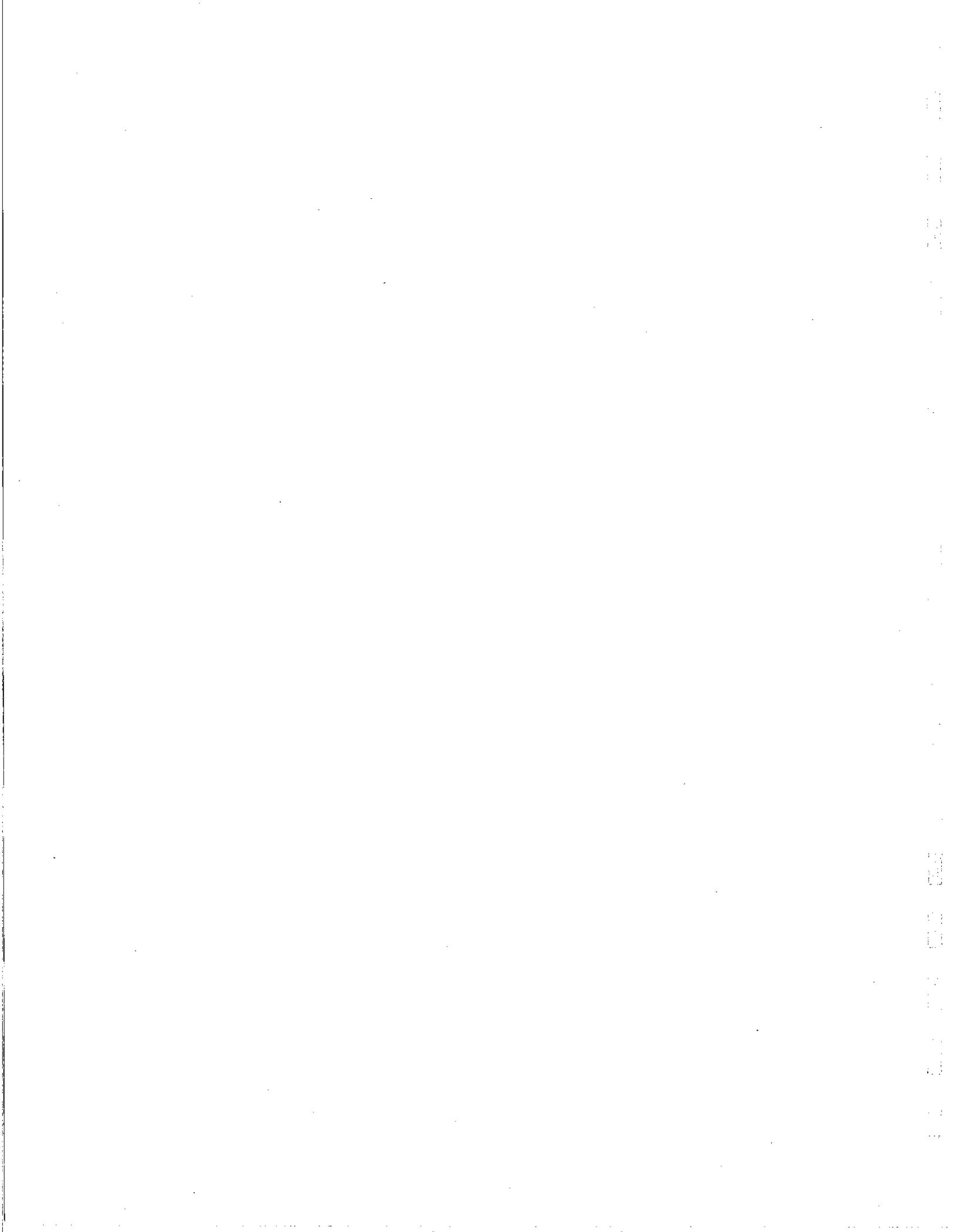
R:\089\2289\0401\ SAMP-T-106.dwg 05/31/2000 thomaz DN



**LEGEND**

- NOVEMBER 1999 APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- MONITORING WELL LOCATION
- GROUNDWATER SAMPLE LOCATION

**FIGURE 23**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 106**





NOVEMBER 1999

WESCOAT COURT

PARKING LOT

BUILDING 48

UST111-SB-03

AIR CONDITIONING UNITS

CONCRETE STEPS

UST111-SB-02

UST111-SB-01

CONCRETE

TANK 111  
(CLOSED IN PLACE)

UST111-SB-04

PARKING LOT

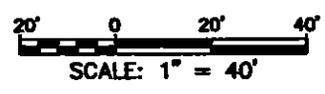
**LEGEND**

NOVEMBER 1999

APPROXIMATE DIRECTION OF  
GROUNDWATER FLOW



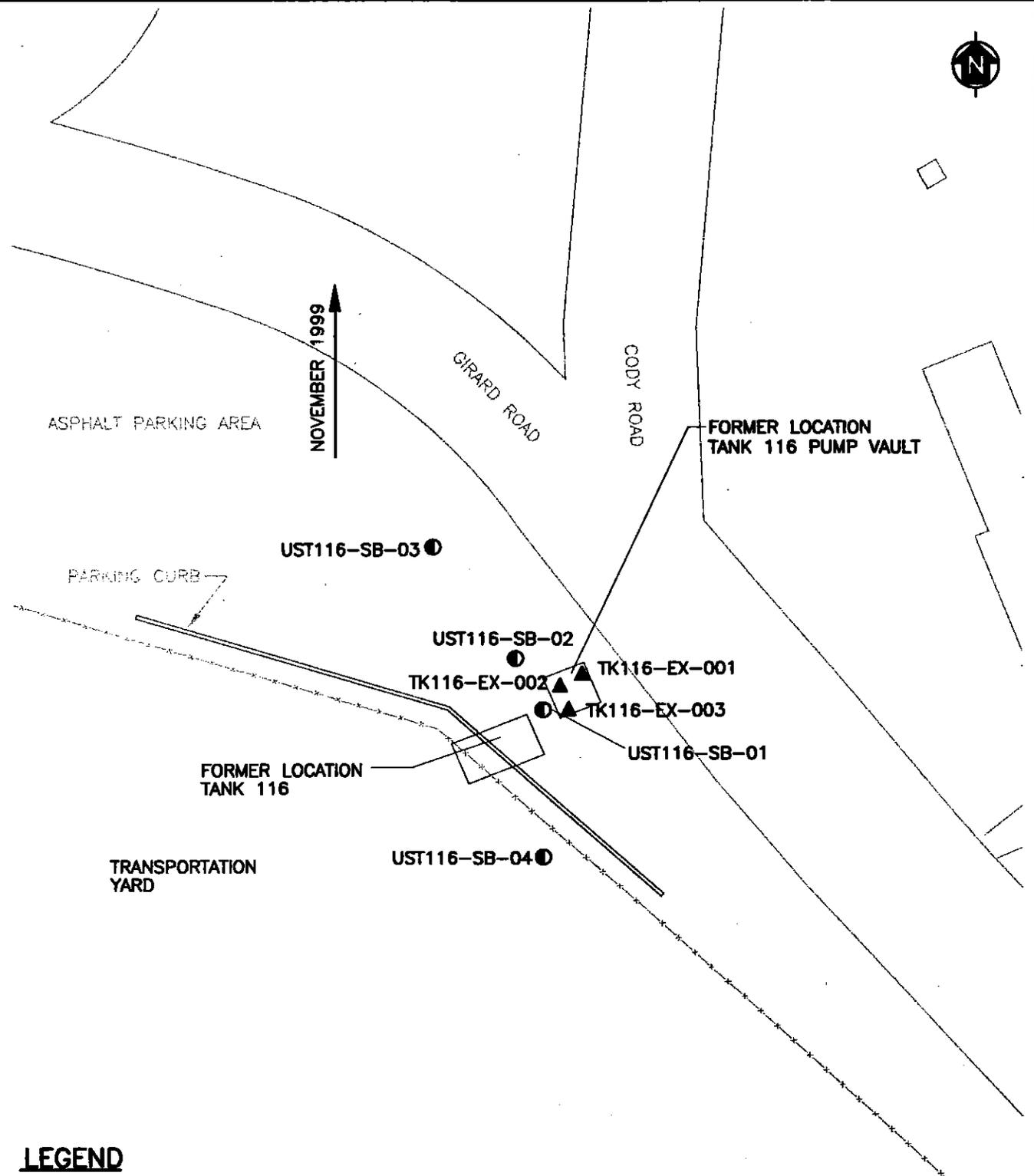
SOIL AND GROUNDWATER SAMPLE LOCATION



**FIGURE 25**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 111**

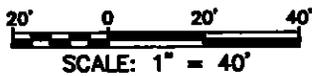
R:\069\226g\0401\ SAMP-T-111.dwg 05/31/2000 thomdng DN



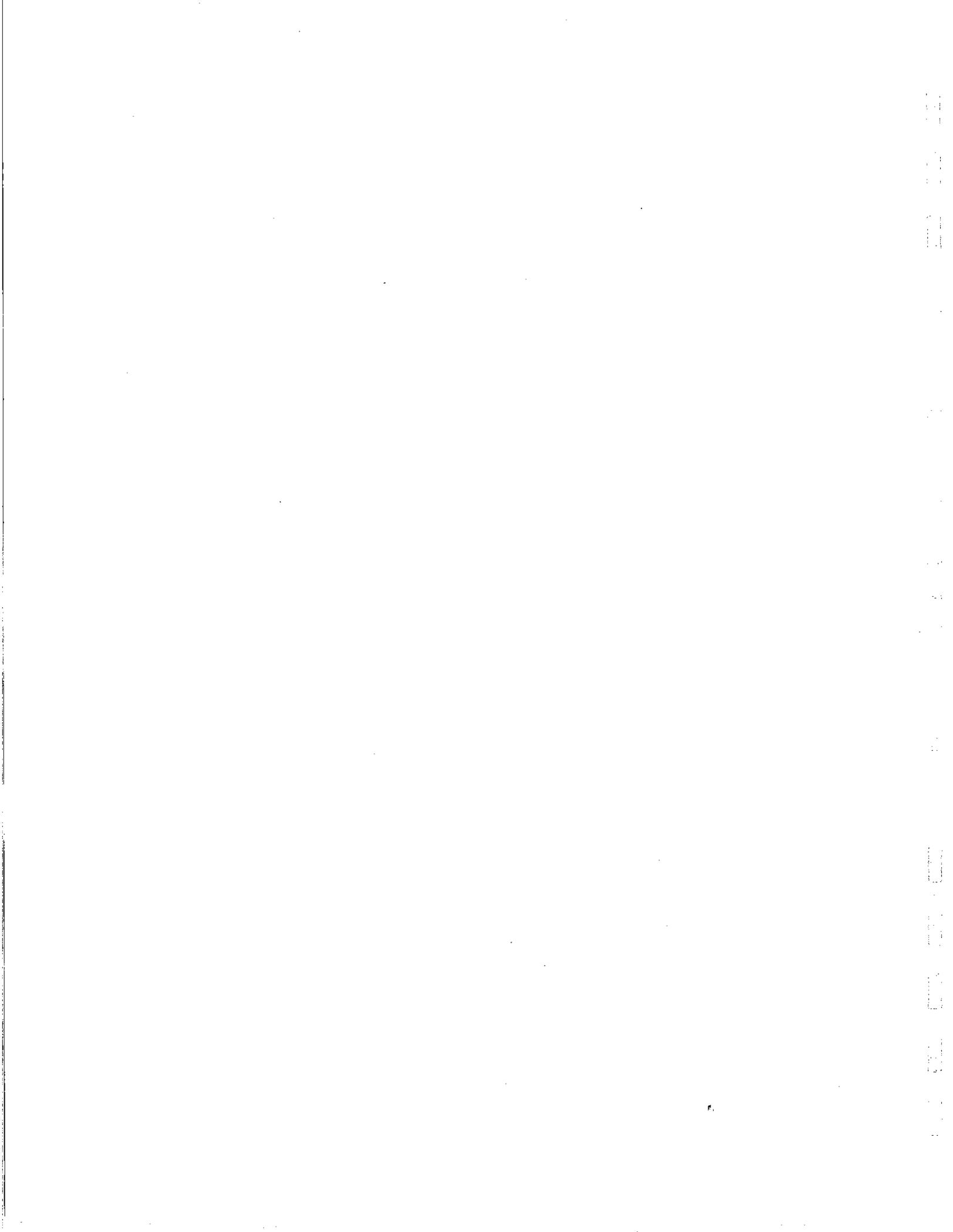


**LEGEND**

- 
 NOVEMBER 1999 APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 
 SOIL AND GROUNDWATER SAMPLE LOCATION
- 
 SOIL SAMPLE COLLECTED DURING TANK/PUMP VAULT REMOVAL



**FIGURE 26**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 116**



AIMD BUILDING 549



HP65-1

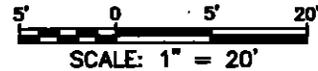
BATTERY LOCKER  
BUILDING 575

GP65-1

T

FORMER LOCATION  
OF TANK 130

GP65-2



**LEGEND**

NOVEMBER 1999

APPROXIMATE DIRECTION OF GROUNDWATER FLOW



GEOPROBE SOIL SAMPLE LOCATION



HYDROPUNCH GROUNDWATER SAMPLE LOCATION

AIMD

AIRCRAFT INTERMEDIATE  
MAINTENANCE DEPARTMENT



FORMER TANK LOCATION

**FIGURE 27**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**SAMPLING LOCATIONS AT TANK 130**

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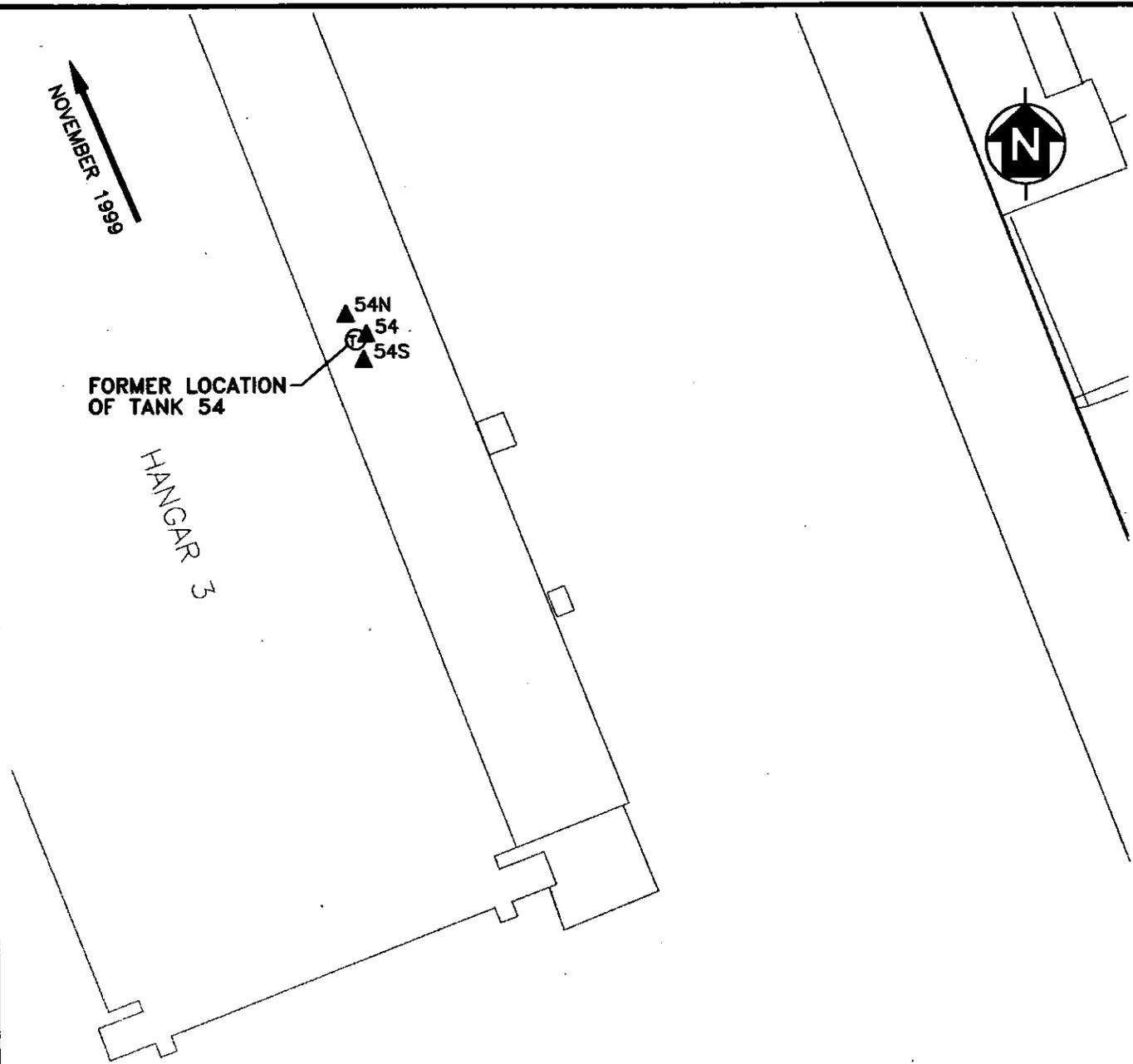


NOVEMBER 1999

FORMER LOCATION OF TANK 54

HANGAR 3

▲ 54N  
▲ 54  
▲ 54S



100' 0 100' 200'  
SCALE: 1" = 200'

**LEGEND**

NOVEMBER 1999

DIRECTION OF GROUNDWATER FLOW



SOIL SAMPLE COLLECTED DURING TANK REMOVAL



TANK LOCATION (APPROXIMATE)

**FIGURE 10  
MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SAMPLING LOCATIONS AT TANK 54**

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**TABLES**

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TABLE 1

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
DATA QUALITY OBJECTIVES

DETAILS	
DQO STEP	DESCRIPTION
STEP 1	State the Problem Petroleum sites at MFA contained petroleum products that may have been released to the environment. Releases may have resulted in petroleum contaminants in soil and groundwater; therefore, petroleum sites require evaluation to determine if a release occurred and, if so, if petroleum constituent concentrations exceed action levels.
STEP 2	Identify the Decisions <ul style="list-style-type: none"> <li>• <u>Petroleum Release</u>: Has a petroleum release occurred?</li> <li>• <u>Source Removal</u>: Do concentrations of petroleum constituents in soil or groundwater exceed action levels?</li> <li>• <u>MTBE</u>: Did the tank contain gasoline and is MTBE analysis needed? If so, are MTBE concentrations in groundwater above 13 µg/L?</li> </ul>
STEP 3	Identify the Inputs to the Decisions <ul style="list-style-type: none"> <li>• Historical site and tank information</li> <li>• Soil and groundwater data from previous investigations</li> <li>• Regulatory guidance</li> </ul>
STEP 4	Define Study Boundaries The study boundaries are defined as the area surrounding the tanks that may have been affected by a petroleum release. Lateral boundaries: Release area extending 120 feet downgradient. Vertical boundaries: Ground surface to the total depth of the A1-aquifer zone. Temporal boundaries: Samples collected after 1988.
STEP 5	Develop Decision Rules For the evaluation process, the following decision rules will be observed: <ol style="list-style-type: none"> <li>1. <u>Petroleum release</u>: If petroleum is observed in the excavation, soil or groundwater results indicate the presence of petroleum constituents, or holes or cracks were observed in the tank or tank piping, then it is assumed that a petroleum release has occurred and the next decision rule will be evaluated. If a petroleum release is not evidenced, one sample for MTBE will be evaluated.</li> <li>2. <u>Action levels</u>: If soil and groundwater results do not exceed the action levels, then the next decision rule will be evaluated. If soil and groundwater results exceed the action levels, then the petroleum site will be evaluated further in an appendix to the TM.</li> <li>3. <u>MTBE</u>: If MTBE analysis is necessary (see item 1) and if the concentration of MTBE exceeds 13 µg/L in a groundwater sample, then further evaluation be required. If the MTBE concentration is below 13 µg/L, then the site will be recommended for closure.</li> </ol>
STEP 6	Specify Limits on Decision Errors <ol style="list-style-type: none"> <li>1. Analytical uncertainties will be checked through established QA/QC procedures.</li> <li>2. The proposed sampling design is biased toward areas of known release. Because the sampling method is a non-probability-based design, statistical methods cannot be applied to reduce uncertainty.</li> </ol>
STEP 7	Optimize Sampling Design Samples were collected on a biased basis to identify the presence of petroleum releases using site-specific information.

Notes:

- MFA Moffett Federal Airfield
- MTBE Methyl tertiary butyl ether
- µg/L Micrograms per liter
- QA/QC Quality assurance and quality control
- TM Basewide Petroleum Site Evaluation Technical Memorandum prepared by Tetra Tech EM Inc. October 2, 1998

TABLE 2

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
LOW-RISK CRITERIA CHECKLIST

Tank Number	Step 1 Has the leak been stopped and have ongoing sources, including free product, been removed or remediated?	Step 2 Has the site has been adequately characterized?	Step 3 Does little or no groundwater impact exist and are contaminants found below action levels?	Step 4 Are water wells, deeper drinking water aquifers, surface water, or other sensitive receptors likely to be impacted?	Step 5 Does the site present significant risk to human health?	Step 6 Does the site present significant risk to the environment?
15	Yes	Yes	Yes	No	No <sup>1</sup>	No
16	Yes	Yes	Yes	No	No <sup>1</sup>	No
18	Yes	Yes	Yes	No	No <sup>1</sup>	No
22	Yes	Yes	Yes	No	No <sup>1</sup>	No
27	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed
28	Yes	Yes	Yes	No	No <sup>1</sup>	No
30	Yes	Yes	Yes	No	No <sup>1</sup>	No
31	Yes	Yes	Yes	No	No <sup>1</sup>	No
41B	Yes	Yes	Yes	No	No <sup>1</sup>	No
51	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed
54	Yes	Yes	Yes	No	No <sup>1</sup>	No
55	Yes	Yes	Yes	No	No <sup>1</sup>	No
57	Yes	Yes	Yes	No	No <sup>1</sup>	No
59	Yes	Yes	Yes	No	No <sup>1</sup>	No
62	Yes	Yes	Yes	No	No <sup>1</sup>	No
62A	Yes	Yes	Yes	No	No <sup>1</sup>	No
63	Yes	Yes	Yes	No	No <sup>1</sup>	No
64	Yes	Yes	Yes	No	No <sup>1</sup>	No
65	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed
66	Yes	Yes	Yes	No	No <sup>1</sup>	No
67	Yes	Yes	Yes	No	No <sup>1</sup>	No
68	Yes	Yes	Yes	No	No <sup>1</sup>	No

**TABLE 2**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
LOW-RISK CRITERIA CHECKLIST**

<b>Tank Number</b>	<b>Step 1 Has the leak been stopped and have ongoing sources, including free product, been removed or remediated?</b>	<b>Step 2 Has the site has been adequately characterized?</b>	<b>Step 3 Does little or no groundwater impact exist and are contaminants found below action levels?</b>	<b>Step 4 Are water wells, deeper drinking water aquifers, surface water, or other sensitive receptors likely to be impacted?</b>	<b>Step 5 Does the site present significant risk to human health?</b>	<b>Step 6 Does the site present significant risk to the environment?</b>
69	Yes	Yes	Yes	No	No <sup>1</sup>	No
77	Yes	Yes	Yes	No	No <sup>1</sup>	No
78	Yes	Yes	Yes	No	No <sup>1</sup>	No
86A	Yes	Yes	Yes	No	No <sup>1</sup>	No
86B	Yes	Yes	Yes	No	No <sup>1</sup>	No
88	Yes	Yes	Yes	No	No <sup>1</sup>	No
91	Yes	Yes	Yes	No	No <sup>1</sup>	No
106	Yes	Yes	Yes	No	No <sup>1</sup>	No
110	Yes	Yes	Yes	No	No <sup>1</sup>	No
111	Yes	Yes	Yes	No	No <sup>1</sup>	No
112	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed
116	Yes	Yes	Yes	No	No <sup>1</sup>	No
117	Yes	Yes	Yes	No	No <sup>1</sup>	No
123	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed	Tank never existed
130	Yes	Yes	Yes	No	No <sup>1</sup>	No

Notes:

<sup>1</sup> Soil and groundwater concentrations do not exceed set action items for petroleum site evaluations; therefore, a human health risk assessment was not performed.

TABLE 3

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 15  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 15 North	6	18-Dec-92	0.005 U
Tank 15 South	6	18-Dec-92	0.005 U
Tank 15 Pipe	6	18-Dec-92	0.005 U
TN15-S-001	6	07-Jul-93	0.005 U
TN15-S-002	6	07-Jul-93	0.005 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 15 North	6	18-Dec-92	4,400
Tank 15 South	6	18-Dec-92	1.3
Tank 15 Pipe	6	18-Dec-92	1.0 U
TN15-S-001	6	07-Jul-93	0.005 U
TN15-S-002	6	07-Jul-93	0.005 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 15 North	6	18-Dec-92	0.014
Tank 15 South	6	18-Dec-92	0.005 U
Tank 15 Pipe	6	18-Dec-92	0.005 U
TN15-S-001	6	07-Jul-93	0.005 U
TN15-S-002	6	07-Jul-93	0.005 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 15 North	6	18-Dec-92	0.0057
Tank 15 South	6	18-Dec-92	0.005 U
Tank 15 Pipe	6	18-Dec-92	0.005 U
TN15-S-001	6	07-Jul-93	0.005 U
TN15-S-002	6	07-Jul-93	0.005 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 15 North	6	18-Dec-92	0.15
Tank 15 South	6	18-Dec-92	0.005 U
Tank 15 Pipe	6	18-Dec-92	0.005 U
TN15-S-001	6	07-Jul-93	0.005 U
TN15-S-002	6	07-Jul-93	0.005 U

## Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- 1 - Feet below ground surface (exact depth unknown)

TABLE 4

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 18  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
18A - 065037-12	Unknown	05-Apr-94	0.1 U
18B - 065037-13	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
18A - 065037-12	Unknown	12-Apr-94	1 U
18B - 065037-13	Unknown	12-Apr-94	5
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
18A - 065037-12	Unknown	05-Apr-94	0.1 U
18B - 065037-13	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
18A - 065037-12	Unknown	05-Apr-94	0.1 U
18B - 065037-13	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
18A - 065037-12	Unknown	05-Apr-94	0.1 U
18B - 065037-13	Unknown	05-Apr-94	0.1 U

Notes:

U - Analyzed for but not detected (reported value is detection limit)

**TABLE 5**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**TANK 18**  
**GROUNDWATER DATA**  
(Concentrations in micrograms per liter)

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	10.0 U
W05-09 - MOF0259	04-NOV-88	10.0 U
W05-09 - MOF0371	13-DEC-88	10.0 U
W05-09 - MOF0428	11-JAN-89	10.0 U
W05-09 - MOF0597	13-APR-89	10.0 U
W05-09 - MOF0775	18-JUL-89	10.0 U
<b>Chemical Name: BENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	5.0 U
W05-09 - MOF0259	04-NOV-88	5.0 U
W05-09 - MOF0371	13-DEC-88	5.0 U
W05-09 - MOF0428	11-JAN-89	5.0 U
W05-09 - MOF0597	13-APR-89	5.0 U
W05-09 - MOF0775	18-JUL-89	5.0 U
W05-09 - MOF1498	24-APR-91	5.0 U
W05-09 - MOF1856	21-OCT-91	10.0 UJ
W05-09 - MOF2015	15-JAN-92	10.0 U
W05-09 - MOF2115	13-APR-92	10.0 U
W05-09 - MOF2123 (Dup)	14-APR-92	10.0 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	10.0 U
W05-09 - MOF0259	04-NOV-88	10.0 U
W05-09 - MOF0371	13-DEC-88	10.0 U
W05-09 - MOF0428	11-JAN-89	10.0 U
W05-09 - MOF0597	13-APR-89	10.0 U
W05-09 - MOF0775	18-JUL-89	10.0 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	5.0 U
W05-09 - MOF0259	04-NOV-88	5.0 U
W05-09 - MOF0371	13-DEC-88	5.0 U
W05-09 - MOF0428	11-JAN-89	5.0 U
W05-09 - MOF0597	13-APR-89	5.0 U
W05-09 - MOF0775	18-JUL-89	5.0 U
W05-09 - MOF1498	24-APR-91	5.0 U
W05-09 - MOF1856	21-OCT-91	10.0 UJ
W05-09 - MOF2015	15-JAN-92	10.0 U
W05-09 - MOF2115	13-APR-92	10.0 U
W05-09 - MOF2123 (Dup)	14-APR-92	10.0 U

**TABLE 5 (Continued)**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**TANK 18**  
**GROUNDWATER DATA**  
(Concentrations in micrograms per liter)

<b>Chemical Name: JP-5</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	0.25 U
W05-09 - MOF0259	04-NOV-88	0.25 U
W05-09 - MOF0371	13-DEC-88	0.25 U
W05-09 - MOF0428	11-JAN-89	0.25 U
W05-09 - MOF0597	13-APR-89	0.25 U
W05-09 - MOF0775	18-JUL-89	0.25 U
W05-09 - MOF1498	24-APR-91	50.0 U
W05-09 - MOF1856	21-OCT-91	250.0 UJ
W05-09 - MOF2015	15-JAN-92	250.0 U
W05-09 - MOF2115	13-APR-92	250.0 U
W05-09 - MOF2123 (Dup)	14-APR-92	250.0 U

<b>Chemical Name: NAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	10.0 U
W05-09 - MOF0259	04-NOV-88	10.0 U
W05-09 - MOF0371	13-DEC-88	10.0 U
W05-09 - MOF0428	11-JAN-89	10.0 U
W05-09 - MOF0597	13-APR-89	10.0 U
W05-09 - MOF0775	18-JUL-89	10.0 U

<b>Chemical Name: TOLUENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	5.0 U
W05-09 - MOF0259	04-NOV-88	5.0 U
W05-09 - MOF0371	13-DEC-88	5.0 U
W05-09 - MOF0428	11-JAN-89	5.0 U
W05-09 - MOF0597	13-APR-89	5.0 U
W05-09 - MOF0775	18-JUL-89	5.0 U
W05-09 - MOF1498	24-APR-91	5.0 U
W05-09 - MOF1856	21-OCT-91	10.0 UJ
W05-09 - MOF2015	15-JAN-92	10.0 U
W05-09 - MOF2115	13-APR-92	10.0 U
W05-09 - MOF2123 (Dup)	14-APR-92	10.0 U

<b>Chemical Name: XYLENES (TOTAL)</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W05-09 - MOF0167	17-OCT-88	5.0 U
W05-09 - MOF0259	04-NOV-88	5.0 U
W05-09 - MOF0371	13-DEC-88	5.0 U
W05-09 - MOF0428	11-JAN-89	5.0 U
W05-09 - MOF0597	13-APR-89	5.0 U
W05-09 - MOF0775	18-JUL-89	5.0 U
W05-09 - MOF1498	24-APR-91	5.0 U
W05-09 - MOF1856	21-OCT-91	10.0 UJ

**TABLE 5 (Continued)**  
**MOFFETT FEDERAL AIRFIELD**  
**TANK CLOSURE REPORT**  
**TANK 18**  
**GROUNDWATER DATA**  
**(Concentrations in micrograms per liter)**

<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
W05-09 - MOF2015	15-JAN-92	10.0	U
W05-09 - MOF2115	13-APR-92	10.0	U
W05-09 - MOF2123 (Dup)	14-APR-92	10.0	U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit).
- Dup - Duplicate sample

TABLE 6

**MOFFETT FEDERAL AIRFIELD  
PETROLEUM SITE EVALUATION**

**TANK 22  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 22E	6	18-Dec-92	0.005 U
Tank 22W	6	18-Dec-92	0.005 U
TN22-SL-S-001	2	07-Jul-93	0.005 U
TN22-SL-N-001	2	07-Jul-93	0.005 U
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	0.006 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	0.006 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	0.006 UJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	0.006 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	0.00061 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 22E	6	18-Dec-92	2.4
Tank 22W	6	18-Dec-92	130
TN22-SL-S-001	2	07-Jul-93	1 U
TN22-SL-N-001	2	07-Jul-93	1.1
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	12 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 22E	6	18-Dec-92	0.005 U
Tank 22W	6	18-Dec-92	0.005 U
TN22-SL-S-001	6	07-Jul-93	0.005 U
TN22-SL-N-001	6	07-Jul-93	0.005 U
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	0.006 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	0.006 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	0.006 UJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	0.006 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	0.00061 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	1.2 UJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	0.61 U

TABLE 6 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 22  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	12 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	12 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	12 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	12 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	12 U
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	12 U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	12 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	38 YJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	1.2 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	1.2 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	1.2 UJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	1.2 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 22E	6	18-Dec-92	0.005 U
Tank 22W	6	18-Dec-92	0.005 U
TN22-SL-S-001	2	07-Jul-93	0.005 U
TN22-SL-N-001	2	07-Jul-93	0.005 U
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	0.006 U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	0.006 U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	0.006 UJ-S

TABLE 6 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 22  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name: TOLUENE (Continued)				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	0.006	U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	0.00061	U
Chemical Name: XYLENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
Tank 22E	6	18-Dec-92	0.005	U
Tank 22W	6	18-Dec-92	0.005	U
TN22-SL-S-001	2	07-Jul-93	0.005	U
TN22-SL-N-001	2	07-Jul-93	0.005	U
GPT22-1 - GPT22-1(5.1)	5.1	29-Jun-95	0.006	U
GPT22-1 - GPT22-1(6.7)	6.7	29-Jun-95	0.006	U
GPT22-2 - GPT22-2(5.4)	5.4	29-Jun-95	0.006	UJ-S
GPT22-2 - GPT22-2(7.0)	7	29-Jun-95	0.006	U
SBT22-1 - SBT22-1(8.0)	8	8-Aug-95	0.00061	U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- S - Value is estimated because the surrogate recovery was out of quality control limits.
- U - Analyzed for but not detected (reported value is detection limit)
- 1 - Feet below ground surface (exact depth unknown)

TABLE 7

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 22  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name:</b> BENZENE			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	0.5	U
WT22-1 - GWT22-1	6-Jul-95	0.5	U
WT22-1 - WT22-1	11-Aug-95	0.5	U
WT22-1 - WT22-1	23-Feb-96	0.5	U
WT22-1 - WT22-1	21-Aug-96	0.5	U
WT22-1 - WT22-1	20-Nov-96	0.5	U
WT22-1 - WT22-1	20-Nov-96	50	U
WT22-1 - WT22-1	31-Aug-99	1	U
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	0.5	U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	0.5	U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	0.5	U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	50	U
<b>Chemical Name:</b> DIESEL-RANGE ORGANIC COMPOUNDS			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	50	U
WT22-1 - WT22-1	11-Aug-95	280	
WT22-1 - WT22-1	23-Feb-96	130	Z
WT22-1 - WT22-1	21-Aug-96	270	Y
WT22-1 - WT22-1	20-Nov-96	260	YZ
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	130	Z
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	300	Y
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	260	YZ
<b>Chemical Name:</b> ETHYLBENZENE			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	0.5	U
WT22-1 - GWT22-1	6-Jul-95	0.5	U
WT22-1 - WT22-1	11-Aug-95	0.5	U
WT22-1 - WT22-1	23-Feb-96	0.5	U
WT22-1 - WT22-1	21-Aug-96	0.5	U
WT22-1 - WT22-1	21-Aug-96	2	U
WT22-1 - WT22-1	20-Nov-96	0.5	U
WT22-1 - WT22-1	20-Nov-96	50	U
WT22-1 - WT22-1	31-Aug-99	1	U
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	0.5	U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	0.5	U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	2	U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	0.5	U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	50	U
<b>Chemical Name:</b> GASOLINE-RANGE ORGANIC COMPOUNDS			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	50	U
WT22-1 - GWT22-1	6-Jul-95	50	U
WT22-1 - WT22-1	11-Aug-95	50	U

TABLE 7 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 22**

**GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT22-1 - WT22-1	23-Feb-96	37 JZ
WT22-1 - WT22-1	21-Aug-96	50 U
WT22-1 - WT22-1	20-Nov-96	50 U
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	50 U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	50 U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	50 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-2 - GWT22-2	6-Jul-95	50 U
WT22-1 - WT22-1	11-Aug-95	100 U
WT22-1 - WT22-1	23-Feb-96	100 U
WT22-1 - WT22-1	21-Aug-96	100 U
WT22-1 - WT22-1	20-Nov-96	100 U
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	100 U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	100 U
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	100 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-2 - GWT22-2	6-Jul-95	50 U
WT22-1 - WT22-1	11-Aug-95	100 U
WT22-1 - WT22-1	23-Feb-96	100 U
WT22-1 - WT22-1	21-Aug-96	100 U
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	100 U
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	100 U
<b>Chemical Name: METHYL TERTIARY BUTYL ETHER</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT22-1 - WT22-1	31-Aug-99	10 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-2 - GWT22-2	6-Jul-95	500 U
WT22-1 - WT22-1	11-Aug-95	120
WT22-1 - WT22-1	23-Feb-96	300 Z
WT22-1 - WT22-1	21-Aug-96	180 Y
WT22-1 - WT22-1	20-Nov-96	160 ZY
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	370 Z
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	200 Y
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	160 YZ
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-2 - GWT22-2	6-Jul-95	450 Y
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT22-2 - GWT22-2	6-Jul-95	50 U

**TABLE 7 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 22  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name:</b>	<b>OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT22-1 - GWT22-1	6-Jul-95	50 U	
<b>Chemical Name:</b>	<b>OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
<b>Chemical Name:</b>	<b>TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	0.5 U	
WT22-1 - GWT22-1	6-Jul-95	0.5 U	
WT22-1 - WT22-1	11-Aug-95	0.5 U	
WT22-1 - WT22-1	23-Feb-96	0.5 U	
WT22-1 - WT22-1	21-Aug-96	0.5 U	
WT22-1 - WT22-1	21-Aug-96	2 U	
WT22-1 - WT22-1	20-Nov-96	0.2 J	
WT22-1 - WT22-1	20-Nov-96	0.32 J	
WT22-1 - WT22-1	31-Aug-99	1 U	
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	0.5 U	
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	0.5 U	
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	2 U	
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	0.29 J	
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	0.5 U	
<b>Chemical Name:</b>	<b>XYLENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT22-2 - GWT22-2	6-Jul-95	0.5 U	
WT22-1 - GWT22-1	6-Jul-95	0.5 U	
WT22-1 - WT22-1	11-Aug-95	0.5 U	
WT22-1 - WT22-1	23-Feb-96	0.5 U	
WT22-1 - WT22-1	21-Aug-96	1 U	
WT22-1 - WT22-1	21-Aug-96	2 U	
WT22-1 - WT22-1	20-Nov-96	0.5 U	
WT22-1 - WT22-1	20-Nov-96	1.5 U	
WT22-1 - WT22-1	31-Aug-99	1 U	
WT22-1 - WT22-99-02 (Dup)	23-Feb-96	0.5 U	
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	1 U	
WT22-1 - WT22-99-02 (Dup)	21-Aug-96	2 U	
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	0.5 U	
WT22-1 - WT22-99-03 (Dup)	20-Nov-96	1.5 U	

Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- Y - Pattern does not match calibration fuel pattern, but resembles a fuel pattern.
- Z - Unknown single peak or patterns were detected, but did not resemble a typical fuel pattern.

TABLE 8

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 28  
SOIL DATA

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	0.005 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	10 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	0.005 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	16
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	0.005 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-05-T28	4	06-Jun-91	0.005 U

Notes:

1 - Feet below ground surface (exact depth unknown)

TABLE 9

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 41B  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 41B (W)	4	07-Jan-93	0.005 U
Tank 41B (E)	4	07-Jan-93	0.012
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 41B (W)	4	07-Jan-93	0.005 U
Tank 41B (E)	4	07-Jan-93	0.061
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 41B (W)	4	07-Jan-93	1 U
Tank 41B (E)	4	07-Jan-93	4.6
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 41B (W)	4	07-Jan-93	0.005 U
Tank 41B (E)	4	07-Jan-93	0.085
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 41B (W)	4	07-Jan-93	0.005 U
Tank 41B (E)	4	07-Jan-93	0.041

## Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- 1 - Feet below ground surface (exact depth unknown)

**TABLE 10**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 54  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	ND <sup>1</sup>
54S	Unknown	Dec-92	ND <sup>1</sup>
54	Unknown	Dec-92	ND <sup>1</sup>
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	1 U
54S	Unknown	Dec-92	1 U
54	Unknown	Dec-92	1 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	ND <sup>1</sup>
54S	Unknown	Dec-92	ND <sup>1</sup>
54	Unknown	Dec-92	ND <sup>1</sup>
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	1 U
54S	Unknown	Dec-92	1 U
54	Unknown	Dec-92	1 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	ND <sup>1</sup>
54S	Unknown	Dec-92	ND <sup>1</sup>
54	Unknown	Dec-92	ND <sup>1</sup>
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
54N	Unknown	Dec-92	ND <sup>1</sup>
54S	Unknown	Dec-92	ND <sup>1</sup>
54	Unknown	Dec-92	ND <sup>1</sup>

Notes:

- ND<sup>1</sup> - Detection limits unknown
- U - Analyzed for but not detected (reported value is detection limit)
- X - Indicates data that was manually entered.

TABLE 11

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 55  
SOIL DATA  
(Concentrations in milligrams per kilogram)**

<b>Chemical Name: BENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	0.00056 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	49.0
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	0.00056 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	0.56 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	28.0 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	28.0 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	440.0
<b>Chemical Name: TOLUENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	0.00056 U
<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
SBT55-1 - SBT55-1(7.0)	7	08-AUG-95	0.00056 U

## Notes:

- U - Analyzed for but not detected (reported value is detection limit).
- Dup - Duplicate sample
- 1 - Feet below ground surface

TABLE 12

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 55  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT55-1 - WT55-1	20-FEB-97	10.0 U
WT55-1 - WT55-1	21-MAY-97	10.0 UJ
<b>Chemical Name: BENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	0.50 U
GWT55-2 - GWT55-2	06-JUL-95	0.50 U
WT55-1 - WT55-1	11-AUG-95	0.50 U
WT55-1 - WT55-1	20-NOV-96	0.50 U
WT55-1 - WT55-1	20-NOV-96	50.0 U
WT55-1 - WT55-1	20-FEB-97	0.50 U
WT55-1 - WT55-1	21-MAY-97	6.0
WT55-1 - WT55-1	27-AUG-99	1.0 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT55-1 - WT55-1	20-FEB-97	10.0 U
WT55-1 - WT55-1	21-MAY-97	10.0 UJ
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
WT55-1 - WT55-1	11-AUG-95	62.0 J
WT55-1 - WT55-1	20-NOV-96	420.0 ZY
WT55-1 - WT55-1	21-MAY-97	100.0 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	0.50 U
GWT55-2 - GWT55-2	06-JUL-95	0.50 U
WT55-1 - WT55-1	11-AUG-95	0.50 U
WT55-1 - WT55-1	20-NOV-96	0.50 U
WT55-1 - WT55-1	20-NOV-96	50.0 U
WT55-1 - WT55-1	20-FEB-97	0.50 U
WT55-1 - WT55-1	21-MAY-97	0.60 J
WT55-1 - WT55-1	27-AUG-99	1.0 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
WT55-1 - WT55-1	11-AUG-95	43.0 J
WT55-1 - WT55-1	20-NOV-96	50.0 U
WT55-1 - WT55-1	20-FEB-97	50.0 U
WT55-1 - WT55-1	21-MAY-97	50.0 U

TABLE 12 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 55  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
WT55-1 - WT55-1	11-AUG-95	100.0 U
WT55-1 - WT55-1	20-NOV-96	100.0 U
WT55-1 - WT55-1	21-MAY-97	500.0 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
WT55-1 - WT55-1	11-AUG-95	100.0 U
<b>Chemical Name: METHYL-TERTIARY-BUTYL ETHER</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT55-1 - WT55-1	21-MAY-97	1.0 U
WT55-1 - WT55-1	27-AUG-99	10.0 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	500.0 U
GWT55-2 - GWT55-2	06-JUL-95	1,600.0
WT55-1 - WT55-1	11-AUG-95	63.0 J
WT55-1 - WT55-1	20-NOV-96	220.0 ZY
WT55-1 - WT55-1	21-MAY-97	500.0 U
<b>Chemical Name: NAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT55-1 - WT55-1	20-FEB-97	10.0 U
WT55-1 - WT55-1	21-MAY-97	10.0 UJ
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	50.0 U
GWT55-2 - GWT55-2	06-JUL-95	50.0 U
<b>Chemical Name: TOLUENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	0.50 U
GWT55-2 - GWT55-2	06-JUL-95	0.50 U
WT55-1 - WT55-1	11-AUG-95	0.50 U

TABLE 12 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 55  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

Chemical Name: TOLUENE		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT55-1 - WT55-1	20-NOV-96	0.50 U
WT55-1 - WT55-1	20-NOV-96	50.0 U
WT55-1 - WT55-1	20-FEB-97	0.50 U
WT55-1 - WT55-1	21-MAY-97	1.0 U
WT55-1 - WT55-1	27-AUG-99	1.0 U
Chemical Name: XYLENES (TOTAL)		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GWT55-1 - GWT55-1	06-JUL-95	0.50 U
GWT55-2 - GWT55-2	06-JUL-95	0.50 U
WT55-1 - WT55-1	11-AUG-95	1.10
WT55-1 - WT55-1	20-NOV-96	0.50 U
WT55-1 - WT55-1	20-NOV-96	1.50 U
WT55-1 - WT55-1	20-FEB-97	0.50 U
WT55-1 - WT55-1	20-FEB-97	1.50 U
WT55-1 - WT55-1	21-MAY-97	0.60 J
WT55-1 - WT55-1	27-AUG-99	1.0 U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit).
- Y - Pattern does not match calibration fuel pattern, but resembles a fuel pattern.
- Z - Unknown single peaks or patterns were detected, but did not resemble a typical fuel pattern.
- Dup - Duplicate sample

TABLE 13

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.007 U
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.014 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.006 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.012 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.007 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.013 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.013 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.013 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.007 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.014 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	0.00062 U
S-6-T57N	UNKNOWN	5-Jul-91	0.005 U
S-6-T57S	UNKNOWN	5-Jul-91	0.005 U
S-10-T57	UNKNOWN	6-Sep-91	0.005 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	12 U
S-6-T57N	UNKNOWN	5-Jul-91	100 D
S-6-T57S	UNKNOWN	5-Jul-91	100 D
S-10-T57	UNKNOWN	6-Sep-91	250 D
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.007 U
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.014 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.006 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.012 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.007 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.013 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.013 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.013 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.007 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.014 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	0.00062 U
S-6-T57N	UNKNOWN	5-Jul-91	0.16

**TABLE 13 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
SOIL DATA**

(Concentration in milligrams per kilogram)

<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
S-6-T57S	UNKNOWN	5-Jul-91	0.005 U
S-10-T57	UNKNOWN	6-Sep-91	0.005 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	0.62 U
S-6-T57N	UNKNOWN	5-Jul-91	25
S-6-T57S	UNKNOWN	5-Jul-91	5 D
S-10-T57	UNKNOWN	6-Sep-91	2
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	12 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	12 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	14 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	12 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	13 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	75
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	83
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	16
S-6-T57N	UNKNOWN	5-Jul-91	2400
S-6-T57S	UNKNOWN	5-Jul-91	2000
S-10-T57	UNKNOWN	6-Sep-91	300
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U

TABLE 13 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	1.4 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	1.2 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	1.3 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	1.3 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	1.3 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	1.4 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.007 U
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.014 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.006 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.012 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.007 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.013 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.013 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.013 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.007 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.014 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	0.0006 U
S-6-T57N	UNKNOWN	5-Jul-91	0.062
S-6-T57S	UNKNOWN	5-Jul-91	0.005 U
S-10-T57	UNKNOWN	6-Sep-91	0.005 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.007 U
GPT57-1 - GPT57-1(6.0)	6	5-Jul-95	0.014 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.006 U
GPT57-1 - GPT57-1(8.5)	7.5	5-Jul-95	0.012 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.007 U
GPT57-2 - GPT57-2(4.5)	4.5	6-Jul-95	0.013 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(5.0)	5	5-Jul-95	0.013 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.006 U
GPT57-3 - GPT57-3(7.5)	7.5	5-Jul-95	0.013 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.007 U
GPT57-4 - GPT57-4(4.5)	4.5	6-Jul-95	0.014 U
SBT57-1 - SBT57-1(5.5)	5.5	8-Aug-95	0.0006 U

TABLE 13 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name: XYLENE			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
S-6-T57N	UNKNOWN	5-Jul-91	1
S-6-T57S	UNKNOWN	5-Jul-91	0.05 D
S-10-T57	UNKNOWN	6-Sep-91	0.005 U

Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- D - Compounds identified in an analysis at secondary dilution factor.
- 1 - Feet below ground surface

TABLE 14

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	22-FEB-96	10.0 U
<b>Chemical Name: BENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	0.50 U
GPT57-1 - GWT57-1	05-JUL-95	2.0 U
GPT57-2 - GWT57-2	06-JUL-95	0.05 J
GPT57-2 - GWT57-2	06-JUL-95	0.50 U
GPT57-3 - GWT57-3	05-JUL-95	0.50 U
GPT57-3 - GWT57-3	05-JUL-95	2.0 U
GPT57-4 - GWT57-4	06-JUL-95	0.50 U
GPT57-4 - GWT57-4	06-JUL-95	2.0 U
WT57-1 - WT57-1	22-FEB-96	0.50 U
WT57-1 - WT57-1	19-NOV-96	0.50 U
WT57-1 - WT57-1	20-FEB-97	0.50 U
WT57-1 - WT57-1	21-MAY-97	2.0
WT57-1 - WT57-1	27-AUG-99	1.0 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	22-FEB-96	10.0 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	50.0 U
WT57-1 - WT57-1	22-FEB-96	88.0 J
WT57-1 - WT57-1	20-FEB-97	100.0 U
WT57-1 - WT57-1	21-MAY-97	100.0 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	0.50 U
GPT57-1 - GWT57-1	05-JUL-95	2.0 U
GPT57-2 - GWT57-2	06-JUL-95	0.50 U
GPT57-2 - GWT57-2	06-JUL-95	2.0 U
GPT57-3 - GWT57-3	05-JUL-95	0.50 U
GPT57-3 - GWT57-3	05-JUL-95	2.0 U
GPT57-4 - GWT57-4	06-JUL-95	0.50 U
GPT57-4 - GWT57-4	06-JUL-95	2.0 U
WT57-1 - WT57-1	22-FEB-96	0.50 U
WT57-1 - WT57-1	19-NOV-96	0.50 U
WT57-1 - WT57-1	20-FEB-97	0.50 U
WT57-1 - WT57-1	21-MAY-97	0.40 J

TABLE 14 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	27-AUG-99	1.0 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	50.0 U
WT57-1 - WT57-1	22-FEB-96	38.0 J
WT57-1 - WT57-1	19-NOV-96	50.0 U
WT57-1 - WT57-1	20-FEB-97	50.0 U
WT57-1 - WT57-1	21-MAY-97	50.0 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	50.0 U
WT57-1 - WT57-1	22-FEB-96	100.0 U
WT57-1 - WT57-1	20-FEB-97	100.0 U
WT57-1 - WT57-1	21-MAY-97	500.0 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	50.0 U
WT57-1 - WT57-1	22-FEB-96	100.0 U
<b>Chemical Name: METHYL-TERTIARY-BUTYL ETHER</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	21-MAY-97	1.0 U
WT57-1 - WT57-1	27-AUG-99	10.0 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	500.0 U
GPT57-2 - GWT57-2	06-JUL-95	500.0 U
GPT57-3 - GWT57-3	05-JUL-95	500.0 U
GPT57-4 - GWT57-4	06-JUL-95	1,900.0
WT57-1 - WT57-1	22-FEB-96	280.0 Z
WT57-1 - WT57-1	20-FEB-97	73.0 J
WT57-1 - WT57-1	21-MAY-97	500.0 U

TABLE 14 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

<b>Chemical Name: NAPHTHALENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	22-FEB-96	10.0 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	350.0 Y
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	50.0 U
GPT57-2 - GWT57-2	06-JUL-95	50.0 U
GPT57-3 - GWT57-3	05-JUL-95	50.0 U
GPT57-4 - GWT57-4	06-JUL-95	50.0 U
<b>Chemical Name: TOLUENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	0.50 U
GPT57-1 - GWT57-1	05-JUL-95	2.0 U
GPT57-2 - GWT57-2	06-JUL-95	0.50 U
GPT57-2 - GWT57-2	06-JUL-95	2.0 U
GPT57-3 - GWT57-3	05-JUL-95	0.50 U
GPT57-3 - GWT57-3	05-JUL-95	2.0 U
GPT57-4 - GWT57-4	06-JUL-95	0.50 U
GPT57-4 - GWT57-4	06-JUL-95	2.0 U
WT57-1 - WT57-1	22-FEB-96	0.50 U
WT57-1 - WT57-1	22-FEB-96	0.92
WT57-1 - WT57-1	19-NOV-96	0.20 J
WT57-1 - WT57-1	20-FEB-97	0.50 U
WT57-1 - WT57-1	21-MAY-97	1.0 U
WT57-1 - WT57-1	27-AUG-99	1.0 U
<b>Chemical Name: XYLENES (TOTAL)</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT57-1 - GWT57-1	05-JUL-95	0.50 U
GPT57-1 - GWT57-1	05-JUL-95	2.0 U
GPT57-2 - GWT57-2	06-JUL-95	0.50 U
GPT57-2 - GWT57-2	06-JUL-95	2.0 U
GPT57-3 - GWT57-3	05-JUL-95	0.50 U
GPT57-3 - GWT57-3	05-JUL-95	2.0 U
GPT57-4 - GWT57-4	06-JUL-95	0.50 U
GPT57-4 - GWT57-4	06-JUL-95	2.0 U
WT57-1 - WT57-1	22-FEB-96	0.50 U
WT57-1 - WT57-1	19-NOV-96	0.50 U
WT57-1 - WT57-1	20-FEB-97	0.50 U

TABLE 14 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 57  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

Chemical Name: XYLENES (TOTAL)		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT57-1 - WT57-1	20-FEB-97	1.50 U
WT57-1 - WT57-1	21-MAY-97	0.50 J
WT57-1 - WT57-1	27-AUG-99	1.0 U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit).
- Y - Pattern does not match calibration fuel pattern, but resembles a fuel pattern.
- Z - Unknown single peaks or patterns were detected, but did not resemble a typical fuel pattern.
- Dup - Duplicate sample

TABLE 15

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 59  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.012 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.012 U

<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U

<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.012 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.012 U

<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U

<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U

<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	1.20 U

**TABLE 15 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 59  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	12.0 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	12.0 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	12.0 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	12.0 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	2.30 J-S
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	1.20 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	1.20 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	1.20 U
<b>Chemical Name: TOLUENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.012 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.012 U
<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-1 - GP59-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-1 - GP59-1(9.0-11.0)	9	31-JAN-94	0.012 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP59-2 - GP59-2(5.0-7.0)	5	31-JAN-94	0.012 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.006 U
GP59-2 - GP59-2(9.0-11.0)	9	31-JAN-94	0.012 U

**TABLE 15 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 59  
SOIL DATA  
(Concentrations in milligrams per kilogram)**

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- S - Value is estimated because the surrogate recovery was out of quality control limits.
- U - Analyzed for but not detected (reported value is detection limit).
- Dup - Duplicate sample
- 1 - Feet below ground surface

**TABLE 16**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 62 AND 62A  
SOIL DATA**

**(Concentrations in milligrams per kilogram)**

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>

Notes:

ND<sup>1</sup> - Detection limits unknown

TABLE 17

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 62 AND 62A  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup> X
B45-5	Unknown	Unknown	ND <sup>1</sup> X
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup> X
B45-5	Unknown	Unknown	ND <sup>1</sup> X
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
B45-4	Unknown	Unknown	ND <sup>1</sup>
B45-5	Unknown	Unknown	ND <sup>1</sup>

Notes:

ND<sup>1</sup> - Detection limits unknown

TABLE 18

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 63  
SOIL DATA  
(Concentrations in milligrams per kilogram)**

<b>Chemical Name: BENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.012 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	1.20 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.012 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	2.50 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	1.20 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	61.0
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	1.20 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	1.20 U

**TABLE 18 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 63  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	12.0 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	12.0 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	12.0 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	12.0 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	1.20 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	17.0
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	72.0
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	1.20 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	1.20 U
<b>Chemical Name: TOLUENE</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.012 U
<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location - Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-1 - GP63-1(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-1 - GP63-1(5.0-7.0)	5	31-JAN-94	0.012 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.006 U
GP63-2 - GP63-2(3.0-5.0)	3	31-JAN-94	0.012 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.006 U
GP63-2 - GP63-2(5.0-7.0)	5	31-JAN-94	0.012 U

Notes:

- U - Analyzed for but not detected (reported value is detection limit).
- Dup - Duplicate sample
- 1 - Feet below ground surface

TABLE 19

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 63  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: BENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	0.50 U
HP63-1 - HP63-1	27-JAN-94	2.0 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	52.0 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	0.50 U
HP63-1 - HP63-1	27-JAN-94	2.0 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	50.0 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	52.0 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	52.0 UJ-K
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	520.0 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	52.0 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	50.0 U
<b>Chemical Name: TOLUENE</b>		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	0.50 U
HP63-1 - HP63-1	27-JAN-94	2.0 U

TABLE 19 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 63  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

Chemical Name: XYLENES (TOTAL)		
<u>Location - Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
HP63-1 - HP63-1	27-JAN-94	0.50 U
HP63-1 - HP63-1	27-JAN-94	2.0 U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- K - Value is estimated because calibration or Gas Chromatograph/Mass Spectrometer tuning criteria were out of quality control limits.
- U - Analyzed for but not detected (reported value is detection limit).
- Dup - Duplicate sample

TABLE 20

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 64  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	16-Mar-92	5 U
WNB-9 - WNB-9	14-Apr-92	10 U
WNB-9 - WNB-9	22-Sep-92	0.5 U
WNB-9 - WNB-9	22-Sep-92	2 U
WNB-9 - WNB-9	30-Nov-92	0.5 U
WNB-9 - WNB-9	30-Nov-92	2 U
WNB-9 - WNB-9	11-Jun-93	0.1 J
WNB-9 - WNB-9	11-Jun-93	0.5 U
WNB-9 - WNB-9	15-Mar-95	2 U
WNB-9 - WNB-9	25-Aug-99	1 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	50 U
WNB-9 - WNB-9	30-Nov-92	50 U
WNB-9 - WNB-9	11-Jun-93	50 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	16-Mar-92	5 U
WNB-9 - WNB-9	14-Apr-92	10 U
WNB-9 - WNB-9	22-Sep-92	0.5 U
WNB-9 - WNB-9	22-Sep-92	2 U
WNB-9 - WNB-9	30-Nov-92	0.5 U
WNB-9 - WNB-9	30-Nov-92	2 U
WNB-9 - WNB-9	11-Jun-93	0.5 U
WNB-9 - WNB-9	11-Jun-93	2 U
WNB-9 - WNB-9	15-Mar-95	2 U
WNB-9 - WNB-9	25-Aug-99	1 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	50 U
WNB-9 - WNB-9	30-Nov-92	50 U
WNB-9 - WNB-9	11-Jun-93	50 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	50 U
WNB-9 - WNB-9	30-Nov-92	50 U
WNB-9 - WNB-9	11-Jun-93	50 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	50 U
WNB-9 - WNB-9	30-Nov-92	50 U
WNB-9 - WNB-9	11-Jun-93	50 U

TABLE 20 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 64

GROUNDWATER DATA  
(Concentrations in micrograms per liter)

<b>Chemical Name: METHYL TERTIARY BUTYL ETHER</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	25-Aug-99	10 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	500 U
WNB-9 - WNB-9	30-Nov-92	500 U
WNB-9 - WNB-9	11-Jun-93	500 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	100 J-N
WNB-9 - WNB-9	30-Nov-92	190 J-N
WNB-9 - WNB-9	11-Jun-93	67
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	22-Sep-92	0.5 U
WNB-9 - WNB-9	30-Nov-92	6 UJ-B
WNB-9 - WNB-9	11-Jun-93	0.5 U
<b>Chemical Name: TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	16-Mar-92	5 U
WNB-9 - WNB-9	14-Apr-92	10 U
WNB-9 - WNB-9	22-Sep-92	0.5 U
WNB-9 - WNB-9	22-Sep-92	2 U
WNB-9 - WNB-9	30-Nov-92	0.5 U
WNB-9 - WNB-9	30-Nov-92	2 U
WNB-9 - WNB-9	11-Jun-93	0.5 U
WNB-9 - WNB-9	11-Jun-93	2 U
WNB-9 - WNB-9	15-Mar-95	2 U
WNB-9 - WNB-9	25-Aug-99	1 U
<b>Chemical Name: XYLENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WNB-9 - WNB-9	16-Mar-92	5 U
WNB-9 - WNB-9	14-Apr-92	10 U
WNB-9 - WNB-9	22-Sep-92	0.5 U
WNB-9 - WNB-9	22-Sep-92	2 U
WNB-9 - WNB-9	30-Nov-92	0.5 U
WNB-9 - WNB-9	30-Nov-92	2 U
WNB-9 - WNB-9	11-Jun-93	0.5 U
WNB-9 - WNB-9	11-Jun-93	2 U
WNB-9 - WNB-9	15-Mar-95	2 U
WNB-9 - WNB-9	25-Aug-99	1 U

**TABLE 20 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 64  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

Notes:

- B - Organic analyte found in the associated blank as well as the sample.
- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- N - Spiked sample recovery not within control limits.
- U - Analyzed for but not detected (report value is detection limit).

TABLE 21

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.4 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.42 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.42 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.42 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.43 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.43 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.42 U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.4 U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.41 U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.41 U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.4 U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41 U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.33 U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.39 U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.36 U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.4 U
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.4 U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.726 U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.759 U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.726 U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.838 U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.41 U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.41 U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.37 U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.39 U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41 U
<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
B13 - B13, 12-12.5	12	7-Mar-87	0.001 U
B13 - B13, 17-17.5	17	7-Mar-87	0.001 U
B13 - B13, 19.5-20	19.5	7-Mar-87	0.001 U
B13 - B13, 7-7.5	7	7-Mar-87	0.001 U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.006 U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.012 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.006 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.013 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.006 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.013 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.006 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.013 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.006 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.013 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.006 U

TABLE 21 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in milligrams per kilogram)

Chemical Name: BENZENE			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.013 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.006 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.013 U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,	12.5	6-Sep-90	0.003 J
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,	17.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,	25.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005 U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.005 U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.005 U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.005 U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.005 U
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.005 U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	0.005 U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	0.005 U
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	0.005 U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,	12.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,	17.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.005 UJ
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005 U
Chemical Name: BENZO(A)PYRENE			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.4 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.42 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.42 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.42 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.43 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.43 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.42 U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,	12.5	6-Sep-90	0.4 U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,	17.5	6-Sep-90	0.41 U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.41 U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,	25.5	6-Sep-90	0.4 U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41 U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.33 U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.39 U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.36 U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.4 U

TABLE 21 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZO(A)PYRENE</b>			
<b>Location/Sample ID</b>	<b>Sample Depth<sup>1</sup></b>	<b>Sample Date</b>	<b>Concentration</b>
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.4 U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.726 U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.759 U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.726 U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.838 U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.41 U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.41 U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.37 U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.39 U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<b>Location/Sample ID</b>	<b>Sample Depth<sup>1</sup></b>	<b>Sample Date</b>	<b>Concentration</b>
EX68-1 - EX68-1(9.0)	9	14-Jul-94	1.2 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	1.3 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	1.3 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	1.3 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3 U
EX91-4 - EX91-4(5.5)	5.5	14-Jul-94	0.006 U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	100 U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	100 U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	100 U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.1 U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	100 U
SU-66 - SU-66-S-1-R-3,4(N)	1	7-Jun-90	1 U
SU-66 - SU-66-S-1.5-R-3,4(W)	1.5	7-Jun-90	1 U
SU-66 - SU-66-S-3.5-R-3,4(B)	3.5	7-Jun-90	5.4
T67-P - TP1-67-S-7-R-3,4,6	7	7-Jun-90	150
T67-P - TP2-67-S-7-R-3,4,6	7	7-Jun-90	1 U
TN-67 - (E)TN-67-S-8-R-3,4	8	18-May-90	1 U
TN-67 - (N)TN-67-S-8-R-3,4	8	18-May-90	1 U
TN-67 - (NNW)TN-67-S-8-R-3,4	8	18-May-90	1 U
TN-67 - (S)TN-67-S-8-R-3,4	8	18-May-90	1 U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	100 U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	100 U
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	100 U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	100 U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	100 U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	100 U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	100 U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	100 U

TABLE 21 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA

(Concentration in milligrams per kilogram)

Chemical Name: ETHYLBENZENE			
Location/Sample ID	Sample Depth <sup>1</sup>	Sample Date	Concentration
B13 - B13, 12-12.5	12	7-Mar-87	0.001 U
B13 - B13, 17-17.5	17	7-Mar-87	0.001 U
B13 - B13, 19.5-20	19.5	7-Mar-87	0.001 U
B13 - B13, 7-7.5	7	7-Mar-87	0.001 U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.006 U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.012 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.006 U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.013 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.006 U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.013 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.006 U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.013 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.006 U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.013 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.006 U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.013 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.006 U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.013 U
EX91-4 - EX91-4(5.5)	5.5	14-Jul-94	0.006
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.005 U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005 U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.005 U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.005 U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.005 U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.005 U
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.005 U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.005 U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	0.005 U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	0.005 U
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	0.005 U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005 U

TABLE 21 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in micrograms per liter)

Chemical Name:		GASOLINE-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
B13 - B13, 12-12.5	12	7-Mar-87	0.1	U
B13 - B13, 17-17.5	17	7-Mar-87	0.5	U
B13 - B13, 19.5-20	19.5	7-Mar-87	0.5	U
B13 - B13, 7-7.5	7	7-Mar-87	0.1	U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	1.2	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	1.3	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	1.3	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	1.3	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3	U
EX91-4 - EX91-4(5.5)	5.5	14-Jul-94	1.2	U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.5	U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.5	U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.5	U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.0005	U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.5	U
SU-66 - SU-66-S-1-R-3,4(N)	1	7-Jun-90	1.3	
SU-66 - SU-66-S-1.5-R-3,4(W)	1.5	7-Jun-90	1	U
SU-66 - SU-66-S-3.5-R-3,4(B)	3.5	7-Jun-90	1	U
T67-P - TP1-67-S-7-R-3,4,6	7	7-Jun-90	1	U
T67-P - TP2-67-S-7-R-3,4,6	7	7-Jun-90	1	U
TN-67 - (E)TN-67-S-8-R-3,4	8	18-May-90	1	U
TN-67 - (N)TN-67-S-8-R-3,4	8	18-May-90	1	U
TN-67 - (NNW)TN-67-S-8-R-3,4	8	18-May-90	1	U
TN-67 - (S)TN-67-S-8-R-3,4	8	18-May-90	1	U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	0.5	UJ
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	0.5	UJ
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	0.5	UJ
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.5	U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.5	U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.5	U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.5	U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.5	U
Chemical Name:		JP5-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	1.2	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	1.3	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	1.3	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	1.3	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3	U

TABLE 21 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name:</b>		<b>KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	1.2	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	1.3	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	1.3	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	1.3	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3	U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	100	U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	100	U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	100	U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.1	U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	100	U
T67-P - TP1-67-S-7-R-3,4,6	7	7-Jun-90	10	U
T67-P - TP2-67-S-7-R-3,4,6	7	7-Jun-90	10	U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	25	U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	25	U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	25	U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	25	U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	50	U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	50	U
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	50	U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	100	U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	100	U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	100	U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	100	U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	100	U
<b>Chemical Name:</b>		<b>MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	12	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	13	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	13	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	13	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	13	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	13	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	13	U
SU-66 - SU-66-S-1-R-3,4(N)	1	7-Jun-90	51	
SU-66 - SU-66-S-1.5-R-3,4(W)	1.5	7-Jun-90	63	
SU-66 - SU-66-S-3.5-R-3,4(B)	3.5	7-Jun-90	36	
T67-P - TP1-67-S-7-R-3,4,6	7	7-Jun-90	10	U
T67-P - TP2-67-S-7-R-3,4,6	7	7-Jun-90	10	U
<b>Chemical Name:</b>		<b>NAPHTHALENE</b>		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.4	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.42	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.42	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.42	U

TABLE 21 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name:</b> NAPHTHALENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.43	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.43	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.42	U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.4	U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.41	U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.41	U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.4	U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41	U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.33	U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.39	U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.36	U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.4	U
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.4	U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.726	U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.759	U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.726	U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.838	U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.41	U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.41	U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.37	U
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.39	U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.41	U
<b>Chemical Name:</b> OTHER HEAVY TPH COMPONENTS				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	18	Y
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	11	Y
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	18	Y
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	6.6	Y
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3	U
<b>Chemical Name:</b> OTHER LIGHT TPH COMPONENTS				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
EX68-1 - EX68-1(9.0)	9	14-Jul-94	1.2	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	1.3	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	1.3	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	1.3	U
EX68-4 - EX68-4(9.0)	9	27-Jul-94	1.2	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	1.3	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	1.3	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	1.3	U
<b>Chemical Name:</b> TOLUENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
B13 - B13, 12-12.5	12	7-Mar-87	0.002	U
B13 - B13, 17-17.5	17	7-Mar-87	0.002	U
B13 - B13, 19.5-20	19.5	7-Mar-87	0.002	U

TABLE 21 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name:		TOLUENE		
Location/Sample ID	Sample Depth <sup>1</sup>	Sample Date	Concentration	
B13 - B13, 7-7.5	7	7-Mar-87	0.002	U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.006	U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.012	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.006	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.013	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.006	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.013	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.006	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.013	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.006	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.013	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.006	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.013	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.006	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.013	U
EX91-4 - EX91-4(9.0)	9	14-Jul-94	0.006	U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.011	U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.012	
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005	U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.005	UJ
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.028	
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.005	U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.047	
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.014	
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.006	UJ
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	0.005	U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	0.003	UJ
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	0.008	UJ
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.005	U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005	U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.003	UJ
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.009	J
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005	U

TABLE 21 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name: XYLENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
B13 - B13, 12-12.5	12	7-Mar-87	0.001	U
B13 - B13, 17-17.5	17	7-Mar-87	0.001	U
B13 - B13, 19.5-20	19.5	7-Mar-87	0.001	U
Chemical Name: XYLENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
B13 - B13, 7-7.5	7	7-Mar-87	0.001	U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.006	U
EX68-1 - EX68-1(9.0)	9	14-Jul-94	0.012	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.006	U
EX68-2 - EX68-2(9.0)	9	14-Jul-94	0.013	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.006	U
EX68-2 - EX68-99-6(9.0) (Dup)	9	14-Jul-94	0.013	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.006	U
EX68-3 - EX68-3(7.0)	7	27-Jul-94	0.013	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.006	U
EX91-1 - EX91-1(5.5)	5.5	14-Jul-94	0.013	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.006	U
EX91-2 - EX91-2(5.5)	5.5	14-Jul-94	0.013	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.006	U
EX91-3 - EX91-3(5.0)	5	14-Jul-94	0.013	U
EX91-4 - EX91-4(5.0)	5	14-Jul-94	0.006	U
SB68-1 - SB-68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-25.5-R-1,2,3,4	25.5	6-Sep-90	0.005	U
SB68-1 - SB-68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005	U
SU-66 - SU-66-S-1-R-1,7(N)	1	7-Jun-90	0.005	U
SU-66 - SU-66-S-1.5-R-1,7(W)	1.5	7-Jun-90	0.005	U
SU-66 - SU-66-S-3.5-R-1,7(B)	3.5	7-Jun-90	0.005	U
T67-P - TP1-67-S-7-R-1,7	7	7-Jun-90	0.005	U
T67-P - TP2-67-S-7-R-1,7	7	7-Jun-90	0.005	U
TN-67 - (E) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
TN-67 - (N) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
TN-67 - (NNW) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
TN-67 - (S) TN-67-S-8-R-1,6,7	8	18-May-90	0.005	U
W67-1 - WT-67-1(A)-S-2.5-R-1,3,4	2.5	30-Aug-90	0.005	U
W67-1 - WT-67-1(A)-S-5.0-R-1,3,4	5	30-Aug-90	0.005	U
W67-1 - WT-67-1(A)-S-7.5-R-1,3,4	7.5	30-Aug-90	0.005	U
W68-1 - WT68-1(A)-S-12.5-R-1,2,3,4	12.5	6-Sep-90	0.005	U
W68-1 - WT68-1(A)-S-17.5-R-1,2,3,4	17.5	6-Sep-90	0.005	U
W68-1 - WT68-1(A)-S-2.5-R-1,2,3,4	2.5	6-Sep-90	0.005	U

TABLE 21 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 66, 67, 68, AND 91  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name:	XYLENE		
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
W68-1 - WT68-1(A)-S-25-R-1,2,3,4	25	6-Sep-90	0.005 U
W68-1 - WT68-1(A)-S-7.5-R-1,2,3,4	7.5	6-Sep-90	0.005 U

Notes:

- U - Analyzed but not detected (reported value is a detection limit).
- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- 1 - Feet below ground surface

TABLE 22

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GW68-1 - GW68-1	14-Jul-94	10 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	10 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	20 U
W91-1 - W91-001(27.5)	18-Jun-92	10 U
<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	0.5 U
ERM-4 - ERM-4	10-Sep-92	400 U
ERM-4 - ERM-4	18-May-93	0.5 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4	17-Sep-93	250 U
ERM-4 - ERM-4 (3/20/87)	20-Mar-87	0.5 U
ERM-4 - ERM-4(13.0)	19-Jul-91	0.5 U
ERM-4 - ERM-4(13.0)	19-Jul-91	1000 U
GW68-1 - GW68-1	14-Jul-94	0.2 J
GW68-1 - GW68-1	14-Jul-94	0.5 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	0.2 J
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	0.5 U
TN-67 - TN-67-W1-R-07-1	15-May-90	5 U
W67-1 - W67-1	15-Nov-91	0.3 U
W67-1 - W67-1	15-Nov-91	50 U
W67-1 - W67-1	4-Mar-92	50 U
W67-1 - W67-1	8-Jun-92	5 U
W67-1 - W67-1	10-Sep-92	0.5 U
W67-1 - W67-1	10-Sep-92	100 U
W67-1 - W67-1	18-May-93	0.5 U
W67-1 - W67-1	18-May-93	10 U
W67-1 - W67-1(10.8)	24-Jul-91	125 U
W67-1 - W67-1(10.8)	24-Jul-91	300 U
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	5 U
W68-1 - W68-1	15-Nov-91	0.3 U
W68-1 - W68-1	15-Nov-91	25 U
W68-1 - W68-1	12-Feb-92	10 U
W68-1 - W68-1	8-Jun-92	5 U
W68-1 - W68-1	10-Sep-92	0.5 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	0.5 U
W68-1 - W68-1	18-May-93	3 U
W68-1 - W68-1(16.2)	24-Jul-91	0.6 U
W68-1 - W68-1(16.2)	24-Jul-91	12 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	5 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	5 U
W9-46 - MW009-046(17.0)	31-Jul-91	0.5 U

TABLE 22 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W9-46 - MW009-046(17.0)	31-Jul-91	200 U
W9-46 - W9-46	5-Nov-91	2.1
W9-46 - W9-46	5-Nov-91	50 U
W9-46 - W9-46	28-Feb-92	50 U
W9-46 - W9-46	15-Jun-92	50 U
W9-46 - W9-46	11-Sep-92	0.5 U
W9-46 - W9-46	11-Sep-92	120 U
W9-46 - W9-46	24-May-93	10 U
W9-46 - W9-46	24-May-93	12
W9-46 - W9-46	9-Dec-93	0.5 U
W9-46 - W9-46	9-Dec-93	100 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	50 U
W91-1 - W91-001(27.5)	18-Jun-92	0.2 J
W91-1 - W91-001(27.5)	18-Jun-92	0.5 U
W91-1 - W91-1	10-Sep-92	0.5 U
W91-1 - W91-1	10-Sep-92	170 U
W91-1 - W91-1	18-Nov-92	0.5 U
W91-1 - W91-1	18-Nov-92	33 U
W91-1 - W91-1	18-May-93	0.5 U
W91-1 - W91-1	18-May-93	20 U
W9SC-14 - W9SC-14	5-Jun-97	59 U
W9SC-14 - W9SC-14	4-Aug-97	6 U
W9SC-17 - W9SC-17	5-Jun-97	250 U
W9SC-17 - W9SC-17	4-Aug-97	18 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GW68-1 - GW68-1	14-Jul-94	10 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	10 U
W91-1 - W91-001(27.5)	18-Jun-92	10 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	50 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4(13.0)	19-Jul-91	50 U
GW68-1 - GW68-1	14-Jul-94	50 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	50 U
TN-67 - TN-67-W1-R-07-3,6	15-May-90	1300
W67-1 - W67-1	15-Nov-91	500 U
W67-1 - W67-1	4-Mar-92	500 U
W67-1 - W67-1	8-Jun-92	500 U
W67-1 - W67-1	10-Sep-92	50 U
W67-1 - W67-1	18-May-93	50 U
W67-1 - W67-1(10.8)	22-Jul-91	500 U

**TABLE 22 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA**

**(Concentrations in micrograms per liter)**

<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	930
W68-1 - W68-1	15-Nov-91	500 U
W68-1 - W68-1	12-Feb-92	500 U
W68-1 - W68-1	8-Jun-92	500 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	50 U
W68-1 - W68-1(16.0)	22-Jul-91	500 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	500 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	500 U
W9-46 - MW009-046(17.0)	31-Jul-91	50 U
W9-46 - W9-46	5-Nov-91	1100
W9-46 - W9-46	28-Feb-92	500 U
W9-46 - W9-46	15-Jun-92	500 U
W9-46 - W9-46	11-Sep-92	50 U
W9-46 - W9-46	24-May-93	50 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	500 U
W91-1 - W91-001(27.5)	18-Jun-92	50 U
W91-1 - W91-1	10-Sep-92	50 U
W91-1 - W91-1	18-Nov-92	50 U
W91-1 - W91-1	18-May-93	50 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	0.5 U
ERM-4 - ERM-4	10-Sep-92	400 U
ERM-4 - ERM-4	18-May-93	0.5 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4	17-Sep-93	250 U
ERM-4 - ERM-4 (3/20/87)	20-Mar-87	1 U
ERM-4 - ERM-4(13.0)	19-Jul-91	0.5 U
ERM-4 - ERM-4(13.0)	19-Jul-91	1000 U
GW68-1 - GW68-1	14-Jul-94	0.5 U
GW68-1 - GW68-1	14-Jul-94	2 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	0.5 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	2 U
TN-67 - TN-67-W1-R-07-1	15-May-90	5 U
W67-1 - W67-1	15-Nov-91	0.3 U
W67-1 - W67-1	15-Nov-91	50 U
W67-1 - W67-1	4-Mar-92	50 U
W67-1 - W67-1	8-Jun-92	5 U
W67-1 - W67-1	10-Sep-92	0.5 U
W67-1 - W67-1	10-Sep-92	100 U
W67-1 - W67-1	18-May-93	0.5 U
W67-1 - W67-1	18-May-93	10 U

TABLE 22 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

Chemical Name: ETHYLBENZENE		
Location/Sample ID	Sample Date	Concentration
W67-1 - W67-1(10.8)	24-Jul-91	125 U
W67-1 - W67-1(10.8)	24-Jul-91	300 U
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	5 U
W68-1 - W68-1	15-Nov-91	0.3 U
W68-1 - W68-1	15-Nov-91	25 U
W68-1 - W68-1	12-Feb-92	10 U
W68-1 - W68-1	8-Jun-92	5 U
W68-1 - W68-1	10-Sep-92	0.5 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	0.5 U
W68-1 - W68-1	18-May-93	3 U
W68-1 - W68-1(16.2)	24-Jul-91	0.6 U
W68-1 - W68-1(16.2)	24-Jul-91	12 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	5 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	5 U
W9-46 - MW009-046(17.0)	31-Jul-91	0.5 U
W9-46 - MW009-046(17.0)	31-Jul-91	200 U
W9-46 - W9-46	5-Nov-91	0.3 U
W9-46 - W9-46	5-Nov-91	50 U
W9-46 - W9-46	28-Feb-92	50 U
W9-46 - W9-46	15-Jun-92	50 U
W9-46 - W9-46	11-Sep-92	0.5 U
W9-46 - W9-46	11-Sep-92	120 U
W9-46 - W9-46	24-May-93	0.5 U
W9-46 - W9-46	24-May-93	10 U
W9-46 - W9-46	9-Dec-93	0.5 U
W9-46 - W9-46	9-Dec-93	100 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	50 U
W91-1 - W91-001(27.5)	18-Jun-92	0.5 U
W91-1 - W91-001(27.5)	18-Jun-92	2 U
W91-1 - W91-1	10-Sep-92	0.5 U
W91-1 - W91-1	10-Sep-92	170 U
W91-1 - W91-1	18-Nov-92	0.5 UJ-T
W91-1 - W91-1	18-Nov-92	33 U
W91-1 - W91-1	18-May-93	0.5 U
W91-1 - W91-1	18-May-93	20 U
W9SC-14 - W9SC-14	5-Jun-97	59 U
W9SC-14 - W9SC-14	4-Aug-97	6 U
W9SC-17 - W9SC-17	5-Jun-97	250 U
W9SC-17 - W9SC-17	4-Aug-97	18 U
Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS		
Location/Sample ID	Sample Date	Concentration
ERM-4 - ERM-4	10-Sep-92	50 U

TABLE 22 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4(13.0)	19-Jul-91	2800 X
GW68-1 - GW68-1	14-Jul-94	50 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	50 U
TN-67 - TN-67-W1-R-07-4	15-May-90	260
W67-1 - W67-1	15-Nov-91	1300
W67-1 - W67-1	4-Mar-92	500 U
W67-1 - W67-1	8-Jun-92	500 U
W67-1 - W67-1	10-Sep-92	50 U
W67-1 - W67-1	18-May-93	50 U
W67-1 - W67-1(10.8)	24-Jul-91	2000 DJ
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	500 U
W68-1 - W68-1	15-Nov-91	440 J
W68-1 - W68-1	12-Feb-92	500 U
W68-1 - W68-1	8-Jun-92	500 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	50 U
W68-1 - W68-1(16.2)	24-Jul-91	150 J
W68-1 - W68-99-01 (Dup)	12-Feb-92	500 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	500 U
W9-46 - MW009-046(17.0)	31-Jul-91	1200 JX
W9-46 - W9-46	5-Nov-91	2000
W9-46 - W9-46	28-Feb-92	500 U
W9-46 - W9-46	15-Jun-92	500 U
W9-46 - W9-46	11-Sep-92	50 U
W9-46 - W9-46	24-May-93	50 U
W9-46 - W9-46	9-Dec-93	50 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	500 U
W91-1 - W91-001(27.5)	18-Jun-92	50 U
W91-1 - W91-1	10-Sep-92	50 U
W91-1 - W91-1	18-Nov-92	50 U
W91-1 - W91-1	18-May-93	50 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	50 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4(13.0)	19-Jul-91	50 U
GW68-1 - GW68-1	14-Jul-94	50 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	50 U
W67-1 - W67-1	4-Mar-92	500 U
W67-1 - W67-1	8-Jun-92	500 U
W67-1 - W67-1	10-Sep-92	50 U
W67-1 - W67-1	18-May-93	50 U

TABLE 22 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

Chemical Name: JP5-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W68-1 - W68-1	12-Feb-92	500 U
W68-1 - W68-1	8-Jun-92	500 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	50 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	500 U
W9-46 - MW009-046(17.0)	31-Jul-91	50 U
W9-46 - W9-46	28-Feb-92	500 U
W9-46 - W9-46	15-Jun-92	500 U
W9-46 - W9-46	11-Sep-92	50 U
W9-46 - W9-46	24-May-93	50 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	500 U
W91-1 - W91-001(27.5)	18-Jun-92	50 U
W91-1 - W91-1	10-Sep-92	50 U
W91-1 - W91-1	18-Nov-92	50 U
W91-1 - W91-1	18-May-93	50 U
Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	50 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4(13.0)	19-Jul-91	50 U
GW68-1 - GW68-1	14-Jul-94	50 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	50 U
TN-67 - TN-67-W1-R-07-3,6	15-May-90	50 U
W67-1 - W67-1	10-Sep-92	50 U
W67-1 - W67-1	18-May-93	50 U
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	500 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	50 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	500 U
W9-46 - MW009-046(17.0)	31-Jul-91	320
W9-46 - W9-46	11-Sep-92	50 U
W9-46 - W9-46	24-May-93	50 U
W91-1 - W91-001(27.5)	18-Jun-92	50 U
W91-1 - W91-1	10-Sep-92	50 U
W91-1 - W91-1	18-Nov-92	50 UJ-K
W91-1 - W91-1	18-May-93	50 U
Chemical Name: METHYL TERTIARY BUTYL ETHER		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W9SC-14 - W9SC-14	5-Jun-97	59 U
W9SC-14 - W9SC-14	4-Aug-97	6 U
W9SC-17 - W9SC-17	5-Jun-97	250 U
W9SC-17 - W9SC-17	4-Aug-97	18 U

TABLE 22 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	500 U
ERM-4 - ERM-4	18-May-93	500 U
ERM-4 - ERM-4(13.0)	19-Jul-91	500 U
GW68-1 - GW68-1	14-Jul-94	500 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	500 U
TN-67 - TN-67-W1-R-07-3,6	15-May-90	500 U
W67-1 - W67-1	10-Sep-92	500 U
W67-1 - W67-1	18-May-93	500 U
W68-1 - W68-1	10-Sep-92	500 U
W68-1 - W68-1	18-May-93	500 U
W9-46 - MW009-046(17.0)	31-Jul-91	500 U
W9-46 - W9-46	11-Sep-92	500 U
W9-46 - W9-46	24-May-93	500 U
W91-1 - W91-001(27.5)	18-Jun-92	500 U
W91-1 - W91-1	10-Sep-92	500 U
W91-1 - W91-1	18-Nov-92	500 U
W91-1 - W91-1	18-May-93	500 U
Chemical Name: NAPHTHALENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GW68-1 - GW68-1	14-Jul-94	10 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	10 U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	20 U
W91-1 - W91-001(27.5)	18-Jun-92	10 U
Chemical Name: OTHER HEAVY TPH COMPONENTS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	50 U
ERM-4 - ERM-4	18-May-93	50 U
GW68-1 - GW68-1	14-Jul-94	50 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	50 U
W67-1 - W67-1	4-Mar-92	500 U
W67-1 - W67-1	8-Jun-92	500 U
W67-1 - W67-1	10-Sep-92	50 U
W67-1 - W67-1	18-May-93	50 U
W68-1 - W68-1	12-Feb-92	500 U
W68-1 - W68-1	8-Jun-92	500 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	50 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	500 U
W9-46 - W9-46	28-Feb-92	500 U
W9-46 - W9-46	15-Jun-92	500 U
W9-46 - W9-46	11-Sep-92	50 U
W9-46 - W9-46	24-May-93	50 U
W9-46 - W9-99-05 (Dup)	28-Feb-92	500 U

TABLE 22 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W91-1 - W91-001(27.5)	18-Jun-92	350 J-N
W91-1 - W91-1	10-Sep-92	50 U
W91-1 - W91-1	18-Nov-92	8 J-NG
W91-1 - W91-1	18-May-93	50 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	2600 J-N
ERM-4 - ERM-4	18-May-93	1700 J-T
GW68-1 - GW68-1	14-Jul-94	330 Z
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	350 Z
W67-1 - W67-1	4-Mar-92	500 U
W67-1 - W67-1	8-Jun-92	500 U
W67-1 - W67-1	10-Sep-92	670 J-N
W67-1 - W67-1	18-May-93	580 J-T
W68-1 - W68-1	12-Feb-92	500 U
W68-1 - W68-1	8-Jun-92	500 U
W68-1 - W68-1	10-Sep-92	340 J-N
W68-1 - W68-1	18-May-93	220 J-T
W68-1 - W68-99-01 (Dup)	12-Feb-92	500 U
W9-46 - W9-46	28-Feb-92	500 U
W9-46 - W9-46	15-Jun-92	500 U
W9-46 - W9-46	11-Sep-92	780 J-N
W9-46 - W9-46	24-May-93	1200 J-T
W9-46 - W9-46	9-Dec-93	420
W9-46 - W9-99-05 (Dup)	28-Feb-92	500 U
W91-1 - W91-001(27.5)	18-Jun-92	0.5 U
W91-1 - W91-1	10-Sep-92	790 J-N
W91-1 - W91-1	18-Nov-92	1100 J-N
W91-1 - W91-1	18-May-93	770 J-T
<b>Chemical Name: TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	0.5 U
ERM-4 - ERM-4	10-Sep-92	400 U
ERM-4 - ERM-4	18-May-93	0.5 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4	17-Sep-93	250 U
ERM-4 - ERM-4 (3/20/87)	20-Mar-87	2 U
ERM-4 - ERM-4(13.0)	19-Jul-91	0.5 U
ERM-4 - ERM-4(13.0)	19-Jul-91	1000 U
GW68-1 - GW68-1	14-Jul-94	0.5 U
GW68-1 - GW68-1	14-Jul-94	2 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	0.5 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	2 U

TABLE 22 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

Chemical Name: TOLUENE			
Location/Sample ID	Sample Date	Concentration	
TN-67 - TN-67-W1-R-07-1	15-May-90	5	U
W67-1 - W67-1	15-Nov-91	0.3	U
W67-1 - W67-1	15-Nov-91	50	U
W67-1 - W67-1	4-Mar-92	50	U
W67-1 - W67-1	8-Jun-92	5	U
W67-1 - W67-1	10-Sep-92	0.5	U
W67-1 - W67-1	10-Sep-92	100	U
W67-1 - W67-1	18-May-93	0.5	U
W67-1 - W67-1	18-May-93	10	U
W67-1 - W67-1(10.8)	24-Jul-91	125	U
W67-1 - W67-1(10.8)	24-Jul-91	300	U
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	5	U
W68-1 - W68-1	15-Nov-91	0.3	U
W68-1 - W68-1	15-Nov-91	25	U
W68-1 - W68-1	12-Feb-92	10	U
W68-1 - W68-1	8-Jun-92	5	U
W68-1 - W68-1	10-Sep-92	0.5	U
W68-1 - W68-1	10-Sep-92	50	U
W68-1 - W68-1	18-May-93	0.5	U
W68-1 - W68-1	18-May-93	3	U
W68-1 - W68-1(16.2)	24-Jul-91	0.6	U
W68-1 - W68-1(16.2)	24-Jul-91	12	U
W68-1 - W68-99-01 (Dup)	12-Feb-92	5	U
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	5	U
W9-46 - MW009-046(17.0)	31-Jul-91	0.5	U
W9-46 - MW009-046(17.0)	31-Jul-91	200	U
W9-46 - W9-46	5-Nov-91	0.3	U
W9-46 - W9-46	5-Nov-91	50	U
W9-46 - W9-46	28-Feb-92	50	U
W9-46 - W9-46	15-Jun-92	50	U
W9-46 - W9-46	11-Sep-92	0.5	U
W9-46 - W9-46	11-Sep-92	120	U
W9-46 - W9-46	24-May-93	4	
W9-46 - W9-46	24-May-93	10	U
W9-46 - W9-46	9-Dec-93	0.5	U
W9-46 - W9-46	9-Dec-93	100	U
W9-46 - W9-99-05 (Dup)	28-Feb-92	50	U
W91-1 - W91-001(27.5)	18-Jun-92	0.5	U
W91-1 - W91-001(27.5)	18-Jun-92	2	U
W91-1 - W91-1	10-Sep-92	0.5	U
W91-1 - W91-1	10-Sep-92	170	U
W91-1 - W91-1	18-Nov-92	0.5	U
W91-1 - W91-1	18-Nov-92	33	U

TABLE 22 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

Chemical Name: TOLUENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
W91-1 - W91-1	18-May-93	0.5 U
W91-1 - W91-1	18-May-93	20 U
W9SC-14 - W9SC-14	5-Jun-97	59 U
W9SC-14 - W9SC-14	4-Aug-97	6 U
W9SC-17 - W9SC-17	5-Jun-97	250 U
W9SC-17 - W9SC-17	4-Aug-97	18 U
Chemical Name: XYLENE		
<u>Location/Sample</u>	<u>Sample Date</u>	<u>Concentration</u>
ERM-4 - ERM-4	10-Sep-92	0.5 U
ERM-4 - ERM-4	10-Sep-92	400 U
ERM-4 - ERM-4	18-May-93	0.5 U
ERM-4 - ERM-4	18-May-93	50 U
ERM-4 - ERM-4	17-Sep-93	250 U
ERM-4 - ERM-4 (3/20/87)	20-Mar-87	1 U
ERM-4 - ERM-4(13.0)	19-Jul-91	0.5 U
ERM-4 - ERM-4(13.0)	19-Jul-91	1000 U
GW68-1 - GW68-1	14-Jul-94	0.5 U
GW68-1 - GW68-1	14-Jul-94	2 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	0.5 U
GW68-1 - GW68-99-7 (Dup)	14-Jul-94	2 U
TN-67 - TN-67-W1-R-07-1	15-May-90	5 U
W67-1 - W67-1	15-Nov-91	0.6 U
W67-1 - W67-1	15-Nov-91	50 U
W67-1 - W67-1	4-Mar-92	50 U
W67-1 - W67-1	8-Jun-92	5 U
W67-1 - W67-1	10-Sep-92	0.5 U
W67-1 - W67-1	10-Sep-92	100 U
W67-1 - W67-1	18-May-93	0.5 U
W67-1 - W67-1	18-May-93	10 U
W67-1 - W67-1(10.8)	24-Jul-91	125 U
W67-1 - W67-1(10.8)	24-Jul-91	300 U
W67-1 - WT67-1(A)-W-15-R-1,3,4	11-Sep-90	5 U
W68-1 - W68-1	15-Nov-91	0.6 U
W68-1 - W68-1	15-Nov-91	25 U
W68-1 - W68-1	12-Feb-92	10 U
W68-1 - W68-1	8-Jun-92	5 U
W68-1 - W68-1	10-Sep-92	0.5 U
W68-1 - W68-1	10-Sep-92	50 U
W68-1 - W68-1	18-May-93	0.5 U
W68-1 - W68-1	18-May-93	3 U
W68-1 - W68-1(16.2)	24-Jul-91	0.6 U
W68-1 - W68-1(16.2)	24-Jul-91	12 U
W68-1 - W68-99-01 (Dup)	12-Feb-92	5 U

**TABLE 22 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 66, 67, 68, AND 91  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

Chemical Name: XYLENE			
<u>Location/Sample</u>	<u>Sample Date</u>	<u>Concentration</u>	
W68-1 - WT68-1(A)-W-12-R-1,2,3,4	11-Sep-90	5	U
W9-46 - MW009-046(17.0)	31-Jul-91	0.5	U
W9-46 - MW009-046(17.0)	31-Jul-91	200	U
W9-46 - W9-46	5-Nov-91	0.6	U
W9-46 - W9-46	5-Nov-91	50	U
W9-46 - W9-46	28-Feb-92	50	U
W9-46 - W9-46	15-Jun-92	50	U
W9-46 - W9-46	11-Sep-92	0.5	U
W9-46 - W9-46	11-Sep-92	120	U
W9-46 - W9-46	24-May-93	3	
W9-46 - W9-46	24-May-93	10	U
W9-46 - W9-46	9-Dec-93	0.5	U
W9-46 - W9-46	9-Dec-93	100	U
W9-46 - W9-99-05 (Dup)	28-Feb-92	50	U
W91-1 - W91-001(27.5)	18-Jun-92	0.5	U
W91-1 - W91-001(27.5)	18-Jun-92	2	U
W91-1 - W91-1	10-Sep-92	0.5	U
W91-1 - W91-1	10-Sep-92	170	U
W91-1 - W91-1	18-Nov-92	0.5	UJ-T
W91-1 - W91-1	18-Nov-92	33	U
W91-1 - W91-1	18-May-93	0.5	U
W91-1 - W91-1	18-May-93	20	U
W9SC-14 - W9SC-14	5-Jun-97	59	U
W9SC-14 - W9SC-14	4-Aug-97	6	U
W9SC-17 - W9SC-17	5-Jun-97	250	U
W9SC-17 - W9SC-17	4-Aug-97	18	U

Notes:

- D - Compounds identified in an analysis at a secondary dilution factor.
- G - Value is estimated because the value is below the Contract Required Quantitation Limit but above the 5 or 10 times rule for blank contamination.
- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- K - Value is estimated because calibration or Gas Chromatography/Mass Spectrometer tuning criteria were out of quality control limits.
- N - Spiked sample recovery not within control limits.
- T - Value is estimated because a target compound was only tentatively identified.
- U - Analyzed for but not detected (report value is detection limit).
- Z - Unknown single peak or pattern was detected, but did not resemble a typical fuel pattern.
- Dup - Duplicate sample

TABLE 23

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.41 U
<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.0004 BJ
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.006 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.006 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.012 U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.0007 J
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.006 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.006 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.012 U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	0.00061 U
<b>Chemical Name: BENZO(A)PYRENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.41 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.3 U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2 U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	12 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.006 U
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.012 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.006 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.012 U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.006 U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.012 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.006 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.012 U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	0.00061 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2 U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.2 U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2 U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2 U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	0.61 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2 U

TABLE 23 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.3	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2	U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	12	U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.3	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2	U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	12	U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	12	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	13	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	12	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	12	U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	12	U
<b>Chemical Name: NAPHTHALENE</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.41	U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.3	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2	U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	1.2	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	1.2	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	1.2	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	1.2	U
<b>Chemical Name: TOLUENE</b>				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.0007	J
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.006	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.006	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.012	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.001	J
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.006	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.001	J
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.006	U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	0.00061	U

TABLE 23 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name: XYLENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.006	U
GPT69-01 - GPT69-01(6.0)	6	14-Jul-95	0.012	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.006	U
GPT69-02 - GPT69-2(6.5)	6.5	7-Jul-95	0.012	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.006	U
GPT69-03 - GPT69-03(6.5)	6.5	14-Jul-95	0.012	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.006	U
GPT69-04 - GPT69-04(5.0)	5	17-Jul-95	0.012	U
SBT69-2 - SBT69-2(8.0)	8	8-Aug-95	0.00061	U

Notes:

- B - Organic analyte found in the associated blank as well as the sample.
- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Dup - Duplicate sample
- 1 - Feet below ground surface

TABLE 24

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GWT69-2	7-Jul-95	10 U
WT69-1 - WT69-1	21-Aug-96	10 U
WT69-1 - WT69-1	19-Nov-96	10 U
<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	0.06 J
GPT69-01 - GWT69-01	14-Jul-95	0.5 U
GPT69-02 - GWT69-2	7-Jul-95	0.5 U
GPT69-02 - GWT69-2	7-Jul-95	2 U
GPT69-03 - GWT69-03	14-Jul-95	0.5 U
GPT69-03 - GWT69-03	14-Jul-95	2 U
GPT69-04 - GWT69-04	17-Jul-95	0.5 U
GPT69-04 - GWT69-04	17-Jul-95	2 U
WT69-1 - WT69-1	11-Aug-95	0.5 U
WT69-1 - WT69-1	11-Aug-95	10 U
WT69-1 - WT69-1	21-Feb-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	0.5 U
WT69-1 - WT69-1	19-Nov-96	0.5 U
WT69-1 - WT69-1	27-Aug-99	1 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GWT69-2	7-Jul-95	10 U
WT69-1 - WT69-1	21-Aug-96	10 U
WT69-1 - WT69-1	19-Nov-96	10 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
WT69-1 - WT69-1	11-Aug-95	100 U
WT69-1 - WT69-1	21-Feb-96	100 U
WT69-1 - WT69-1	21-Aug-96	100 U
WT69-1 - WT69-1	19-Nov-96	100 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	0.5 U
GPT69-01 - GWT69-01	14-Jul-95	2 U
GPT69-02 - GWT69-2	7-Jul-95	0.5 U
GPT69-02 - GWT69-2	7-Jul-95	2 U
GPT69-03 - GWT69-03	14-Jul-95	0.5 U
GPT69-03 - GWT69-03	14-Jul-95	2 U

TABLE 24 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-04 - GWT69-04	17-Jul-95	0.5 U
GPT69-04 - GWT69-04	17-Jul-95	2 U
WT69-1 - WT69-1	11-Aug-95	0.5 U
WT69-1 - WT69-1	11-Aug-95	10 U
WT69-1 - WT69-1	21-Feb-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	2 U
WT69-1 - WT69-1	19-Nov-96	0.5 U
WT69-1 - WT69-1	27-Aug-99	1 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
WT69-1 - WT69-1	11-Aug-95	50 U
WT69-1 - WT69-1	21-Feb-96	50 U
WT69-1 - WT69-1	21-Aug-96	50 U
WT69-1 - WT69-1	19-Nov-96	50 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
WT69-1 - WT69-1	11-Aug-95	100 U
WT69-1 - WT69-1	21-Feb-96	100 U
WT69-1 - WT69-1	21-Aug-96	100 U
WT69-1 - WT69-1	19-Nov-96	100 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
WT69-1 - WT69-1	11-Aug-95	100 U
WT69-1 - WT69-1	21-Aug-96	100 U
<b>Chemical Name: METHYL-TERTIARY-BUTYL-ETHER</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT69-1 - WT69-1	27-Aug-99	10 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	500 U

TABLE 24 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69

GROUNDWATER DATA  
(Concentrations in micrograms per liter)

<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GWT69-2	7-Jul-95	500 U
GPT69-03 - GWT69-03	14-Jul-95	500 U
GPT69-04 - GWT69-04	17-Jul-95	500 U
WT69-1 - WT69-1	11-Aug-95	52 J
WT69-1 - WT69-1	21-Feb-96	140 Z
WT69-1 - WT69-1	21-Aug-96	100 U
WT69-1 - WT69-1	19-Nov-96	100 U
<b>Chemical Name: NAPHTHALENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-02 - GWT69-2	7-Jul-95	10 U
WT69-1 - WT69-1	21-Aug-96	10 U
WT69-1 - WT69-1	19-Nov-96	10 U
<b>Chemical Name: OTHER HEAVY TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	50 U
GPT69-02 - GWT69-2	7-Jul-95	50 U
GPT69-03 - GWT69-03	14-Jul-95	50 U
GPT69-04 - GWT69-04	17-Jul-95	50 U
<b>Chemical Name: TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	0.5 U
GPT69-01 - GWT69-01	14-Jul-95	2 U
GPT69-02 - GWT69-2	7-Jul-95	0.5 U
GPT69-02 - GWT69-2	7-Jul-95	2 U
GPT69-03 - GWT69-03	14-Jul-95	0.5 U
GPT69-03 - GWT69-03	14-Jul-95	2 U
GPT69-04 - GWT69-04	17-Jul-95	0.5 U
GPT69-04 - GWT69-04	17-Jul-95	2 U
WT69-1 - WT69-1	11-Aug-95	0.5 U
WT69-1 - WT69-1	11-Aug-95	10 U
WT69-1 - WT69-1	21-Feb-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	2 U
WT69-1 - WT69-1	19-Nov-96	0.5 U
WT69-1 - WT69-1	27-Aug-99	1 U

TABLE 24 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 69  
GROUNDWATER DATA

(Concentrations in micrograms per liter)

Chemical Name: XYLENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT69-01 - GWT69-01	14-Jul-95	0.5 U
GPT69-01 - GWT69-01	14-Jul-95	2 U
GPT69-02 - GWT69-2	7-Jul-95	0.5 U
GPT69-02 - GWT69-2	7-Jul-95	2 U
GPT69-03 - GWT69-03	14-Jul-95	0.5 U
GPT69-03 - GWT69-03	14-Jul-95	2 U
GPT69-04 - GWT69-04	17-Jul-95	0.5 U
GPT69-04 - GWT69-04	17-Jul-95	2 U
WT69-1 - WT69-1	11-Aug-95	0.5 U
WT69-1 - WT69-1	11-Aug-95	10 U
WT69-1 - WT69-1	21-Feb-96	0.5 U
WT69-1 - WT69-1	21-Aug-96	1 U
WT69-1 - WT69-1	21-Aug-96	2 U
WT69-1 - WT69-1	19-Nov-96	0.5 U
WT69-1 - WT69-1	27-Aug-99	1 U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Z - Unknown single peaks or patterns were detected but did not resemble a typical fuel pattern.
- Dup - Duplicate sample

TABLE 25

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 77  
SOIL DATA

(Concentrations in milligrams per kilogram)

Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
77-E-8	8	27-Apr-95	1 U

Notes:

- 1 - Feet below ground surface (exact depth unknown)

**TABLE 26****MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 77****GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name:</b> BENZENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	0.51
<b>Chemical Name:</b> DIESEL-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	62
<b>Chemical Name:</b> ETHYLBENZENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	0.5
<b>Chemical Name:</b> GASOLINE-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	50
<b>Chemical Name:</b> MOTOR OIL-RANGE ORGANIC COMPOUNDS		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	16
<b>Chemical Name:</b> TOLUENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	0.56
<b>Chemical Name:</b> XYLENE		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
77-W-8	27-Apr-95	1.4

TABLE 27

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 78  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 78(N)	10	07-Jan-93	0.005 U
Tank 78(S)	10	07-Jan-93	0.005 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 78(N)	10	07-Jan-93	0.005 U
Tank 78(S)	10	07-Jan-93	0.005 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 78(N)	10	07-Jan-93	1 U
Tank 78(S)	10	07-Jan-93	1 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 78(N)	10	07-Jan-93	0.005 U
Tank 78(S)	10	07-Jan-93	0.005 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 78(N)	10	07-Jan-93	0.005 U
Tank 78(S)	10	07-Jan-93	0.005 U

Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- 1 - Feet below ground surface (exact depth unknown)

TABLE 28

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 86A AND 86B  
SOIL DATA**

(Concentration in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	0.066 U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.00059 U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.012 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.00056 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.011 U
86AN-301-0130	UNKNOWN	7-Jan-93	0.005 U
86AS-301-0131	UNKNOWN	7-Jan-93	0.005 U
86BN-301-0132	UNKNOWN	7-Jan-93	0.005 U
86BS-301-0133	UNKNOWN	7-Jan-93	0.005 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	12 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	11 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	0.066 U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.00059 U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.012 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.00056 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.011 U
86AN-301-0130	UNKNOWN	7-Jan-93	0.005 U
86AS-301-0131	UNKNOWN	7-Jan-93	0.005 U
86BN-301-0132	UNKNOWN	7-Jan-93	0.005 U
86BS-301-0133	UNKNOWN	7-Jan-93	0.005 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	13 U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.59 UJ-S
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.56 UJ-S
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	12 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	11 U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	12 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	11 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	12 U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	11 U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	190 Y

**TABLE 28 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 86A AND 86B  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name:</b> TOLUENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	0.066	U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.00059	U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.012	U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.00056	U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.011	U
86AN-301-0130	UNKNOWN	7-Jan-93	0.005	U
86AS-301-0131	UNKNOWN	7-Jan-93	0.005	U
86BN-301-0132	UNKNOWN	7-Jan-93	0.005	U
86BS-301-0133	UNKNOWN	7-Jan-93	0.005	U

<b>Chemical Name:</b> XYLENE				
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GPT86B-1(9.5)	9.5	27-Jun-95	0.066	U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.00059	U
SBT86B-3 - SBT86B-3-1(5.5-6.0)	5.5	20-Feb-96	0.012	U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.00056	U
SBT86B-3 - SBT86B-3-3(8.5-9.0)	8.5	20-Feb-96	0.011	U
86AN-301-0130	UNKNOWN	7-Jan-93	0.005	U
86AS-301-0131	UNKNOWN	7-Jan-93	0.005	U
86BN-301-0132	UNKNOWN	7-Jan-93	0.005	U
86BS-301-0133	UNKNOWN	7-Jan-93	0.005	U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- S - Value is estimated because the surrogate recovery was out of quality control limits.
- U - Analyzed for but not detected (reported value is detection limit)
- Y - Pattern does not match calibration fuel pattern but resembles fuel pattern.
- Dup - Duplicate sample
- 1 - Feet below ground surface

TABLE 29

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 86A AND 86B  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

<b>Chemical Name: 2-METHYLNAPHTHALENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GWT86B-1	28-Jun-95	12 U
GPT86B-2 - GWT86B-2	28-Jun-95	10 U
WT86B-1 - WT86B-1	22-Feb-96	10 U
<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GWT86B-1	27-Jun-95	0.4 J-S
GPT86B-1 - GWT86B-1	27-Jun-95	0.5 U
GPT86B-2 - GWT86B-2	27-Jun-95	0.1 J
GPT86B-2 - GWT86B-2	27-Jun-95	0.5 U
WT86B-1 - WT86B-1	22-Feb-96	28 J-S
WT86B-1 - WT86B-1	20-Aug-96	0.5 U
WT86B-1 - WT86B-1	18-Nov-96	0.5 U
WT86B-1 - WT86B-1	18-Feb-97	0.5 U
WT86B-1 - WT86B-1	23-May-97	3
WT86B-1 - WT86B-1	25-Aug-99	1 U
WT86B-1 - WT86B-1SP	18-Feb-97	0.5 U
<b>Chemical Name: BENZO(A)PYRENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GWT86B-1	28-Jun-95	12 U
GPT86B-2 - GWT86B-2	28-Jun-95	10 U
WT86B-1 - WT86B-1	22-Feb-96	10 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
WT86B-1 - WT86B-1	20-Aug-96	100 U
WT86B-1 - WT86B-1	18-Nov-96	100 U
WT86B-1 - WT86B-1	18-Feb-97	100 U
WT86B-1 - WT86B-1	23-May-97	90 U
WT86B-1 - WT86B-1SP	18-Feb-97	100 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
GPT86B-1 - GWT86B-1	27-Jun-95	0.2 J-S
GPT86B-1 - GWT86B-1	27-Jun-95	0.5 U
GPT86B-2 - GWT86B-2	27-Jun-95	0.5 U
GPT86B-2 - GWT86B-2	27-Jun-95	2 U
WT86B-1 - WT86B-1	22-Feb-96	0.6 J-S
WT86B-1 - WT86B-1	22-Feb-96	1.3 J-S
WT86B-1 - WT86B-1	20-Aug-96	0.5 U
WT86B-1 - WT86B-1	20-Aug-96	2 U
WT86B-1 - WT86B-1	18-Nov-96	0.5 U
WT86B-1 - WT86B-1	18-Feb-97	0.5 U
WT86B-1 - WT86B-1	23-May-97	0.3 J
WT86B-1 - WT86B-1	25-Aug-99	1 U

TABLE 29 (Continued)

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 86A AND 86B  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT86B-1 - WT86B-1SP	18-Feb-97	0.5	U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GWT86B-1	27-Jun-95	50	U
GPT86B-2 - GWT86B-2	27-Jun-95	50	U
WT86B-1 - WT86B-1	22-Feb-96	910	J-S
WT86B-1 - WT86B-1	20-Aug-96	33	JZ
WT86B-1 - WT86B-1	18-Nov-96	50	U
WT86B-1 - WT86B-1	18-Feb-97	50	U
WT86B-1 - WT86B-1	23-May-97	50	U
WT86B-1 - WT86B-1SP	18-Feb-97	46	J
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT86B-1 - WT86B-1	20-Aug-96	100	U
WT86B-1 - WT86B-1	18-Nov-96	100	U
WT86B-1 - WT86B-1	18-Feb-97	100	U
WT86B-1 - WT86B-1	23-May-97	500	U
WT86B-1 - WT86B-1SP	18-Feb-97	100	U
<b>Chemical Name: KEROSENE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT86B-1 - WT86B-1	20-Aug-96	100	U
<b>Chemical Name: METHYL-TERTIARY-BUTYL-ETHER</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT86B-1 - WT86B-1	23-May-97	1	U
WT86B-1 - WT86B-1	25-Aug-99	10	U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
WT86B-1 - WT86B-1	20-Aug-96	100	U
WT86B-1 - WT86B-1	18-Nov-96	100	U
WT86B-1 - WT86B-1	18-Feb-97	100	U
WT86B-1 - WT86B-1	23-May-97	500	U
WT86B-1 - WT86B-1SP	18-Feb-97	100	U
<b>Chemical Name: NAPHTHALENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GWT86B-1	28-Jun-95	12	U
GPT86B-2 - GWT86B-2	28-Jun-95	10	U
WT86B-1 - WT86B-1	22-Feb-96	10	U
<b>Chemical Name: OTHER LIGHT TPH COMPONENTS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GWT86B-1	27-Jun-95	5900	Y
GPT86B-2 - GWT86B-2	27-Jun-95	50	U

**TABLE 29 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANKS 86A AND 86B  
GROUNDWATER DATA**

**(Concentrations in micrograms per liter)**

<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GWT86B-1	27-Jun-95	0.4	J-S
GPT86B-1 - GWT86B-1	27-Jun-95	0.5	U
GPT86B-2 - GWT86B-2	27-Jun-95	0.5	U
GPT86B-2 - GWT86B-2	27-Jun-95	2	U
WT86B-1 - WT86B-1	22-Feb-96	0.5	UJ-S
WT86B-1 - WT86B-1	20-Aug-96	0.5	U
WT86B-1 - WT86B-1	20-Aug-96	2	U
WT86B-1 - WT86B-1	18-Nov-96	0.5	U
WT86B-1 - WT86B-1	18-Feb-97	0.5	U
WT86B-1 - WT86B-1	23-May-97	1	U
WT86B-1 - WT86B-1	25-Aug-99	1	U
WT86B-1 - WT86B-1SP	18-Feb-97	0.3	J
WT86B-1 - WT86B-1SP	18-Feb-97	0.5	U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
GPT86B-1 - GWT86B-1	27-Jun-95	0.3	J-S
GPT86B-1 - GWT86B-1	27-Jun-95	6	
GPT86B-2 - GWT86B-2	27-Jun-95	0.5	U
GPT86B-2 - GWT86B-2	27-Jun-95	2	U
WT86B-1 - WT86B-1	22-Feb-96	0.5	UJ-S
WT86B-1 - WT86B-1	20-Aug-96	1	U
WT86B-1 - WT86B-1	20-Aug-96	2	U
WT86B-1 - WT86B-1	18-Nov-96	0.5	U
WT86B-1 - WT86B-1	18-Feb-97	0.5	U
WT86B-1 - WT86B-1	18-Feb-97	1.5	U
WT86B-1 - WT86B-1	23-May-97	0.3	J
WT86B-1 - WT86B-1	25-Aug-99	1	U
WT86B-1 - WT86B-1SP	18-Feb-97	0.5	U
WT86B-1 - WT86B-1SP	18-Feb-97	1.5	U

**Notes:**

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Z - Unknown single peaks or patterns were detected but did not resemble a typical fuel pattern.
- Dup - Duplicate sample

**TABLE 30**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 88  
SOIL DATA**

**(Concentration in milligrams per kilogram)**

<b>Chemical Name: TOTAL PETROLEUM HYDROCARBONS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
Tank 88(E)	6	18-Dec-92	1 U
Tank 88(W)	6	18-Dec-92	1 U

Notes:

1 - Feet below ground surface (exact depth unknown)

TABLE 31

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 106  
GROUNDWATER DATA**

(Concentrations in micrograms per liter)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	0.5	U-X
UST106-SB-02	30-Aug-99	0.5	U-X
UST106-SB-03	30-Aug-99	0.5	U-X
UST106-SB-04	30-Aug-99	0.5	U-X
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	100	JY-X
UST106-SB-02	30-Aug-99	60	JZ-X
UST106-SB-03	30-Aug-99	100	Z-X
UST106-SB-04	30-Aug-99	60	JZ-X
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	0.5	U-X
UST106-SB-02	30-Aug-99	0.5	U-X
UST106-SB-03	30-Aug-99	0.5	U-X
UST106-SB-04	30-Aug-99	0.5	U-X
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	50	U-X
UST106-SB-02	30-Aug-99	50	U-X
UST106-SB-03	30-Aug-99	50	U-X
UST106-SB-04	30-Aug-99	50	U-X
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	100	U-X
UST106-SB-02	30-Aug-99	100	U-X
UST106-SB-03	30-Aug-99	100	U-X
UST106-SB-04	30-Aug-99	100	U-X
<b>Chemical Name: METHYL TERTIARY BUTYL ETHER</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-02	30-Aug-99	1	U-X
UST106-SB-03	30-Aug-99	1	U-X
UST106-SB-04	30-Aug-99	1	U-X
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	100	U
UST106-SB-02	30-Aug-99	100	U
UST106-SB-03	30-Aug-99	100	U
UST106-SB-04	30-Aug-99	100	U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	0.5	U
UST106-SB-02	30-Aug-99	0.5	U
UST106-SB-03	30-Aug-99	0.5	U
UST106-SB-04	30-Aug-99	0.5	U

**TABLE 31 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 106  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name:</b>	<b>XYLENES (TOTAL)</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST106-SB-01	30-Aug-99	1	U
UST106-SB-02	30-Aug-99	1	U
UST106-SB-03	30-Aug-99	1	U
UST106-SB-04	30-Aug-99	1	U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Y - Pattern does not match calibration fuel pattern of diesel but resembles fuel pattern.
- Z - Unknown single peaks or patterns were detected but did not resemble a typical fuel pattern.

TABLE 32

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 110  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
065037-14	Unknown	05-Apr-94	0.1 U
065037-15	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
065037-14	Unknown	12-Apr-94	1 U
065037-15	Unknown	12-Apr-94	1 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
065037-14	Unknown	05-Apr-94	0.1 U
065037-15	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
065037-14	Unknown	05-Apr-94	0.1 U
065037-15	Unknown	05-Apr-94	0.1 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u>	<u>Sample Date</u>	<u>Concentration</u>
065037-14	Unknown	05-Apr-94	0.1 U
065037-15	Unknown	05-Apr-94	0.1 U

Notes:

U - Analyzed for but not detected (reported value is detection limit)

TABLE 33

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 111  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	0.005 U
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.007 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.007 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.007 U
<b>Chemical Name: BENZO(A)PYRENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.0028 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.0028 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.0028 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	64.1
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	14 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	15 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	12 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	0.005 U
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.007 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.007 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.007 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	0.13
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.7 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.7 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.7 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	14 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	15 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	12 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	14 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	12 JY
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	12 U
<b>Chemical Name: NAPHTHALENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.07 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.07 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.07 U

**TABLE 33 (Continued)**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 111  
SOIL DATA**

**(Concentrations in milligrams per kilogram)**

<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	0.005 U
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.007 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.007 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.007 U
<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK111-SP-001	9.0	1-Nov-95	0.005 U
UST111-SB-01(1.0-2.0)	1.0-2.0	25-Aug-99	0.014 U
UST111-SB-01(4.0-5.0)	4.0-5.0	25-Aug-99	0.014 U
UST111-SB-01(9.0-10.0)	9.0-10.0	25-Aug-99	0.014 U

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Y - Pattern does not match calibration fuel pattern of diesel but resembles fuel pattern.
- <sup>1</sup> - Feet below ground surface

TABLE 34

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 111  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	0.5 U
UST111-SB-02	25-Aug-99	0.5 U
UST111-SB-03	24-Aug-99	0.5 U
UST111-SB-04	24-Aug-99	0.5 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	100 U
UST111-SB-02	25-Aug-99	100 U
UST111-SB-03	24-Aug-99	100 U
UST111-SB-04	24-Aug-99	100 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	0.5 U
UST111-SB-02	25-Aug-99	0.5 U
UST111-SB-03	24-Aug-99	0.5 U
UST111-SB-04	24-Aug-99	0.5 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	50 U
UST111-SB-02	25-Aug-99	50 U
UST111-SB-03	24-Aug-99	50 U
UST111-SB-04	24-Aug-99	50 U
<b>Chemical Name: JP5-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	100 U
UST111-SB-02	25-Aug-99	100 U
UST111-SB-03	24-Aug-99	100 U
UST111-SB-04	24-Aug-99	100 U
<b>Chemical Name: METHYL TERTIARY BUTYL ETHER</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	1 U
UST111-SB-02	25-Aug-99	1 U
UST111-SB-03	24-Aug-99	1 U
UST111-SB-04	24-Aug-99	1 U
<b>Chemical Name: MOTOR OIL-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	100 U
UST111-SB-02	25-Aug-99	100 U
UST111-SB-03	24-Aug-99	100 U
UST111-SB-04	24-Aug-99	100 U
<b>Chemical Name: TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST111-SB-01	25-Aug-99	0.5 U
UST111-SB-02	25-Aug-99	0.5 U
UST111-SB-03	24-Aug-99	0.5 U
UST111-SB-04	24-Aug-99	0.5 U

TABLE 34 (Continued)

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 111  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

Chemical Name: XYLENES (TOTAL)			
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>	
UST111-SB-01	25-Aug-99	1	U
UST111-SB-02	25-Aug-99	1	U
UST111-SB-03	24-Aug-99	1	U
UST111-SB-04	24-Aug-99	4.4	

Notes:

- J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
- U - Analyzed for but not detected (reported value is detection limit)
- Y - Pattern does not match calibration fuel pattern of diesel but resembles fuel pattern.
- Z - Unknown single peaks or patterns were detected but did not resemble a typical fuel pattern.

TABLE 35

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 116  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	0.005 U
TK116-EX-002	9.0	1-Nov-95	0.005 U
TK116-EX-003	9.0	1-Nov-95	0.005 U
UST116-SB-01(1.0-2.0)	1.0-2.0	26-Aug-99	0.007 U
UST116-SB-01(4.0-5.0)	4.0-5.0	26-Aug-99	0.007 U
<b>Chemical Name: DIESEL-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	19.3
TK116-EX-002	9.0	1-Nov-95	49.4
TK116-EX-003	9.0	1-Nov-95	371
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	0.0056
TK116-EX-002	9.0	1-Nov-95	0.0015
TK116-EX-003	9.0	1-Nov-95	0.005 U
UST116-SB-01(1.0-2.0)	1.0-2.0	26-Aug-99	0.007 U
UST116-SB-01(4.0-5.0)	4.0-5.0	26-Aug-99	0.007 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	5.1
TK116-EX-002	9.0	1-Nov-95	0.065
TK116-EX-003	9.0	1-Nov-95	0.05 U
UST116-SB-01(1.0-2.0)	1.0-2.0	26-Aug-99	0.7 U
UST116-SB-01(4.0-5.0)	4.0-5.0	26-Aug-99	0.7 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	0.0113
TK116-EX-002	9.0	1-Nov-95	0.0019
TK116-EX-003	9.0	1-Nov-95	0.005 U
UST116-SB-01(1.0-2.0)	1.0-2.0	26-Aug-99	0.007 U
UST116-SB-01(4.0-5.0)	4.0-5.0	26-Aug-99	0.007 U
<b>Chemical Name: XYLENES (TOTAL)</b>			
<u>Location/Sample ID</u>	<u>Sample Depth<sup>1</sup></u>	<u>Sample Date</u>	<u>Concentration</u>
TK116-EX-001	9.0	1-Nov-95	0.0277
TK116-EX-002	9.0	1-Nov-95	0.0046
TK116-EX-003	9.0	1-Nov-95	0.005 U
UST116-SB-01(1.0-2.0)	1.0-2.0	26-Aug-99	0.014 U
UST116-SB-01(4.0-5.0)	4.0-5.0	26-Aug-99	0.014 U

## Notes:

- U - Analyzed for but not detected (reported value is detection limit)
- <sup>1</sup> - Feet below ground surface

**TABLE 36**

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 116  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)**

<b>Chemical Name: BENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	0.5 U
UST116-SB-02	26-Aug-99	0.5 U
UST116-SB-03	26-Aug-99	0.5 U
UST116-SB-04	26-Aug-99	0.5 U
<b>Chemical Name: ETHYLBENZENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	0.5 U
UST116-SB-02	26-Aug-99	0.5 U
UST116-SB-03	26-Aug-99	0.5 U
UST116-SB-04	26-Aug-99	0.5 U
<b>Chemical Name: GASOLINE-RANGE ORGANIC COMPOUNDS</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	50 U
UST116-SB-02	26-Aug-99	50 U
UST116-SB-03	26-Aug-99	50 U
UST116-SB-04	26-Aug-99	50 U
<b>Chemical Name: METHYL TERTIARY BUTYL ETHER</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	1 U
UST116-SB-02	26-Aug-99	1 U
UST116-SB-03	26-Aug-99	1 U
UST116-SB-04	26-Aug-99	1 U
<b>Chemical Name: TOLUENE</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	0.5 U
UST116-SB-02	26-Aug-99	0.5 U
UST116-SB-03	26-Aug-99	0.5 U
UST116-SB-04	26-Aug-99	0.5 U
<b>Chemical Name: XYLENES (TOTAL)</b>		
<u>Location/Sample ID</u>	<u>Sample Date</u>	<u>Concentration</u>
UST116-SB-01	26-Aug-99	1 U
UST116-SB-02	26-Aug-99	1 U
UST116-SB-03	26-Aug-99	1 U
UST116-SB-04	26-Aug-99	1 U

Notes:

U - Analyzed for but not detected (reported value is detection limit)

TABLE 37

**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 130  
SOIL DATA**

(Concentrations in milligrams per kilogram)

<b>Chemical Name: BENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP65-1 (5.0-7.0)	5.0-7.0	31-Jan-94	11 U
GP65-1 (9.0-11.0)	9.0-11.0	31-Jan-94	12 U
GP65-2 (5.0-7.0)	5.0-7.0	01-Feb-94	11 U
GP65-2 (9.0-11.0)	9.0-11.0	01-Feb-94	12 U
<b>Chemical Name: ETHYLBENZENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP65-1 (5.0-7.0)	5.0-7.0	31-Jan-94	11 U
GP65-1 (9.0-11.0)	9.0-11.0	31-Jan-94	12 U
GP65-2 (5.0-7.0)	5.0-7.0	01-Feb-94	11 U
GP65-2 (9.0-11.0)	9.0-11.0	01-Feb-94	12 U
<b>Chemical Name: TOLUENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP65-1 (5.0-7.0)	5.0-7.0	31-Jan-94	11 U
GP65-1 (9.0-11.0)	9.0-11.0	31-Jan-94	12 U
GP65-2 (5.0-7.0)	5.0-7.0	01-Feb-94	11 U
GP65-2 (9.0-11.0)	9.0-11.0	01-Feb-94	12 U
<b>Chemical Name: XYLENE</b>			
<u>Location/Sample ID</u>	<u>Sample Depth</u> <sup>1</sup>	<u>Sample Date</u>	<u>Concentration</u>
GP65-1 (5.0-7.0)	5.0-7.0	31-Jan-94	11 U
GP65-1 (9.0-11.0)	9.0-11.0	31-Jan-94	12 U
GP65-2 (5.0-7.0)	5.0-7.0	01-Feb-94	11 U
GP65-2 (9.0-11.0)	9.0-11.0	01-Feb-94	12 U

## Notes:

- 1 - Feet below ground surface (exact depth unknown)

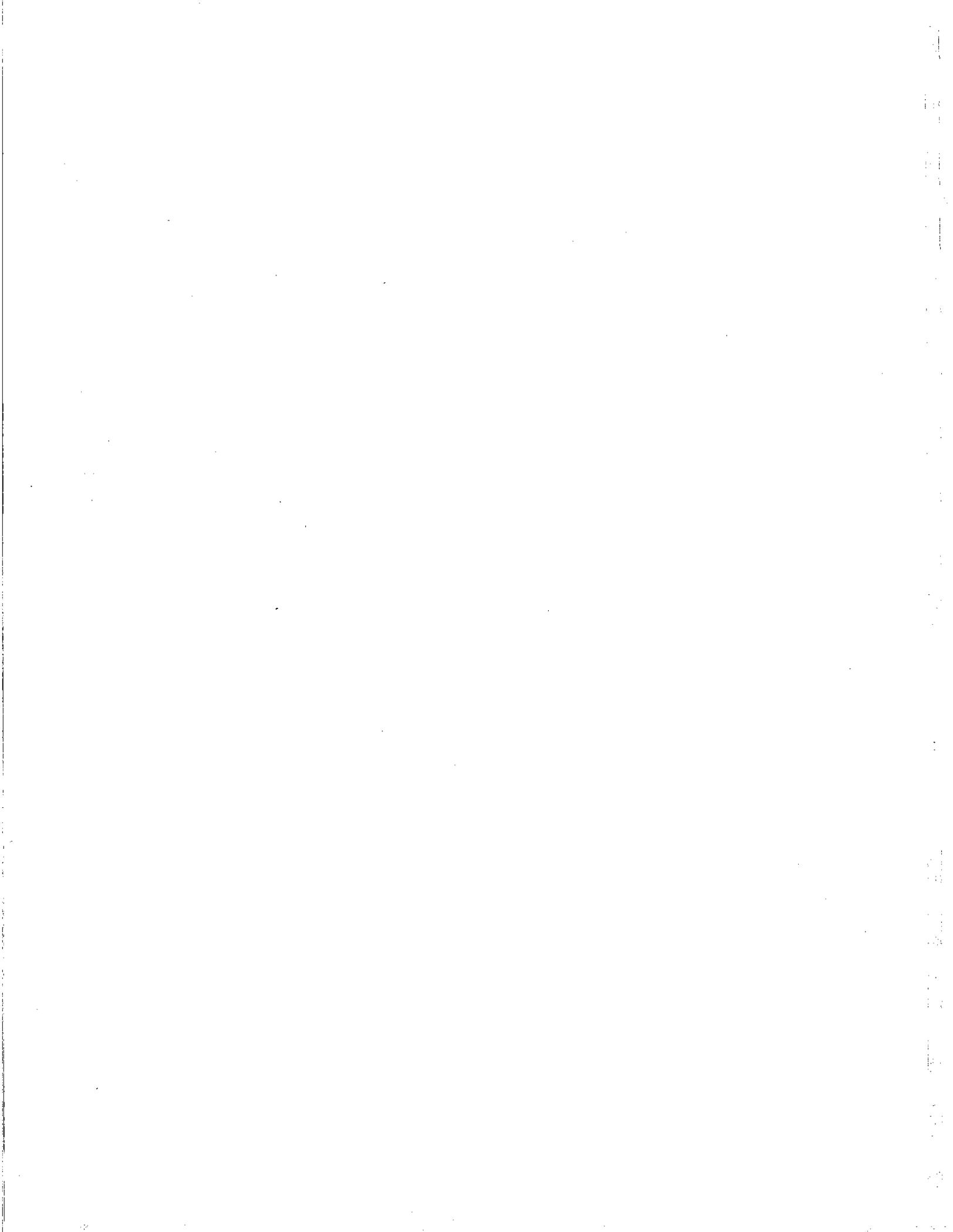
TABLE 38

MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
TANK 130  
GROUNDWATER DATA  
(Concentrations in micrograms per liter)

<b>Chemical Name:</b> BENZENE		
<u>Location/Sample ID</u> HP65-1 (5.0-7.0)	<u>Sample Date</u> 31-Jan-94	<u>Concentration</u> 2 U
<b>Chemical Name:</b> ETHYLBENZENE		
<u>Location/Sample ID</u> HP65-1 (5.0-7.0)	<u>Sample Date</u> 31-Jan-94	<u>Concentration</u> 2 U
<b>Chemical Name:</b> TOLUENE		
<u>Location/Sample ID</u> HP65-1 (5.0-7.0)	<u>Sample Date</u> 31-Jan-94	<u>Concentration</u> 2 U
<b>Chemical Name:</b> XYLENE		
<u>Location/Sample ID</u> HP65-1 (5.0-7.0)	<u>Sample Date</u> 31-Jan-94	<u>Concentration</u> 2 U

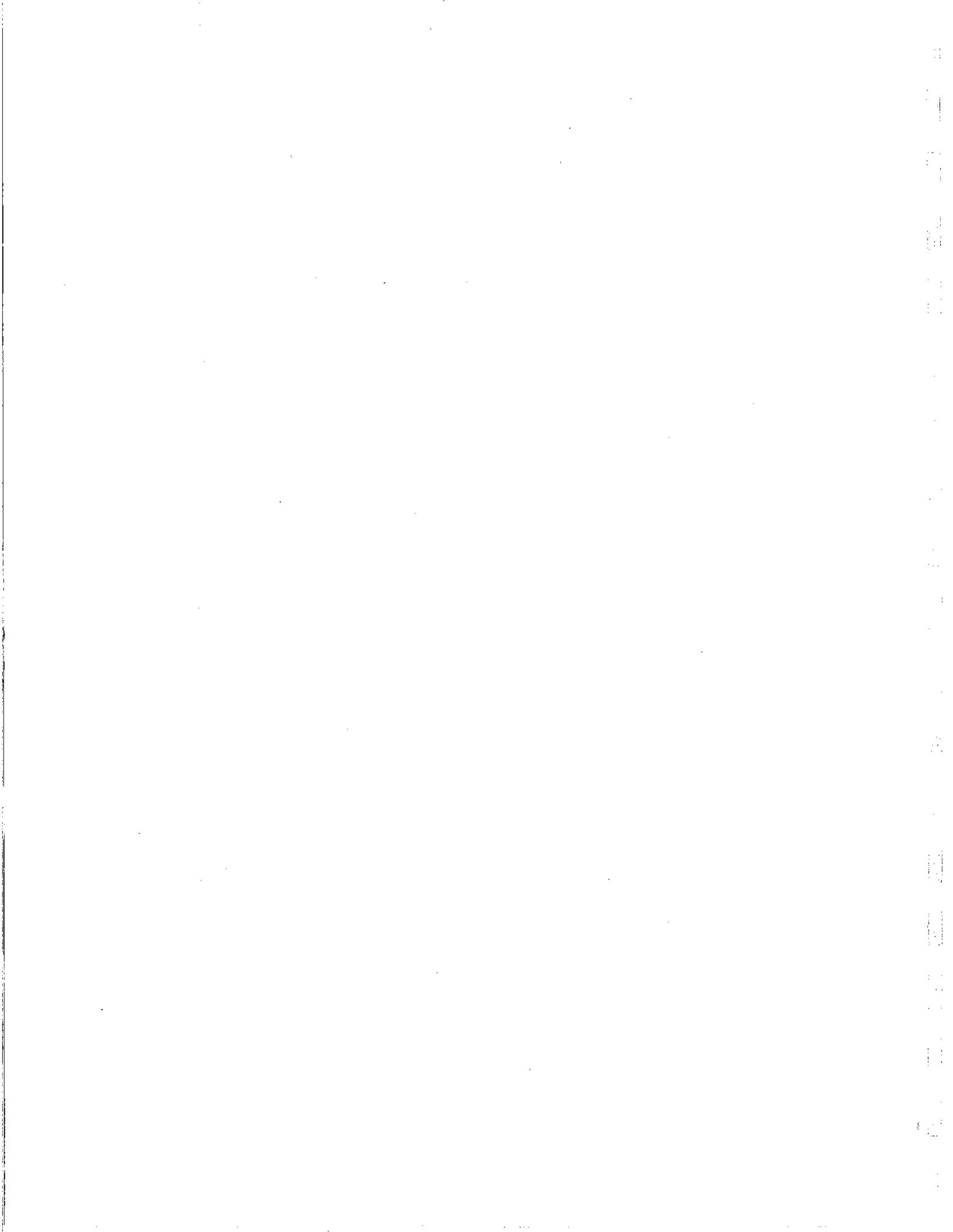
Notes:

U - Analyzed for but not detected (reported value is detection limit)



**APPENDIX A**

**SOIL BOREHOLE LOGS AND MONITORING WELL COMPLETION DIAGRAMS**

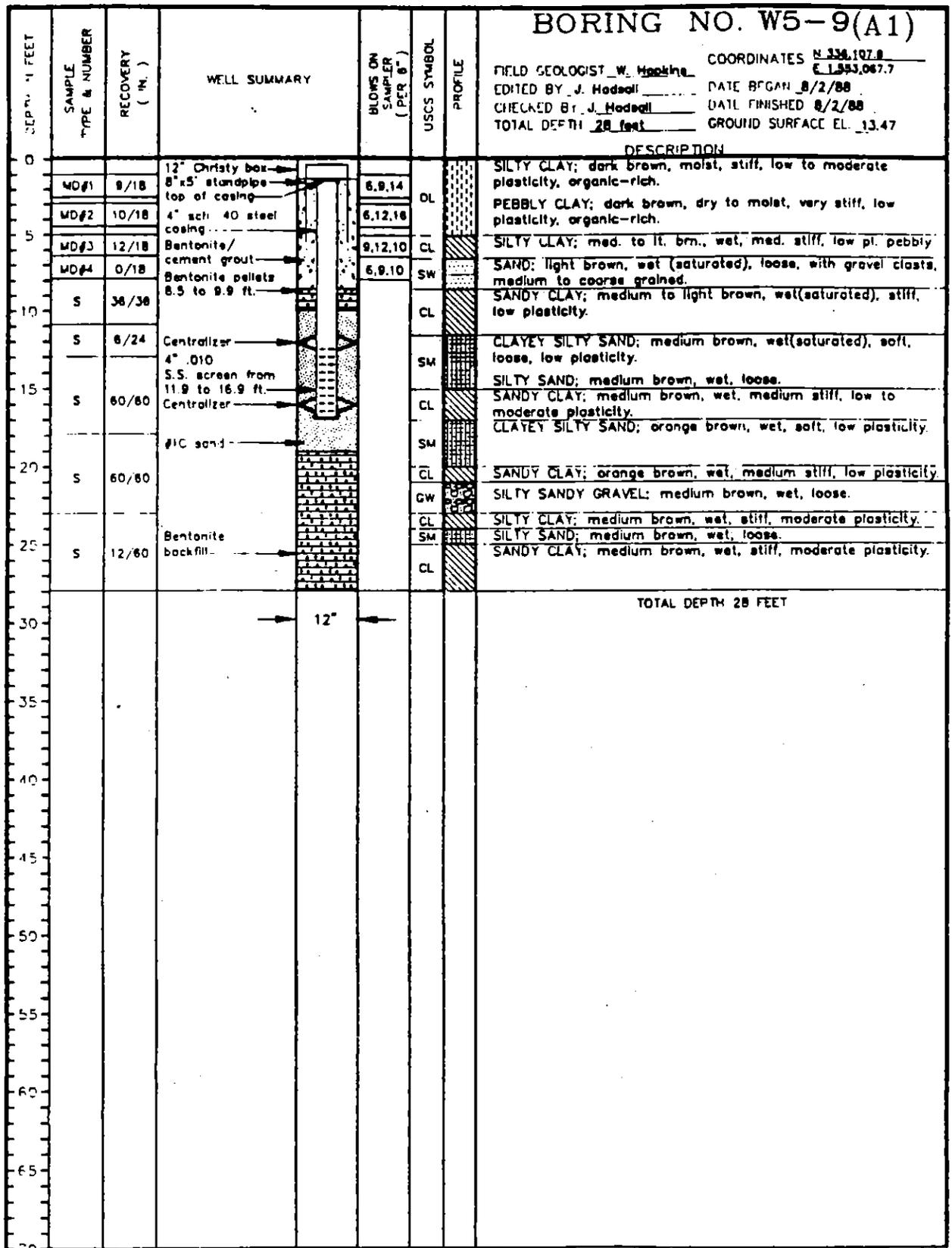


**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SOIL BOREHOLE AND CORRESPONDING MONITORING WELL LIST**

<b>Tank(s)</b>	<b>Soil Borehole Identification</b>	<b>Corresponding Monitoring Well</b>
15	--	--
18	W5-9	W5-09
22	SBT22-1	WT22-1
28	--	--
30 and 31	--	--
41B	--	--
54	--	--
55	SBT55-1	WT55-1
57	SBT57-1	WT57-1
59	--	--
62 and 62A	--	--
63	--	--
64	WNB-9	WNB-9
66, 67, 68, and 91	W9-12 W9-17 W9-37 ERM B14 W67-1 SB68-1 W68-1 SBS91-001 SB9SC-15 SB9SC-17	W9-12 W9-17 W9-37 ERM-4 W67-1 NA W68-1 W91-1 W9SC-15 NA
69	SBT69-2	WT69-1
77	--	--
78	--	--
86A and 86B	--	--
88	--	--
106	UST106-GP-01 UST106-GP-02 UST106-GP-03 UST106-GP-04	NA NA NA NA
110	--	--
111	UST111-GP-01 UST111-GP-02 UST111-GP-03 UST111-GP-04	NA NA NA NA
116	UST116-GP-01 UST116-GP-02 UST116-GP-03 UST116-GP-04	NA NA NA NA
130	--	--

**Notes:**

- Soil borehole logs do not exist for this tank and no monitoring wells exist for this tank
- NA Monitoring well not installed in this borehole



DRILLING CO.: Water Development Co.  
 DRILLING METHOD: CME 75 Hollow Stem Auger

SAMPLING METHODS: MD=California Modified  
 S=Split Barrel

PROJECT NO.: 409616  
 CLIENT: Moffett Naval Air Station  
 Moffett Field, California



...Creating a Safer Tomorrow

SEE LEGEND FOR LOGS AND TEST PITS  
 FOR EXPLANATION OF SYMBOLS AND TERMS



Job Number: 044-0267IRSIFW Well Designation: MWT55-1

Borehole Designation: SBT55-1

Client: U.S. NAVY

Surface Elevation:

Site: Moffett Federal Airfield Subsite: Old Runway Radar

Geologist: Don McHugh

Drilling Date (s): 8-8-95

Well Installation Date (s): 8-8-95

Drilling Company: SES Personnel: Paul & Thomas

Drilling Method: HSA with 18-inch split spoon sampler

Borehole Diameter: 6 inches Casing Diameter: 2 inches Casing Material: Schedule 40 PVC

Screen Diameter: 2 inches Screen Opening: 0.02 inches Screen Material: Schedule 40 PVC

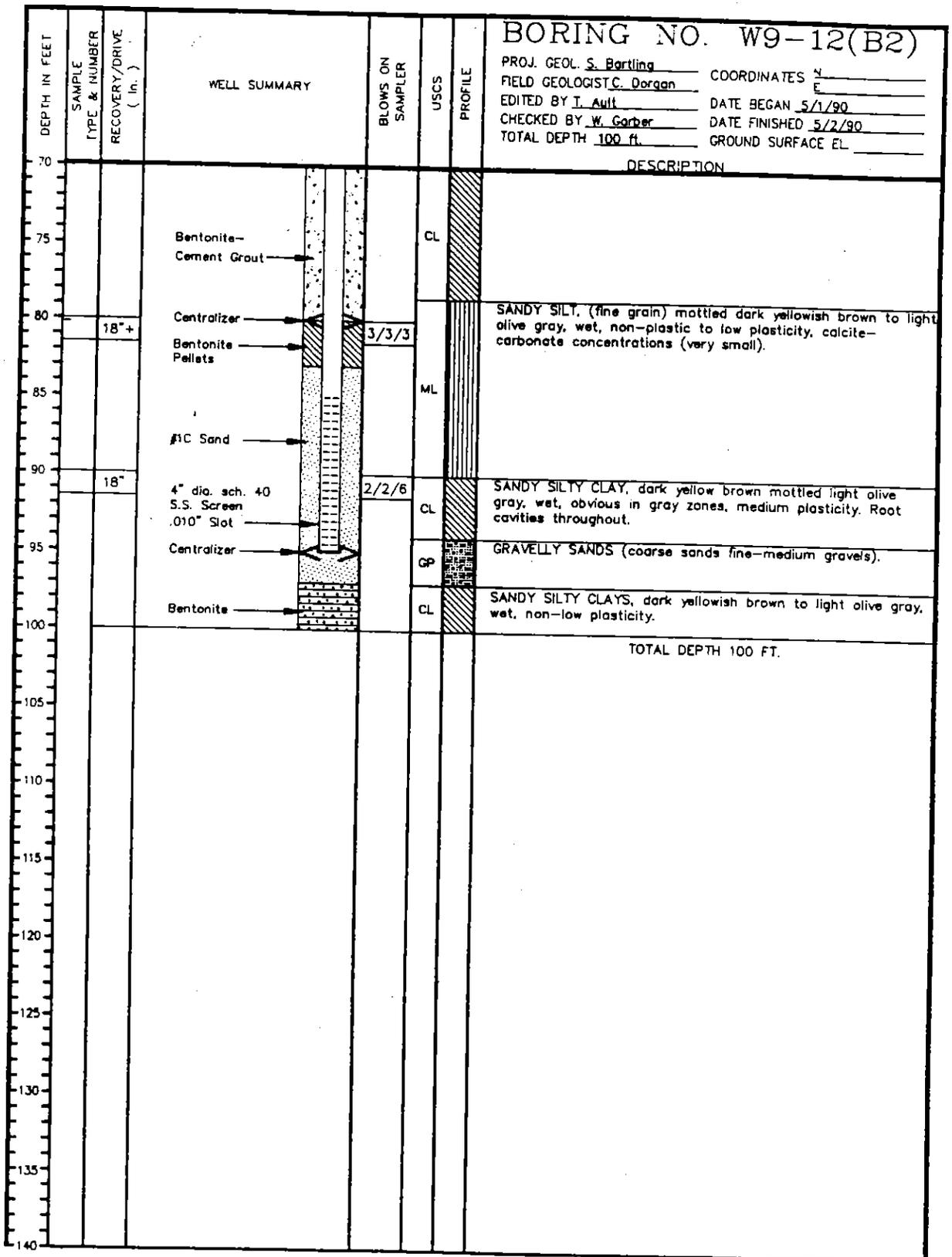
Screen Interval: 5 to 10 feet bgs Filterpack Interval: 3.5 to 10 feet bgs Bentonite Seal: 2 to 3.5 feet bgs

Grout Interval: 0 to 2 feet bgs Protective Cover: Flush Mount Elevation of TOC: 11.01

Latitude: 335980.12 Longitude: 1550785.79

DEPTH (FT)	BLOWS/6 in	RECOVERY	TIME	FIELD SCREENING	ANALYSIS	START OF CORE INTERVAL	GRAPHIC LOG	SOIL DESCRIPTION	WELL DIAGRAM
			1155				SM	SILTY SAND; dark brown, moist, fine to medium, some gravel, micaceous.	
5	3/6/8	18/18	1158		Geotech.	5.5	SC	SANDY CLAY; dark brown, moist, trace silt and gravel, low plasticity.	
	2/3/4	6/18	1202		TPH/BTEX	7.0		Moisture content increasing with depth.	
10								Becomes saturated.	
15								BORING TERMINATED at 10' bgs. Converted to 2" PVC Monitoring Well.	





DRILLING CO.: Water Development  
 DRILL METHOD: Air Rotary with Drive Casing

PROJECT NO.: 409700  
 CLIENT: Moffett Naval Air Station  
 LOCATION: Moffett Field, California

SEE LEGEND FOR LOGS AND TEST PITS  
 FOR EXPLANATION OF SYMBOLS AND TERMS



# HTW DRILLING LOG

<b>HTW DRILLING LOG</b>					HOLE NO. <b>WNB-9</b>			
1. COMPANY NAME <b>JAMES M. MONTGOMERY, INC.</b>			2. DRILLING SUBCONTRACTOR <b>Water Development Corporation</b>			SHEET <b>1</b>		
3. PROJECT <b>NORTH BASE AREA INVESTIGATION</b>			4. LOCATION <b>Moffett Naval Air Station</b>					
5. NAME OF DRILLER <b>RICK WILLIAMSON</b>			6. MANUFACTURER'S DESIGNATION OF DRILL <b>Mobil B-53</b>					
7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT		8" OD CONTINUOUS FLIGHT		8. HOLE LOCATION <b>N 340756.6 E 1547847.9</b>				
		HOLLOW STEM AUGER		9. SURFACE ELEVATION <b>G.S. = 0.20</b>				
		2.5" OD CONTINUOUS CORE		10. DATE STARTED <b>3/04/92</b>		11. DATE COMPLETED <b>3/04/92</b>		
12. OVERBURDEN THICKNESS <b>N/A</b>			15. DEPTH GROUNDWATER ENCOUNTERED <b>9' BGS</b>					
13. DEPTH DRILLED INTO ROCK <b>N/A</b>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>N/A</b>					
14. TOTAL DEPTH OF HOLE <b>25.0'</b>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>N/A</b>					
18. GEOTECHNICAL SAMPLES <b>None</b>		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES <b>3</b>				
20. SAMPLES FOR CHEMICAL ANALYSIS <b>None</b>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)		
22. DISPOSITION OF HOLE <b>Completed as well</b>		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR/GEOLOGIST <b>FLOYD TRUJILLO</b>			
			<b>WNB-9</b>					
DEPTH a	DESCRIPTION OF MATERIALS b		USCS SYMBOL c	GRAPHIC LOG d	PID (PPM) e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	<u>No Recovery</u>				0			
2.0	<p><u>Clay (CL)</u>. Organic clay at 2' grading to a silty clay to 5'. Medium plasticity. Moist. Pockets of brown staining. Color: Olive gray (5/2)</p>		CL		0			Sample recovery = 75%
4.0								
6.0	<p><u>Clay (CL)</u>. Silty clay. Medium plasticity, stiff, moist. 20% calcite nodules present. 1/2' poorly graded sand at 8' - 9' in a silty clayey matrix. Color: Olive brown (4/3)</p>		CL		0			Sample recovery = 100%
8.0								
10.0	<p><u>Clay (CL)</u>. Same as above.</p>		CL		0			 Sample recovery = 5%

PROJECT **NAS MOFFETT FIELD**

HOLE NO. **WNB-9**

# HTW DRILLING LOG

HOLE NO.  
WNB-9

PROJECT  
NAS MOFFETT FIELD/NORTH BASE AREA INVESTIGATION

INSPECTOR/GEOLOGIST  
FLOYD TRUJILLO

SHEET 2  
OF 2 SHEETS

DEPTH a	DESCRIPTION OF MATERIALS b	USCS SYMBOL c	GRAPHIC LOG d	PID (PPM) e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
10.0	<u>CLAY (CL)</u> . Same as above.						Poor recovery from 9' - 12'
12.0	<u>CLAY (CL)</u> . Silty clay. Same as above.	CL		0			Poor recovery
14.0	<u>CLAY (CL)</u> . Silty clay - stiff, moist, medium plasticity, abundant brown staining. Brown to light gray laminating. Color: Light olive brown (5/6)	CL		0			Sample recovery = 100%
16.0				0			
18.0				0			
20.0	<u>CLAY (CL)</u> . Same as above.	CL		0			Sample recovery = 100%
22.0	<u>Silt (ML)</u> . Silt with very fine sands, loose, low plasticity. Moist. Traces of brown staining. Color: Olive yellow (6/8)	ML		0			Sample recovery = 100%
24.0							
26.0							Total depth = 25'

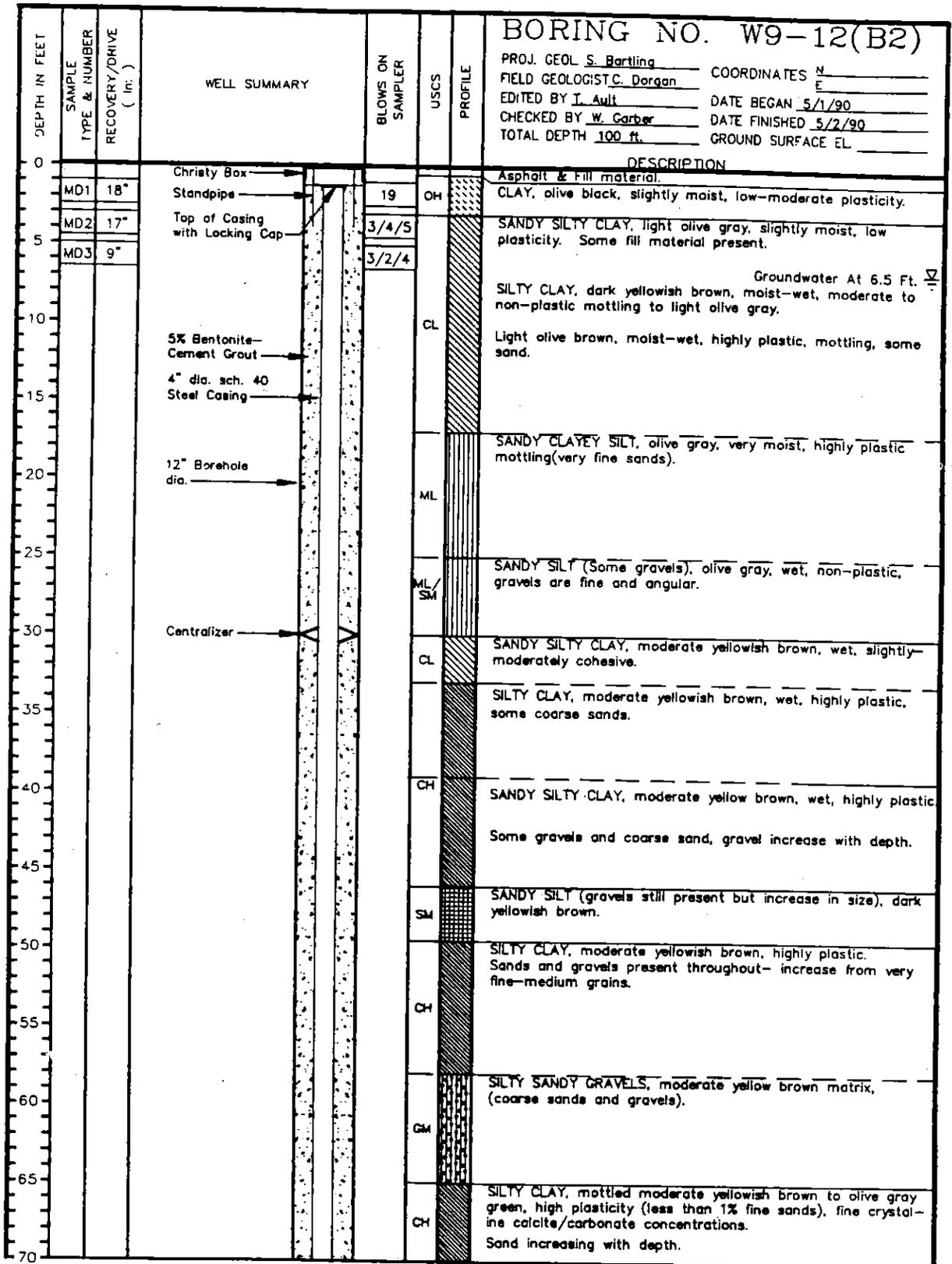
PROJECT  
NAS MOFFETT FIELD

HOLE NO.  
WNB-9

## MONITORING WELL SHEET

PROJECT <u>NAS Moffett Field</u>	LOCATION <u>WNB-9</u>	DRILLER <u>Rick Williamson</u>
PROJECT NO. <u>2738-0384</u>	BORING <u>WNB-9</u>	DRILLING METHOD <u>HSA</u>
ELEVATION _____	DATE <u>3/04/92</u>	DEVELOPMENT METHOD <u>Bail/Swab/Pump</u>
FIELD GEOLOGIST _____	<u>Floyd A. Trujillo</u>	

ELEVATION OF TOP OF RISER PIPE:	<u>2.44</u>
ELEVATION OF GROUND SURFACE:	<u>0.20</u>
TYPE OF SURFACE SEAL:	<u>Cement</u>
I.D. OF SURFACE CASING:	<u>12"</u>
TYPE OF SURFACE CASING:	<u>Christie Box</u>
RISER PIPE I.D.:	<u>4"</u>
TYPE OF RISER PIPE:	<u>(M.S.) Mild Steel</u>
BOREHOLE DIAMETER:	<u>12"</u>
TYPE OF BACKFILL:	<u>5% Bentonite with Portland cement</u>
DEPTH OF SEAL:	<u>4'</u>
TYPE OF SEAL:	<u>Bentonite pellets</u>
DEPTH TOP OF SAND PACK:	<u>6'</u>
DEPTH TOP OF SCREEN:	<u>8'</u>
TYPE OF SCREEN:	<u>Stainless Steel</u>
SLOT SIZE x LENGTH:	<u>.020" 20 slot x 10'</u>
I.D. OF SCREEN:	<u>4"</u>
TYPE OF SAND PACK:	<u>#3 Monterey sand</u>
DEPTH BOTTOM OF SCREEN:	<u>18'</u>
DEPTH BOTTOM OF SAND PACK:	<u>18'</u>
TYPE OF BACKFILL BELOW OBSERVATION WELL:	<u>Bentonite Pellets</u>
DEPTH OF HOLE: (8" diameter borehole below 18'):	<u>25'</u>



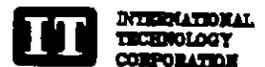
DRILLING CO.: Water Developement  
 DRILL METHOD: Air Rotary with Drive Casing

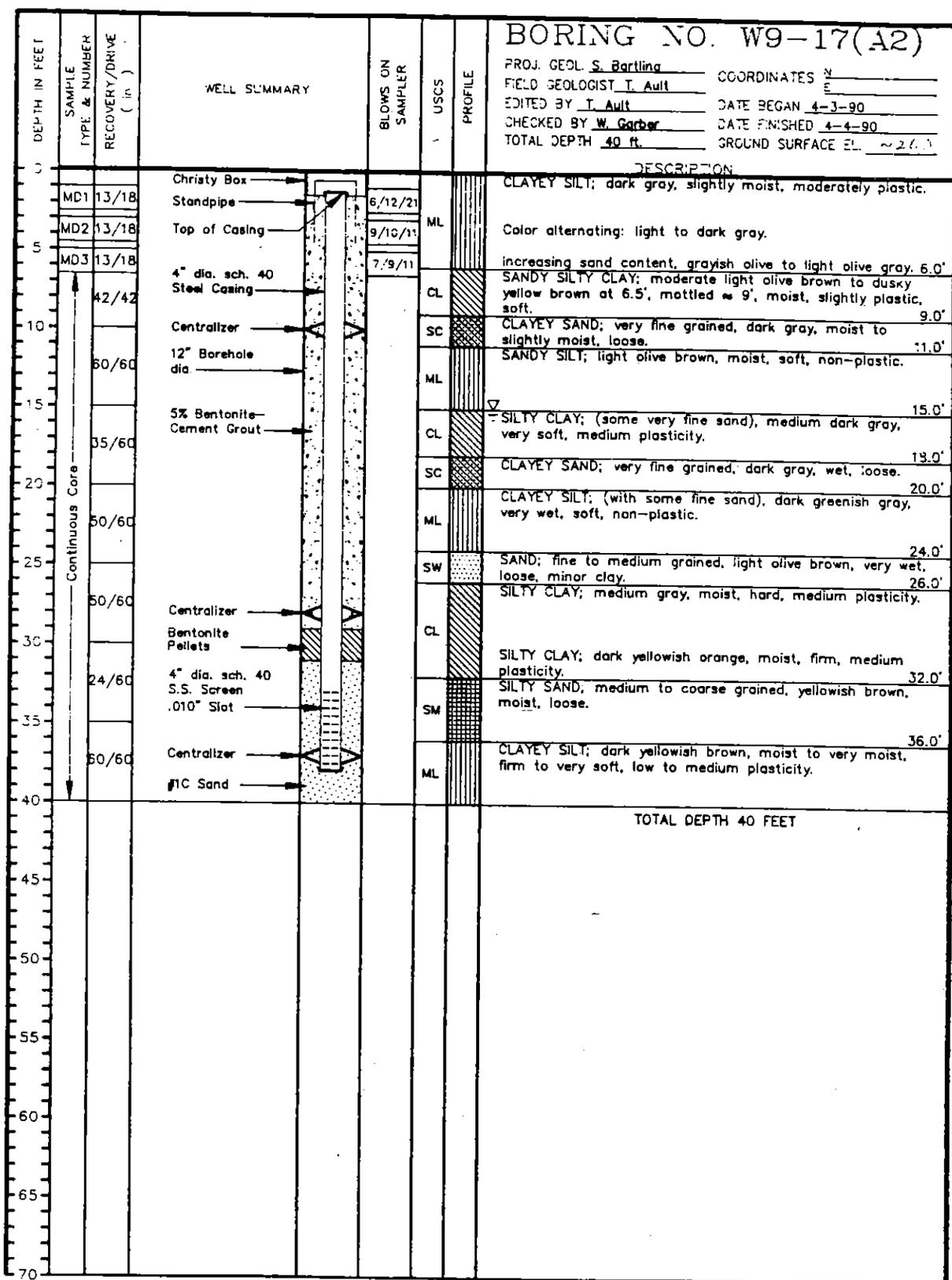
PAGE 1 OF 2

PROJECT NO.: 409700  
 CLIENT: Moffett Naval Air Station  
 LOCATION: Moffett Field, California

SEE LEGEND FOR LOGS AND TEST PITS  
 FOR EXPLANATION OF SYMBOLS AND TERMS

MF-W9-12(MF-19)





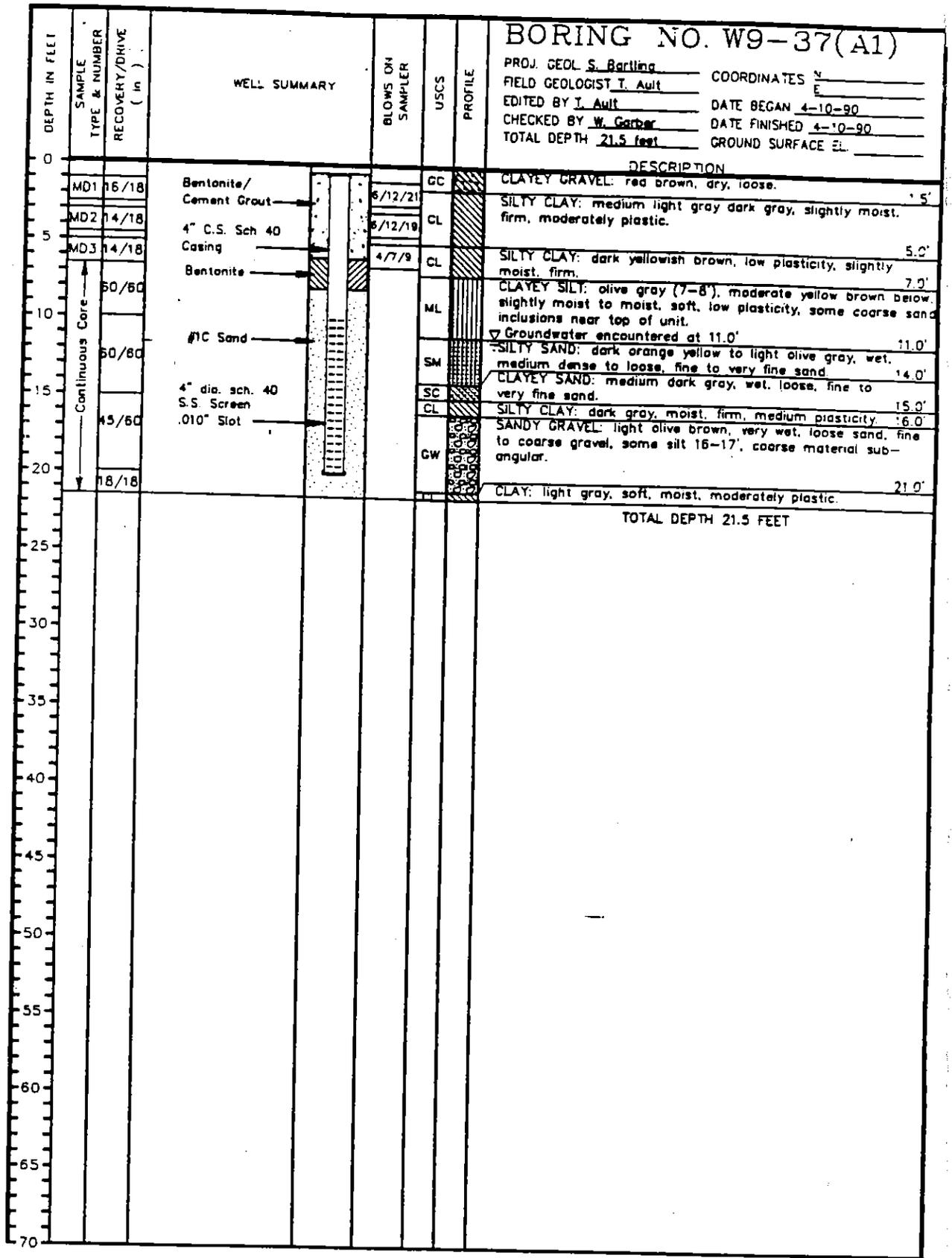
DRILLING CO.: Water Development  
 DRILL METHOD: Hollow Stem Auger (Rig CME-75)

PROJECT NO.: 409700  
 CLIENT: Moffett Naval Air Station  
 LOCATION: Moffett Field, California

SEE LEGEND FOR LOGS AND TEST PITS  
 FOR EXPLANATION OF SYMBOLS AND TERMS

MF-W9-17(MF13)





DRILLING CO.: Water Development  
 DRILL METHOD: Hollow Stem Auger (Rig CME-75)

PAGE 1 OF 1

PROJECT NO.: 409700  
 CLIENT: Moffett Naval Air Station  
 LOCATION: Moffett Field, California

SEE LEGEND FOR LOGS AND TEST PITS  
 FOR EXPLANATION OF SYMBOLS AND TERMS

MF-W9-37(MF14)



Project	Moffet Naval Air Station	Client	U.S. Navy
Location	Mountain View, CA	Project #	40027
Boring Name	B14	Boring Depth	20 ft. below L.S.
Well Name	MW4	Boring Diameter	8" inches
Surface Elevation		First Water noted	ft. below L.S.
Drilling Company	Kleinfelder	Driller	Doug
Drilling Method(s)	8" Hollow Stem Auger	Sampling Method(s)	Shelby Tube/Split Sp.
Start (Date/Time)	3-11-87/1610	Finish (Date/Time)	3-12-87
Log By	Chuck Berkstresser	Page	1 of 1
Notes	Split-spoon sampler was used at 2', 3.5', 7.5' and 12.5'; Shelby tube was used to collect the other samples		

Sketch

Depth (feet)	Soil/Rock Type Graphic / USCS	Well Construction	Sample No.	DESCRIPTION (Consistency, Moisture, Color, Soil/Rock type; Structures, Water level, odor, stains, etc.)
0	GC			greyish-brown GRAVEL, fine to coarse SAND, SILT and CLAY; no petroleum or solvent odor
	SM/SC			yellow-brown SAND, SILT and CLAY; no odor; 1/2" black layer with white and orange specks at 2.3 ft.
	CL		1	light brownish grey CLAY ↓ becomes dark greenish grey
5			2	medium greenish-grey CLAY; mottled white some roots visible ↓ becomes darker grey with white to light gray mottling; no odor
	GC		3	medium grey CLAY; no odor dense, medium grey, fine to medium GRAVEL, SILT, and CLAY (tight)
10	ML/CL		4	medium grey, SILT and CLAY with a trace of GRAVEL medium grey CLAY with some SILT and some coarse SAND (tight)
			5	medium grey CLAY and SILT; no odor medium grey SILTY CLAY; no odor
	SC		medium grey (with orange splotches) CLAY with some SILT; no odor	
15	ML/CL	6	brownish grey, CLAYEY, very fine SAND; no odor olive grey CLAY and SILT with some medium and coarse SAND; no odor	
		7	dark grey, SILTY CLAY; odor is like normal Bay mud	
			dark grey CLAY with some SILT and some very fine SAND; a few coarse sand grains; odor is like normal Bay mud	
20			dark grey, very fine to fine SAND, SILT and CLAY; no odor	
			dark grey CLAY and SILT; no odor	
			dark grey CLAY, SILT, and very fine SAND; no odor	
25				

# FIELD BORELOG

PRC ENVIRONMENTAL MANAGEMENT, INC

SHEET 1 of 1

LOCATION OF BOREHOLE								JOB NO: 044-0024 IRRSCFW		BOREHOLE DESIGNATION: W67-1(A1)	
								CLIENT: U.S. Navy		SURFACE ELEVATION:	
								SITE: NAS Moffett Field		DEPTH TO WATER:	
								SUBSITE: Tank 67, Building 88		LOGGED BY: Wayne Hauck	
								DRILLING CO: Spectrum Exploration		DRILLING DATE(S): 8/30/90	
								DRILLING PERSONNEL/METHOD: Doug Shearer, Jon Sump Jr., CME-55; 6 inch ID, 10 inch OD HSA; split spoon sampler			
SAMPLER TYPE	SAMPLE DEPTH	BLOW CTS	RECVD. DRIVEN	TIME	OVM READING	ANLYS Phyl Ch	WELL INFO	DEPTH IN FT	USCS GRAPHICS	SOIL DESCRIPTION	
								1	ML	<u>0.0 to 4.0 ft:</u> Silty clay with sand, dark gray brown, stiff, dry to damp, no odor.	
							2				
							3				
	2.5 - 4.0	4 5 9	1.5 1.5		0			4	CL	<u>4.0 to 8.0 ft:</u> Clay, slightly sandy, gray brown, slightly stiff, moist, no odor.	
							5				
							6				
	5.0 - 6.5		1.5 1.5		0			7			
								8	ML	<u>8.0 to 12.5 ft:</u> Silt, gray brown, yellow mottling, soft, wet, no odor.	
							9				
							10				
	7.5 - 9.0	1 3 5	1.5 1.5		0			11			
								12	ML	<u>12.5 to 16.0 ft:</u> Silt, slightly sandy, gray brown, mottled, firm, wet.	
							13				
							14				
	12.5 - 14.0	2 2 3	0 1.5					15			
	14.5 - 16.0	2 3 4	1.5 1.5					16		TOTAL DEPTH = 16.0 FT	

**WELL LOCATION INFORMATION**

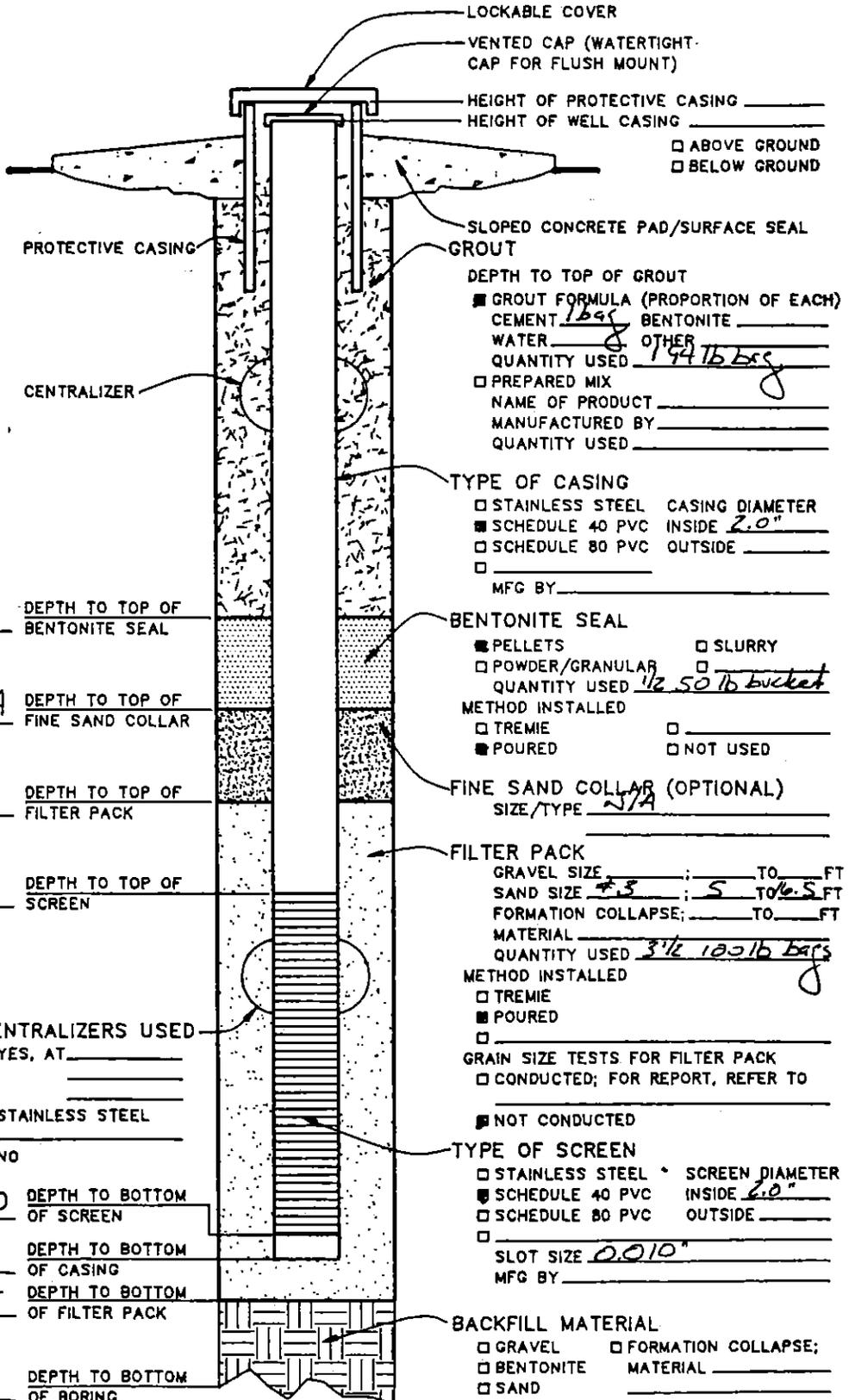
WELL NO. W67-1(A1)  
BOREHOLE NO. \_\_\_\_\_  
SITE NAS Moffett Field  
SUBSITE Tank 67, Building 88  
DATE 8/30/90  
RECORDED BY Wayne Huck  
WELL PERMIT NO. 90W1763

**SURFACE COMPLETION INFORMATION**

- TYPE OF INSTALLATION  
 ABOVE GROUND INSTALLATION  
 PROTECTIVE POSTS INSTALLED  
 FLUSH MOUNT INSTALLATION  
 TYPE CRUSH BOX  
 TRAFFIC RATED  
 WATERTIGHT SEAL  
 WATERTIGHT WELL CAP  
 TYPE OF PROTECTIVE CASING  
 STEEL SIZE \_\_\_\_\_  
 \_\_\_\_\_  
 SURFACE SEAL  
 NONSHRINKING CEMENT  
 CONCRETE  
 \_\_\_\_\_  
 CHECKED FOR SETTLEMENT  
 INTERNAL MORTAR ADDED  
 GROUND SURFACE ELEVATION  
 SURVEYED  
 DATE \_\_\_\_\_  
 MEASURING POINT  
 TOP OF WELL CASING  
 TOP OF PROTECTIVE CASING  
 GROUND SURFACE  
 \_\_\_\_\_

**DRILLING INFORMATION**

DRILLING COMPANY/PERSONNEL  
Spectrum Exploration  
Doug Shearer  
Jim Berry Jr.  
 DRILL RIG ICME SS  
 DRILLING METHOD  
 HOLLOWSTEM AUGER  
 AIR ROTARY  
 MUD/WATER ROTARY  
 \_\_\_\_\_  
 DRILLING BEGAN  
 DATE 8/30/90 TIME \_\_\_\_\_  
 WELL COMPLETION BEGAN  
 DATE 8/30/90 TIME \_\_\_\_\_  
 WELL COMPLETION FINISHED  
 DATE 8/30/90 TIME \_\_\_\_\_  
 DRILLING FLUID TYPE  
 BENTONITE  WATER  
 POLYMER  \_\_\_\_\_  
 DRILLING FLUID LOSS  
 YES \_\_\_\_\_ GALLONS  
 NO \_\_\_\_\_  
 WATER ADDED DURING COMPLETION  
 YES \_\_\_\_\_ GALLONS  
 NO \_\_\_\_\_  
 TOTAL FLUID LOSS TO FORMATION  
0 GALLONS



NOTES:  
 1. SCALE: NONE  
 2. RECORD FRACTIONAL FEET IN DECIMAL, NOT IN INCHES  
 3. RECORD CONSTRUCTION DEPTHS BELOW GROUND LEVEL

# FIELD BORELOG

PRC ENVIRONMENTAL MANAGEMENT, INC.

SHEET 1 of 2

LOCATION OF BOREHOLE								JOB NO: 044-0024 IRRSCFW		BOREHOLE DESIGNATION: SB68-1(A1)	
								CLIENT: U.S. Navy		SURFACE ELEVATION:	
								SITE: NAS Moffett Field		DEPTH TO WATER:	
								SUBSITE: Tank 68, Building 88		LOGGED BY: Willis Wilcoxon	
								DRILLING CO: Spectrum Exploration		DRILLING DATE(S): 12/6/90	
								DRILLING PERSONNEL/METHOD: Ray Livingston, Jay Leonard, CME-55; 6 inch ID, 10 inch OD HSA; split spoon sampler, 45° angle			
SAMPLER TYPE	SAMPLE DEPTH	BLOW CTS	RECVD DRIVEN	TIME	PD READING	ANLYS Phs Ch	WELL INFO	DEPTH IN FT	USCS GRAPHICS	SOIL DESCRIPTION	
								1	CL	<u>0.0 to 7.0 ft:</u> Clay with silt, light gray (5Y6/1), moist, low plasticity, no odor.	
							2				
	2.5 - 4.0		$\frac{1.1}{1.5}$	1300			3				
								4			
								5			
								6			
								7		<u>7.0 to 12.5 ft:</u> Clay, brown (5Y2.5/1), medium plasticity, moist, no odor.	
								8			
	7.5 - 9.0		$\frac{1.1}{1.5}$	1310				9			
								10			
								11			
								12		<u>12.5 to 16.0 ft:</u> Silty sand, medium gray (5Y4/1), trace mottled brown, very soft, wet, nonplastic, mottled color increases with depth.	
								13			
	12.5 - 14.0		$\frac{1.5}{1.5}$	1320				14	SM		
								15			
								16		<u>16.0 to 23.5 ft:</u> Poorly graded sand, green brown (5Y4/2), mottled rust (5Y4/3), wet, no odor, root channels.	
								17			
								18			
	17.5 - 19.0		$\frac{1.5}{1.5}$	1340				19	SP		
								20			





# FIELD BORELOG

PRC ENVIRONMENTAL MANAGEMENT, INC.

SHEET 2 of 2

JOB NO: 044-0024 IRRSCFW				BOREHOLE DESIGNATION: W68-1(A1) continued						
SAMPLER TYPE	SAMPLE DEPTH	BLOW CTS	RECVD DRIVEN	TIME	PID READING	ANLYS Phy Ct	WELL INFO	DEPTH IN FT	USCS GRAPHICS	SOIL DESCRIPTION
								21		
								22		
								23		<u>23.0 to 25.5 ft:</u> Well graded sand with silt, very fine to coarse, angular to subangular sand, gray (2.5Y3/0), soft, weak cementation.
								24	SW	
								25		
	25.0 - 26.5		<u>1.25</u> 1.5	1225				26	ML	
								27		TOTAL DEPTH = 26.5 FT

WELL LOCATION INFORMATION

WELL NO. W68-1 (A1)  
BOREHOLE NO. \_\_\_\_\_  
SITE NAS Moffett Field  
SUBSITE Tank 68, Building 88  
DATE 9/6/90  
RECORDED BY Willis Wilcox  
WELL PERMIT NO. \_\_\_\_\_

*45° angle  
depths measured  
along borehole*

SURFACE COMPLETION INFORMATION

- TYPE OF INSTALLATION
- ABOVE GROUND INSTALLATION
  - PROTECTIVE POSTS INSTALLED
  - FLUSH MOUNT INSTALLATION
- TYPE \_\_\_\_\_
- TRAFFIC RATED
  - WATERTIGHT SEAL
  - WATERTIGHT WELL CAP
- TYPE OF PROTECTIVE CASING
- STEEL SIZE \_\_\_\_\_
  - 4" PVC
- SURFACE SEAL
- NONSHRINKING CEMENT
  - CONCRETE
  - \_\_\_\_\_
- CHECKED FOR SETTLEMENT
  - INTERNAL MORTAR ADDED
- GROUND SURFACE ELEVATION \_\_\_\_\_
- DATE \_\_\_\_\_
- MEASURING POINT
- TOP OF WELL CASING
  - TOP OF PROTECTIVE CASING
  - GROUND SURFACE
  - \_\_\_\_\_

DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL  
Spectrum Exploration  
Ray Livingston  
Jay Leonard

DRILL RIG CXE 75

DRILLING METHOD

- HOLLOWSTEM AUGER
- AIR ROTARY
- MUD/WATER ROTARY
- \_\_\_\_\_

DRILLING BEGAN  
DATE 9/6/90 TIME \_\_\_\_\_

WELL COMPLETION BEGAN  
DATE 9/6/90 TIME \_\_\_\_\_

WELL COMPLETION FINISHED  
DATE 9/6/90 TIME \_\_\_\_\_

DRILLING FLUID TYPE

- BENTONITE
- WATER
- POLYMER
- \_\_\_\_\_

DRILLING FLUID LOSS

- YES \_\_\_\_\_ GALLONS
- NO

WATER ADDED DURING COMPLETION

- YES \_\_\_\_\_ GALLONS
- NO

TOTAL FLUID LOSS TO FORMATION  
\_\_\_\_\_ GALLONS

11.5 DEPTH TO TOP OF BENTONITE SEAL

N/A DEPTH TO TOP OF FINE SAND COLLAR

13.5 DEPTH TO TOP OF FILTER PACK

14.5 DEPTH TO TOP OF SCREEN

24.5 DEPTH TO BOTTOM OF SCREEN

DEPTH TO BOTTOM OF CASING \_\_\_\_\_

DEPTH TO BOTTOM OF FILTER PACK \_\_\_\_\_

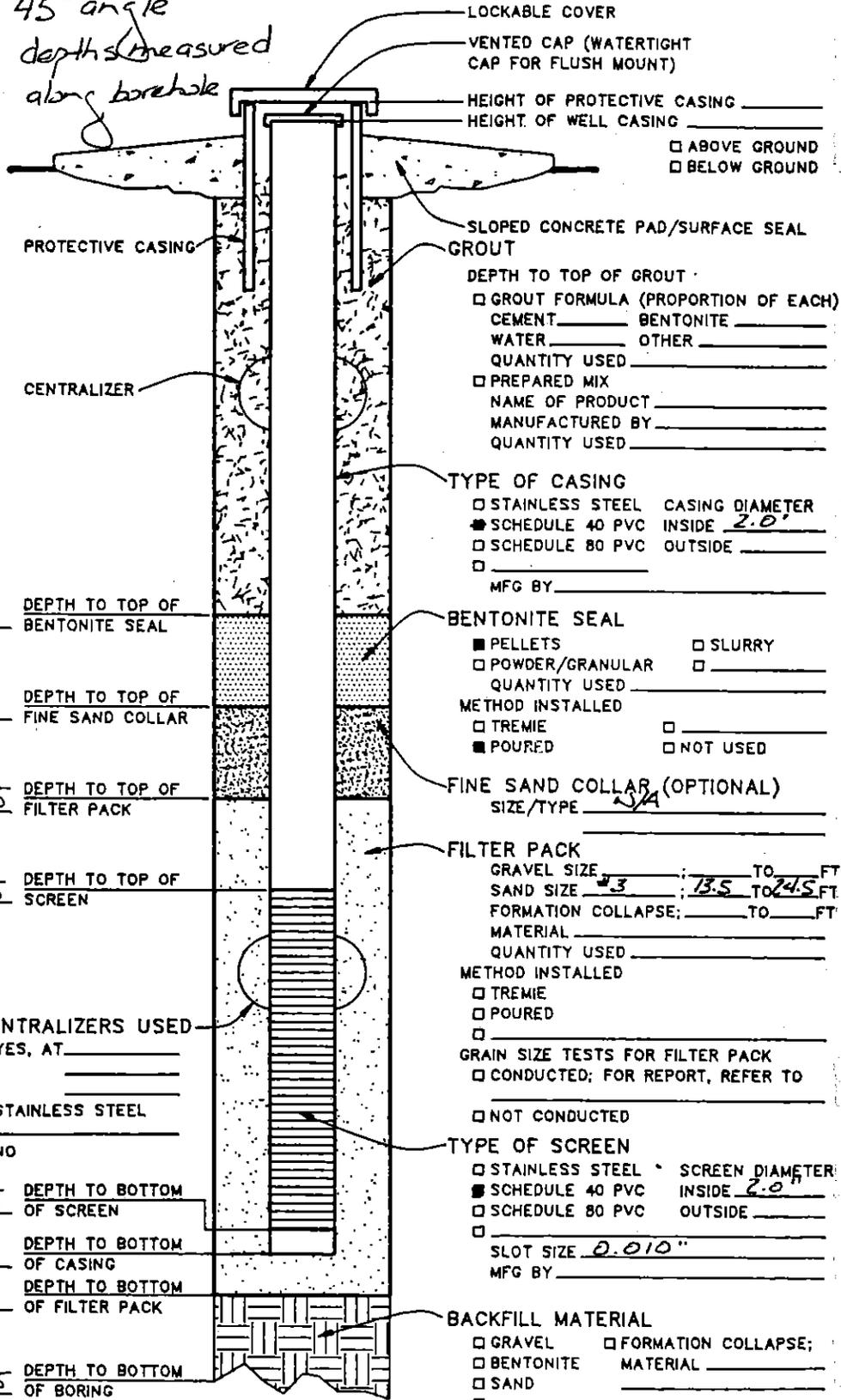
26.5 DEPTH TO BOTTOM OF BORING

TOTAL LENGTH OF CASING AND SCREEN \_\_\_\_\_

DEPTH TO WATER FOLLOWING INSTALLATION (TOC) \_\_\_\_\_

CENTRALIZERS USED

- YES, AT \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- STAINLESS STEEL
- \_\_\_\_\_
- NO



LOCKABLE COVER

VENTED CAP (WATERTIGHT CAP FOR FLUSH MOUNT)

HEIGHT OF PROTECTIVE CASING \_\_\_\_\_

HEIGHT OF WELL CASING \_\_\_\_\_

- ABOVE GROUND
- BELOW GROUND

SLOPED CONCRETE PAD/SURFACE SEAL

GROUT

DEPTH TO TOP OF GROUT \_\_\_\_\_

GROUT FORMULA (PROPORTION OF EACH)

CEMENT \_\_\_\_\_ BENTONITE \_\_\_\_\_

WATER \_\_\_\_\_ OTHER \_\_\_\_\_

QUANTITY USED \_\_\_\_\_

PREPARED MIX

NAME OF PRODUCT \_\_\_\_\_

MANUFACTURED BY \_\_\_\_\_

QUANTITY USED \_\_\_\_\_

TYPE OF CASING

- STAINLESS STEEL CASING DIAMETER \_\_\_\_\_
- SCHEDULE 40 PVC INSIDE 2.0"
- SCHEDULE 80 PVC OUTSIDE \_\_\_\_\_
- \_\_\_\_\_

MFG BY \_\_\_\_\_

BENTONITE SEAL

- PELLETS
- SLURRY
- POWDER/GRANULAR
- \_\_\_\_\_

QUANTITY USED \_\_\_\_\_

METHOD INSTALLED

- TREMIE
- \_\_\_\_\_
- POURED
- NOT USED

FINE SAND COLLAR (OPTIONAL)

SIZE/TYPE N/A

FILTER PACK

GRAVEL SIZE \_\_\_\_\_ TO \_\_\_\_\_ FT

SAND SIZE #3; 13.5 TO 24.5 FT

FORMATION COLLAPSE; \_\_\_\_\_ TO \_\_\_\_\_ FT

MATERIAL \_\_\_\_\_

QUANTITY USED \_\_\_\_\_

METHOD INSTALLED

- TREMIE
- POURED
- \_\_\_\_\_

GRAIN SIZE TESTS FOR FILTER PACK

- CONDUCTED; FOR REPORT, REFER TO \_\_\_\_\_
- NOT CONDUCTED

TYPE OF SCREEN

- STAINLESS STEEL SCREEN DIAMETER \_\_\_\_\_
- SCHEDULE 40 PVC INSIDE 2.0"
- SCHEDULE 80 PVC OUTSIDE \_\_\_\_\_
- \_\_\_\_\_

SLOT SIZE 0.010"

MFG BY \_\_\_\_\_

BACKFILL MATERIAL

- GRAVEL
- FORMATION COLLAPSE; MATERIAL \_\_\_\_\_
- BENTONITE
- SAND
- \_\_\_\_\_

DIAMETER OF BOREHOLE 10"

NOTES:

1. SCALE: NONE
2. RECORD FRACTIONAL FEET IN DECIMAL, NOT IN INCHES
3. RECORD CONSTRUCTION DEPTHS BELOW GROUND LEVEL

# BORELOG

LOCATION OF BORELOG	JOB NO.: 044-0170IRFSFW	BOREHOLE DESIGNATION: SBS91-001
	CLIENT: U.S. NAVY	SURFACE ELEVATION: 22.4
	SITE: Moffett Field	DEPTH TO WATER: 18.5'
	SUBSITE:	LOGGED BY: Shaleigh Whitcomb
	DRILLING CO.: West Haz Mat	DRILLING DATE(S): 5/28/92
	DRILLING PERSONNEL/METHOD: Randy Wolfe, Jeff Smith	

SAMPLER TYPE	SAMPLE DEPTH		BLOWS/ 6 IN. SAMPLE	RECOVERED DRIVEN	TIME	TD Rel.	ANALYS		WELL Info.	DEPTH in Ft.	USCS SOIL TYPE GRAPHIC LOG	SOIL DESCRIPTION
	TOP	BOT					PTS	CHDM				
CB	20.0		2.0/5.0			12.4				21		20.0 to 23.0 feet: No sample; may be flowing sand.
										22		
										23	SW	23.0 to 25.0 feet: Sand and gravel (SW); sand is coarse-grained, light olive brown, nonplastic, subround gravel, sample SBS91-001(24.5) collected.
									24			
	25.0							X		25		
CB	25.0		3.0/5.0			15.9				26		25.0 to 27.0 feet: No sample; may be flowing sand.
										27		
								X		28	SW	27.0 to 29.0 feet: Sand and gravel (SW); sand is coarse-grained, light olive brown, nonplastic, wet, subround gravel, sample SBS91-001(27.5) collected.
									29			
	30.0									30	CL	29.0 to 30.0 feet: Silty clay (CL); moderate olive brown mottled with light olive brown, moderately plastic, moist.
CB	30.0		5.0/5.0						31			
						890				32		30.0 to 33.8 feet: Silty clay (CL); yellowish gray, moderately plastic, some subround gravel clasts.
										33		
								X		34	SW	33.8 to 35.0 feet: Sand and gravel (SW); sand is coarse-grained, light olive brown, wet, subround gravel; sample SBS91-001(35.0) collected.
	35.0								35			
										36		TD at 35.0'.
									37			
									38			
									39			
									40			



**MONITORING WELL INSTALLATION RECORD  
FLUSH MOUNT INSTALLATION**

**WELL LOCATION INFORMATION**

WELL NO. W91-1(A1/A2)  
BOREHOLE NO. SBS91-1  
SITE NAS MOFFETT FIELD  
SUBSITE TANK & SUMP (SUMP 91)  
DATE 05-29-92  
RECORDED BY S. WHITESSELL  
WELL PERMIT NO. 92W0773

**SURFACE COMPLETION INFORMATION**

- TYPE OF INSTALLATION  
 OPEN HOLE  
 INSIDE HOLLOW STEM AUGER  
 TYPE OF FLUSH MOUNT  
 CHRISTY BOX  
  
 LOCKING COVER  
 WATERTIGHT CAP  
 LOCKING CAP  
 SURFACE SEAL  
 NON-SHRINKING CEMENT  
 CONCRETE  
  
 CHECKED FOR SETTLEMENT  
 INTERNAL MORTAR ADDED  
 GROUND SURFACE ELEVATION  
 SURVEYED  
 DATE 7/8/92

- MEASURING POINT  
 TOP OF WELL CASING  
 GROUND SURFACE

**DRILLING INFORMATION**

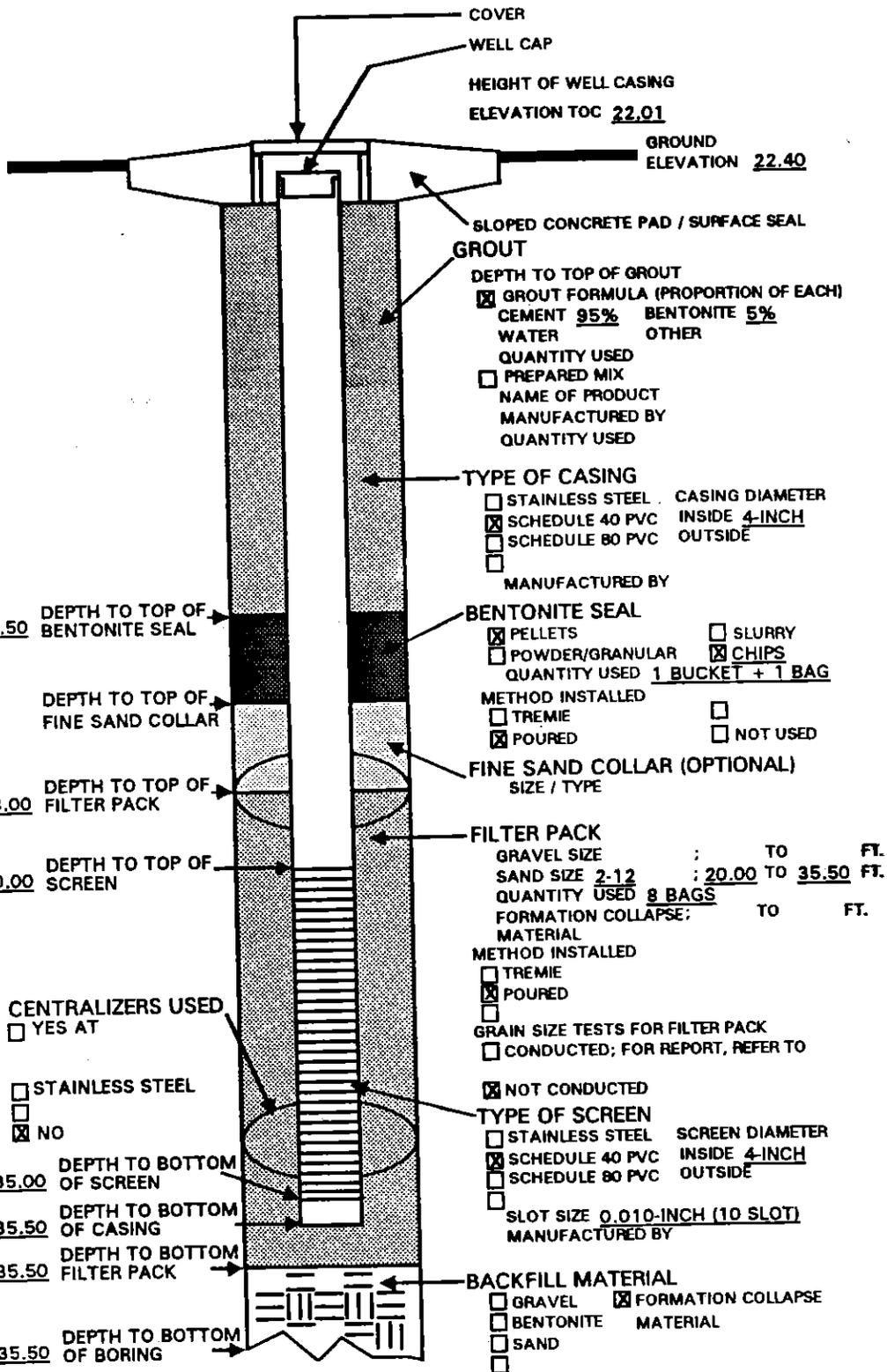
DRILLING COMPANY/PERSONNEL  
WEST HAZMAT  
RANDY WOLFE, JEFF SMITH

- DRILL RIG MOBILE B-61  
 DRILLING METHOD  
 HOLLOWSTEM AUGER  
 AIR ROTARY  
 MUD/WATER ROTARY

DRILLING BEGAN  
 DATE 05-28-92 TIME 14:00  
 WELL COMPLETION BEGAN  
 DATE 05-29-92 TIME 08:15  
 WELL COMPLETION FINISHED  
 DATE 05-29-92 TIME

- DRILLING FLUID TYPE  
 BENTONITE  WATER  
 POLYMER   
 DRILLING FLUID LOSS

- YES  NO GALLONS  
 WATER ADDED DURING COMPLETION  
 YES  NO GALLONS  
 NO  
 TOTAL FLUID LOSS TO FORMATION  
 GALLONS



COVER  
 WELL CAP  
 HEIGHT OF WELL CASING  
 ELEVATION TOC 22.01  
 GROUND ELEVATION 22.40  
 SLOPED CONCRETE PAD / SURFACE SEAL  
 GROUT  
 DEPTH TO TOP OF GROUT  
 GROUT FORMULA (PROPORTION OF EACH)  
 CEMENT 95% BENTONITE 5%  
 WATER OTHER  
 QUANTITY USED  
 PREPARED MIX  
 NAME OF PRODUCT  
 MANUFACTURED BY  
 QUANTITY USED  
 TYPE OF CASING  
 STAINLESS STEEL CASING DIAMETER  
 SCHEDULE 40 PVC INSIDE 4-INCH  
 SCHEDULE 80 PVC OUTSIDE  
  
 MANUFACTURED BY  
 BENTONITE SEAL  
 PELLETS  SLURRY  
 POWDER/GRANULAR  CHIPS  
 QUANTITY USED 1 BUCKET + 1 BAG  
 METHOD INSTALLED  
 TREMIE   
 POURED  NOT USED  
 FINE SAND COLLAR (OPTIONAL)  
 SIZE / TYPE  
 FILTER PACK  
 GRAVEL SIZE : TO FT.  
 SAND SIZE 2-12 : 20.00 TO 35.50 FT.  
 QUANTITY USED 8 BAGS  
 FORMATION COLLAPSE: TO FT.  
 MATERIAL  
 METHOD INSTALLED  
 TREMIE  
 POURED  
  
 GRAIN SIZE TESTS FOR FILTER PACK  
 CONDUCTED; FOR REPORT, REFER TO  
 NOT CONDUCTED  
 TYPE OF SCREEN  
 STAINLESS STEEL SCREEN DIAMETER  
 SCHEDULE 40 PVC INSIDE 4-INCH  
 SCHEDULE 80 PVC OUTSIDE  
  
 SLOT SIZE 0.010-INCH (10 SLOT)  
 MANUFACTURED BY  
 BACKFILL MATERIAL  
 GRAVEL  FORMATION COLLAPSE  
 BENTONITE MATERIAL  
 SAND  
  
 CENTRALIZERS USED  
 YES AT  
 STAINLESS STEEL  
 NO  
 NO  
 DEPTH TO TOP OF BENTONITE SEAL 15.50  
 DEPTH TO TOP OF FINE SAND COLLAR  
 DEPTH TO TOP OF FILTER PACK 18.00  
 DEPTH TO TOP OF SCREEN 20.00  
 DEPTH TO BOTTOM OF SCREEN 35.00  
 DEPTH TO BOTTOM OF CASING 35.50  
 DEPTH TO BOTTOM FILTER PACK 35.50  
 DEPTH TO BOTTOM OF BORING 35.50  
 TOTAL LENGTH OF CASING AND SCREEN  
 DEPTH TO WATER FOLLOWING INSTALLATION (TOC)  
 DIAMETER OF BOREHOLE 10 INCH

NOTES:  
 1. SCALE: NONE  
 2. RECORD DEPTHS/LENGTHS IN TENTHS OF FEET, NOT IN INCHES  
 3. RECORD CONSTRUCTION DEPTHS BELOW GROUND LEVEL

# BOREHOLE LOG

<p>LOCATION OF BOREHOLE</p>	JOB NO.: 044-023STRSC9C	BOREHOLE DESIGNATION: SB9SC-15
	CLIENT: U.S. NAVY	SURFACE ELEVATION: 19.47
	SITE: SITE 9	DEPTH TO WATER: 7.5 feet
	SUBSITE: Bldg. 88	LOGGED BY: Jim Wulff
	DRILLING CO.: Explor. Geoserv.	DRILLING DATE(S): 02/23/94
	DRILLING PERSONNEL/METHOD:	

John Collins, Mike LaRocca; 8-inch hollow stem auger (3 3/8-inch ID), 18-inch split spoon (SS) sampler.

SAMPLE TYPE	SAMPLE DEPTH		RECOVERED	TIME	PTD	ANALYS		WELL	DEPTH	USCS SOIL TYPE GRAPHIC LOG	SOIL DESCRIPTION
	TOP	BOT				NO. OF	NO. OF				
											0.0 to 6.0 feet: Not sampled.
SS	6.0		1.5/1.5	1353	6.5				6	CL	6.0 to 7.5 feet: Silty clay (CL); olive gray (5Y5/2) mottled with olive (5Y5/6) iron-staining, stiff, slightly plastic, moist becoming wet at 7.5 feet, calcareous (strong reaction with HCl).
SS	7.5		1.5/1.5	1356					7	Δ	
	7.5								8		7.5 to 9.0 feet: Silty clay (CL); dark olive gray (5Y3/2) mottled with olive iron-staining, stiff, slightly plastic, saturated, minor very fine-grained sand stringers.
SS	9.0		1.5/1.5	1402					9		
	9.0								10		9.0 to 11.0 feet: Silty clay (CL); as above, iron-stained roots (light olive brown).
SS	10.5		1.4/1.5	1404					11	CL	11.0 to 15.3 feet: Silty clay (CL); abrupt color change to dark bluish gray (5B4/1) with iron-stained roots, slightly plastic, soft, saturated, iron-staining decreases with depth.
	12.0								12		
SS	12.0		1.5/1.5	1406					13		
	13.5								14		
SS	13.5		1.5/1.5	1410					15		15.3 to 16.3 feet: Silty clay (CL); olive gray (5Y4/3) faintly mottled with olive (5Y4/4).
	15.0								16		
SS	15.0		1.4/1.5	1415					17	SM	16.3 to 16.5 feet: Silty sand (SM); olive gray (5Y4/2), very fine-grained, poorly sorted, 10% medium to coarse-grained sand, 30% fines.
	16.5								18		16.5 to 18.0 feet: Silty sand (SM); olive gray (5Y4/2), medium-grained, non-cohesive.
SS	16.5		0.8/1.5	1418					19	SP	18.0 to 20.0 feet: Sand (SP); well sorted, medium-grained, trace silt sample SB9SC-15(18.0-19.5) collected.
	18.0								20		
SS	18.0		0.7/1.5	1420							
	19.5										
SS	19.5		0.4/1.5	1430							

# BOREHOLE LOG

LOCATION OF BOREHOLE	JOB NO.:	BOREHOLE DESIGNATION: SB9SC-15
	CLIENT:	SURFACE ELEVATION:
	SITE:	DEPTH TO WATER:
	BORING DIAM.:	LOGGED BY:
	DRILLING CO.:	DRILLING DATE(S):
	DRILLING PERSONNEL/METHOD:	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED	TIME	PTD	ANALYS	WELL	DEPTH	UNCS	SOIL DESCRIPTION
	TOP	BOT								
		21.0						21	CL	20.0 to 21.0 feet: Silty clay (CL); sharp color contact separates dark greenish gray (SBG4/1) silty clay from overlying olive gray sand, depth of contact is estimated because of poor recovery.
SS	21.0		1.0/1.5	1435				22		21.0 to 24.0 feet: Sandy clay (CL); dark greenish gray (5G4/1), soft, saturated, 25% sand, 5-10% gravel, consisting of hard greenstone and other metamorphic pebbles, chert, and weathered sandstones, red (iron-rich) sandstones are hard and intact, white (clean quartz) sandstones have decomposed to sand, but maintain the outline of a rock fragment.
SS	22.5		0.7/1.5	1440			23			
	24.0						24			
SS	24.0		1.0/1.5	1451		2.5		25	CL	24.0 to 26.0 feet: Gravelly clay (CL); color as above, very soft, nonplastic, sticky, saturated, 50% fines, 30% gravel, 20% sand, gravel is subround, max. size = 20 mm.
SS	25.5		1.5/1.5	1500				26		26.0 to 28.0 feet: Silty clay (CL); color as above, very stiff, moist, very calcareous (strong reaction with HCl), rooted, numerous small, white gastropods, abundant calcareous nodules.
	27.0						27			
SS	27.0		1.5/1.5	1506				28		28.0 to 28.5 feet: Silty clay (CL); olive gray (5Y5/2) mottled olive (5Y5/6), may be iron-staining, slightly plastic, occasional small (1-2 mm), dark pebbles.
	28.5						29	ML		
SS	28.5		1.2/1.5	1510				30	CL	28.5 to 29.1 feet: Clayey silt (ML); color as above, sticky, nonplastic.
	30.0						31	GP		
SS	30.0		0.2/1.5	1515				32	SP	29.1 to 29.7 feet: Silty clay (CL); as above from 28.0 to 28.5 feet, slight reaction with HCl.
	31.5						33			
SS	31.5		0.9/1.5	1520		117		34		29.7 to 30.0 feet: Gravel (GP); well sorted, 1-10 mm in size, subangular to subround.
	33.0						35	CL		
								36		30.0 to 32.5 feet: Sand (SP); olive gray (5Y4/2), well sorted, coarse-grained, sample SB9SC-15(32.0) collected.  32.5 to 33.0 feet: Silty clay (CL); pale olive (5Y6/4), stiff, calcareous (strong reaction with HCl).  TD at 33.0 feet.
							37			
							38			
							39			
								40		



# BOREHOLE LOG

**PRC** ENVIRONMENTAL MANAGEMENT, INC.

SHEET 2 OF 2

LOCATION OF BOREHOLE	JOB NO.:	BOREHOLE DESIGNATION: SB9SC-017
	CLIENT:	SURFACE ELEVATION:
	SITE:	DEPTH TO WATER:
	SUBSITE:	LOGGED BY:
	DRILLING CO.:	DRILLING DATE(S):
	DRILLING PERSONNEL/METHOD:	

SAMPLER TYPE	SAMPLE DEPTH		BLOWS/ 8 IN. SAMPLE	RECOVERED	DRIVEN	TIME	PID Rdg.	ANLYS		WELL Info.	DEPTH in Ft.	USCS SOIL TYPE GRAPHIC LOG	SOIL DESCRIPTION
	TOP	BOT						PHYS	CHEM				
CB	20		5.0/5.0			1440	5.0 - 10.0				1	SC	20.0 to 25.0 feet: As above; coarse SAND (SC) interval at approximately 24.7 feet, color change to dark bluish gray (5B 4/1) at 24.5 feet, roots, occasional spiral shell, no odor.
								2					
								3					
								4					
								5					
								6					
								7					
								8					
								9					
								30					
	25							X		5		Total depth (drilled) = 25.0 feet.	
										6			
										7			
										8			
										9			
										0			

Job Number: 0440267IRSIFW Well Designation: MWT69-1 Borehole Designation: SBT69-2  
 Client: U.S. NAVY Surface Elevation:  
 Site: Moffett Federal Airfield Subsite: Hangar 3 East Parking Geologist: Don McHugh  
 Drilling Date (s): 8-8-95 Well Installation Date (s): 8-8-95

Drilling Company: SES Personnel: Paul & Thomas

Drilling Method: HSA with 18-inch split spoon sampler

Borehole Diameter: 8 inches Casing Diameter: 2 inches Casing Material: Schedule 40 PVC

Screen Diameter: 2 inches Screen Opening: 0.02 inches Screen Material: Schedule 40 PVC

Screen Interval: 5 to 10 feet bgs Filterpack Interval: 3.5 to 10 feet bgs Bentonite Seal: 2 to 3.5 feet bgs

Grout Interval: 0 to 2 feet bgs Protective Cover: Flush Mount Elevation of TOC: 10.68

Latitude: 337190.83 Longitude: 1552797.83

DEPTH (FT)	BLOWS/6 in	RECOVERY	TIME	FIELD SCREENING	ANALYSIS	START OF CORE INTERVAL	GRAPHIC LOG	SOIL DESCRIPTION	WELL DIAGRAM
			1707				RC	REINF. CONCRETE; for 6 inches.	
5							SC	SANDY CLAY; dark brown, moist, trace silt & gravel, low plasticity.	
	2/1/1	15/18	1714		TPH/BTEX	8.5		Becomes tan, moisture increasing.	
10								Becomes saturated.	
15								BORING TERMINATED at 10' bgs. Converted to 2" PVC Monitoring Well.	

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST106-GP-01
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 6.7'
	SUBSITE: Tank 106	LOGGED BY: S. Jones
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/26/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
								NR	NO RECOVERY
	0	4	3/4	1126	0			CL	SANDY CLAY; well sorted sand, very slightly sticky, very slightly plastic, dry, firm.
								ML	CLAYEY SILTY SAND; light olive brown (2.5Y 5/3), moderately soft, moist, non sticky, very slightly plastic.
								NR	NO RECOVERY
						5		NR	NO RECOVERY; slough.
	4	8	2.5/4	1136	0			SW	GRAVELLY SAND; not well sorted, medium coarse sand with some finer grains, wet, soft, non sticky, non plastic, light olive brown (2.5Y 5/3), medium, soft.
								CL	SANDY CLAY; very slightly sticky, slightly plastic, firm, moist, light olive brown (2.5Y 5/4), moderately sorted sand.
								CL	SANDY CLAY; same as above with gravel, moist, very slightly sticky, plastic, fine to medium sand, moderately sorted, olive (5Y 5/3), moderately soft.
	8	12	4/4	1142	0	10		ML	SILTY CLAYEY SAND; above grading into silty clayey sand, very slightly sticky, slightly plastic, moderately soft, some gravel, sand moderately sorted, moist, light olive brown (2.5Y 5/3).
								SP	SAND; grading to fine sand with fines (silt & clay), wet, very slightly sticky, slightly plastic, soft, moderately sorted, olive brown (2.5Y 4/3).  TD : 12' Screen : 5-15' Water Sample : 0950 hrs

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST106-GP-02
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 6.4'
	SUBSITE: Tank 106	LOGGED BY: S. Jones
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/30/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
								NR	NO RECOVERY; gravel road grade.
	0	4	3.5/4	1057	0			CL	CLAY W/ SAND; clay with some sand, dry, very slightly sticky, slightly plastic, firm, very dark gray (5Y 3/1), very dark gray, grading into...
							5	ML	SANDY CLAYEY SILT; very slightly plastic, fine grained sand, light olive brown (2.5Y 5/3), moderately soft, dry.
								ML	SANDY CLAYEY SILT; same as above, moist, with some gravel grading into...
	4	8	4/4	1105	0			ML	SANDY CLAY; moderately sorted, fine sand, moist, very slightly sticky, slightly plastic, moderately firm, light olive brown (2.5Y 5/4) light olive brown.
								ML	SANDY CLAY; same as above.
								ML-GP	SANDY CLAY W/ GRAVEL; sandy clay with gravel, wet, very slightly sticky, slightly plastic to plastic, poorly sorted, light yellowish brown (2.5Y 6/3) light yellow brown, some gravel.
	8	12	4/4	1110	0		10	CL	SANDY SILTY CLAY; wet, very slightly sticky, slightly plastic, moderately soft, moderately well sorted sand, light olive brown (2.5Y 5/4) light olive brown.
								ML	SANDY CLAYEY SILT; very slightly sticky, very slightly plastic, wet, poorly sorted sand, coarse sand, soft, light olive brown (2.5Y 5/4).
									TD : 12' Screen : 2-12' Water Sample : 1111 hrs

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST106-GP-03
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 6.65'
	SUBSITE: Tank 106	LOGGED BY: S. Jones
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/30/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
	0	4	2/4	1018	0			NR	NO RECOVERY; some gravel with sand.
								CL	CLAY W/ SAND; dry, very slightly sticky, plastic, very dark gray (3/N), firm.
								GP	SAND GRAVEL; poorly sorted sand and gravel, granular, moist, non sticky, non plastic, yellowish brown (10YR 5/4).
								CL-SW	CLAY W/ SAND; clay with some sand, firm, dry, very slightly sticky, slightly plastic, poorly sorted, very dark gray (3/N).
								CL	CLAY W/ SAND; same as above.
							5	CL-SW	CLAY W/ SAND; poorly sorted sand, and some small gravel, non sticky, granular, grayish brown (2.5Y 5/2).
	4	8	3.5/4	1031	0			CL-SW	CLAY W/ SAND; moist, very slightly sticky, very slightly plastic, firm, moderately sorted, dark grayish brown (2.5Y 4/2), grading into ...
								CL-SW	CLAY W/ SAND; moderately sorted, medium sand, wet, nonsticky, nonplastic, granular, olive (5Y 4/3).
								CL	SANDY CLAY; nonsticky, very slightly plastic, moderately soft, light yellowish brown (2.5Y 6/4).
								NR	NO RECOVERY; slough
								CL-SW	CLAY W/ SAND; clay with some sand, very slightly sticky, plastic, soft, moist, moderately sorted, light olive brown (2.5Y 5/4).
								SW	SAND; poorly sorted sand (med to coarse sand w/ gravel) granular, wet, olive (5Y 5/3).
	8	12	4/4	1044	0		10	CL-SP	CLAY W/ SAND; very slightly sticky, slightly plastic, moist, soft, light olive brown (2.5Y 5/3), grading to..
								SC	CLAYEY SAND; clayey sand + gravel, poorly sorted, very slightly sticky, very slightly plastic, soft, moist, light yellowish brown (2.5Y 6/4).
								SC	CLAYEY SAND; same as above, but more clay with sand.
TD : 12 Screen : 2-12' Water Sample : 1037 hrs									

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST106-GP-04
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 6.57'
	SUBSITE: Tank 106	LOGGED BY: S. Jones
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/30/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type	SOIL DESCRIPTION
	TOP	BOT						Graphic Log	
								Fill	FILL; gravel road grade.
0	4	4/4	1155	0				GC	CLAY W/ SAND; moderately sorted, non sticky, very slightly plastic, dry, firm, grading in color from very dark gray (N3) to dark gray (5Y 4/1), some gravel.
							5	GC	CLAY W/ SAND; same as above, very dark gray (3/N).
4	8	4/4	1202	0				SM-SC	CLAYEY SILTY SAND; very slightly sticky, slightly plastic, soft, moist, well-moderately sorted sand, fine to medium light yellowish brown (2.5Y 6/3).
								SM-SC	SAND W/ CLAY & SILT; fine to medium sand with some clay and silt, wet, slightly plastic, soft, moderately sorted, light olive brown (2.5Y 5/).
								CL	SANDY SILTY CLAY; slightly sticky, slightly plastic, moderately sorted sand, moderately soft, moist, light olive brown (2.5Y 5/3).
								CL	SANDY SILTY CLAY; very slightly sticky, slightly plastic, firm, moist, fine to medium sand, moderately sorted, moderately firm, light olive brown (2.5Y 5/3).
8	12	4/4	1213	0			10	CL	SANDY SILTY CLAY; sandy silty clay w/ increasing gravel, not well sorted, medium to coarse sand, wet, very slightly sticky, slightly plastic, moderately soft, light olive brown (2.5Y 5/3).
								SM-SC	SAND W/ SILT & CLAY; not well sorted, nonsticky, very slightly plastic, moist, moderately sorted, some small gravel, light olive brown (2.5Y 5/3).
									TD : 12' Screen : 2-12' Water Sample : 1219 hrs

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST111-GP-01
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 5.7'
	SUBSITE: Tank 111	LOGGED BY: Schuller / Conoly
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/25/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type  Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
	0	4	4/4	0802	0		0	Concrete	CONCRETE; surface material, concrete dust sloughs.
								CL	SILTY CLAY; very dark gray (N 3/), well sorted, slightly plastic, slightly firm, grades to...  Sample: UST 111-GP-01 (1.0-2.0) 0802 hrs
							5	CL	SILTY CLAY; olive (5Y 4/3), some very fine + fine sand, moderately sorted, slightly plastic, firm.  Mottled: olive (5Y 5/6) white (5Y 8/1) black (5Y 2.5/1) <5% each.  Sample: UST 111-GP-01 (4.0-5.0) 0811 hrs
	4	8	4/4	0811	0			CL	SILTY CLAY; olive (5Y 4/4), w/ 40% mottles yellowish brown (10YR 5/8), some very firm sand, well sorted, plastic, moderately firm.
								CL	CLAY; clay with trace sand, dark olive gray (5Y 3/2), well sorted, plastic, slightly firm.
								SC	CLAYEY SAND; very firm to firm sand, some coarse to medium sand, grades to pale yellow (5Y 7/3), poorly sorted, react w/ HCL (calcareous), slightly plastic, loose.
	8	12	4/4	0820	0		10	SC	CLAYEY SAND; same as above.  Sample: UST111-GP-01 (9.0-10.0) 0820 hrs
								SC	CLAYEY SAND; with fine sand, trace medium sand to granular, olive (5Y 5/4), poorly sorted, mottled 10% w/ light olive brown (2.5Y 5/6), slightly plastic, slightly firm.
								CL	SILTY CLAY; possible slough (moist) silty clay w/ very fine sand, olive gray (5Y 4/2), well sorted, plastic, soft, saturated.
	12	15	3/3	0830	0		15	SC	CLAYEY SAND; clayey sand grading to sand, very firm, sand to gravel (occasional - black), wet, olive gray (5Y 4/2), yellowish brown mottles 20% (10Y2 5/6), poorly sorted, soft, slightly plastic.  TD : 15' Screen 5-10' Water Sample : 0840 hrs

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST111-GP-02
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 5.8'
	SUBSITE: Tank 111	LOGGED BY: B. Schuller
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/24/99 - 8/25/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type	SOIL DESCRIPTION
	TOP	BOT						Graphic Log	
	0	4	3/4	1105	0		0	Concrete	CONCRETE
								CL	CLAY; trace fine sand, black (N 2.5/) grading to gray (N 6/), slightly soft, slightly moist.
	4	8	4/4	1110	0		5	CL	CLAY; dark gray (N 4/4), well sorted, olive mottling between 4.5' and 7', firm, plastic, slightly moist.  1114 hrs apparent hydraulic line blow out on geoprobe, work delayed.
								CL	CLAY; dark olive gray (5Y 3/2), wet.
	8	12	4/4	0735	0		10	SC	CLAYEY SAND; very fine to fine, olive (5Y 4/4), coarse sand interval at 10'4" about 1/4" thick, moderately sorted, slightly plastic, saturated, slightly firm.
								NR	NO RECOVERY; sluff.
	12	15	2/3	0745	0		15	SC	CLAYEY SAND; same as above clayey sand interval, mottled with light olive brown (2.5Y 5/6).  TD : 15' Screen : 5-10' Water Sample : 0810 hrs

LOCATION OF BOREHOLE									PROJECT NO.: G0069-226G0401		BOREHOLE DESIGNATION: UST111-GP-03	
									CLIENT: US Navy		SURFACE ELEVATION:	
									SITE: Moffett Federal Airfield		DEPTH TO WATER: 7.2'	
									SUBSITE: Tank 111		LOGGED BY: B. Schuller	
									DRILLING CO.: Fast-Tek		DRILLING DATE(s): 8/24/99	
									DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core			
SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type		SOIL DESCRIPTION		
	TOP	BOT						Graphic	Log			
	0	4	4/4	1000	0			CL		CLAY; clay with trace very fine sand, black (N 2.5/), grades to dark gray (N 4/), firm, grades to blocky at 4', numerous roots (grass at surface).		
	4	8	4/4	1010	0		5	CL		CLAY; clay with trace very fine sand, gray (5Y 6/1) to light gray (5Y 7/1), firm but grades to slightly soft at 8', heavily mottled with olive (5Y 5/4) and light gray from 6.5' to 7.5', numerous roots, moist.		
								SC		CLAYEY SAND; clayey very fine sand, light olive gray (5Y 6/2), abundant coarse sand and pebbles, very moist, soft, calcareous roots.		
	8	12	4/4	1015	0		10	CL		SANDY CLAY; very fine sand, dark gray (5Y 4/1) with greenish gray mottles (5GY 6/1), mottles at approximately 10', color grades to very dark gray (N 3/), numerous roots, shell fragments (like clam), moist, slightly soft.		
								CL		SANDY CLAY; same as above.		
	12	15	3/3	1030	0			SC		CLAYEY SAND; fine to coarse sand, light gray (5Y 7/1), poorly sorted, loose, saturated.		
							15	SC		CLAYEY SAND; fine, olive (5Y 5/4), firm, moderately sorted, very moist.		
										TD : 15' Screen : 5-15' Water Sample : 1220 hrs		

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST111-GP-04
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 5.56'
	SUBSITE: Tank 111	LOGGED BY: B. Schuller
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/24/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type  Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
	0	.5	3.5/3.5	0915	NA		0-0.5	Asphalt	ASPHALT
							0.5-1.5	Fill	FILL; base coarse.
	.5	4	4/4	0920	6		1.5-4	CL	CLAY; clay with some very fine sand, very dark gray (N 3/), grades to gray (N6/), with some light gray mottles (N 7/) at bottom of interval, well sorted, plastic, grades to slightly plastic/slightly blocky, trace roots, firm.
							4-5	CL	CLAY; trace to some very fine sand, gray (N 6/) with numerous mottles of light gray (N 7/) and olive (5Y 5/6), firm, becomes sorted at 6', well sorted, slightly plastic, slightly moist.
	4	8	4/4	0925	2		5-8	CL	CLAY; trace very fine sand, dark gray (5Y 4/1), with some light gray (5Y 7/1) mottles, snail shell, slightly moist.
							8-10	CL	CLAY; clay and very fine to fine sand, light gray (5Y 7/1), soft, gravel/pebbles in clay matrix at 10' 2", very moist, roots, sand content increases slightly with depth.
							10-12	CL	CLAY; same as above, but saturated, occasional coarse grain.
	12	16	3/3	0945	2		12-16	SP	SAND; fine, olive (5Y 5/4), very moist to saturated.
							16-15		TD : 16' Screen : 5-15' Water Sample : 1105 hrs

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST116-GP-01
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 7.05'
	SUBSITE: Tank 116	LOGGED BY: Conoly
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/26/99
	DRILLING PERSONNEL/METHOD: Direct Push 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
								Asphalt	ASPHALT
	0	4	4/4	1025	0			CL	CLAY W/ SILT; clay w/ silt and gravel, poorly sorted, very dark gray (5YR 3/1), slightly plastic, dry. Sample: (1.0-2.0) 1031 hrs
								CL	CLAY W/ SILT; black (5YR 2.5/1), dry, slightly plastic, firm.
								CL	CLAY W/ SILT; same as above but well sorted.
								CL-SM	CLAY W/ SILT AND SAND; dark gray (5Y 4/1), moderately sorted, slightly plastic, firm, dry. Sample: (4.0-5.0) 1043 hrs
								CL-SM	CLAY W/ SILT AND SAND; same as above.
	4	8	4/4	1030	0			CL-ML	CLAY W/ FINE SAND AND SILT; well sorted, slightly plastic, firm, dry, gray (5Y 6/1), white mottles.
								CL-ML	CLAY W/ FINE SAND AND SILT; same as above, grading to....
								CL	SANDY CLAY; very fine sand, light olive gray (5Y 6/2), well sorted, plastic, moist, firm, grading to....
	8	12	4/4	1038	0			SC	CLAYEY SAND; fine sand with some granules, pale olive (5Y 6/3), some strong red mottles, pliable, moderately firm, moist, grading to....
								GP	SANDY GRAVEL; olive gray (5Y 4/2), moderately loose, nonpliable, saturated.
									TD : 12' Screen : 0-10' Water Sample : 1102 hrs

LOCATION OF BOREHOLE								PROJECT NO.: G0069-226G0401		BOREHOLE DESIGNATION: UST116-GP-02	
								CLIENT: US Navy		SURFACE ELEVATION:	
								SITE: Moffett Federal Airfield		DEPTH TO WATER: 7.97'	
								SUBSITE: Tank 116		LOGGED BY: Conoly	
								DRILLING CO.: Fast-Tek		DRILLING DATE(s): 8/26/99	
								DRILLING PERSONNEL/METHOD: Direct Push, 2" macro Core			
SAMPLER TYPE	SAMPLE DEPTH		RECOVERED / DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type	SOIL DESCRIPTION		
	TOP	BOT							Graphic Log		
								Asphalt	ASPHALT		
								Fill	FILL; asphalt + base coarse fill.		
	0	4	4/4	1110	0			CL-SP	CLAY W/ SAND; fine sand, black (5Y 2.5/1) (3-4' some white mottles), well sorted, slightly plastic, dry, firm.		
						5		CL-SP	CLAY W/ SAND; clay with fine sand, very dark gray (5Y 3/1), mottles white + light olive brown, well sorted, plastic.		
	4	8	4/4	1115	0			CL-SP	CLAY W/ SAND; same as above, increasing white mottles, occasional coarse grain.		
								CL-SP	CLAY W/ SAND; fine sand, dark gray (2.5Y 4/1), plastic, dry, well sorted, grades to..		
								CL-SP	CLAY W/ SAND; same as above, with 40% white mottles.		
	8	12	4/4	1119	0	10		SC	CLAYEY SAND; fine grained, light olive brown (2.5Y 5/3), plastic, moist, slightly firm.		
								SC	CLAYEY SAND; fine grained, some coarse, light brownish gray (2.5Y 6/2), saturated, plastic, moderately soft, grades to..		
								SP-CL	SAND W/ CLAY; fine sand with clay, olive brown (2.5Y 4/3), saturated, nonplastic, moderately firm, well sorted.		
	12	16	4/4	1129	0			SP-CL	SAND W/ CLAY; well sorted, dark olive brown (2.5Y 3/3), saturated.		
						15		SP-CL	SAND W/ CLAY; fine sand, dark gray brown (2.5Y 4/2), well sorted, non-plastic, moderately firm.		
								SP	SAND; fine sand, black (5Y 2.5/1), well sorted, non-plastic, moderately firm; dense, wet.		
								TD : 16' Screen : 5-15' Water Sample : 1149 hrs			

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST116-GP-03
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 6.39'
	SUBSITE: Tank 116	LOGGED BY: Conoly
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/26/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" Macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED / DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
							Asphalt	ASPHALT FILL; coarse base.	
	0	4	3.5/4	1155	0		Fill		
							CL-SP	CLAY W/ SOME SAND; fine sand, gray (5Y 6/1) increasing white mottles with depth, slightly plastic, well sorted, dry, firm.	
	4	8	4/4	1202	0		CL-SP	CLAY W/ SOME SAND; dark gray (5Y 4/1), well sorted, slightly plastic, dry, firm, some light gray mottles (5Y 7/1) + some olive mottles (7'-8' occasional granule).	
							CL	SANDY CLAY; fine sand, greenish gray (5GY 6/1), plastic, moist, firm, well sorted, grades to..	
	8	12	4/4	1209	0		SC	CLAYEY SAND; fine (some coarse) greenish gray (5GY 6/1), moderately sorted, moist, plastic, slightly firm.	
							SC-GW	CLAYEY SAND W/ GRAVEL; greenish gray (5GY 5/1), clayey sand grades to include sand + gravel, poorly sorted, moist. At bottom, sandy gravel, loose, wet.	
							GW	SANDY GRAVEL; dark yellowish brown (10YR 4/4), moist, moderately dense, non-plastic, poorly sorted. NO RECOVERY; logged from sample sleeve.	
	12	16	0/4	1215	0		NR	12' clayey sand, fine w/ some coarse greenish gray (5GY 6/1), moderately sorted, slightly plastic, saturated, moderately loose. 16' fine to coarse sand, moderately sorted, dark olive gray, saturated, moderately loose.  TD : 16 Screen : 6-16' Water Sample : 1235 hrs	

<b>LOCATION OF BOREHOLE</b>	PROJECT NO.: G0069-226G0401	BOREHOLE DESIGNATION: UST116-GP-04
	CLIENT: US Navy	SURFACE ELEVATION:
	SITE: Moffett Federal Airfield	DEPTH TO WATER: 7.3'
	SUBSITE: Tank 116	LOGGED BY: Conoly
	DRILLING CO.: Fast-Tek	DRILLING DATE(s): 8/26/99
	DRILLING PERSONNEL/METHOD: Direct Push, 2" macro Core	

SAMPLER TYPE	SAMPLE DEPTH		RECOVERED DRIVEN	TIME	PID READING	CHEMICAL ANALYSIS	DEPTH (ft.)	USCS Soil Type Graphic Log	SOIL DESCRIPTION
	TOP	BOT							
							0	Asphalt	ASPHALT
							0	Fill	FILL; coarse base fill
	0	4	2/4	0930	0		0	CL-SP	CLAY W/ SAND; clay w/ fine sand, black (N/2.5), moderately sorted, very firm, dry
							0	CL	CLAY; gray (10Y2 5/1), mottled w/ white well sorted, firm, dry, slightly plastic.
							0	CL	CLAY; same as above.
							5		Sharp contact: Clay w/ 2" gravel.
	4	8	3.5/4	0935	0		5	CL-ML	CLAY W/ SILT; gray (10YR 5/1), mottled w/ some white, few yellow brown mottles, well sorted, slightly plastic, firm, dry.
							10	NR	NO RECOVERY; slough (6" of slough in 8-12' interval).
	8	12	4/4	0942	3.5		10	CL	SANDY CLAY; very fine to fine sand, no visible staining or odors, light olive gray (5Y 6/2), some coarse grains at 10', some roots, moderately plastic, dry, moderately sorted, firm.
					1.0			CL	SANDY CLAY; very fine sand, well sorted, moist, plastic, slightly firm, olive gray (5Y 5/2).
								GC	GRAVEL W/ CLAY; 2" gravel with clay, sharp contact.
	12	16	4/4	0951	0		10	CL	SANDY CLAY; fine sand, well sorted, olive (5Y 4/4), with abundant black mottles, some strong brown mottles, plastic, slightly firm, grades to..
							15	CL-SP	SAND W/ CLAY; fine sand with clay, well sorted, moderately dense, brown (10YR 4/3) w/ strong brown mottles (roots), grades to..
							15	CL	SANDY CLAY; very fine sand, with roots, well sorted, olive gray (5Y 4/2), firm, slightly plastic.
							15	CL-SP	SAND W/ CLAY; fine sand w/ clay, well sorted, saturated, slightly loose, ligh yellow brown (2.5Y 6/4), nonplastic.
	16	20	4/4	1001	0		15	CL	SILTY CLAY; dark gray (2.5Y 4/1), well sorted.
							20	SW	SANDY GRAVEL; sharp contact, poorly sorted, saturated, loose to slightly loose, dark gray (2.5Y 4/1), saturated interval.
							20		TD : 20' Screen : 10'-20' Water Sample : 1015 hrs

**APPENDIX B**

**SANTA CLARA COUNTY TANK CLOSURE INSPECTION INFORMATION**



**MOFFETT FEDERAL AIRFIELD  
TANK CLOSURE REPORT  
SANTA CLARA COUNTY TANK CLOSURE INSPECTION REPORT LIST**

<b>Tank</b>	<b>Santa Clara County Tank Closure Inspection Report</b>
15	Included
18	NA
22	NA
28	Included
30	NA
31	NA
41B	Included
54	NA
55	NA
57	NA
59	NA
62	NA
62A	NA
63	NA
64	NA
66	Included
67	Included
68	NA
69	NA
77	Included
78	Included
86A	Included
86B	Included
88	Included
91	NA
106	NA
110	Included
111	NA
116	NA
130	NA

Notes:

NA Report not currently available, TtEMI will continue try and obtain the report, if available

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

OFFICIAL NOTICE OF INSPECTION

on file  
A

DATE	12-18-9
COMPUTER NO.	N45
ADDRESS	Wicket Field TANK 15
OWNER/OPERATOR	Wicket Field Co
MAILING ADDRESS	Compact Wicket Pass
EMPLOYEE NO.	517
WORK AREA	611
INSPECTION TYPE	
APPLICABLE LAW	<input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TI
Deleted	23	11	188		

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-reference codes(s) and must be corrected as follows:

Tank 15 - 1000 gal tank - contained diesel

Tank removed per approved removal plan & County Guidelines - by Envirotech

Transport: Eckson (#10355)

Samples collected by Sequoia Analytical

- 2 samples - tank

1 " - pipeline

Sampler: Mark Filling

Submit mixture report including results of soil analyses, disposal manifests & site photo

INSPECTOR: R. Hester

RECEIVED BY: D. M. Chack  
SIGNATURE

# CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

## CASE CLOSURE CHECKLIST Leaking Underground Storage Tank Program

This checklist, CASE CLOSURE letter, and the Unauthorized Release Report Form (URF) is to be retained by the Regional Board and Local Implementing Agency as documentation of release and subsequent closure action. All files and reports will be placed on microfiche for review.

### I. Case Information

LUSTIS Case no. \_\_\_\_\_ URF filing date \_\_\_\_\_ Closure date \_\_\_\_\_  
 Site name/county Moffett Federal Airfield/UST 15/Santa Clara County  
 Site address \_\_\_\_\_ City Mountain View Zip 94035 Phone (415) 603-9834

**Table I - Responsible Party Information**

Responsible party	Name	Address, City, Zip	Phone
Property owner	U.S. Navy	Moffett Federal Airfield, Mountain View, CA 94035	(415) 603-9834
Operator 1	NA	NA	( ) NA
Operator 2	NA	NA	( ) NA
Operator 3	NA	NA	( ) NA

NA - Not applicable

### II. Release and Site Characterization Information

Tank size(s) 1,000 gallons Fuel type(s) Diesel  
 Chemical type(s) and quantity(ies) released Diesel

**Table II - Lateral and Vertical Extent of Contamination**

Environment	Lateral (ft)	Vertical (ft)	Contaminant	Concentration Range
Soil	14X24	6	Diesel	ND to 4,400 mg/kg
Groundwater	NE	NE	NE	NE mg/l

ND - Not detected      NE - Not encountered

Soil type at the site clay, clayey silt, clayey sand, and gravel  
 Source of drinking water under SWRCB POLICY 88-63 yes  
 Were nearby wells (Domestic, Municipal, Ag, etc.) monitored? Yes x No \_\_\_\_\_  
 Wells affected (Domestic, Municipal, Ag, etc.) None

Highest and lowest depths to groundwater Not encountered at tank location  
 Seasonal groundwater gradient(s) and direction(s) Gradient is northward  
 Name of Regional Water Quality Control Plan (Basin Plan) aquifer affected (see attached)  
Santa Clara Valley  
 Surface water impacted? Yes \_\_\_\_\_ No x  
 Name of surface water body affected Not applicable

**III. Soil Remediation Information**

Soil remediation method(s) Transported to a staging area for treatment or disposal

Volume treated and/or removed Estimated 50 to 100 cubic yards

Contaminated soil disposal site U.S. Navy responsible for disposal

If contamination is remaining, describe concentration range and volume (cubic yards or meters)

None remaining according to observations by Navy personnel

**Table III - Maximum documented contaminant concentrations in soil before and after cleanup**

Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)	Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene		ND	ND	6.0
TPH (Diesel)	5030	4,400	ND	6.0	Toluene		ND	ND	6.0
Other fuel	NA	NA	NA	NA	Ethylbenzene		ND	ND	6.0
Heavy metals	NA	NA	NA	NA	Xylene		ND	ND	6.0
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable ND - Not detected

**IV. Groundwater Remediation Information**

Groundwater remediation method(s) Groundwater not encountered or remediated

Volume treated and/or removed Not applicable

If contamination is remaining, describe concentration range and volume (gallons or liters)

Not applicable

**Table IV - Maximum documented contaminant concentrations in groundwater before and after cleanup**

Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)	Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable

**V. Closure**

Does Regional Board concur with closure? Yes \_\_\_\_\_ No \_\_\_\_\_

Rationale for closure \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location of reports on file (Agency/Room) \_\_\_\_\_

County \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

Regional Board office \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

# CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

## CASE CLOSURE CHECKLIST Leaking Underground Storage Tank Program

This checklist, CASE CLOSURE letter, and the Unauthorized Release Report Form (URF) is to be retained by the Regional Board and Local Implementing Agency as documentation of release and subsequent closure action. All files and reports will be placed on microfiche for review.

### I. Case Information

LUSTIS Case no. \_\_\_\_\_ URF filing date \_\_\_\_\_ Closure date \_\_\_\_\_  
 Site name/country Moffett Federal Airfield/UST 28/Santa Clara County  
 Site address \_\_\_\_\_ City Mountain View Zip 94035 Phone (415) 603-9834

**Table I - Responsible Party Information**

Responsible party	Name	Address, City, Zip	Phone
Property owner	U.S. Navy	Moffett Federal Airfield, Mountain View, CA 94035	(415) 603-9834
Operator 1	NA	NA	( ) NA
Operator 2	NA	NA	( ) NA
Operator 3	NA	NA	( ) NA

NA - Not applicable

### II. Release and Site Characterization Information

Tank size(s) 150 gallon Fuel type(s) Diesel  
 Chemical type(s) and quantity(ies) released None

**Table II - Lateral and Vertical Extent of Contamination**

Environment	Lateral (ft)	Vertical (ft)	Contaminant	Concentration Range
Soil	NA	NA	NA	NA mg/kg
Groundwater	NE	NE	NE	NE mg/l

NA - Not applicable NE - Not encountered

Soil type at the site clay, clayey silt, and clayey sand

Source of drinking water under SWRCB POLICY 88-63 Yes

Were nearby wells (Domestic, Municipal, Ag, etc.) monitored? Yes x No \_\_\_\_\_

Wells affected (Domestic, Municipal, Ag, etc.) None

Highest and lowest depths to groundwater Not encountered at tank location

Seasonal groundwater gradient(s) and direction(s) Gradient is northward

Name of Regional Water Quality Control Plan (Basin Plan) aquifer affected (see attached)

Santa Clara Valley

Surface water impacted? Yes \_\_\_\_\_ No x

Name of surface water body affected Not applicable

**III. Soil Remediation Information**

Soil remediation method(s) None

Volume treated and/or removed Not applicable

Contaminated soil disposal site Not applicable

If contamination is remaining, describe concentration range and volume (cubic yards or meters)

Not applicable

**Table III - Maximum documented contaminant concentrations in soil before and after cleanup**

Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)	Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene		ND	-	4.0
TPH (Diesel)		ND	-	4.0	Toluene		ND	-	4.0
Other fuel		16	-	4.0	Ethylbenzene		ND	-	4.0
Heavy metals	NA	NA	NA	NA	Xylene		ND	-	4.0
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable ND - Not detected

**IV. Groundwater Remediation Information**

Groundwater remediation method(s) Groundwater not encountered or remediated

Volume treated and/or removed Not applicable

If contamination is remaining, describe concentration range and volume (gallons or liters)

Not applicable

**Table IV - Maximum documented contaminant concentrations in groundwater before and after cleanup**

Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)	Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable

**V. Closure**

Does Regional Board concur with closure? Yes \_\_\_\_\_ No \_\_\_\_\_

Rationale for closure \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location of reports on file (Agency/Room) \_\_\_\_\_

County \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

Regional Board office \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930  
OFFICIAL NOTICE OF INSPECTION

DATE	1-7-93
RECHECK DATE	
EMPLOYEE NO.	817
WORK AREA	611
INSPECTION TIME	09:50
UOA/HAZL	NAS Moffett Field Tank # 41K
ADDRESS	Moffett Field CA
OWNER/OPERATOR	
MAILING ADDRESS	
APPLICABLE LAW	<input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME
<del>1</del>	<del>1</del>	<del>1</del>	<del>1</del>		

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

3000 gal. oil-water separator removed - concrete constructed tank.

2 soil samples collected under tank. 127 Sequoia Analytical

Above tank not considered w/c tank for regulatory purposes.

No closure report required

INSPECTOR: R. Holston

RECEIVED BY: D. McCracken  
SIGNATURE

# CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

## CASE CLOSURE CHECKLIST Leaking Underground Storage Tank Program

This checklist, CASE CLOSURE letter, and the Unauthorized Release Report Form (URF) is to be retained by the Regional Board and Local Implementing Agency as documentation of release and subsequent closure action. All files and reports will be placed on microfiche for review.

NOTE: Tank 41B is an above ground tank.

### I. Case Information

LUSTIS Case no. \_\_\_\_\_ URF filing date \_\_\_\_\_ Closure date \_\_\_\_\_  
 Site name/country Moffett Federal Airfield/UST 41B/Santa Clara County  
 Site address \_\_\_\_\_ City Mountain View Zip 94035 Phone (415) 603-9834

**Table I - Responsible Party Information**

Responsible party	Name	Address, City, Zip	Phone
Property owner	U.S. Navy	Moffett Federal Airfield, Mountain View, CA 94035	(415) 603-9834
Operator 1	NA	NA	( ) NA
Operator 2	NA	NA	( ) NA
Operator 3	NA	NA	( ) NA

NA - Not applicable

### II. Release and Site Characterization Information

Tank size(s) 3,000 gallon Fuel type(s) Oil/Water separator  
 Chemical type(s) and quantity(ies) released None

**Table II - Lateral and Vertical Extent of Contamination**

Environment	Lateral (ft)	Vertical (ft)	Contaminant	Concentration Range
Soil	NA	NA	Gasoline	ND to 4.6 mg/kg
Groundwater	NE	NE	NE	NE mg/l

NA - Not applicable      NE - Not encountered      ND - Non detect

Soil type at the site clay, clayey silt, clay sand, and gravel

Source of drinking water under SWRCB POLICY 88-63 Yes

Were nearby wells (Domestic, Municipal, Ag, etc.) monitored? Yes x No \_\_\_\_\_

Wells affected (Domestic, Municipal, Ag, etc.) None

Highest and lowest depths to groundwater Not encountered at tank location

Seasonal groundwater gradient(s) and direction(s) Gradient is northward

Name of Regional Water Quality Control Plan (Basin Plan) aquifer affected (see attached)  
Santa Clara Valley

Surface water impacted? Yes \_\_\_\_\_ No x

Name of surface water body affected Not applicable

**III. Soil Remediation Information**

Soil remediation method(s) Not applicable

Volume treated and/or removed Not applicable

Contaminated soil disposal site Not applicable

If contamination is remaining, describe concentration range and volume (cubic yards or meters)

Not applicable

**Table III - Maximum documented contaminant concentrations in soil before and after cleanup**

Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)	Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)
TPH (Gas)		4.6	ND	4.0	Benzene		0.012	ND	4.0
TPH (Diesel)	NA	NA	NA	NA	Toluene		0.085	ND	4.0
Other fuel	NA	NA	NA	NA	Ethylbenzene		0.061	ND	4.0
Heavy metals	NA	NA	NA	NA	Xylene		0.041	ND	4.0
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable ND - Not detected

**IV. Groundwater Remediation Information**

Groundwater remediation method(s) Groundwater not encountered or remediated

Volume treated and/or removed Not applicable

If contamination is remaining, describe concentration range and volume (gallons or liters)

Not applicable

**Table IV - Maximum documented contaminant concentrations in groundwater before and after cleanup**

Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)	Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable

**V. Closure**

Does Regional Board concur with closure? Yes \_\_\_\_\_ No \_\_\_\_\_

Rationale for closure \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location of reports on file (Agency/Room) \_\_\_\_\_

County \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

Regional Board office \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

Sump 66

OFFICIAL NOTICE OF INSPECTION

DBA/NAHL Naval Air station	Sump 66	DATE 6/7/90
ADDRESS MUFFET FIELD	BAYVIEW	RECHECK DATE
OWNER/OPERATOR		EMPLOYEE NO. 6038
MAILING ADDRESS		WORK AREA 605
APPLICABLE LAW <input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other		INSPECTION TIME

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS						TIME
	23	00	188							

VIOLATIONS	CLASS		
<b>HAZARDOUS WASTES</b>	1		11
Hazardous Waste Determ.			1
EPA ID Number			2
Storage, 90 Days	3		4
Storage, Containers	5		6
Storage, Tanks	7		8
Storage, Security	9		10
Pre-Transportation Requirements			11
Registered Hauler	12		13
Manifests			14
Disposal	15		16
Preparedness			17
Records, Reports			18
Local Permit			19
<b>HAZARDOUS MATERIALS STORAGE</b>			
Contingency Plan	20		
Employee Training	21		
Permit to Operate	22		
Approved Construction	23		
Monitoring System Installed	24		
Monitoring Operational	25		
Unauthor. Releases, Occurrence	26		
Unauthor. Releases, Reports	27		
Abandonment	28		
<b>OCCUPATIONAL HAZARDS</b>			
General Physical Hazard	37		
General Safety Hazard	38		
Personal Protection	39		
Toilets, Wash Facilities	40		
Eating Area	41		
Material Labeling	42		
Employee Training	43		
General Sanitation	44		

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

Three samples were taken at Sump 66, samples were taken at the west, ~~middle~~ north (side walk) & under the sump.

Test for volatile organic, semi-volatile and TPH D & G.

Submit a copy of the laboratory results to this office.

INSPECTOR: *[Signature]*

RECEIVED BY: *[Signature]*  
SIGNATURE

Sample 606

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
TOXICS CONTROL UNIT  
2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

OFFICIAL NOTICE OF INSPECTION

DUA/NAME <b>NAVAL AIR STATION MOFFET FIELD SUMP #606</b>	DATE <b>5/16/90</b>
ADDRESS <b>MOFFET FIELD MTN VIEW</b>	RECHECK DATE
OWNER/OPERATOR	EMPLOYEE NO. <b>634</b>
MAILING ADDRESS	WORK AREA <b>603</b>
APPLICABLE LAW <input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other	INSPECTION TIME

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

*Concrete sump, #606*

*walkie*  
The concrete sides were demolished but unable to break the base. Apparently the base of the sump is part of the foundation footing. The contractor did not want to break the footing, but agreed to do a boring through the concrete. Sample under the footing for volatile organics EPA 8240. Submit laboratory results to the following documents *Sampling procedure.*

<i>include</i>	SAMPLE FOR VOLATILE ORGANICS	8240
	" Semi "	8270
	" TPH DEG	

INSPECTOR: *Wagner*

RECEIVED BY: *[Signature]*  
SIGNATURE

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

Tank 67

OFFICIAL NOTICE OF INSPECTION

DDA/NAME	Naval Air Station - Tank 67	DATE	6/7/90
ADDRESS	Moffett Field - XTAL VIEW	RECHECK DATE	
OWNER/OPERATOR		EMPLOYEE NO.	634
MAILING ADDRESS		WORK AREA	605
APPLICABLE LAW		INSPECTION TIME	
<input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other			

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS						TIME
	33	00	188							

VIOLATIONS	CLASS		
<b>HAZARDOUS WASTES</b>	1	11	
Hazardous Waste Determ.		1	
EPA ID Number		2	
Storage, 90 Days	3	4	
Storage, Containers	5	6	
Storage, Tanks	7	8	
Storage, Security	9	10	
Pre-Transportation Requirements		11	
Registered Hauler	12	13	
Manifests		14	
Disposal	15	16	
Preparedness		17	
Records, Reports		18	
Local Permit		19	
<b>HAZARDOUS MATERIALS STORAGE</b>			
Contingency Plan	20		
Employee Training	21		
Permit to Operate	22		
Approved Construction	23		
Monitoring System Installed	24		
Monitoring Operational	25		
Unauthor. Releases, Occurrence	26		
Unauthor. Releases, Reports	27		
Abandonment	28		
<b>OCCUPATIONAL HAZARDS</b>			
General Physical Hazard	37		
General Safety Hazard	38		
Personal Protection	39		
Toilets, Wash Facilities	40		
Eating Area	41		
Material Labeling	42		
Employee Training	43		
General Sanitation	44		

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

Two samples were taken along a 10 foot run of piping from tank 67. Both samples were taken 2 feet below the piping. Analyzed Test for TPH, G.F.D., LTX #C. Submit copies of the analytical results to this office. Also test for Benzene & Semivolatile. The soil below the piping appeared to be clean.

INSPECTOR: *[Signature]*

RECEIVED BY: *[Signature]*  
SIGNATURE

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930  
OFFICIAL NOTICE OF INSPECTION

Tank 67

DBA/NAME <b>NAVAZ AIR STATION MOFFET FIELD TANK # 67</b>	DATE <b>5/16/90</b>
ADDRESS <b>MOFFET FIELD . MTV VIEW</b>	RECHECK DATE
OWNER/OPERATOR	EMPLOYEE NO. <b>639</b>
MAILING ADDRESS	WORK AREA <b>003</b>
APPLICABLE LAW <input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other	INSPECTION TIME

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.	1	1
EPA ID Number	2	2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements	11	11
Registered Hauler	12	13
Manifests	14	14
Disposal	15	16
Preparedness	17	17
Records, Reports	18	18
Local Permit	19	19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

*Tank 67 - 20,000 gallon solvent & petroleum storage*

*\* The tank sides and ends were exposed on May 15/1990. Tuesday, Ground water was @ approx. 12 feet and seeped into the excavation pit. The four side walls of the excavation sloughed off more than six feet away from the tanks ends & sides.*

*By May 18 1990, Friday, more ground water seeped into the excavation. Three factors, ground water intrusion, sloughing of the sidewalls and a concrete ballast. Made soil sampling difficult. Four samples were taken approx. 6 feet from the ends & sides of the water line. Contractor, Scott Wald stated that a water sample was taken from the excavation pit on May 15 1990. The concrete ballast must be removed a hazardous waste. The piping to the building is still intact. Contractor is waiting for a licensed asbestos contractor to remove asbestos insulated pipes. Soil samples will be taken every 20 linear feet & must include the piping under the building. Sample for organic (8240) and TPH GADs. Unit 15115 to Ph. Office*

INSPECTOR: *Wayne J...*

RECEIVED BY: *Scott Wald*  
 SIGNATURE

OFFICIAL NOTICE OF INSPECTION

DBA/Name NAS Moffett Field Tank 77	Facility ID #	Hours	Service Code	Date 4-27-95
Address Moffett Field			189	Work Area Location 611
Contact Person Don Chuck				Emp# 817
Additional Information				Program
				Permit Exp. Date

- Hazardous Materials  
 Hazardous Waste  
 Toxic Gas  
 Medical Waste Storage & Treatment  
 Medical Waste Generator  
 Risk Management and Prevention Program

Tank Closure Inspection

1360 gal UST - to be closed in place

Excavation Geoservices performed slant borings for sample collection under each end of tank. Unable to collect soil sample at west end - water sample collected. Samples collected by NAVY Public Works & transported to Sequoia Laboratory for analysis. (Evidence seals applied)

Tank filled with concrete slurry per guidelines

- 1- Remove vent pipe & exposed fuel lines & fill
- 2- Provide manifest for tank residue
- 3- Submit closure report including sample analysis results

Received by: Donald Chude

Inspected by: R. Nelson

Page 1 of \_\_\_\_\_

Mailing Address: Dept. of Environmental Health  
 Hazardous Materials Compliance Division  
 P.O. Box 28070  
 San Jose, CA 95159-8070

Entered by: \_\_\_\_\_

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

OFFICIAL NOTICE OF INSPECTION

DATE <i>NAS Moffett Field # 78</i>	DATE <i>1-7-93</i>
ADDRESS <i>Moffett Field Ca</i>	RECHECK DATE
OWNER/OPERATOR	EMPLOYEE NO. <i>817</i>
MAILING ADDRESS	WORK AREA
APPLICABLE LAW <input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance <input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other	INSPECTION TIME <i>on RSR</i>

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME
<i>Deleted</i>	<i>23</i>	<i>11</i>	<i>188</i>		

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

*1000 gal fiberglass tank removed per closure guidelines*

*No holes exposed and no visible contamination*

*2 soil & 1 water sample collected from excavation by Segura*

*Tank transported by Erickson*

*1 - Submit closure report including analysis results, manifest & plot plan of sampling locations*

INSPECTOR: *R. Holston*

RECEIVED BY: *Eric D. W. Chubb*  
SIGNATURE

# CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

## CASE CLOSURE CHECKLIST Leaking Underground Storage Tank Program

This checklist, CASE CLOSURE letter, and the Unauthorized Release Report Form (URF) is to be retained by the Regional Board and Local Implementing Agency as documentation of release and subsequent closure action. All files and reports will be placed on microfiche for review.

### I. Case Information

LUSTIS Case no. \_\_\_\_\_ URF filing date \_\_\_\_\_ Closure date \_\_\_\_\_  
 Site name/county Moffett Federal Airfield/UST 78/Santa Clara County  
 Site address \_\_\_\_\_ City Mountain View Zip 94035 Phone (415) 603-9834

**Table I - Responsible Party Information**

Responsible party	Name	Address, City, Zip	Phone
Property owner	U.S. Navy	Moffett Federal Airfield, Mountain View, CA 94035	(415 ) 603-9834
Operator 1	NA	NA	( ) NA
Operator 2	NA	NA	( ) NA
Operator 3	NA	NA	( ) NA

### II. Release and Site Characterization Information<sup>1</sup>

Tank size(s) 1,000 gallon Fuel type(s) Water runoff from storage area  
 Chemical type(s) and quantity(ies) released None

<sup>1</sup> - Tank not used

**Table II - Lateral and Vertical Extent of Contamination**

Environment	Lateral (ft)	Vertical (ft)	Contaminant	Concentration Range
Soil	NA	NA	NA	NA mg/kg
Groundwater	NE	NE	NE	NE mg/l

NA - Not applicable NE - Not encountered

Soil type at the site clay, clayey silt, clayey sand, and gravel

Source of drinking water under SWRCB POLICY 88-63 Yes

Were nearby wells (Domestic, Municipal, Ag, etc.) monitored? Yes X No \_\_\_\_\_

Wells affected (Domestic, Municipal, Ag, etc.) None

Highest and lowest depths to groundwater Could not be determined

Seasonal groundwater gradient(s) and direction(s) Gradient is northward

Name of Regional Water Quality Control Plan (Basin Plan) aquifer affected (see attached)

Santa Clara Valley

Surface water impacted? Yes \_\_\_\_\_ No X

Name of surface water body affected Not applicable

**III. Soil Remediation Information**

Soil remediation method(s) Not applicable

Volume treated and/or removed Not applicable

Contaminated soil disposal site Not applicable

If contamination is remaining, describe concentration range and volume (cubic yards or meters)  
Not applicable

**Table III - Maximum documented contaminant concentrations in soil before and after cleanup**

Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)	Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene		ND	ND	10.0
TPH (Diesel)		ND	ND	10.0	Toluene		ND	ND	10.0
Other fuel	NA	NA	NA	NA	Ethylbenzene		ND	ND	10.0
Heavy metals	NA	NA	NA	NA	Xylene		ND	ND	10.0
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable ND - Not detected

**IV. Groundwater Remediation Information**

Groundwater remediation method(s) Not applicable

Volume treated and/or removed Not applicable

If contamination is remaining, describe concentration range and volume (gallons or liters)  
Not applicable

**Table IV - Maximum documented contaminant concentrations in groundwater before and after cleanup**

Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)	Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable

**V. Closure**

Does Regional Board concur with closure? Yes \_\_\_\_\_ No \_\_\_\_\_

Rationale for closure \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location of reports on file (Agency/Room) \_\_\_\_\_

County \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

Regional Board office \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

**SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
TOXICS CONTROL UNIT  
2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930  
OFFICIAL NOTICE OF INSPECTION**

DUA/HAUL	DATE	#
11475 Moorpark Field # 86A 86B	1-7-95	
ADDRESS	RECHECK DATE	
11475 Moorpark Field		
OWNER/OPERATOR	EMPLOYEE NO.	
UV	517	
MAILING ADDRESS	WORK AREA	
	1011	
APPLICABLE LAW	INSPECTION TIME	
<input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq. <input type="checkbox"/> S.C.C. Storage Ordinance	1011 ESK	
<input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq. <input type="checkbox"/> Title 23, Sec. 2610, et Seq. <input type="checkbox"/> Other		

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME
2 labeled	2311		188		
	2312		188		

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operations	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
General Safety Hazard	38	
Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

2 - 1116 Tanks removed per closure guidelines from adjacent police office

Tank 86A - 5000 gal gasoline  
Tank 86B 7000 gal gasoline

Holes observed on bottom of both tanks

Tanks collected by Sealed - 2 seal  
1 in air per tank  
Tanks removed by Buckson

1 - System results of sample analysis  
manifest records and plot plan of  
- sample collection

INSPECTOR: L. H. ...

SANTA CLARA COUNTY ENVIRONMENTAL HEALTH SERVICES  
 TOXICS CONTROL UNIT  
 2220 MOORPARK AVENUE, SAN JOSE, CA 95128 (408) 299-6930

OFFICIAL NOTICE OF INSPECTION

DUA/NAHL	NAS Moffett Field #88	DATE	12-18-92
ADDRESS	Moffett Field Ca	RECHECK DATE	
OWNER/OPERATOR	Medwin Park	EMPLOYEE NO.	817
MAILING ADDRESS		WORK AREA	611
APPLICABLE LAW		INSPECTION TIME	11:35
<input type="checkbox"/> Calif. H & S Code, Sec. 25100, et Seq.	<input type="checkbox"/> S.C.C. Storage Ordinance		
<input type="checkbox"/> Calif. Admin. Code, Title 22, Sec 66011, et Seq.	<input type="checkbox"/> Title 23, Sec. 2610, et Seq.	<input type="checkbox"/> Other	

COMPUTER NO.	PROGRAM	ELEMENT	SERVICE	VIOLATIONS	TIME
1266	23	11	158		

VIOLATIONS	CLASS	
<b>HAZARDOUS WASTES</b>	1	11
Hazardous Waste Determ.		1
EPA ID Number		2
Storage, 90 Days	3	4
Storage, Containers	5	6
Storage, Tanks	7	8
Storage, Security	9	10
Pre-Transportation Requirements		11
Registered Hauler	12	13
Manifests		14
Disposal	15	16
Preparedness		17
Records, Reports		18
Local Permit		19
<b>HAZARDOUS MATERIALS STORAGE</b>		
Contingency Plan	20	
Employee Training	21	
Permit to Operate	22	
Approved Construction	23	
Monitoring System Installed	24	
Monitoring Operational	25	
Unauthor. Releases, Occurrence	26	
Unauthor. Releases, Reports	27	
Abandonment	28	
<b>OCCUPATIONAL HAZARDS</b>		
General Physical Hazard	37	
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Personal Protection	39	
Toilets, Wash Facilities	40	
Eating Area	41	
Material Labeling	42	
Employee Training	43	
General Sanitation	44	

The marked items represent violations of the above-referenced codes(s) and must be corrected as follows:

*Tank Closure Inspection - Tank # 88*

*TANK REMOVED per approved closure plan & County guidelines*

*100 gal tank - Waste water*

*Transporter - Erickson (# 10359)*

*Samples collected by Sequoia Analytical*

*- Mark Eilam*

*1 soil sample collected - OK due to small amount*

*1- Submit closure report including results of soil analysis, disposal manifests and site sampling plan.*

INSPECTOR: *R. Holt*

RECEIVED BY: *Frank M. Check*  
 SIGNATURE

# CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

## CASE CLOSURE CHECKLIST Leaking Underground Storage Tank Program

This checklist, CASE CLOSURE letter, and the Unauthorized Release Report Form (URF) is to be retained by the Regional Board and Local Implementing Agency as documentation of release and subsequent closure action. All files and reports will be placed on microfiche for review.

### I. Case Information

LUSTIS Case no. \_\_\_\_\_ URF filing date \_\_\_\_\_ Closure date \_\_\_\_\_  
 Site name/county Moffett Federal Airfield/UST 88/Santa Clara County  
 Site address \_\_\_\_\_ City Mountain View Zip 94035 Phone (415) 603-9834

**Table I - Responsible Party Information**

Responsible party	Name	Address, City, Zip	Phone
Property owner	U.S. Navy	Moffett Federal Airfield, Mountain View, CA 94035	(415 ) 603-9834
Operator 1	NA	NA	( ) NA
Operator 2	NA	NA	( ) NA
Operator 3	NA	NA	( ) NA

### II. Release and Site Characterization Information

Tank size(s) 550 gallon Fuel type(s) Wastewater  
 Chemical type(s) and quantity(ies) released None

**Table II - Lateral and Vertical Extent of Contamination**

Environment	Lateral (ft)	Vertical (ft)	Contaminant	Concentration Range
Soil	NA	NA	NA	NA mg/kg
Groundwater	NE	NE	NE	NE mg/l

NA - Not applicable      NE - Not encountered

Soil type at the site clay, clayey silt, clayey sand, and gravel

Source of drinking water under SWRCB POLICY 88-63 Yes

Were nearby wells (Domestic, Municipal, Ag, etc.) monitored? Yes X No \_\_\_\_\_

Wells affected (Domestic, Municipal, Ag, etc.) None

Highest and lowest depths to groundwater Not encountered at tank location

Seasonal groundwater gradient(s) and direction(s) Gradient is northward

Name of Regional Water Quality Control Plan (Basin Plan) aquifer affected (see attached)  
Santa Clara County

Surface water impacted? Yes \_\_\_\_\_ No X

Name of surface water body affected Not applicable

**III. Soil Remediation Information**

Soil remediation method(s) Not applicable  
 Volume treated and/or removed Not applicable  
 Contaminated soil disposal site Not applicable  
 If contamination is remaining, describe concentration range and volume (cubic yards or meters)  
Not applicable

**Table III - Maximum documented contaminant concentrations in soil before and after cleanup**

Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)	Contaminant	Method used	Before (mg/kg)	After (mg/kg)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)		ND	-	6.0	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable ND - Not detected

**IV. Groundwater Remediation Information**

Groundwater remediation method(s) Not applicable  
 Volume treated and/or removed Not applicable  
 If contamination is remaining, describe concentration range and volume (gallons or liters)  
Not applicable

**Table IV - Maximum documented contaminant concentrations in groundwater before and after cleanup**

Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)	Contaminant	Method used	Before (mg/l)	After (mg/l)	Depth (ft)
TPH (Gas)	NA	NA	NA	NA	Benzene	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA	Toluene	NA	NA	NA	NA
Other fuel	NA	NA	NA	NA	Ethylbenzene	NA	NA	NA	NA
Heavy metals	NA	NA	NA	NA	Xylene	NA	NA	NA	NA
Other _____	NA	NA	NA	NA	Other _____	NA	NA	NA	NA

NA - Not applicable

**V. Closure**

Does Regional Board concur with closure? Yes \_\_\_\_\_ No \_\_\_\_\_

Rationale for closure \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Location of reports on file (Agency/Room) \_\_\_\_\_

County \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_  
 Regional Board office \_\_\_\_\_ Staff person \_\_\_\_\_ Phone \_\_\_\_\_

# County of Santa Clara

Environmental Resources Agency  
Department of Environmental Health  
2220 Moorpark Avenue  
San Jose, California 95128  
(408) 299-6930  
FAX (408) 280-6479



HAZARDOUS MATERIALS STORAGE  
 HAZARDOUS WASTE GENERATOR  
OFFICIAL NOTICE OF INSPECTION

DATE 4-12-94

DBA/NAME NAS Moffett Field Tank #110

Comments: (see marked violations on page 1)

2000 gal steel tank removed per State & county guidelines by Navy Public Works

Samples collected by NAVY and analysed by Sigvora Laboratory.

Analysis result: Sample # 4D71807 - ND  
4D71808 ND

1- Provide copy of tank/pipework <sup>disposal</sup> manifest.

2- Sample and analyse for BTXE - Done 5-4-94

3 Submit closure report including analysis data & sampling location plan

6-15-94 - Received Analysis Results for BTX  
Sample # 4E28201 & 4E28202

Received by:

Inspected by:

D. H. H. H. H.

R. Holston

Hazardous Materials Compliance Division

Samples taken? Yes No

Photos taken? Yes No