

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



November 26, 1997
page 1 of 2

H. Grant Tower III
1261 Lincoln Ave., Suite 109
San Jose CA 95125-3030

Tammy Hodge
Chevron USA, Inc.
PO Box 5004
San Ramon CA 94583-0804

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

RE: **CASE CLOSURE, STID 289**
four underground storage tanks (one 2,000-gallon gasoline, two 4,000-gallon gasoline,
and 1,000-gallon waste oil)
Former Chevron Service Station 9-1853, 850 W. Grand Ave., Oakland CA 94607

Dear Mr. Tower and Ms. Hodge,

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board (SWRCB) adopted this letter on 2/20/97. As of 3/1/97, Alameda County Health Care Services Agency, Environmental Health Services, Local Oversight Program is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. **The subject fuel leak case is closed.**

SITE INVESTIGATION AND CLEANUP SUMMARY:

Please be advised that the following conditions exist at the site:

- * Thirty-eight parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPH-g), 0.006 ppm benzene, 0.019 ppm ethylbenzene, and 0.043 ppm xylene remain *in the native soil* at this site.
- * Sixty parts per billion (ppb) TPH-g, 0.5 ppb benzene, and 29 ppb MTBE remain *in the groundwater* at this site.

If you have any questions, please call Ms. Jennifer Eberle at 510-567-6761. Thank you.

Sincerely,

Tom Peacock
Supervisor, Local Oversight Program

November 26, 1997
page 2 of 2
H. Grant Tower III
Tammy Hodge

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

cc: Joseph Theisen, Cambria, 1144-65th St., Suite B, Oakland CA 94608
Attn: Leroy Griffin, Supervisor, Hazardous Materials Program, City of Oakland, Fire
Services Agency, 505-14th St., suite 702, Oakland CA 94612
Jennifer Eberle (3 copies of letter only)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



November 26, 1997

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1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

RE: Former Chevron Service Station 9-1853, 850 W. Grand Ave., Oakland CA 94607
Case File Number 289

Dear Mr. Tower and Ms. Hodge,

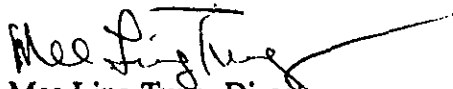
This letter confirms the completion of site investigation and remedial action for the underground storage tank(s) formerly located at the above referenced site. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) is greatly appreciated.

Based on information in the above-referenced file, 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 tank release is required.**

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung, Director

cc: Kevin Graves, RWQCB
Dave Deaner, SWRCB, UST Cleanup Fund Program
Attn: Leroy Griffin, Supervisor, Hazardous Materials Program, City of Oakland, Fire
Services Agency, 505-14th St., suite 702, Oakland CA 94612
Joseph Theisen, Cambria, 1144-65th St., Suite B, Oakland CA 94608
Jennifer Eberle (3 copies of letter only)

LOP/Completion
je.289clos.let

01-0387

ENVIRONMENTAL PROTECTION
97 JUN 29 PM 2:53

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 5/9/97

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pky**
City/State/Zip: **Alameda CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Jennifer Eberle** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Former Chevron Service Station 9-1853**
Site facility address: **850 West Grand Ave., Oakland CA 94607**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **289**
ULR filing date: **10/4/84** SWEEPS No: **N/A**

Responsible Parties: **Addresses:** **Phone Numbers:**
Attn: **Tammy Hodge**, **Chevron USA Inc.**, **PO Box 5004**, **San Ramon CA 94583-0804** **(510-842-9449)**

H. Grant Tower, III, Nakata and Tower, 111 N. Main St., Suite 309, San Jose CA 95113

<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	gasoline	removed	12/7/88
2	4,000	gasoline	removed	12/7/88
3	4,000	gasoline	removed	12/7/88
4	1,000	waste oil	removed	12/7/88

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **unknown**
Site characterization complete? **YES**
Monitoring Wells installed? **YES** Number: **13**
Proper screened interval? **YES**
Highest GW depth below ground surface: **approximately 8' bgs**
Lowest GW depth: **approximately 16' bgs**
Flow direction: **generally to the west with a very flat gradient (9/93 to 12/96 data)**
Most sensitive current use at present: **vacant lot**
Are drinking water wells affected? **NO** Aquifer name: **n/a**
Is surface water affected? **Probably not** Nearest SW name: **Lake Merritt is approx 1 mile to the east**
Off-site beneficial use impacts (addresses/locations): **n/a**

Leaking Underground Fuel Storage Tank Program

Report(s) on file? **YES** Where is report(s) filed?

Alameda County, Environmental Health, 1131 Harbor Bay Pky, Alameda CA 94502-6577

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>
Tank	4 USTs	disposed to Erickson	12/7/88
Soil	26 yd3 (Waste oil UST)	disposed to Class I site: Chemical Waste Mgmt in Kettleman City CA	12/9/88
	700 yd3	disposed to Redwood Landfill in Novato CA	1994

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After*	Before ^g	After ^h
TPH (Gas)	1,620 ^a	38 ^d	g	60 ^h
Benzene	1.3 ^c	0.006 ^e	g	0.5 ^h
Toluene	0.37 ^c	ND ^e	g	ND ^h
Ethylbenzene	0.64 ^c	0.019 ^d	g	ND ^h
Xylene	1.9 ^c	0.043 ^d	g	ND ^h
Oil & Grease	565 ^b	ND ^f	NA	NA
MTBE	NA	NA	NA	29 ^h

^a from below fuel USTs at unknown depth, 12/7/88 (See Table 1)

^b from below waste oil UST at 8' bgs, 12/7/88 (See Table 2)

^c from soil borings, 6/17/93 (See Table 4)

* soil samples considered "after" samples were from 10' bgs or less; deeper samples were considered to be in the saturated zone and therefore not representative of vadose zone conditions

^d from soil borings outside of the outline of the 1,200 yd3 over excavation, 6/17/93 (see Table 4)

^e from the 1,200 yd3 over excavation confirmatory samples at 8' bgs, 6/7/94 (see Table 5)

^f from SB10 in the former waste oil UST pit at 15' bgs, 6/18/93 (see Table 4)

^g free phase product in former onsite wells MW1, MW2, and MW3 in 1988

^h from MWs on 3/6/97 (see Table 7)

Leaking Underground Fuel Storage Tank Program

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

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

Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: Not yet

Number Decommissioned: ~~X~~ 6

Number Retained: ~~X~~ 7 destroyed on 10-14-97

List enforcement actions taken: none

List enforcement actions rescinded: none

JE

V. ADDITIONAL COMMENTS, DATA, ETC.

The former Chevron service station is located at 850 West Grand Avenue in Oakland, California in a mixed commercial and residential area. ^{Figure 0.} This paragraph of site history is as per the May 1989 "Monitoring Well Replacement" report, prepared by Groundwater Technology, Inc. (GTI). On 10/10/84, GTI installed 3 onsite monitoring wells (MWs) adjacent to the fuel USTs. High dissolved concentrations as well as free product was encountered in these wells. On 8/16/88 and 8/17/88, GTI conducted a soil vapor survey. GTI's 9/8/88 "Soil-Gas Survey" report presented these findings, and recommended the installation of 4 additional MWs, 2 onsite and 2 offsite. On 9/22/88, GTI installed the 2 onsite MWs (MW4 and MW5). GTI was unable to secure a City permit for installation of the offsite wells.

The County's LOP file for this project begins in 1988. Three gasoline USTs and one waste oil UST were removed on 12/7/88, under the direction of Alameda County and Daryl Hovander of Chevron. Two soil samples were collected per UST, as well as from the stockpiled soil. **Figure 1** indicates locations of USTs and samples. Fuel UST samples were analyzed for TPHg only. Results indicate a range of 1.51 ppm to 1,620 ppm TPHg. The depths of these samples are unknown. **See Table 1.** Two samples were apparently collected below the waste oil UST at 8' and 14'bgs. These samples (#7 and #8) were analyzed for Oil and Grease by Method 418.1 only. Results indicate 79 and 565 ppm O&G. **See Table 2.**

The stockpiled soil from the waste oil UST was sampled and analyzed for Oil and Grease only; results indicated 429 ppm. This stockpile was reportedly off hauled to a Class I dump site; hazardous waste manifests document that 26 cubic yards of soil were off hauled to Kettleman City on 12/09/88. The stockpiled soil from the gasoline USTs was sampled and analyzed for TPHg only; results indicated 677 ppm. The stockpiled soil from the gasoline UST was reportedly aerated onsite until TPHg concentrations were below 100 ppm. This file includes results from stockpiled soil designated SP-B1 and SP-B2, which was analyzed on 12/21/88 for TPHg and BTEX. Results indicated 6.64 and 5.15 ppm TPHg, and ND BTEX with the exception of 0.44 ppm total xylenes in SP-B1. This stockpile was apparently reused onsite.

Leaking Underground Fuel Storage Tank Program

GTI completed the abandonment of MW4 and MW5 on 4/25/89, and installed two 3" diameter replacement wells MW4A and MW5A on 4/26/89. MW1 through MW3 had apparently been destroyed during station demolition, while MW4 and MW5 were damaged. **See Figure 2.** Two soil samples from each boring were analyzed for TPHg and BTEX, based on field observations and PID readings. The PID showed no evidence of hydrocarbons. Samples were analyzed at 10' and 15'bgs in MW4A, and 5' and 15'bgs in MW5A. Results indicated ND TPHg and ND BTEX. **See Table 3.**

On 7/11/90, GTI installed two 2" diameter wells offsite, MW1 and MW2 (not to be confused with the former onsite wells MW1 and MW2). **See Figure 3.** Offsite wells MW1 and MW2 were installed in order to establish a "zero line" around the contaminant plume. One soil sample from 10'bgs in each boring was analyzed for TPHg and BTEX. Results indicated ND TPHg and ND BTEX.

In December 1990, MW6 was drilled in the former fuel tank area. This well was installed because hydrocarbons had been previously detected in groundwater from former onsite MW1 through MW3, located near the former fuel USTs. **See Figure 4.** Soil samples from 5' and 11'bgs were analyzed for TPHg and BTEX. Results were ND at 5', while the 11' sample contained 85 ppm TPHg, 0.33 ppm benzene, 2.5 ppm toluene, 1.2 ppm ethylbenzene, and 6.2 ppm xylenes.

On 10/30/92, MW7 was drilled offsite (approximately 200' south of the former fuel USTs) at the east corner of Curtis Street and West Grand Avenue. **See Figure 5.** Soil samples from 10' and 15'bgs were analyzed for TPHg and BTEX. Results indicated ND TPHg and ND BTEX.

In June 1993, 11 soil borings were drilled, 3 of which were converted into 1" vapor points. **See Figure 6.** Soil samples were collected at 5', 10', and 15'bgs, and analyzed for TPHg, BTEX, and TOG in one sample. Results indicated ND to low concentrations of contaminants (in the areas of the former fuel USTs and dispensers). **See Table 4.**

The former fuel UST area was overexcavated to 15'bgs in June 1994, in the presence of County staff. This area included MW6 and the 3 vapor points. **See Figure 7.** Soil samples were collected from the sidewalls at 8' and 12'bgs. **See Table 5.** Three out of sixteen soil samples contained TPHg concentrations >1 ppm, while six out of sixteen soil samples contained detectable benzene concentrations. However, the soil contamination detected at 12'bgs was in the capillary fringe and probably reflective of groundwater conditions.

As a result of the June 1994 overexcavation, approximately 700 cubic yards of stockpiled soil was offhauled to Redwood Landfill in Novato. The remainder of the soil (approximately 500 cubic yards) was reused as backfill, as per approval by County staff. **See Table 6.**

A "Comprehensive Site Evaluation and Proposed Future Action Plan" was submitted to the County in December 1994. This plan proposed a Non-Attainment Area (NAA) for this site. A meeting was held on 1/26/95, which included RWQCB staff, County staff and Chevron. A determination was made that the site was not a candidate for NAA, and that further investigation was needed.

Leaking Underground Fuel Storage Tank Program

On 8/8/95, MW8 and MW9 were drilled onsite in the vicinity of the former fuel USTs and dispensers. See **Figure 8**. Soil samples were collected at 10', 11.5', and 26'bgs in MW8, and at 11' and 26' in MW9, and analyzed for TPHg and BTEX. Results indicated ND in all the samples.

Groundwater has been monitored and sampled since 1989. See **Table 7**. Groundwater flow direction has most recently (9/93 to 12/96) been in a general west direction with a very flat gradient. Results indicate ND concentrations for at least the past four quarters in MW2, MW4A, MW5A, and MW7. Results indicate ND to low concentrations of TPH-g and ND concentrations of BTEX for at least the past four quarters in MW1 and MW8. The hydrocarbons detected by MW9 have shown a decreasing trend, with first quarter 1997 results ND or below MCLs.

The remaining soil concentrations of 0.006 ppm benzene, ND toluene, 0.019 ppm ethylbenzene, and 0.043 ppm xylene were compared to the Tier 1 look up table in the American Society of Testing and Materials' (ASTM) "Risk Based Corrective Action Applied at Petroleum Release Sites," document E1739-95. These onsite concentrations are less than the Risk Based Screening Levels (RBSLs) for soil volatilization to indoor air, residential scenario, 10^{-5} target risk.

To summarize, the reasons that this case should be closed are as follows:

- * The sources have been removed (four USTs, 1,226 yd³ of contaminated soil);
- * The site has been adequately characterized;
- * The well located in the former fuel UST area (MW9) has shown a decreasing trend of BTEX since contaminated soils were removed from the fuel UST area in June 1994. Note that MW9 replaced MW6;
- * The latest groundwater monitoring well results indicate maximum BTEX concentrations of 0.5 ppb, ND, and ND, respectively. Note that the benzene concentration of 0.5 ppb is below the MCL of 1.0 ppb;
- * The remaining vadose zone soil concentrations of 0.006 ppm benzene, ND toluene, 0.019 ppm ethylbenzene, and 0.043 ppm xylene are protective of human health for a residential scenario; Soil samples collected at the capillary fringe (approximately 12 feet bgs) and below were not evaluated for risk.
- * There are no sensitive environmental receptors in the site vicinity: the nearest surface water is Lake Merritt, which lies approximately 1 mile to the east (a significant and unlikely distance for a hydrocarbon plume to travel);
- * It appears there is no significant risk to human health; and
- * The owner should notify the appropriate agencies if there is a proposal for structural configuration of the site (e.g. new construction or excavation activities) so that a risk management plan can be prepared.

Leaking Underground Fuel Storage Tank Program

VI. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle Title: Hazardous Materials Specialist
Signature: *J Eberle* Date: 7-18-97

Reviewed by
Name: Amy Leech Title: Hazardous Materials Specialist
Signature: *A Leech* Date: 7-18-97

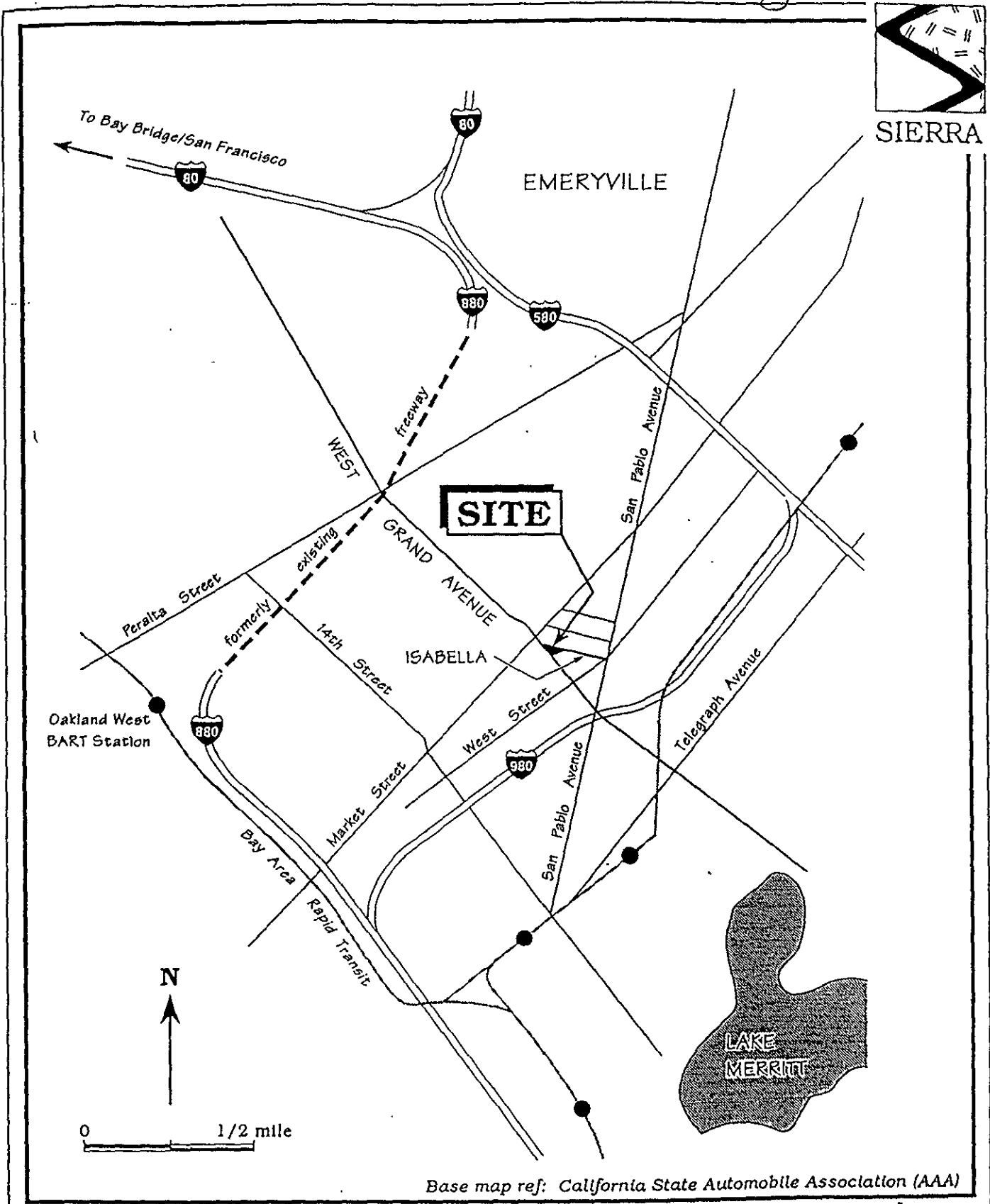
Name: Tom Peacock Title: Manager of LOP
Signature: *Tom Peacock* Date: 7-11-97

VII. RWQCB NOTIFICATION

Date Submitted to RWQCB: 7-18-97 RWQCB Response: *Approved*
RWQCB Staff Name: Kevin Graves Date:
Associate Water Resources Control Engineer

K Graves 7/25/97

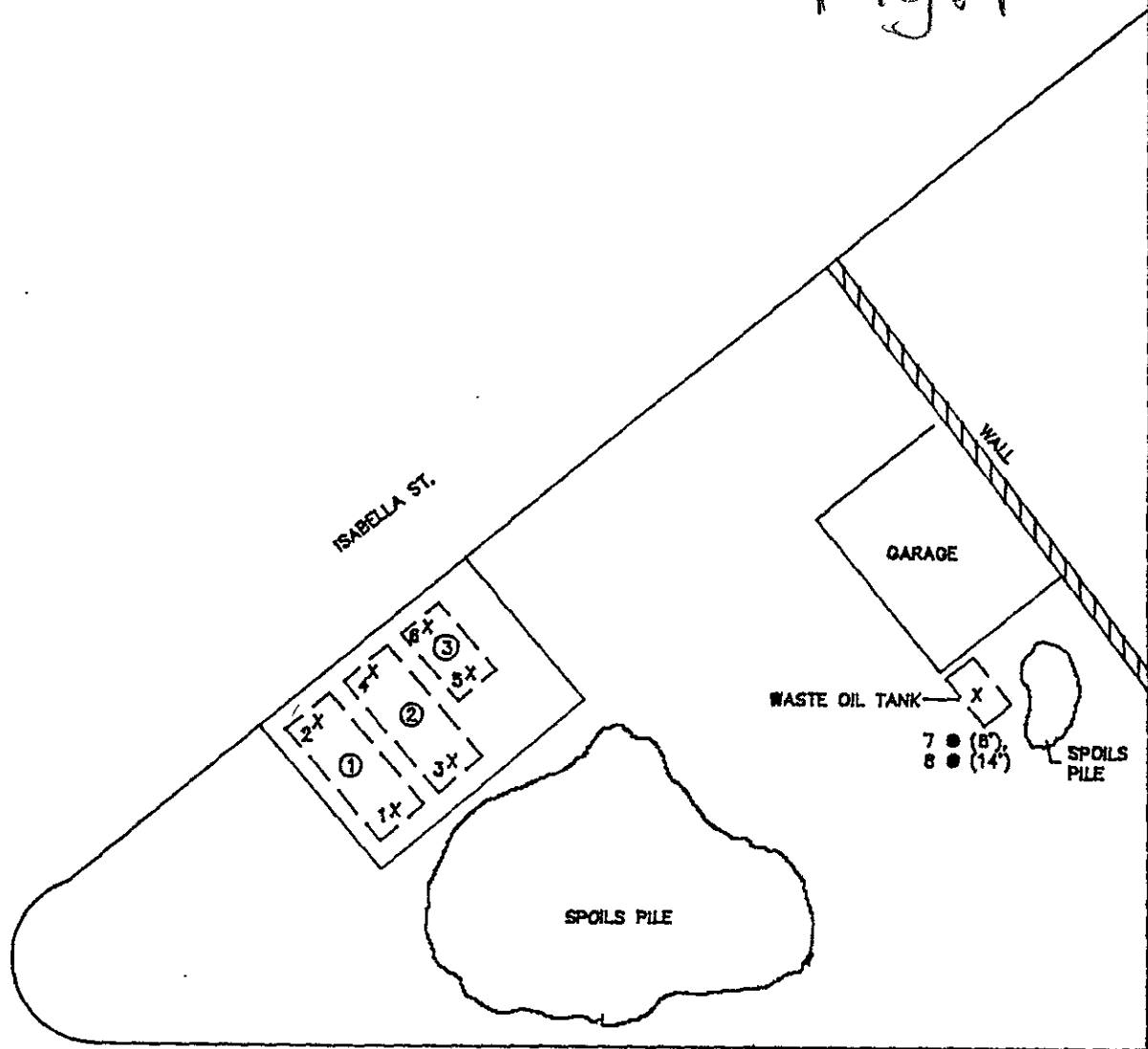
Fig. 0



Base map ref: California State Automobile Association (AAA)

Figure 0 Site Location Map - Former Chevron Service Station #9-1853 - 850 West Grand Avenue, Oakland, California

Fig. 1

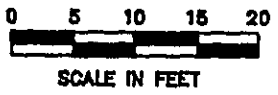


WEST GRAND AVE.

X SOIL SAMPLE



NORTH



GEOTEST

SAMPLE LOCATION MAP
CHEVRON #1853
PROJECT NUMBER: B9686-09

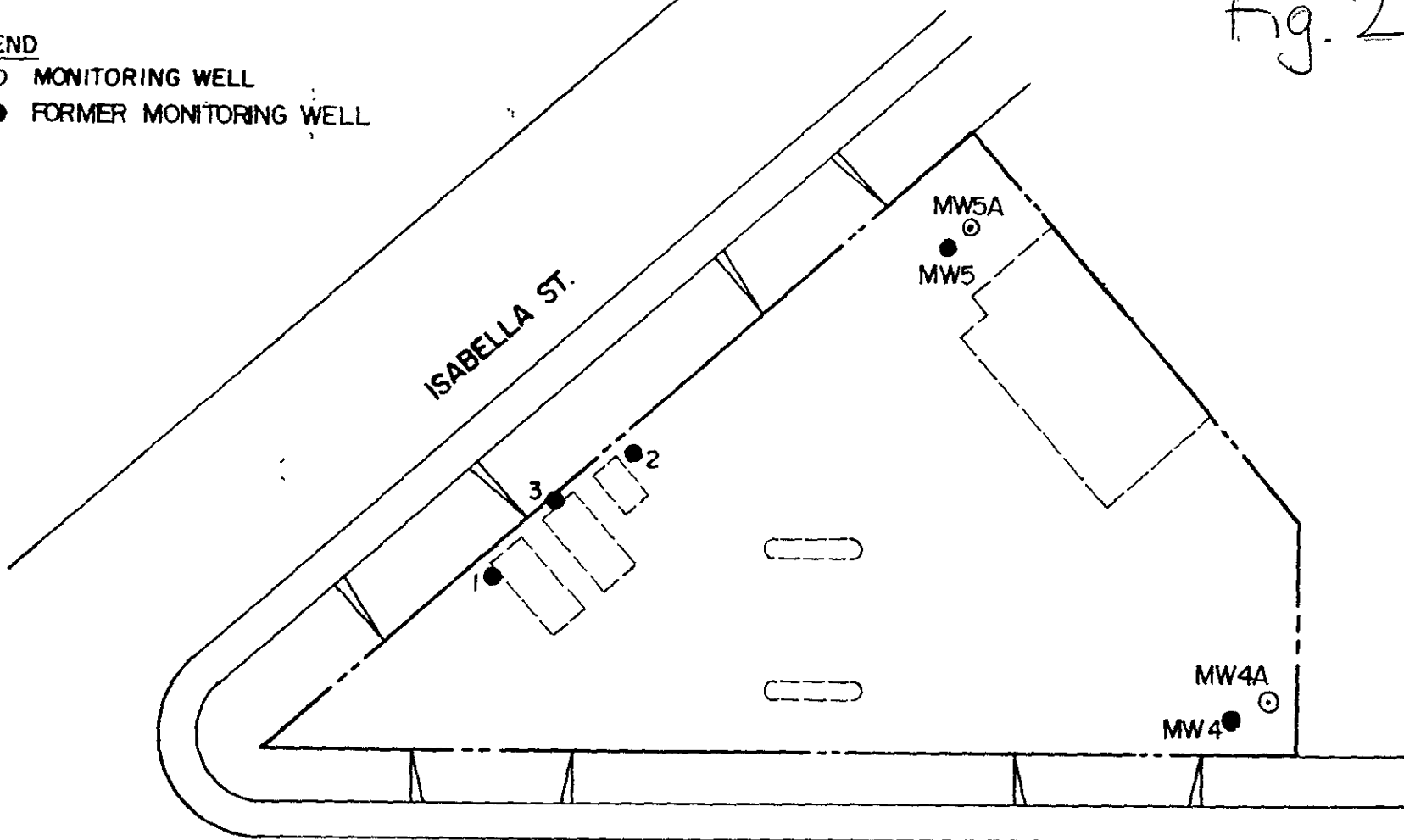
12/88

FIGURE 1

Fig. 2

LEGEND

- ⊙ MONITORING WELL
- FORMER MONITORING WELL



WEST GRAND AVE.

ISABELLA ST.

0 FEET 30

CHEVRON USA
OAKLAND, CALIFORNIA

Figure 2. Site Plan

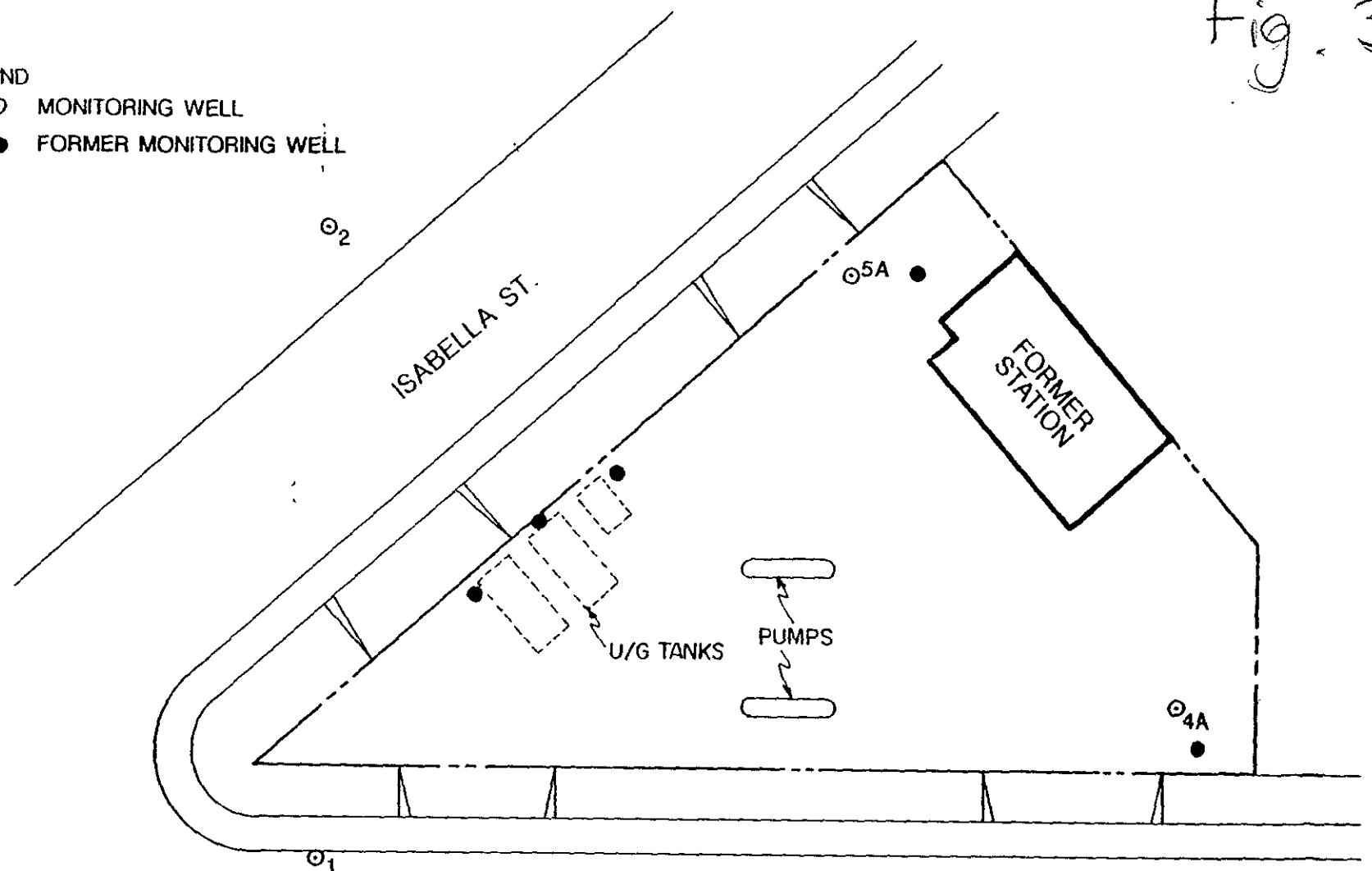
GROUNDWATER
TECHNOLOGY, INC.

DIETRICH POST REORDER NO. 118233

Fig. 3

LEGEND

- ⊙ MONITORING WELL
- FORMER MONITORING WELL



WEST GRAND AVE.

ISABELLA ST.

FORMER STATION

U/G TANKS

PUMPS

⊙_{4A}

⊙_{5A}

⊙₂

⊙₁



0 FEET 30

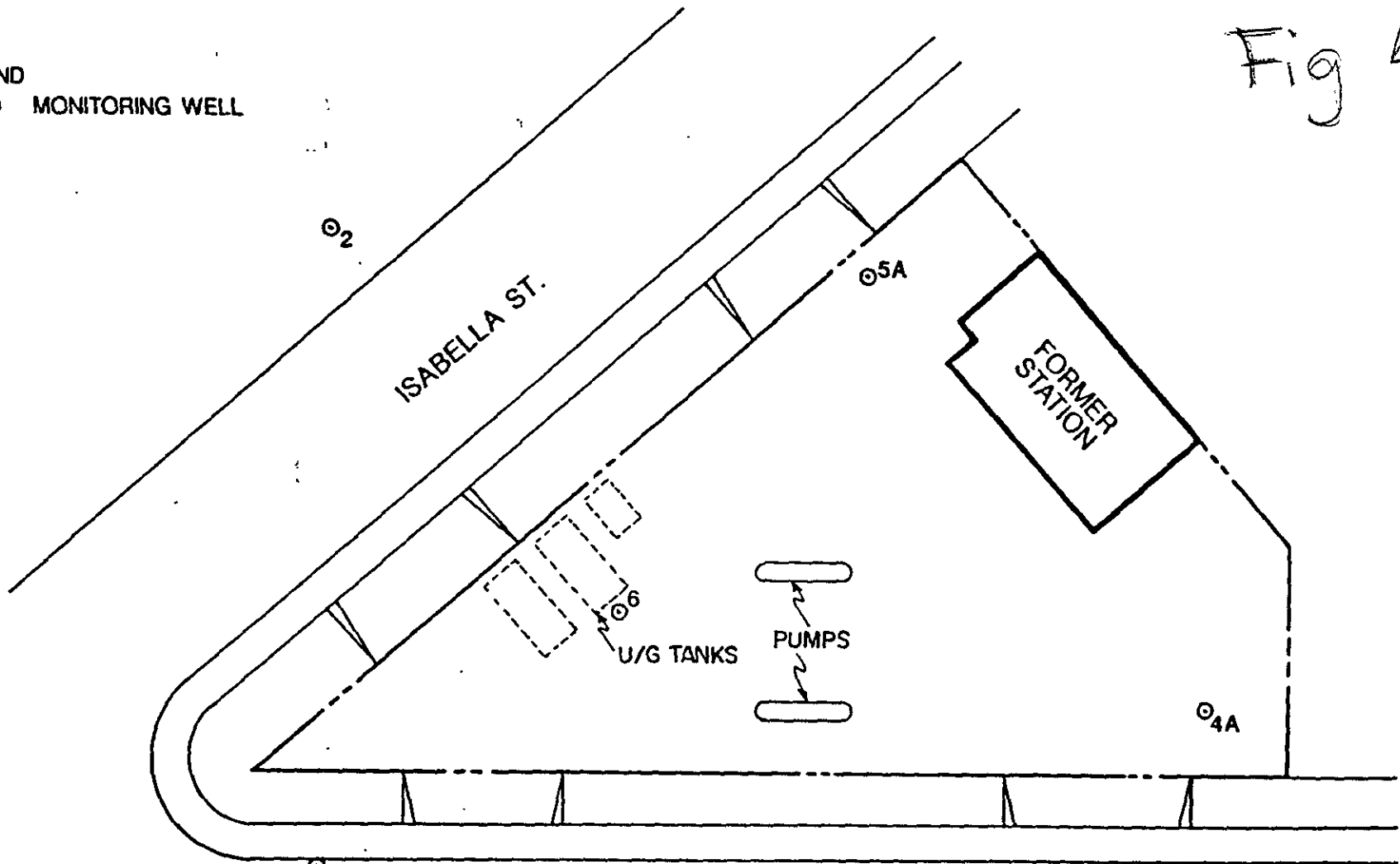
~~FIGURE 2~~
SITE PLAN

CHEVRON USA
OAKLAND, CALIFORNIA

ML 7/90

Fig 4

LEGEND
⊙ MONITORING WELL



WEST GRAND AVE.

ISABELLA ST.

FORMER STATION

U/G TANKS

PUMPS

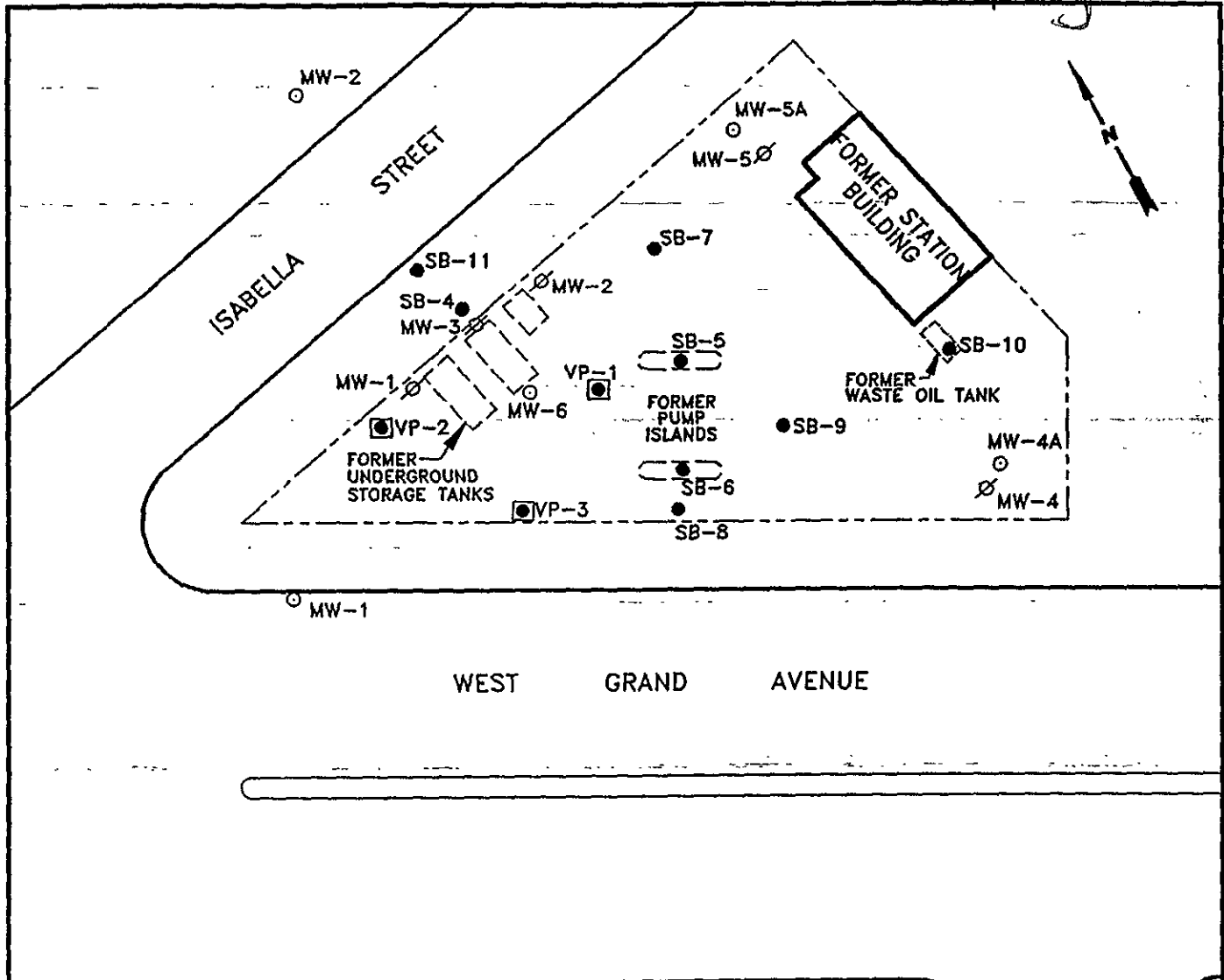
0 FEET 30

FIGURE 2
SITE PLAN

CHEVRON U.S.A.
OAKLAND, CALIFORNIA

ML 2/91

Fig. 5



- LEGEND**
- MONITORING WELL
 - ⊘ ABANDONED MONITORING WELL
 - SOIL BORING
 - ◼ SOIL VAPOR POINT

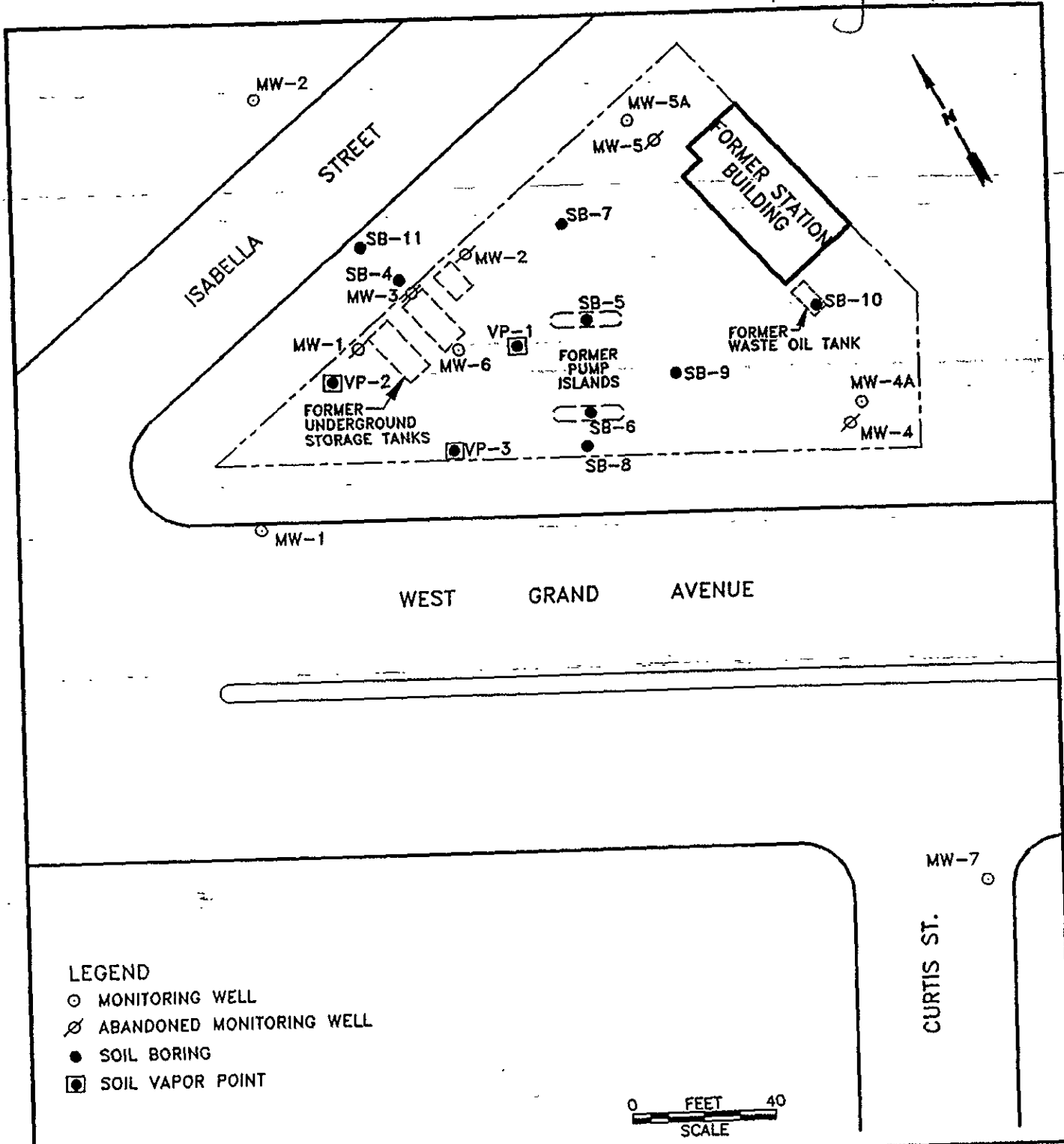


GROUNDWATER TECHNOLOGY
 4057 PORT CHICAGO HWY.
 CONCORD, CA 94520
 (510) 671-2387

SOIL BORING AND VAPOR POINT LOCATION MAP

CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-1853		LOCATION: 850 WEST GRAND AVENUE OAKLAND, CALIFORNIA		REV. NO.: 0	DATE: 8/4/93
PM: <i>fhw</i>	PE/RG: DRK	DESIGNED: TW	DETAILED: ML	ACAD FILE: PBORLOC/SP1192	PROJECT NO.: 020204377
					FIGURE: <i>12</i>

Fig. 6



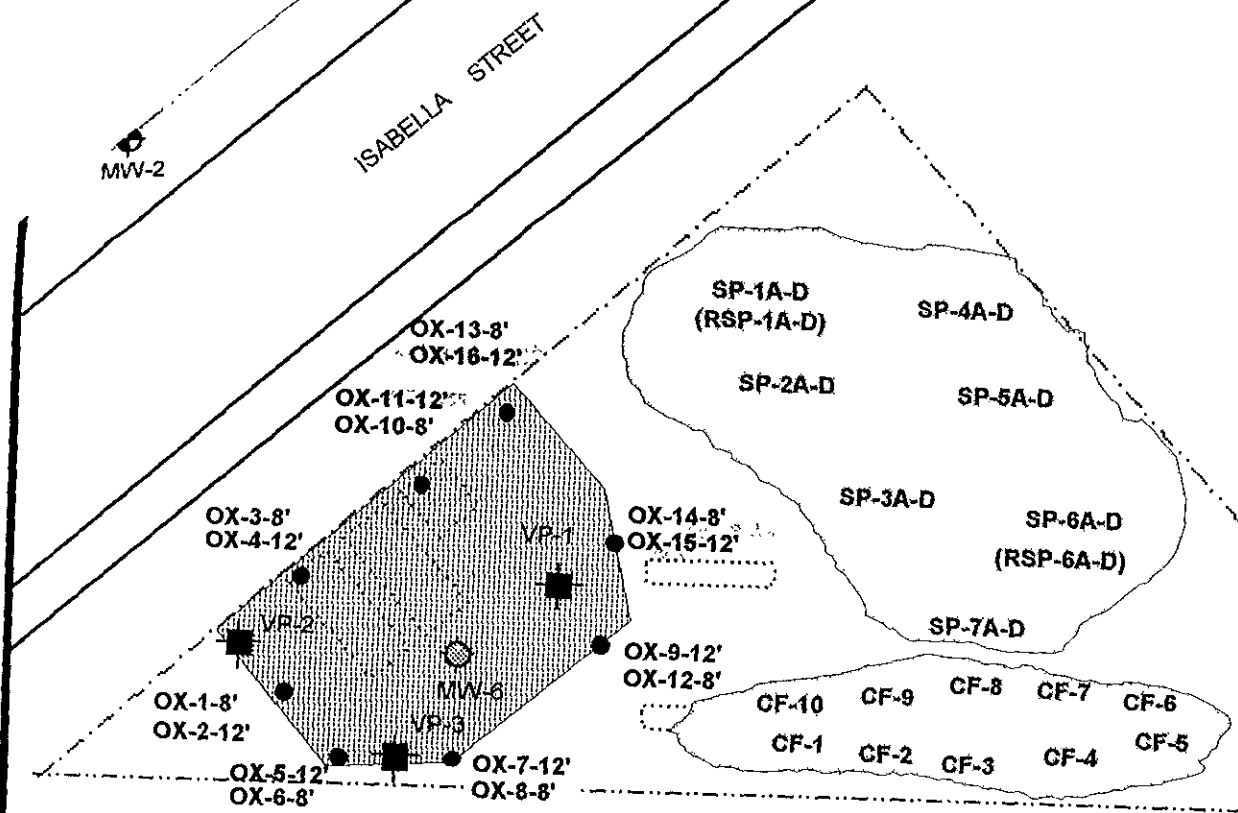
LEGEND

- MONITORING WELL
- ∅ ABANDONED MONITORING WELL
- SOIL BORING
- SOIL VAPOR POINT



GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 871-2387		SOIL BORING AND VAPOR POINT LOCATION MAP				
		CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-1853	LOCATION: 850 WEST GRAND AVENUE OAKLAND, CALIFORNIA	REV. NO.: 0	DATE: 8/4/93	
PM: <i>JHW</i>	PE/RG: <i>DRK</i>	DESIGNED: TW	DETAILED: ML	ACAD FILE: PBORLOC/SP1192	PROJECT NO.: 020204377	FIGURE: <i>[Signature]</i>

Fig. 17



MW-1

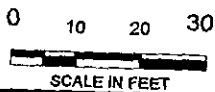
hits left in place (TPH + benz)
" " " (benz)

EXPLANATION

- ABANDONED VAPOR EXTRACTION WELL
- MONITORING WELL
- ABANDONED MONITORING WELL
- FINAL EXCAVATION LIMITS
- OX-9-12' SOIL SAMPLE AND ID #

WEST GRAND AVENUE
WESTBOUND

WEST GRAND AVENUE
EASTBOUND



MW-7



EXCAVATION LIMITS AND SAMPLE LOCATIONS

FORMER CHEVRON SERVICE STATION 9-1853
850 WEST GRAND AVENUE
OAKLAND, CALIFORNIA

FIGURE



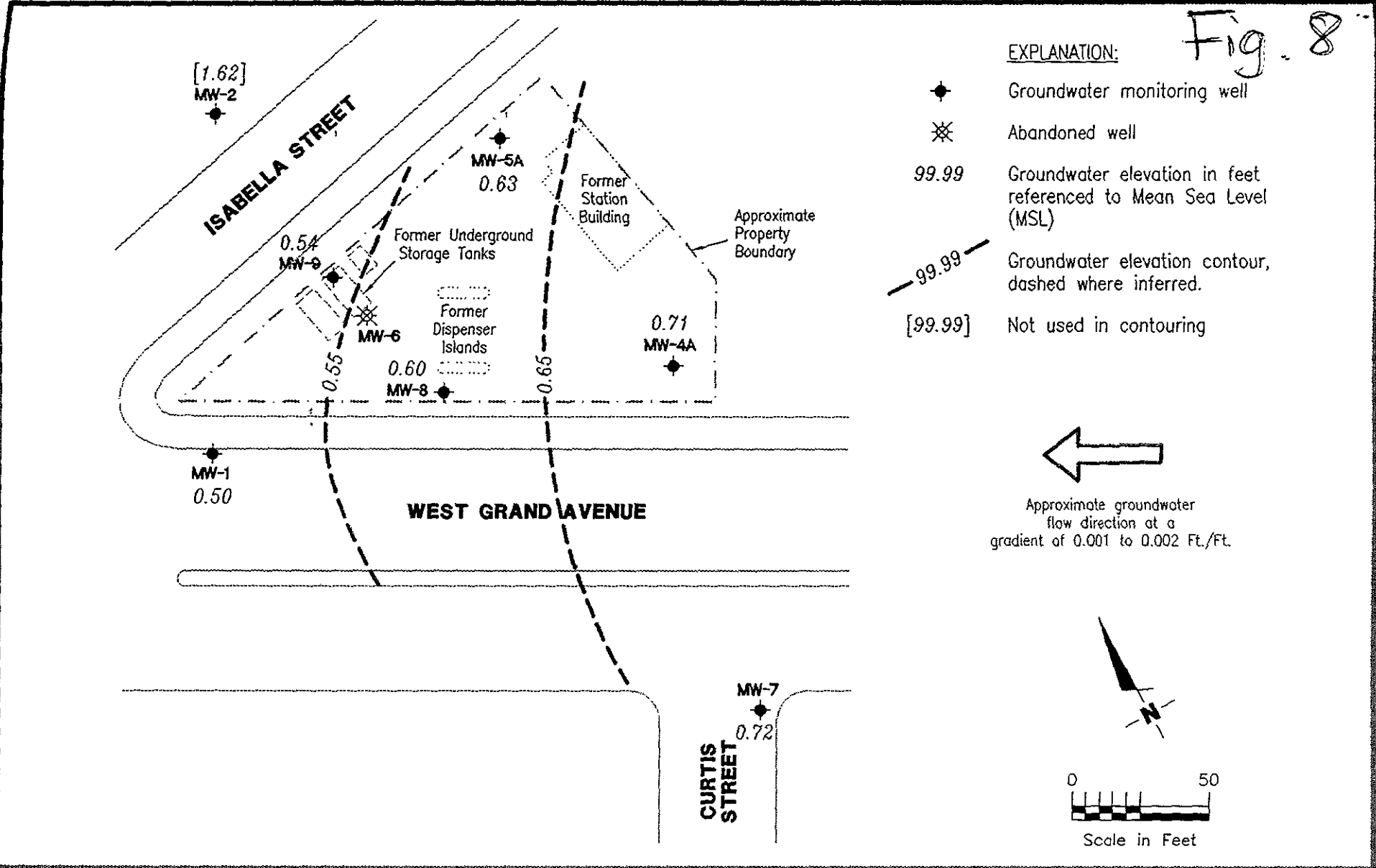
PROJECT NO.
1853-1

DATE
6/94

DRAWN BY:
wj

BASE MAP:
SIERRA & GROUNDWATER TECHNOLOGY

Fig. 8



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-1853
850 West Grand Avenue
Oakland, California

FIGURE
2

JOB NUMBER
5224.85

REVIEWED BY
[Signature]

DATE
September 5, 1995

REVISED DATE



Post Office Box 90911, Long Beach, California 90809-0911 (213) 498-9515 (800) 624-5744

Table 1

L A B O R A T O R Y R E P O R T

CHEVRON
 2410 CAMINO RAMON
 SAN RAMON, CALIFORNIA
 94583-0804

DATE RECEIVED: 12-07-88
 DATE ANALYZED: 12-07-88
 SAMPLE MATRIX: SOIL
 CLIENT ID:
 GEOTEST PROJECT NO.: 89686-09
 ANALYSES: MODIFIED 8015

ATTENTION: DARRELL HOVANDER

PROJECT NAME: CHEVRON STATION #1853
 LOCATION: 850 WEST GRAND AVE
 OAKLAND CITY, CALIFORNIA

ANALYSIS OF HYDROCARBON CONTENT BY GAS CHROMATOGRAPHY
 EPA METHOD MODIFIED 8015

depth?

SAMPLE ID	RESULTS (mg/kg)	DETECTION LIMIT (mg/kg)
SP-COMP 1	677	1.0
1 } tank 1	1620	1.0
2 } tank 1	280	1.0
3 } tank 2	1.51	1.0
4 } tank 2	154	1.0
5 } tank 3	76.7	1.0
6 } tank 3	72.8	1.0

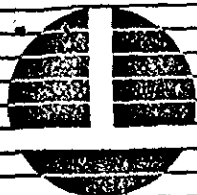
ND - Not detected below indicated limit of detection.

Analyst: MPJ

Checked and Approved: *[Signature]*
 Report Date: 12/12/88

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed.

Table 1



GEOTEST
An Environmental Monitoring
and Testing Service

Post Office Box 90911, Long Beach, California 90809-0911 (213) 498-9515 (800) 624-5744

Table 2

L A B O R A T O R Y R E P O R T

CHEVRON	DATE RECEIVED:	12-07-88
2410 CAMINO RAMON	DATE ANALYZED:	12-08-88
SAN RAMON. CALIFORNIA	SAMPLE MATRIX:	SOIL
94583-0804	CLIENT ID:	
	GEOTEST PROJECT NO.:	89686-09
ATTENTION: DARRELL HOVANDER	ANALYSES:	418.1

PROJECT NAME: CHEVRON STATION #1853
LOCATION: 850 WEST GRAND AVE
OAKLAND CITY, CALIFORNIA

ANALYSIS OF HYDROCARBON CONTENT BY INFRARED SPECTROMETRY
EPA METHOD 418.1

SAMPLE ID	RESULTS (mg/kg)	DETECTION LIMIT (mg/kg)
	O + G	
bgs 8' 14' WD-SP1	429	1.0
7' } wo tank	565	1.0
8' }	79.3	1.0

ND - Not detected below indicated limit of detection.

Analyst: MPJ

Checked and Approved: *[Signature]*

Report Date: 12/12/88

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed.

Table 2



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Western Region

4080-C Pike Ln., Concord, CA 94520
(415) 685-7852
In CA: (800) 544-3422
Outside CA: (800) 423-7143

05/03/89 JP

Page 1 of 1

WORK ORD#: C904613

CLIENT: GLEN MITCHELL
GROUNDWATER TECHNOLOGY, INC.
4080-D PIKE LANE
CONCORD, CA 94520

PROJECT#: 203-175-3233.01-1
LOCATION: OAKLAND, CA

SAMPLED: 04/26/89 BY: G. MITCHELL
RECEIVED: 04/27/89
ANALYZED: 05/03/89 BY: K. PATTON

MATRIX: Soil
UNITS: mg/Kg (ppm)

10' bgs 15' bgs 5' bgs 15' bgs

PARAMETER	MDL	SAMPLE # I.D.	UNITS: mg/Kg (ppm)			
			01 10' bgs IMW-4A(B)	02 15' bgs IMW-4A(C)	03 5' bgs IMW-5A(A)	04 15' bgs IMW-5A(C)
Benzene	0.5		<0.5	<0.5	<0.5	<0.5
Toluene	0.5		<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		<0.5	<0.5	<0.5	<0.5
Xylenes	0.5		<0.5	<0.5	<0.5	<0.5
Total BTEX	0.5		<0.5	<0.5	<0.5	<0.5
Misc. Hydrocarbons (C4-C12)	1		<1	<1	<1	<1
Total Petroleum Hydrocarbons as Gasoline	1		<1	<1	<1	<1

MDL = Method Detection Limit; compound below this level would not be detected.
Results rounded to two significant figures.

METHOD: Modified EPA 5030/8020/8015

Emma P. Porek

EMMA P. POPEK, Laboratory Director

Table 4

~~TABLE 1~~
ANALYTICAL RESULTS OF SOIL SAMPLES
 Collected on June 17 and 18, 1993
 (Concentrations in parts per million)

Date	Sample ID	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-G	TOG
06/18/93	SB-4	10	<0.005	<0.005	<0.005	<0.005	<1	---
06/18/93	SB-4	15	1.3	0.37	0.64	1.9	38	---
06/17/93	SB-5	* 10	<0.005	<0.005	<0.005	<0.015	<1	---
06/17/93	SB-6	* 10	<0.005	<0.011	0.019	0.043	1	---
06/17/93	SB-7	* 10	<0.005	<0.005	<0.005	<0.015	<1	---
06/18/93	SB-8	10	<0.005	<0.005	<0.005	<0.015	<1	---
06/18/93	SB-9	5	<0.005	<0.005	<0.005	<0.015	<1	---
06/18/93	SB10	15	<0.005	<0.005	<0.005	<0.015	<1	<50
06/18/93	SB-11	10	<0.005	<0.005	<0.005	<0.015	<1	---
06/18/93	SB-11	15	<0.005	<0.005	<0.005	<0.015	<1	---
06/17/93	VP-1	10	<0.005	<0.005	<0.005	<0.015	<1	---
06/17/93	VP-1	15	0.19	<0.10	0.43	0.65	24	---
06/17/93	VP-2	* 5	<0.005	<0.005	<0.005	<0.015	<1	---
06/17/93	VP-2	* 10	<0.005	<0.005	<0.005	<0.015	<1	---
06/17/93	VP-3	* 10	<0.005	<0.005	<0.005	<0.015	<1	---

TPH-G = Total petroleum hydrocarbons-as-gasoline
 TOG = Total oil and grease

* ~~at~~ highest PID_v at 15' bgs.
 readings

Table 5

6-7-94 soil

~~Table A~~: Excavation Sample Analytical Summary in parts per million (mg/kg)

Sample ID	Depth (ft)	TPH @ Gas	Benzene	Toluene	Ethyl Benzene	Xylenes
OX-1-8'	8	ND	ND	ND	ND	ND
OX-2-12'	12	1	0.035	0.047	0.071	0.26
OX-3-8'	8	ND	ND	ND	ND	ND
OX-4-12'	12	ND	0.044	ND	0.012	0.009
OX-5-12'	12	ND	0.049	ND	ND	ND
OX-6-8'	8	ND	ND	ND	ND	ND
OX-7-12'	12	ND	ND	ND	ND	ND
OX-8-8'	8	ND	ND	ND	ND	ND
OX-9-12'	12	ND	ND	ND	ND	ND
OX-10-8'	8	ND	ND	ND	ND	ND
OX-11-12'	12	2000	4.3	39	22	120
OX-12-8'	8	ND	0.006	ND	ND	ND
OX-13-8'	8	ND	ND	ND	ND	ND
OX-14-8'	8	ND	ND	ND	ND	ND
OX-15-12'	12	950	3	41	20	130
OX-16-12'	12	150	0.34	2.5	2.8	18

ND = Analysis not detected above quantitation limit
TPH@Gas = Total Petroleum Hydrocarbons as gasoline
NA = Analysis not requested

6-94

Table 6.

~~Table D.~~ Stockpile Sample Analytical Summary in parts per million (mg/kg)

Sample ID	TPH @ Gas	Benzene	Toluene	Ethyl Benzene	Xylenes
CF-1	ND	ND	ND	ND	0.005
CF-2	ND	ND	ND	ND	ND
CF-3	ND	ND	ND	ND	ND
CF-4	ND	ND	ND	ND	ND
CF-5	ND	ND	ND	ND	ND
CF-6	ND	ND	ND	ND	0.009
CF-7	ND	ND	ND	ND	ND
CF-8	ND	ND	ND	ND	ND
CF-9	ND	ND	ND	ND	ND
CF-10	ND	ND	ND	ND	ND

backfilled

Sample ID	TPH @ Gas	Benzene	Toluene	Ethyl Benzene	Xylenes
SP-1A-D	590	0.6	1.1	8.3	56
SP-2A-D	110	0.24	0.94	1.2	6.6
SP-3A-D	23	ND	0.06	0.21	1
SP-4A-D	73	0.064	0.43	0.67	4
SP-5A-D	52	0.05	0.21	0.45	2.3
SP-6A-D	1000	2.3	29	29	110
SP-7A-D	3	ND	0.023	0.011	0.031

offhauled

Sample ID	TPH @ Gas	Benzene	Toluene	Ethyl Benzene	Xylenes	Organic Lead
RSP-1A-D	ND	ND	ND	ND	0.006	ND
RSP-6A-D	52	0.31	0.27	0.12	1.1	NA

ND = Analysis not detected above quantitation limit
 TPH @ Gas = Total Petroleum Hydrocarbons as gasoline
 NA = Analysis not requested



Table 7

Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb				MTBE
						B	T	E	X	
MW-1/ 12.62 ¹	7/18/90	13.38	-0.76	0	<50	<0.3	<0.3	<0.3	<0.6	—
	12/26/90	12.46	0.16	0	<50	<0.5	<0.5	<0.5	<0.5	—
12.62 ²	3/28/91	9.53	3.09	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/25/91	12.34	0.28	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/91	12.68	-0.06	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/91	12.58	0.04	0	<50	0.8	0.6	<0.5	2.0	—
	3/25/92	9.88	2.74	0	59	3.7	4.6	2.5	9.2	—
	6/2/92	12.13	0.49	0	<50	0.5	<0.5	<0.5	0.6	—
	9/16/92	—	—	—	<50	2.6	4.1	0.6	3.0	—
	10/6/92	12.77	-0.15	0	—	—	—	—	—	—
	12/21/92	10.16	2.46	0	87	5.6	7.0	2.1	9.2	—
	3/11/93	10.48	2.14	0	<50	<0.5	<0.5	<0.5	<1.5	—
	3/30/93	8.38	4.24	0	—	—	—	—	—	—
	6/11/93	11.79	0.83	0	<50	<0.5	1.1	<0.5	2.5	—
	9/28/93	12.48	0.14	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/93	11.44	1.18	0	<50	<0.5	0.5	<0.5	<0.5	—
	3/3/94	10.56	2.06	0	<50	1.3	2.3	0.7	2.5	—
	12/16/94	10.08	2.54	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/20/95	8.43	4.19	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/23/95	11.28	1.34	0	<50	0.85	<0.5	0.79	0.80	—
	9/5/95	12.12	0.50	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/12/95	11.59	1.03	0	—	—	—	—	—	—
	3/29/96	10.37	2.25	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/20/96	11.31	1.31	0	—	—	—	—	—	—
	9/4/96	12.05	0.57	0	70 ¹³	<0.5	<0.5	<0.5	<0.5	15
	12/4/96	11.72	0.90	0	—	—	—	—	—	—
	3/6/97 ✓	10.91	1.71	0	<50 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	20 ✓
MW-2/ 12.90 ¹	7/18/90	12.29	0.61	0	<50	<0.3	<0.3	<0.3	<0.6	—
	12/26/90	11.43	1.47	0	<50	<0.5	<0.5	<0.5	<0.5	—
12.90 ²	3/28/91	10.41	2.49	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/25/91	10.66	2.24	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/91	12.04	0.86	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/91	11.75	1.15	0	<50	1.2	1.1	0.7	3.1	—
	3/25/92	8.91	3.99	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/2/92	10.47	2.43	0	150 ¹	0.7	0.5	<0.5	0.7	—
	9/16/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	10/6/92	12.38	0.52	0	—	—	—	—	—	—
	12/21/92	11.45	1.45	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/11/93	11.27	1.63	0	<50	<0.5	<0.5	<0.5	<1.5	—
	3/30/93	8.22	4.68	0	—	—	—	—	—	—
	6/11/93	10.46	2.44	0	<50	<0.5	<0.5	<0.5	<1.5	—
	9/28/93	11.34	1.56	0	<50	<0.5	<0.5	<0.5	<0.5	—



Table 7

~~Table 1.~~ Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->					MTBE
						B	T	E	X		
MW-2 (cont)	12/17/93	10.48	2.42	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	3/3/94	8.63	4.27	0	<50	<0.5	0.6	<0.5	0.7	—	
	12/16/94	7.52	5.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	3/20/95*	—	—	—	—	—	—	—	—	—	
	6/23/95	9.50	3.40	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	9/5/95	11.28	1.62	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	12/12/95	11.39	1.51	0	—	—	—	—	—	—	
	3/29/96	9.10	3.80	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	6/20/96	10.68	2.22	0	—	—	—	—	—	—	
	9/4/96	11.66	1.24	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/4/96	10.60	2.30	0	—	—	—	—	—	—	
	3/6/97	9.38	3.52	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	MW-4A/ 15.84 ¹	5/4/89	—	—	—	<1	<0.5	<0.5	<0.5	<0.5	—
		7/18/90	16.38	-0.54	0	<50	<0.3	<0.3	<0.3	<0.6	—
15.85 ²	12/26/90	15.46	0.38	0	60	<0.5	5.5	0.8	11	—	
	3/28/91	12.42	3.43	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	6/25/91	15.35	0.50	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	9/23/91	15.69	0.16	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	12/17/91	16.58	-0.73	0	<50	<0.5	<0.5	<0.5	0.8	—	
	3/25/92	12.83	3.02	0	<50	<0.5	<0.5	<0.5	0.7	—	
	6/2/92	15.15	0.70	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	9/16/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	
	10/6/92	15.76	0.09	0	—	—	—	—	—	—	
	12/21/92	14.40	1.45	0	<50	0.6	0.6	<0.5	0.8	—	
	3/11/93	13.47	2.38	0	<50	<0.5	<0.5	<0.5	<1.5	—	
	3/30/93	8.47	7.38	0	—	—	—	—	—	—	
	6/11/93	14.80	1.05	0	<50	<0.5	1.3	0.5	2.9	—	
	9/28/93	15.45	0.40	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	12/17/93	14.35	1.50	0	<50	<0.5	0.6	<0.5	<0.5	—	
	3/3/94	13.54	2.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	12/16/94	12.98	2.87	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	3/20/95*	11.29	4.56	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	6/23/95	14.29	1.56	0	<50	<0.5	<0.5	<0.5	<0.5	—	
	9/5/95	15.14	0.71	0	<50	<0.5	<0.5	<0.5	<0.5	—	
12/12/95	14.24	1.61	0	—	—	—	—	—	—		
3/29/96	13.33	2.52	0	—	—	—	—	—	—		
6/20/96	14.40	1.45	0	—	—	—	—	—	—		
9/4/96	15.11	0.74	0	—	—	—	—	—	—		
12/4/96	14.62	1.23	0	—	—	—	—	—	—		
3/6/97	13.98	1.87	0	—	—	—	—	—	—		



Table 7

~~Table 1~~. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←————— ppb —————→				MTBE
						B	T	E	X	
MW-5A/ 15.62 ¹	5/4/89	—	—	—	<1	<0.5	<0.5	<0.5	<0.5	—
	7/18/90	16.23	-0.61	0	<50	<0.3	<0.3	<0.3	<0.6	—
	12/26/90	15.48	0.14	0	<50	<0.5	0.7	2.5	<0.5	—
13.89 ²	3/28/91	10.54	3.35	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/25/91	13.47	0.42	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/23/91	13.83	0.06	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/91	13.70	0.19	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/25/92	10.92	2.97	0	<50	0.9	0.9	0.5	1.8	—
	6/2/92	13.28	0.61	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/16/92	—	—	—	<50	0.6	0.9	<0.5	0.7	—
	10/6/92	13.90	-0.01	0	—	—	—	—	—	—
	12/21/92	12.50	1.39	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/11/93	11.56	2.33	0	<50	<0.5	<0.5	<0.5	<1.5	—
	3/30/93	8.44	5.45	0	—	—	—	—	—	—
	6/11/93	12.92	0.97	0	<50	<0.5	<0.5	<0.5	<1.5	—
	9/28/93	13.59	0.30	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/93	12.50	1.39	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/3/94	11.65	2.24	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/16/94	11.08	2.81	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/20/95 ¹⁰	9.37	4.52	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/23/95	12.40	1.49	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/5/95	13.26	0.63	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/12/95	12.55	1.34	0	—	—	—	—	—	—
	3/29/96	11.43	2.46	0	—	—	—	—	—	—
	6/20/96	12.50	1.39	0	—	—	—	—	—	—
	9/4/96	13.22	0.67	0	—	—	—	—	—	—
	12/4/96	12.74	1.15	0	—	—	—	—	—	—
	3/6/97	12.08	1.81	0	—	—	—	—	—	—
MW-6/ 13.62 ¹	12/26/90	13.44	0.18	0	9,000	590	380	90	1,400	—
13.63 ²	3/28/91	10.45	3.18	0	4,500	260	83	99	440	—
	6/25/91	13.31	0.32	0	8,500	500	500	220	880	—
	9/23/91	13.66	0.03	0	810	250	88	29	110	—
	12/17/91	13.58	0.05	0	6,300	1,300	650	250	850	—
	3/25/92	10.83	2.80	0	4,200	1,200	160	190	540	—
	6/2/92	13.12	0.51	0	1,100	310	98	55	110	—
	9/16/92	—	—	—	5,000	1,100	610	270	750	—
	10/6/92	13.76	-0.13	0	—	—	—	—	—	—
	12/21/92	12.42	1.21	0	8,300	1,300	940	320	1,300	—
	3/11/93	11.45	2.18	0	11,000	4,100	1,200	780	2,500	—
	3/30/93	7.99	5.64	0	—	—	—	—	—	—
	6/11/93	12.77	0.86	0	5,600	850	440	250	670	—
	9/28/93	13.45	0.18	0	—	—	—	—	—	—



Table 7

Table 7. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←————— ppb —————→				MTBE
						B	T	E	X	
MW-6 (cont)	9/29/93	—	—	—	740	160	28	11	120	—
	12/17/93	12.40	1.23	0	12,000	1,800	1,500	410	1,600	—
	3/3/94	11.56	2.07	0	21,000	3,000	2,000	780	2,700	—
	12/16/94*	—	—	—	—	—	—	—	—	—
	3/20/95†	Abandoned	—	—	—	—	—	—	—	—
MW-7† 12.82	11/18/92	12.51	0.31	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/30/93	8.27	4.55	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/11/93	11.69	1.13	0	<50	0.5	1.8	0.7	3.6	—
	9/28/93	12.40	0.42	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/17/93	11.47	1.35	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/3/94	10.64	2.18	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/16/94	10.02	2.80	0	<50	<0.5	<0.5	<0.5	<0.5	—
	3/20/95	9.22	3.60	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/23/95	11.37	1.45	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/5/95	12.10	0.72	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/12/95	11.34	1.48	0	<50 ¹²	<0.5	<0.5	<0.5	<0.5	<0.60
	3/29/96	10.60	2.22	0	—	—	—	—	—	—
	6/20/96	11.40	1.42	0	—	—	—	—	—	—
	9/4/96	12.08	0.74	0	—	—	—	—	—	—
	12/4/96	11.74	1.08	0	—	—	—	—	—	—
3/6/97	11.07	1.75	0	—	—	—	—	—	—	
MW-8/ 13.23 ¹¹	9/5/95	12.63	0.60	0	<50	<0.5	<0.5	<0.5	<0.5	—
	12/12/95	11.85	1.38	0	56	<0.5	<0.5	<0.5	<0.5	25
	3/29/96	10.85	2.38	0	<50	<0.5	<0.5	<0.5	<0.5	6.0
	6/20/96	11.90	1.33	0	<50	<0.5	<0.5	<0.5	<0.5	15
	9/4/96	12.57	0.66	0	100 ¹³	<0.5	<0.5	<0.5	<0.5	19
	12/4/96	12.12	1.11	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	11.49	1.74	0	60 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	29 ✓
MW-9/ 13.02 ¹¹	9/5/95	12.48	0.54	0	360	59	2.6	8.9	17	—
	12/12/95	11.95	1.07	0	140	21	1.3	7.2	13	1.8
	3/29/96	10.68	2.34	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/20/96	11.71	1.31	0	160	16	<0.5	5.2	8.9	<5.0
	9/4/96	12.42	0.60	0	70	4.6	<0.5	1.0	0.9	<5.0
	12/4/96	11.97	1.05	0	230	15	<0.5	2.8	2.4	9.0
	3/6/97	11.33	1.69	0	<50 ✓	0.5 ✓	<0.5 ✓	<0.5 ✓	<0.5 ✓	<5.0 ✓



Table 7

~~Table 1.~~ Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				MTBE
						B	T	E	X	
MW-AA (Trip Blank)	3/28/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	6/25/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	9/23/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/17/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
TB-LB	3/25/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	6/2/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	9/16/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/21/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	3/11/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	3/30/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	6/11/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	9/28/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/17/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	3/3/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/16/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	3/20/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	6/23/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	9/5/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/12/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.60
	3/29/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
6/20/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
9/4/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
12/4/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
3/6/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
MW-BB (Bailer Blank)	3/28/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	6/25/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	9/23/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/17/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
BB	3/25/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	6/2/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	9/16/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/21/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	3/11/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	3/30/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	6/11/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
	9/28/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	12/17/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
	3/3/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--



Table 7

~~Table 7~~ Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-1853, 850 West Grand Avenue, Oakland, California (continued)

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl ether
ppb = Parts per billion
— = Not applicable/not analyzed

ANALYTICAL METHODS:

TPH(G) = EPA Method 8015/5030
BTEX = EPA Method 8020
MTBE - EPA Method 8020

NOTES:

Water level elevation data and laboratory analytical results prior to March 20, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

NOTES: (continued)

- * Product thickness was measured with an MMC flexi-dip interface probe.
- ¹ Surveyed by Nolte and Associates on July 18, 1990.
- ² Surveyed by Ron Miller CE #15816 on April 10, 1991, using TOC of MW-1 as a reference elevation.
- ³ Surveyed by Fremont Engineers on December 20, 1990.
- ⁴ Top of casing elevation, well construction information and November 18, 1992, analytical data for MW-7 were compiled from the Additional Environmental Assessment Report prepared for Chevron by Groundwater Technology, Inc., January 20, 1993.
- ⁶ Monitoring well not located by SES personnel.
- ⁷ MW-6 was abandoned by Touchstone Development on May 26, 1994.
- ⁸ Monitoring well not located this event. Fresh asphalt patch now exists in approximate well location.
- ⁹ Monitoring well inadvertently identified on chain of custody document and subsequently on laboratory report as MW-4 instead of MW-4A.
- ¹⁰ Monitoring well inadvertently identified on chain of custody document and subsequently on laboratory report as MW-5 instead of MW-5A.
- ¹¹ Well surveyed August 25, 1995, by David Hop, Professional Engineer #27034 of Danville, California.
- ¹² Laboratory report indicates gasoline and discrete peaks.
- ¹³ Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern.