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EC

Alameda County
AUG 05 2003
Environmental Health

Date: August 1, 2003
Project: 819726-05760003

To: Mr. Amir Gholami
Hazardous Materials Specialist
Alameda Co. Health Care Services Agency
1131 Harbor Bay Parkway #250
Alameda, CA 94502

We have enclosed:

Copies	Description
<u>1</u>	<u>Case Closure Summary for 76 Service Station 5760 located at</u> <u>376 Lewelling Boulevard, San Lorenzo</u>
<u>1</u>	<u>Gettler-Ryan Inc. Monitoring and Sampling Report dated 05/05/03</u>

For your: Use
 Approval
 Review
 Information

Comments: Dear Mr. Gholami:

Per ConocoPhillip's request, I have enclosed the Case Closure Summary for the site
referenced above for your review. Also included is a copy of the latest site monitoring
and sampling report for your immediate use. If you have any questions, please do not
hesitate to contact me at (408) 382-5884.

Thank you,

Dana Katofsky McCarthy
Project Geologist

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION:

DATE: 08/01/03

Agency name: Alameda County HCSA
City/State/Zip: Alameda, CA 94502
Responsible staff person: Amir K. Gholami

Address: 1131 Harbor Bay Pkwy #250
Phone: (510) 567-6876
Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site facility name: 76 Service Station 5760

Site facility address: 376 Lewelling Boulevard at Usher Street, San Lorenzo, CA

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: N/A

URF filing date: N/A

SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
ConocoPhillips Company	76 Broadway Sacramento, CA 95818	(916) 558-7666

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1.	12,000	Gasoline	Open	12/87
2.	12,000	Gasoline	Open	12/87
3.	550	Waste Oil	Open	12/87
4.	Unknown	Gasoline	Removed	11/87
5.	Unknown	Gasoline	Removed	11/87
6.	Unknown	Waste Oil	Removed	11/87

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Gasoline hydrocarbon release due to leak in underground storage tank system.

Site characterization complete? Yes.

Date approved by oversight agency: N/A

Monitoring Wells installed? Yes. Number: 4 on-site, 5 off-site

Proper screened interval? Yes.

Highest GW depth below ground surface: 10.46 feet bgs. Lowest depth: 19.28 feet bgs.

Flow direction: West to southwest.

Most sensitive current use: Potential drinking water.

Are drinking water wells affected? No.

Is surface water affected? No.

Off-site beneficial use impacts (addresses/locations): N/A.

Leaking Underground Fuel Storage Tank Program

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

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tanks	3	Disposed of, destination unknown	11/87
Piping	all	Disposed of, destination unknown	11/87
	all	Disposed of, destination unknown	05/98
Free Product	Unknown	Removed by bailing, and remedial system	12/90-02/97
Soil	Unknown	Disposed of, destination unknown	11/87
	50 cubic yards	Disposed of, Forward Landfill, Manteca, CA	06/98
Groundwater	388,654 gallons	Treated, discharged to storm drain	10/95-02/97
Barrels	N/A	N/A	N/A

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Maximum Documented Contaminant Concentrations - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	640	N/A	0.36 feet product	560
TPH (Diesel)	N/A	N/A	N/A	N/A
Benzene	4.5	N/A	0.36 feet product	<0.50
Toluene	37	N/A	0.36 feet product	<0.50
Xylenes	110	N/A	0.36 feet product	<1.0
Ethylbenzene	22	N/A	0.36 feet product	0.96
Oil & Grease	N/A	N/A	N/A	N/A
Heavy metals (lead)	N/A	N/A	N/A	N/A
Other (MtBE)	N/A	N/A	0.36 feet product	69

Comments (Depth of Remediation, etc.):

IV. CLOSURE

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

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

Does corrective action protect public health for current land use? Yes.

Site management requirements: N/A

Should corrective action be reviewed if land-use changes? Yes.

Monitoring wells Decommissioned/Destroyed: No

Number Decommissioned: 0 Number Retained: 9, including 2 currently paved over.

Leaking Underground Fuel Storage Tank Program

List enforcement actions taken: None.

List enforcement actions rescinded: None.

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Amir K. Gholami

Title: Hazardous Materials Specialist

Signature:

Date:

Reviewed by

Name:

Title: Supervising Hazardous Materials Specialist

Signature:

Date:

Name:

Title: Hazardous Materials Specialist

Signature:

Date:

VI. RWQCB NOTIFICATION

Date Submitted to RWQCB:

RWQCB Response:

RWQCB Staff Name: Chuck Headlee

Title: San. Eng. Assoc.

VII. ADDITIONAL COMMENTS, DATA, ETC.

Active remediation was terminated February 5, 1997 due to a diminishing mass removal rate. Based on the cumulative findings of groundwater monitoring and sampling data, the dissolved hydrocarbon plume appears to be stable.



GETTLER-RYAN INC.

May 5, 2003
G-R Job #180109

Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

RE: First Semi-Annual Event of March 28, 2003
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5760
376 Lewelling Boulevard
San Lorenzo, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

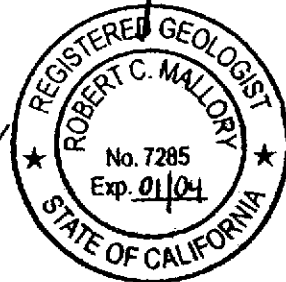
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. A Potentiometric Map is included as Figure 1.

Groundwater Samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding
Project Coordinator

Robert C. Mallory
Registered Geologist, No. 7285



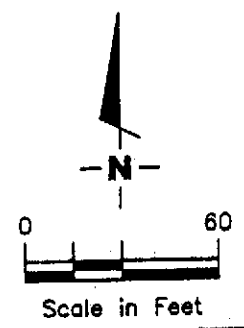
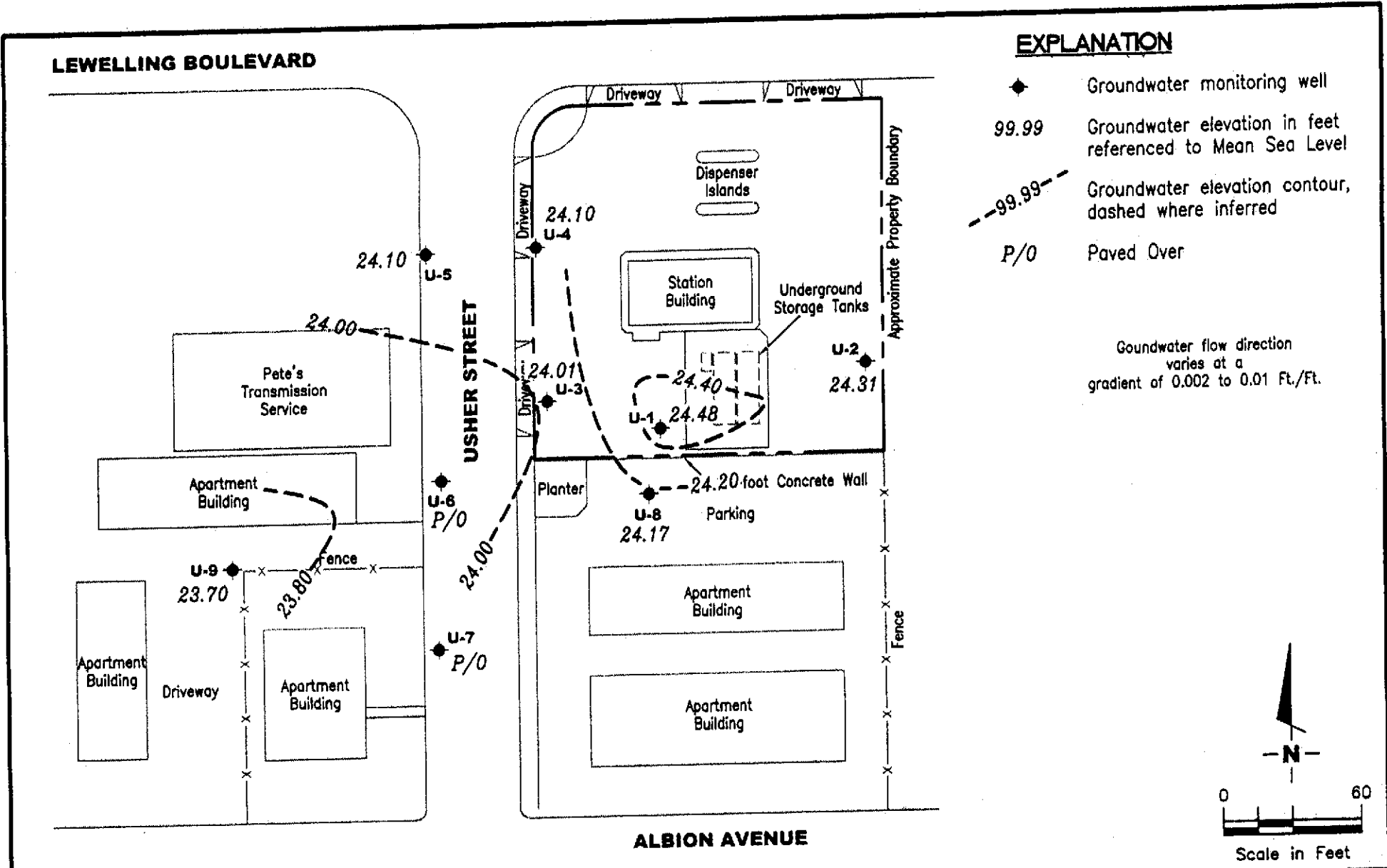
- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Table 3: Dissolved Oxygen Concentrations
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

5760.rpt

EXPLANATION

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- P/O Paved Over

Groundwater flow direction varies at a gradient of 0.002 to 0.01 Ft./Ft.



Source: Figure modified from drawing provided by MPDS Services, Inc.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

FIGURE

1

DATE
 March 28, 2003

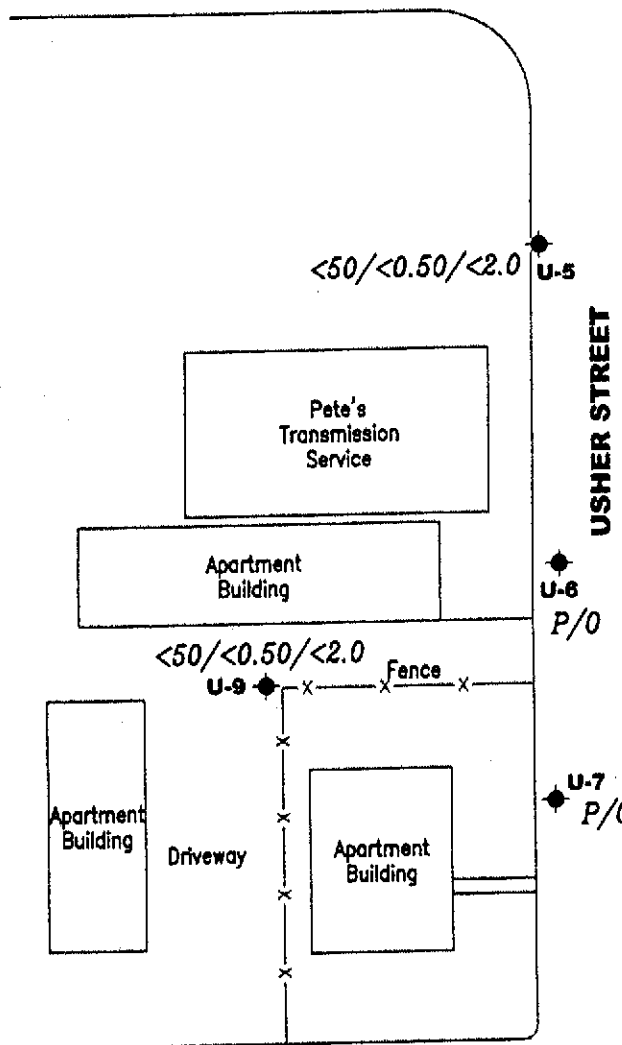
REVISED DATE

PROJECT NUMBER
 180109

REVIEWED BY

FILE NAME: P:\ENVIRO\TOSCO\5760\Q03-5760.DWG | Layout Tab: Pot1

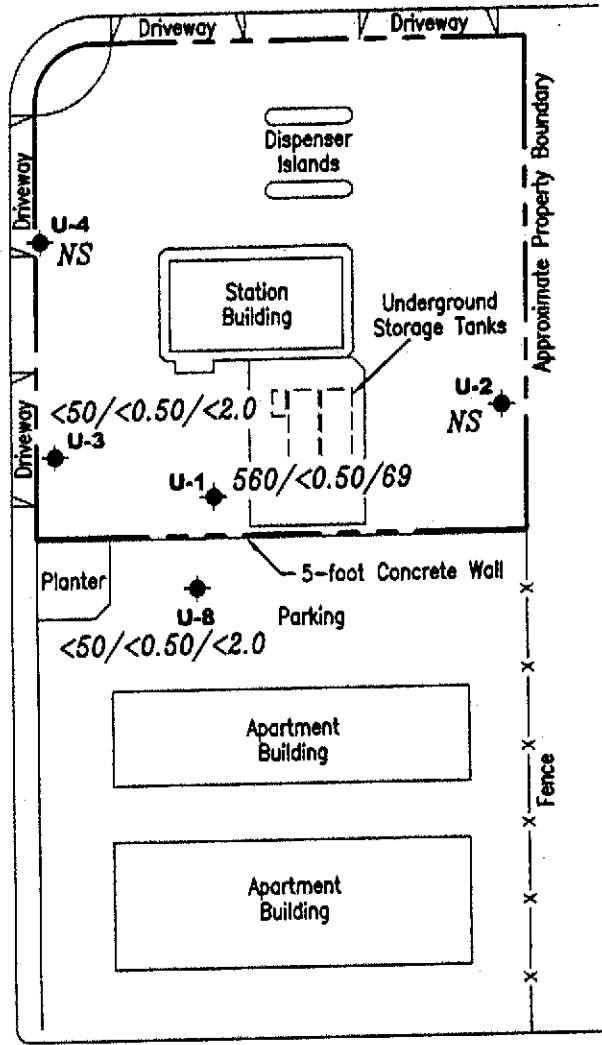
LEWELLING BOULEVARD



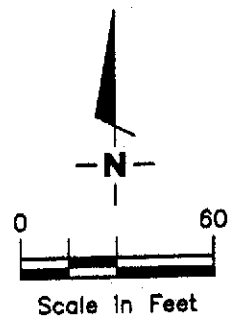
USHER STREET

EXPLANATION

- ◆ Groundwater monitoring well
- A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- P/O Paved Over
- NS Not Sampled
- NOTE:** Analyses by EPA Method 8260



ALBION AVENUE



Source: Figure modified from drawing provided by MPDS Services, Inc.

GETTLER - RYAN INC.
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CONCENTRATION MAP
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

PROJECT NUMBER
 180109

REVIEWED BY

DATE
 March 28, 2003

REVISED DATE

FIGURE

2

TABLE 1
Groundwater Monitoring and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1	02/09/88	--	10.5-30.5	--	--	93,000	3,600	11,000	-- ¹	20,000	--
	03/20/90	--		--	--	36,000	2,100	5,500	1,900	9,300	--
	06/05/90	--		--	--	46,000	2,300	5,500	2,500	11,000	--
	08/24/90	--		--	--	27,000	1,200	1,800	1,400	5,500	--
	12/05/90	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/04/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	06/03/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	09/19/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	12/04/91	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/05/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	04/07/92	--		--	--	NOT SAMPLED - PRODUCT SKIMMER INSTALLED IN WELL					--
	08/06/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	11/20/92	--		--	--	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	02/12/93	--		--	--	70,000	2,200	8,400	3,100	18,000	--
	40.51	06/04/93	16.72		23.79	0.00	35,000	1,300	5,700	900	9,200
09/09/93		17.77		22.74	0.00	67,000	2,900	18,000	6,200	32,000	--
40.20	12/02/93	18.36		21.84	<0.01	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--
	03/09/94	17.20		23.00	0.00	45,000	930	4,100	2,000	11,000	--
40.01**	06/09/94	17.42		22.78	0.00	59,000	5,200	1,300	5,200	15,000	--
	09/07/94	18.17		22.03	0.00	41,000	1,600	6,200	3,100	16,000	--
	12/05/94	16.67		23.53	0.00	1,300	55	20	16	330	--
	03/09/95	15.82		24.38	0.00	49,000	860	3,200	1,900	10,000	1,500
	06/13/95	14.70		25.50	0.00	53,000	1,400	5,000	2,500	14,000	2,800
	09/12/95	16.77		23.24	0.00	43,000	910	2,700	1,700	9,600	1,400
	12/14/95					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
40.20	03/20/96					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
	03/22/96	--		--	--	13,000	200	590	640	4,000	790
	09/24/96					INACCESSIBLE - WELL CONNECTED TO REMEDIATION SYSTEM WHICH WAS NOT RUNNING					--
	03/27/97	15.29		24.91	0.00	1,300	8.0	ND	ND	400	ND
	09/23/97	17.20		23.00	0.00	2,000	15	ND	ND	530	ND
40.01**	03/10/98	12.68		27.52	0.00	2,200 ⁶	19	4.8	ND ⁷	980	38
	09/04/98	16.84		23.36	0.00	5,300 ⁸	53	ND ⁷	410	620	ND ⁷

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5760

376 Lewelling Boulevard

San Lorenzo, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (mst)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
U-1 (cont)	03/04/99	13.04	10.5-30.5	27.16	0.00	1,500	19	ND ⁷	56	110	310	
	09/13/99	17.14		23.06	0.00	5,850 ⁸	32.7	ND ⁷	520	925	ND ⁷	
	03/21/00	14.36		25.84	0.00	4,820 ⁸	17.4	7.74	297	1,370	ND ⁷	
	09/18/00	16.72		23.48	0.00	647 ⁹	6.44	ND ⁷	22.3	6.86	22.2	
	10/13/00	16.85		23.35	0.00	--	--	--	--	--	--/29 ¹⁰	
	03/16/01	15.84		24.36	0.00	4,950 ¹¹	1.73	1.77	429	536	613	
	09/04/01	17.16		23.04	0.00	11,000 ⁹	25	<10	1,100	1,800	370	
	03/18/02	15.60		24.60	0.00	8,100 ⁹	<20	<20	740	1,300	<200	
	09/17/02 ¹³	17.35		22.85	0.00	4,200	<2.5	<2.5	120	43	280	
	03/28/03 ¹³	15.72		24.48	0.00	560	<0.50	<0.50	0.96	<1.0	69	
U-2	08/23/90	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	--	
	12/05/90	--		--	--	ND	ND	ND	ND	ND	--	
	03/04/91	--		--	--	ND	ND	0.9	ND	2.6	--	
	06/03/91	--		--	--	ND	ND	ND	ND	ND	--	
	09/19/91	--		--	--	ND	ND	ND	ND	ND	--	
	12/04/91	--		--	--	ND	ND	ND	ND	ND	--	
	03/05/92	--		--	--	ND	ND	0.36	ND	ND	--	
	04/07/92	--		--	--	ND	ND	ND	ND	ND	--	
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--	
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--	
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--	
	41.62	06/04/93	17.59		24.03	0.00	ND	ND	ND	ND	ND	--
		09/09/93	18.68		22.94	0.00	ND	ND	ND	ND	ND	--
41.26	12/02/93	19.23		22.03	0.00	ND	ND	ND	ND	ND	--	
	03/09/94	18.05		23.21	0.00	62	1.1	5.4	1.1	9.7	--	
	04/13/94	18.18		23.08	0.00	ND	ND	ND	ND	ND	--	
	06/09/94	18.26		23.00	0.00	ND	ND	ND	ND	ND	--	
	09/07/94	19.28		21.98	0.00	ND	ND	0.63	ND	0.61	--	
	12/05/94	18.82		22.44	0.00	ND	ND	ND	ND	ND	--	
	03/09/95	16.96		24.30	0.00	ND	ND	ND	ND	ND	ND	

Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2 (cont)	06/13/95	16.71	15.0-30.0	24.55	0.00	ND	ND	ND	ND	ND	ND
	09/12/95	17.80		23.46	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	18.18		23.08	0.00	ND	ND	ND	ND	ND	ND
	03/20/96	15.02		26.24	0.00	--	--	--	--	--	--
	09/24/96	17.90		23.36	0.00	--	--	--	--	--	--
	03/27/97	16.45		24.81	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	18.40		22.86	0.00	--	--	--	--	--	--
	03/10/98	13.79		27.47	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	17.98		23.28	0.00	--	--	--	--	--	--
	03/04/99	14.96		26.30	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	18.25		23.01	0.00	--	--	--	--	--	--
	03/21/00	15.54		25.72	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	17.55		23.71	0.00	--	--	--	--	--	--
	03/16/01	17.06		24.20	0.00	--	--	--	--	--	--
	09/04/01	18.39		22.87	0.00	--	--	--	--	--	--
	03/18/02	16.87		24.39	0.00	--	--	--	--	--	--
	09/17/02	18.33		22.93	0.00	--	--	--	--	--	--
03/28/03	16.95	24.31	0.00	--	--	--	--	--	--		
U-3	08/23/90	--	15.0-25.0	--	--	110,000	4,400	13,000	2,800	17,000	--
	12/05/90	--		--	--	69,000	1,900	3,500	1,600	9,800	--
	01/18/91	--		--	--	51,000	1,700	3,100	1,500	7,500	--
	03/04/91	--		--	--	84,000	1,400	10,000	2,900	17,000	--
	06/03/91	--		--	--	130,000	5,800	19,000	4,600	24,000	--
	09/19/91	--		--	--	61,000	3,300	9,700	2,800	15,000	--
	12/04/91	--		--	--	75,000	2,500	6,100	1,900	11,000	--
	03/05/92	--		--	--	160,000	5,300	15,000	5,400	26,000	--
	04/07/92	--		--	--	97,000	6,100	16,000	5,400	28,000	--
	08/06/92	--		--	--	140,000	5,100	13,000	5,000	23,000	--

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5760

376 Lewelling Boulevard

San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3	11/20/92	--	15.0-25.0	--	--	50,000	3,200	4,700	1,900	10,000	--
(cont)	02/12/93	--		--	--	80,000	3,700	9,400	3,700	18,000	--
39.64	06/04/93	15.48		24.16	0.00	92,000	2,900	8,700	4,300	20,000	--
	09/09/93	17.04		22.60	0.00	110,000	2,800	10,000	6,500	31,000	--
39.26	12/02/93	17.55		21.71	0.00	110,000	3,200	7,700	5,600	26,000	--
	03/09/94	16.35		22.91	0.00	120,000	4,500	8,300	5,600	28,000	--
	06/09/94	16.60		22.66	0.00	120,000 ⁴	3,300	6,100	5,200	26,000	--
	09/07/94	17.61		21.65	0.00	100,000	2,400	4,900	4,200	21,000	--
	12/05/94	17.08		22.18	0.00	140,000	3,100	5,100	4,900	21,000	--
	03/09/95	15.20		24.06	0.00	100,000	2,300	3,300	4,800	21,000	54,000
	06/13/95	15.11		24.15	0.00	64,000	1,700	1,500	3,800	18,000	900
39.26**	09/12/95	16.11		23.15	0.00	69,000	1,700	820	4,000	19,000	29,000
	12/14/95								--	--	--
	03/20/96								--	--	--
	03/22/96	--		--	--	15,000	150	490	480	3,100	400
	09/24/96								--	--	--
	03/27/97	14.77		24.49	0.00	110	ND	ND	ND	0.62	9.6
	09/23/97	16.74		22.52	0.00	ND	ND	ND	ND	ND	ND
	03/10/98	12.18		27.08	0.00	ND	ND	ND	ND	3.1	ND
	09/04/98	16.46		22.80	0.00	ND	ND	ND	1.2	2.3	ND
	03/04/99	13.48		25.78	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	16.71		22.55	0.00	ND	ND	1.77	ND	1.06	9.08
	03/21/00	13.87		25.39	0.00	18,700 ⁸	ND ⁷	ND ⁷	1,290	4,770	ND ⁷
	09/18/00	16.12		23.14	0.00	ND	ND	ND	ND	ND	ND
	03/16/01	15.35		23.91	0.00	2,310 ¹²	ND	ND	184	618	ND
	09/04/01	16.71		22.55	0.00	340 ⁹	0.95	<0.50	8.1	18	<5.0
	03/18/02	15.11		24.15	0.00	6,500 ⁹	<10	<10	390	1,400	<100
	09/17/02 ¹³	17.67		21.59	0.00	<50	<0.50	<0.50	<0.50	<1.0	2.0
	03/28/03 ¹³	15.25		24.01	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0

Tosco
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
U-4	08/23/90	--	15.0-28.0	--	--	ND	ND	1.0	ND	1.8	--	
	12/05/90	--		--	--	ND	ND	ND	ND	ND	--	
	01/18/91	--		--	--	ND	ND	ND	ND	ND	--	
	03/04/91	--		--	--	ND	ND	ND	ND	ND	--	
	06/03/91	--		--	--	ND	ND	ND	ND	ND	--	
	09/19/91	--		--	--	ND	ND	ND	ND	ND	--	
	12/04/91	--		--	--	ND	ND	ND	ND	ND	--	
	03/05/92	--		--	--	ND	ND	ND	ND	ND	--	
	04/07/92	--		--	--	ND	ND	ND	ND	ND	--	
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--	
	11/20/92	--		--	--	ND	ND	2.5	ND	ND	--	
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--	
	40.53	06/04/93	16.73		23.80	0.00	ND	ND	ND	ND	ND	--
		09/09/93	16.89		23.64	0.00	ND	ND	ND	ND	ND	--
40.25	12/02/93	18.46		21.79	0.00	ND	ND	ND	ND	2.6	--	
	03/09/94	17.30		22.95	0.00	ND	1.4	4.7	1.1	8.1	--	
40.28	04/13/94	17.44		22.81	0.00	ND	ND	ND	ND	ND	--	
	06/09/94	17.53		22.72	0.00	ND	ND	ND	ND	ND	--	
	09/07/94	18.52		21.76	0.00	ND	ND	1.1	ND	1.0	--	
	12/05/94	18.08		22.20	0.00	ND	ND	ND	ND	ND	ND	
40.25	03/09/95	16.16		24.12	0.00	ND	ND	ND	ND	ND	2.7	
	06/13/95	15.95		24.30	0.00	ND	ND	ND	ND	ND	ND	
	09/12/95	17.10		23.15	0.00	ND	ND	ND	ND	ND	ND	
	12/14/95	17.43		22.82	0.00	ND	ND	ND	ND	ND	1.3	
	03/20/96	14.93		25.32	0.00	--	--	--	--	--	--	
	09/24/96	17.19		23.06	0.00	--	--	--	--	--	--	
	03/27/97	15.66		24.59	0.00	ND	ND	ND	ND	ND	ND	
	09/23/97	17.69		22.56	0.00	--	--	--	--	--	--	
	03/10/98	12.99		27.26	0.00	ND	ND	ND	ND	ND	ND	
	09/04/98	17.28		22.97	0.00	--	--	--	--	--	--	
03/04/99	14.17		26.08	0.00	ND	ND	ND	ND	ND	ND		
09/13/99	17.55		22.70	0.00	--	--	--	--	--	--		

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5760

376 Lewelling Boulevard

San Lorenzo, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-4	03/21/00	14.74	15.0-28.0	25.51	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/18/00	16.88		23.37	0.00	--	--	--	--	--	--
	03/16/01	16.32		23.93	0.00	--	--	--	--	--	--
	09/04/01	17.70		22.55	0.00	--	--	--	--	--	--
	03/18/02	16.08		24.17	0.00	--	--	--	--	--	--
	09/17/02	16.56		23.69	0.00	--	--	--	--	--	--
	03/28/03	16.15		24.10	0.00	--	--	--	--	--	--
U-5	04/07/92	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
39.61	06/04/93	16.05		23.56	0.00	ND	ND	ND	ND	ND	--
	09/09/93	16.90		22.71	0.00	ND	ND	ND	ND	ND	--
39.31	12/02/93	17.66		21.65	0.00	ND	ND	ND	ND	ND	--
	03/09/94	16.45		22.86	0.00	71	1.7	6.3	1.5	10	--
	04/13/94	16.64		22.67	0.00	ND	ND	ND	ND	ND	--
	06/09/94	16.70		22.61	0.00	ND	ND	ND	ND	ND	--
	09/07/94	17.73		21.58	0.00	ND	ND	0.73	ND	0.84	--
	12/05/94	17.23		22.08	0.00	ND	ND	ND	ND	ND	--
	03/09/95	15.35		23.96	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	15.16		24.15	0.00	ND	ND	ND	ND	ND	0.87
	09/12/95	16.30		23.01	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	16.56		22.75	0.00	ND	ND	ND	ND	ND	ND
	03/20/96	14.07		25.24	0.00	--	--	--	--	--	--
	09/24/96	16.55		22.76	0.00	--	--	--	--	--	--
	03/27/97	14.85		24.46	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	16.90		22.41	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/10/98	12.21		27.10	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	16.57		22.74	0.00	--	--	--	--	--	--
	03/04/99	13.42		25.89	0.00	ND	ND	0.67	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-5 (cont)	09/13/99	17.02	15.0-30.0	22.29	0.00	--	--	--	--	--	--
	03/21/00	13.93		25.38	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	16.17		23.14	0.00	--	--	--	--	--	--
	03/16/01	15.51		23.80	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	16.88		22.43	0.00	--	--	--	--	--	--
	03/18/02	15.25		24.06	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	09/17/02	16.71		22.60	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/28/03 ¹³	15.21		24.10	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
U-6	04/07/92	--	13.0-28.0	--	--	6,600	90	ND	820	1,200	--
	08/06/92	--		--	--	9,200	160	ND	360	150	--
	11/20/92	INACCESSIBLE		--	--	--	--	--	--	--	--
	02/12/93	--		--	--	2,600	27	ND	120	51	--
37.94	06/04/93	14.45		23.49	0.00	13,000	100	38	450	320	--
	09/09/93	15.56		22.38	0.00	6,300 ³	29	ND	120	34	--
37.68	12/02/93	16.08		21.60	0.00	2,100	12	1.6	21	1.1	--
	03/09/94	14.90		22.78	0.00	2,200	11	8.2	24	16	--
	06/09/94	15.18		22.50	0.00	2,600 ⁴	16	ND	29	ND	--
	09/07/94	16.20		21.48	0.00	16,004	ND	ND	ND	ND	--
	12/05/94	15.60		22.08	0.00	450 ⁵	ND	ND	ND	ND	--
	03/09/95	13.74		23.94	0.00	2,500	29	ND	70	120	320
	06/13/95	13.73		23.95	0.00	1,300	ND	ND	20	46	5,400
	09/12/95	14.85		22.83	0.00	ND	ND	ND	ND	ND	6,600
	12/14/95	14.89		22.79	0.00	760	ND	ND	7.0	8.4	1,100
	03/20/96	12.41		25.27	0.00	52	1.1	0.98	ND	0.75	1,200
	09/24/96	15.06		22.62	0.00	ND	ND	ND	ND	ND	750
	03/27/97	13.48		24.20	0.00	ND	ND	ND	ND	ND	150
	09/23/97	15.36		22.32	0.00	66	0.81	ND	ND	ND	150
	03/10/98	10.90		26.78	0.00	ND	ND	ND	ND	ND	18
	09/04/98	14.85		22.83	0.00	ND	ND	ND	ND	ND	ND

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5760

376 Lewelling Boulevard

San Lorenzo, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-6	03/04/99	12.10	13.0-28.0	25.58	0.00	ND	ND	ND	ND	ND	6.5
(cont)	09/13/99	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/21/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/18/00	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/16/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/04/01	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	03/18/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	09/17/02	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
	PAVED OVER										
U-7	04/07/92	--	15.0-35.0	--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	11/20/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
37.49	06/04/93	14.17		23.32	0.00	ND	ND	ND	ND	ND	--
	09/09/93	15.23		22.26	0.00	ND	ND	ND	ND	ND	--
37.11	12/02/93	15.61		21.50	0.00	ND	ND	ND	ND	ND	--
	03/09/94	14.45		22.66	0.00	ND	1.4	4.4	0.96	7.5	--
	04/13/94	14.63		22.48	0.00	ND	ND	ND	ND	ND	--
	06/09/94	14.70		22.41	0.00	ND	ND	ND	ND	ND	--
	09/07/94	15.72		21.39	0.00	ND	ND	ND	ND	ND	--
	12/05/94	15.10		22.01	0.00	ND	ND	ND	ND	ND	--
	03/09/95	13.36		23.75	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	13.33		23.78	0.00	ND	ND	ND	ND	ND	3.5
	09/12/95	14.40		22.71	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	14.39		22.72	0.00	ND	ND	ND	ND	ND	1.4
	03/20/96	11.96		25.15	0.00	--	--	--	--	--	--
	09/24/96	14.59		22.52	0.00	--	--	--	--	--	--
	03/27/97	13.08		24.03	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	14.90		22.21	0.00	--	--	--	--	--	--
	03/10/98	10.46		26.65	0.00	ND	ND	ND	ND	ND	ND

Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.hgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-8	03/04/99	12.81	15.0-30.0	25.76	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/13/99	16.37		22.20	0.00	--	--	--	--	--	--
	03/21/00	13.25		25.32	0.00	ND	ND	ND	ND	ND	ND
	09/18/00	15.31		23.26	0.00	--	--	--	--	--	--
	03/16/01	14.71		23.86	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	16.01		22.56	0.00	--	--	--	--	--	--
	03/18/02	14.46		24.11	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	09/17/02	15.93		22.64	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/28/03 ¹³	14.40		24.17	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
U-9											
37.88	06/04/93	14.67	13.0-28.0	23.21	0.00	2,100 ²	ND	ND	ND	ND	--
	09/09/93	15.79		22.09	0.00	1,200 ²	ND	ND	ND	ND	--
37.31	12/02/93	15.93		21.38	0.00	ND	ND	ND	ND	ND	--
	03/09/94	14.74		22.57	0.00	5,700 ⁴	ND	ND	ND	ND	--
	04/13/94	14.96		22.35	0.00	ND	ND	ND	ND	ND	--
	06/09/94	15.05		22.26	0.00	2,900 ⁵	ND	ND	ND	ND	--
	09/07/94	16.06		21.25	0.00	2,700 ⁵	ND	ND	ND	ND	--
	12/05/94	15.43		21.88	0.00	3,700 ⁵	ND	ND	ND	ND	--
	03/09/95	13.50		23.81	0.00	2,500 ⁵	ND	ND	ND	ND	5,800
	06/13/95	13.63		23.68	0.00	ND	ND	ND	ND	ND	1,200
	09/12/95	14.73		22.58	0.00	ND	ND	ND	ND	ND	1,600
	12/14/95	14.67		22.64	0.00	ND	ND	ND	ND	ND	4,400
	03/20/96	12.27		25.04	0.00	ND	ND	ND	ND	ND	480
	09/24/96	14.92		22.39	0.00	ND	ND	ND	ND	ND	ND
	03/27/97	13.36		23.95	0.00	ND	ND	ND	ND	ND	42
	09/23/97	15.28		22.03	0.00	ND	ND	ND	ND	ND	ND
	03/10/98	10.86		26.45	0.00	ND	ND	ND	ND	3.1	ND
	09/04/98	15.03		22.28	0.00	ND	ND	ND	ND	ND	ND
	03/04/99	11.95		25.36	0.00	ND	ND	ND	ND	ND	ND
	09/13/99	15.61		21.70	0.00	ND	ND	1.67	ND	1.01	7.85

Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
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WELL ID/ TOC* (fl.)	DATE	DTW (fl.)	S.I. (fl.bgs)	GWE (msl)	Product Thickness (fl.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-7	09/04/98	14.42	15.0-35.0	22.69	0.00	--	--	--	--	--	--
(cont)	03/04/99	11.64		25.47	0.00	ND	ND	ND	ND	ND	6.6
	09/13/99	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
	03/21/00	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
	09/18/00	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
	03/16/01	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
	09/04/01	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
	09/17/02	INACCESSIBLE - PAVED OVER				--	--	--	--	--	--
PAVED OVER											
U-8	04/07/92	--	15.0-30.0	--	--	ND	ND	ND	ND	ND	--
	08/06/92	--		--	--	ND	ND	ND	ND	ND	--
	02/12/93	--		--	--	ND	ND	ND	ND	ND	--
38.94	06/04/93	15.26		23.68	0.00	ND	ND	ND	ND	ND	--
	09/09/93	16.38		22.56	0.00	ND	ND	ND	ND	ND	--
38.57	12/02/93	16.80		21.77	0.00	ND	ND	ND	ND	ND	--
	03/09/94	15.62		22.95	0.00	ND	1.2	3.7	0.79	6.1	--
	04/13/94	15.80		22.77	0.00	ND	ND	0.78	ND	0.98	--
	06/09/94	15.86		22.71	0.00	ND	ND	ND	ND	ND	--
	09/07/94	16.87		21.70	0.00	ND	ND	ND	ND	ND	--
	12/05/94	16.32		22.25	0.00	ND	ND	ND	ND	ND	--
	03/09/95	14.56		24.01	0.00	ND	ND	ND	ND	ND	ND
	06/13/95	14.40		24.17	0.00	ND	ND	ND	ND	ND	ND
	09/12/95	15.50		23.07	0.00	ND	ND	ND	ND	ND	ND
	12/14/95	15.67		22.90	0.00	ND	ND	ND	ND	ND	ND
	03/20/96	13.25		25.32	0.00	--	--	--	--	--	--
	09/24/96	15.75		22.82	0.00	--	--	--	--	--	--
	03/27/97	14.18		24.39	0.00	ND	ND	ND	ND	ND	ND
	09/23/97	16.05		22.52	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/10/98	11.63		26.94	0.00	ND	ND	ND	ND	ND	ND
	09/04/98	15.81		22.76	0.00	--	--	--	--	--	--

Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID/ TOC* (%)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	Product Thickness (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-9	03/21/00	12.38	13.0-28.0	24.93	0.00	ND	ND	ND	ND	ND	ND
(cont)	09/18/00	14.87		22.44	0.00	ND	ND	1.42	ND	1.06	ND
	03/16/01	13.85		23.46	0.00	ND	ND	ND	ND	ND	ND
	09/04/01	15.22		22.09	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/18/02	13.56		23.75	0.00	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	09/17/02	15.14		22.17	0.00	SAMPLED ANNUALLY		--	--	--	--
	03/28/03 ¹³	13.61		23.70	0.00	<50	<0.50	<0.50	<0.50	<1.0	<2.0
Trip Blank											
TB-LB	03/10/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/04/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/04/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/13/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/21/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/18/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/13/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/16/01	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/04/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/18/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	09/17/02	--	--	--	--	<50	<0.50	0.66	<0.50	<1.0	<2.0
	03/28/03 ¹³	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5760

376 Lewelling Boulevard

San Lorenzo, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 10, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppb) = Parts per billion
(ft.) = Feet	B = Benzene	ND = Not Detected
DTW = Depth to Water	T = Toluene	-- = Not Measured/Not Analyzed
S.I. = Screen Interval	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
(ft.bgs) = Feet Below Ground Surface	X = Xylenes	
GWE = Groundwater Elevation	MTBE = Methyl tertiary butyl ether	
(msl) = Mean sea level		

* TOC elevations have been surveyed relative to msl. Prior to December 2, 1993, the DTW measurements were taken from the top of well covers.

** The PVC well casing was shortened in September 1995.

¹ Ethylbenzene and Xylenes were combined prior to March 1990.

² The concentration reported as gasoline is primarily due to the presence of a discrete hydrocarbon peak not indicative of standard gasoline.

³ The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

⁴ Laboratory report indicates the hydrocarbons detected appeared to be gasoline and non-gasoline mixture.

⁵ Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.

⁶ Laboratory report indicates gasoline and unidentified hydrocarbons >C8.

⁷ Detection limit raised. Refer to analytical reports.

⁸ Laboratory report indicates gasoline C6-C12.

⁹ Laboratory report indicates weathered gasoline C6-C12.

¹⁰ MTBE by EPA Method 8260.

¹¹ Laboratory report indicates gas range and late peaks.

¹² Laboratory report indicates gas pattern.

¹³ TPH-G, BTEX and MTBE by EPA Method 8260.

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Groundwater Analytical Report - Oxygenate Compounds
 Tosco (Unocal) Service Station #5760
 376 Lewelling Boulevard
 San Lorenzo, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
U-1	10/13/00	ND	ND	29	ND	ND	ND	ND	ND
	09/17/02	<2,500	<500	280	<10	<10	<10	<10	<10
	03/28/03	--	--	69	--	--	--	--	--
U-3	09/17/02	--	--	2.0	--	--	--	--	--
	03/28/03	--	--	<2.0	--	--	--	--	--
U-5	03/28/03	--	--	<2.0	--	--	--	--	--
U-8	03/28/03	--	--	<2.0	--	--	--	--	--
U-9	03/28/03	--	--	<2.0	--	--	--	--	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
 MTBE = Methyl tertiary butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane
 EDB = Ethylene dibromide
 (ppb) = Parts per billion
 ND = Not Detected
 -- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Dissolved Oxygen Concentrations
Tosco (Unocal) Service Station #5760
376 Lewelling Boulevard
San Lorenzo, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
U-1	03/27/97	2.41	2.35
U-2	03/27/97	4.36	4.49
U-3	03/27/97	3.18	3.32
U-4	03/27/97	3.32	3.26
U-5	03/27/97	3.74	3.77
U-6	03/20/96	3.85	3.89
	09/20/96	3.73	3.81
	03/27/97	4.43	4.36
	09/23/97	--	4.14
	03/10/98	--	3.95
U-7	03/27/97	3.29	3.38
U-8	03/27/97	3.04	3.11
U-9	03/20/96	4.02	4.00
	09/20/96	3.85	3.98
	03/27/97	3.65	3.57
	09/23/97	--	3.80
	03/10/98	--	3.62

EXPLANATIONS:

Dissolved oxygen concentrations prior to March 10, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured