

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

*Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510)567-6700 FAX (510)337-9335 cc:458*

REMEDIAL ACTION COMPLETION CERTIFICATION

February 6, 1996

Dave Stalters
U.S. Coast Guard
2000 Embarcadero, Ste 200
Oakland, CA 94606-5337

UNDERGROUND STORAGE TANK (UST) CASE
Re: U.S. Coast Guard-Support Center, Coast Guard Island, Alameda, CA
Site No. 2911

Dear Mr. Stalters,

This letter confirms the completion of site investigation and remedial action for the five underground storage tanks (two 2,000-gallon unleaded gas tanks, one 2,000-gallon diesel tank, and two 8,000-gallon unleaded gas tanks) formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If a change in land use is proposed, the owner must promptly notify this agency.

Please telephone Juliet Shin at (510) 567-6700 if you have any questions regarding this matter.

Sincerely,

Jun Makishima, Interim Director

c: Acting Chief, Hazardous Materials Division - files
Juliet Shin, ACDEH
Kevin Graves, RWQCB
Mike Harper, SWRCB

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: 10/12/95

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy.
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Juliet Shin Title: Senior HMS

II. CASE INFORMATION

Site facility name: U.S. Coast Guard-Support Center
Site facility address: Coast Guard Island
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2911
URF filing date: 12/12/90 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:
U.S. Coast Guard 2000 Embarcadero, Ste 200 (510)535-7275
Contact: Dave Stalters Oakland, CA 94606-5337

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	2,000	Unleaded gas*	Removed	12/30/88
2	2,000	Unleaded gas*	Removed	12/30/88
3	2,000	Diesel	Removed	12/30/88
4	8,000	Unleaded gas	Removed	09/06/90
5	8,000	Unleaded gas	Removed	09/06/90

* These USTs may have stored diesel at one time.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown. No holes identified in any of the USTs.

Site characterization complete? YES

Date approved by oversight agency: 10/12/95

Monitoring Wells installed? yes Number: six

Proper screened interval? Yes. From 5- to 15-foot bgs

Highest GW depth below ground surface: 2.46'bgs Lowest depth: 8.85'bgs

Flow direction: Fluctuates between west to southeast

Leaking Underground Fuel Storage Tank Program

Most sensitive current use: Unknown

Are drinking water wells affected? NO Aquifer name: Unknown

Is surface water affected? NO Nearest affected SW name: None

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County
 1131 Harbor Bay Pkwy.
 Alameda, CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
USTs	2-8,000-gallon	Unknown	
USTs	3-2,000 gallon	Delivered to SEMCO to be prepared for recycling at Modesto Junk	Unknown
Rinsate	2,100 gallons	DeMenno Kerdoon Compton, CA 90222	12/29/88
Rinsate	800 gallons	H & H Ship Service 220 China Basin St. S.F., CA 94107	08/27/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	380		13	ND
TPH (Diesel)	NA		NA	
Benzene	0.87		0.056	ND
Toluene	0.91		0.074	ND
Xylene	33		1.9	ND
Ethylbenzene	2.4		0.18	ND

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Leaking Underground Fuel Storage Tank Program

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommisioned: NO. Will be decommisioned upon receipt of case closure.

Number Decommisioned: ----- Number Retained: -----

List enforcement actions taken: None

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Juliet Shin Title: Senior HMS
Signature: *Juliet Shin* Date: 12/21/95

Reviewed by
Name: Eva Chu Title: Hazardous Materials Specialist
Signature: *Eva Chu* Date: 12/21/95

Name: Madhulla Logan Title: Hazardous Materials Specialist
Signature: *Madhulla Logan* Date: 12/26/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response: *Approved*
RWQCB Staff Name: Kevin Graves Title: San. Engineering Asso. Date: 1/31/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

On December 30, 1988, two 2,000-gallon unleaded gasoline/diesel underground storage tanks (USTs) (Tanks 2 and 3), in a common pit by the swimming pool, and one 2,000-gallon diesel UST (Tank 1), by the small boat station, were removed from the site. There are currently six active underground storage tanks remaining at the site. No holes were observed in any of these three USTs. There was a petroleum odor detected in soils surrounding the gasoline USTs, so approximately 30 cubic yards of soil was excavated from the gasoline tank pit prior to collecting soil samples. It appears that two soil samples were collected from beneath each of the three USTs. These soil samples were analyzed for TPHg, TPH as diesel (TPHd), and BTEX. Analysis of these soil samples identified up to 14 ppb ethylbenzene and 57 ppb total xylenes from tank pit 2, and 5.1 ppb toluene, 25 ppb ethylbenzene, and 10 ppb xylenes in tank pit 3. No TPHg or TPHd was identified in these soil samples.

Leaking Underground Fuel Storage Tank Program

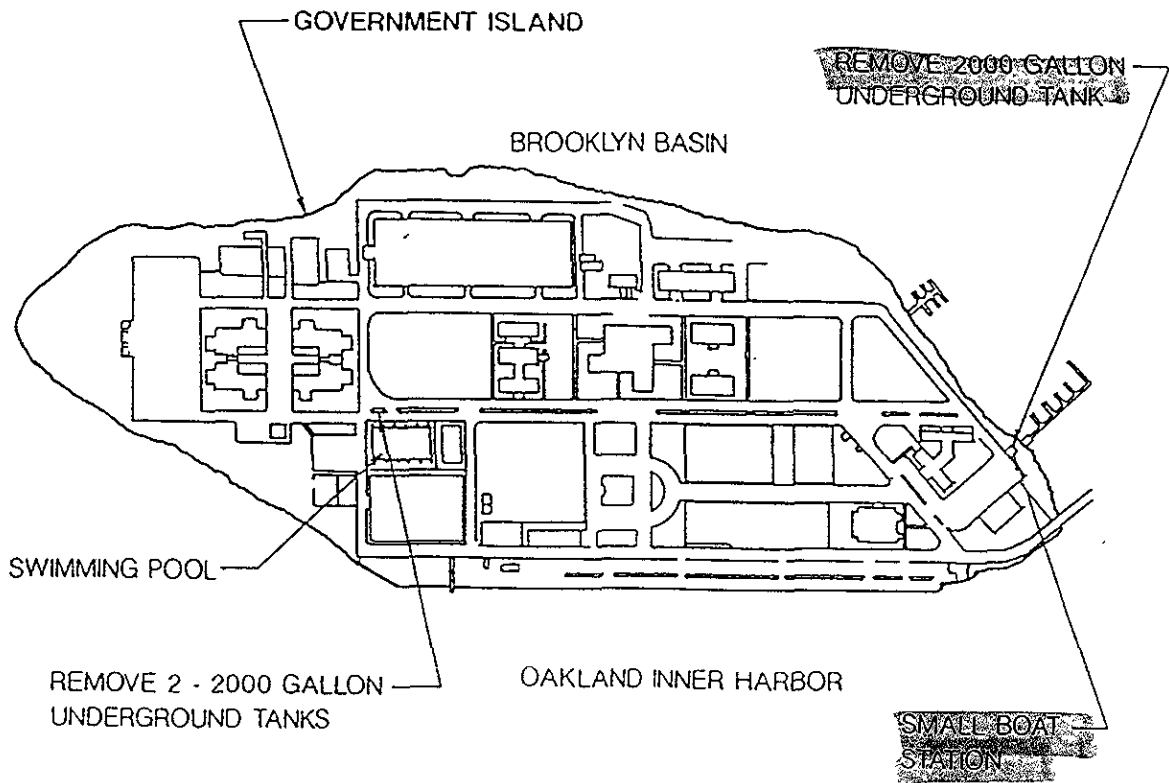
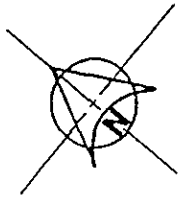
Two 8,000-gallon gasoline USTs were removed and replaced from the site on September 6, 1990 (Tank A and Tank B). Two soil samples were collected from each end of each tank from the soil/water interface (Samples A1, A2, B1, and B2).

Groundwater was observed in the tank pits. One "grab" groundwater sample was collected from both of the UST pits (A1 and B1). All samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Analysis of the soil samples identified 55 parts per million (ppm) TPHg, 0.62 ppm benzene, 0.91 ppm ethylbenzene, 0.064 ppm toluene, and 0.48 ppm total xylenes from soil sample A1 and 380 ppm TPHg, 0.87 ppm benzene, 2.4 ppm ethylbenzene, 0.91 ppm toluene, and 33 ppm total xylenes from soil sample B1. The "grab" groundwater sample collected from tank pit A identified 13,000 parts per billion (ppb) TPHg, 56 ppb benzene, 180 ppb ethylbenzene, 74 ppb toluene, and 1,900 ppb total xylenes. The "grab" groundwater sample collected from tank pit B identified 510 ppb TPHg, 0.9 ppb benzene, and 38 ppb total xylenes.

On March 31, 1993, one monitoring well, MW1-SP, was installed adjacent to the two former 2,000-gallon gasoline USTs (refer to attached figure). The well was drilled down to 20-feet bgs, and is screened from 5- to 15-feet bgs. One soil sample was collected from this location at 10-feet bgs. This sample was analyzed for TPHg and BTEX. No contaminants were identified above detection limits.

Between April 1 and 5, 1993, eight borings were emplaced in the vicinity of the two former 8,000-gallon gasoline USTs. Each boring was advanced to 20-feet bgs. Five of the eight borings were converted into monitoring wells (MW-1 through MW-5) (refer to attached figure). One soil sample was collected from seven of the borings at approximately 20-feet bgs. These samples were analyzed for TPHg and BTEX. No contaminants were identified in these samples above detection limits. It appears that these wells are also screened from 5- to 15-feet bgs.

A total of six monitoring wells have been sampled regularly at the site since April 1993 (Please refer to attached Table). Within the last several quarters, no TPHg or BTEX has been identified in any of these wells above detection limits. The contaminant concentrations appear to have attenuated. Therefore, this case appears to be ready for closure.



Tank removed on 12/30/88

SCALE NOT TO SCALE

A HUNTER ENVIRONMENTAL SERVICES, INC. COMPANY

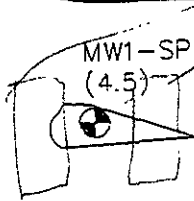
GREGG & ASSOCIATES, INC.
 597 Center Avenue, Suite 350
 Martinez, California 94553
 (415) 372-3637

FIGURE 2
 UNDERGROUND TANK LOCATION MAP
 UNITED STATES COAST GUARD
 SUPPORT CENTER - ALAMEDA
 ALAMEDA, CALIFORNIA



WAKEFIELD DRIVE


ATHLETIC FIELD



CAMPBELL BLVD

SWIMMING POOL

LEGEND

 MONITORING WELL LOCATION

(4.5) DEPTH TO GROUNDWATER



PROFESSIONAL SERVICE INDUSTRIES, INC.
3730 MT DIABLO BLVD, SUITE 345 LAFAYETTE, CA 94549
(510) 284-3070

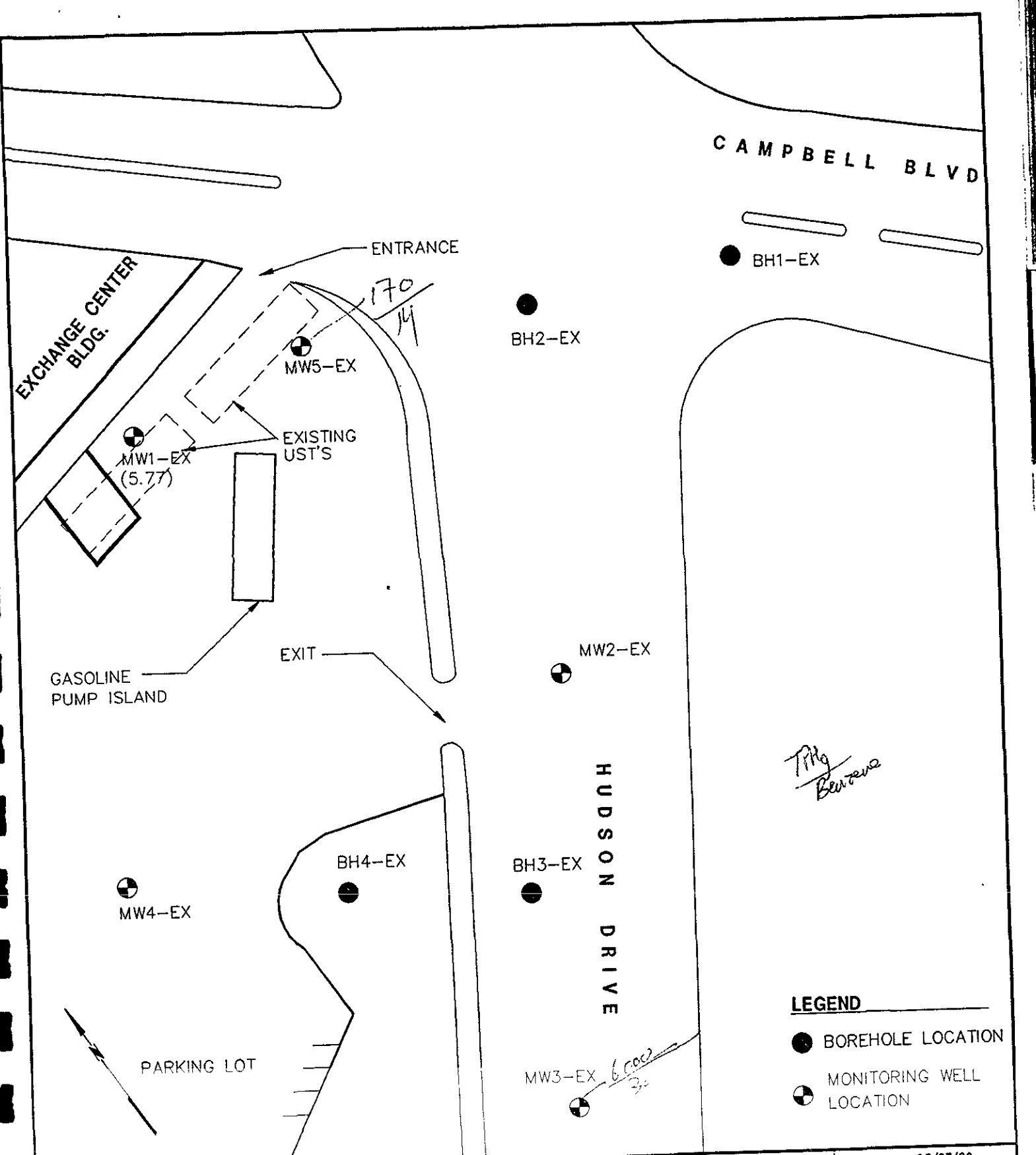
PROJECT NAME:
U.S. COAST GUARD
ALAMEDA, CA

TITLE:
MONITORING WELL
LOCATION MAP

FIGURE NO. 3

DATE:	05/07/93
DWG NO.:	34006-3A
PROJ NO.:	582-34006
DRAWN BY:	N TOOR
APP'D BY:	K. OLIVER
SCALE:	NOT TO SCALE

DWG - 3A



- LEGEND**
- BOREHOLE LOCATION
 - ⊕ MONITORING WELL LOCATION



PROFESSIONAL SERVICE INDUSTRIES, INC.
 3730 MT DIABLO BLVD., SUITE 345 LAFAYETTE, CA 94549
 (510) 284-3070

PROJECT NAME:	U.S. COAST GUARD ALAMEDA, CA	DATE:	05/07/93
TITLE:	MONITORING WELL AND BOREHOLE LOCATION MAP	DWG NO.:	34006-3
FIGURE NO. 3		PROJ NO.:	582-34006
		DRAWN BY:	NIMAN
		APP'D BY:	K. OLIVER
		SCALE:	NOT TO SCALE

C:\DWG\34006-3

Beach, California, a California-certified laboratory, for analysis. Proper chain-of-custody procedures were observed. Chain-of-custody is included with the attached analytical results.

OBSERVATIONS

The ground water in wells MW-1, MW-2, MW-3, MW-5, and MW-6 appeared clear with no determinable odors. The groundwater from well MW-4 appeared cloudy but had no determinable odor. Note: see Appendix, Groundwater Sampling Data.

LABORATORY ANALYSES

The groundwater samples were submitted to Geotest, a California certified laboratory, and analyzed for Aromatic Volatile Organics by Environmental Protection Agency (EPA) method 8020 and Total Petroleum Hydrocarbons modified for gasoline (TPH-g) utilizing EPA method 8015M, using gas chromatography with photoionization detection. The analytical results are summarized below. The complete laboratory report, including analytical results, and chain-of-custody is presented in the Appendix.

SUMMARY OF ANALYTICAL RESULTS
THIRD QUARTER 1995 GROUNDWATER MONITORING

Well Number	Date of Sample	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-g
MW-1	4/8/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	7/8/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	10/20/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	10/20/94	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	4/25/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1	7/13/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	4/8/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	7/8/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	10/20/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	10/20/94	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	4/25/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	7/13/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	4/8/93	30	N.D.	N.D.	N.D.	6,000
MW-3	7/8/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	10/20/93	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	10/20/94	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	4/25/95	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	7/13/95	N.D.	N.D.	N.D.	N.D.	N.D.

Well Number	Date of Sample	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-g	
MW-4	4/8/93	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-4	7/8/93	8.8	N.D.	N.D.	N.D.	N.D.	
MW-4	10/20/93	N.D.	N.D.	N.D.	N.D.	2,700	
MW-4	10/20/94	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-4	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-4	4/25/95	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-4	7/13/95	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-5	4/8/93	14.0	0.63	N.D.	1.5	170	
MW-5	7/8/93	3.7	0.46	N.D.	170	4,300	
MW-5	10/20/93	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-5	10/20/94	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-5	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-5	4/25/95	N.D.	N.D.	N.D.	N.D.	N.D.	
MW-5	7/13/95	N.D.	N.D.	N.D.	N.D.	N.D.	
<i>Also known as MW1-SP</i>	MW-6	4/8/93	7.4	1.2	20	20	720
	MW-6	7/8/93	N.A.	N.D.	N.D.	N.D.	610
	MW-6	10/20/93	N.D.	N.D.	N.D.	N.D.	660
	MW-6	10/20/94	N.D.	N.D.	N.D.	N.D.	200
	MW-6	1/31/95	N.D.	N.D.	N.D.	N.D.	N.D.
	MW-6	4/25/95	N.D.	N.D.	N.D.	6.8 ✓	N.D.
	MW-6	7/13/95	N.D.	0.3	N.D.	N.D.	N.D.
MCL		1.0	100	680	1,750	N/A	

Notes: All concentrations are in micrograms per liter, (ug/l) (parts per billion).
N.D. = Analytes reported as not detected above the analytical reporting limit.
The well referred to as MW-1 in the report dated December 16, 1993, is referred to as MW-6 in this report.

MCL = Maximum Contaminant Levels as allowed by the California Department of Health Services.

N/A = MCL not applicable, determined on a case-by-case basis.

DISCUSSION OF RESULTS

Based on the analytical results for this sampling event, it appears that no concentrations of TPH-g or BTEX were detected in groundwater samples collected from MW-1, MW-2, MW-3, MW-4 and MW-5. This is consistent with the results observed in the groundwater monitoring episode of Quarter 2, 1995 (4/25/95). Groundwater sampled from MW-6 revealed petroleum hydrocarbons were not detected with the exception of toluene at a concentration of