STID 4104 ✓

ENVIRONMENTAL RESOLUTIONS, INC.

July 13, 2001
ERI 2023QSR.L18

AUG 02 2001

Mr. Steve Morse
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: Tosco Marketing Company, Quarterly Summary Reports, Second Quarter 2001.

Mr. Morse:

At the request of Tosco Marketing Company (Tosco), Environmental Resolutions, Inc. (ERI) is submitting the attached second quarter 2001 summary reports for various Tosco facilities at which ERI is performing ongoing environmental work within the San Francisco Bay Region. Please call me at (415) 382-5994 with any questions.

Sincerely,
Environmental Resolutions, Inc.

Glenn L. Matteucci
Tosco Program Manager

Attachments: Second Quarter 2001 Quarterly Summary Reports

cc: Mr. Dave DeWitt, Tosco
Mr. Ed Ralston, Tosco
Mr. David Camille, Tosco
Mr. Jake Madden, San Mateo County Department of Health Services
Mr. Mamdouh Awwad, City and County of San Francisco Department of Public Health Bureau of Environmental Health Management
Mr. Ted Trenholm, Alameda County Water District
Ms. Eva Chu, Alameda County Department of Environmental Health Services
Mr. Amir Gholami, Alameda County Department of Environmental Health Services
Mr. Bill Mitchell, City of Berkeley Planning & Economic Development Department Toxics Management Division
Mr. Geoffrey A. Fiedler, R.G., City of Berkeley Planning & Economic Development Department-Toxics Management Division
Mr. Bradley Mark, San Rafael Fire Department
Ms. Jacqueline Bertaina, Napa County Department of Environmental Management

QUARTERLY SUMMARY REPORT
Second Quarter 2001
(April - June)

TOSCO 76 SERVICE STATION 7176
7850 Amador Valley Boulevard
Dublin, California

City/County ID: City of Dublin/Alameda County

Lead Agency: Alameda County Health Care Services Agency

BACKGROUND

In November 1994, Unocal Corporation (Unocal) replaced the fuel underground storage tanks (USTs) and removed the used-oil UST. Approximately 1,863 tons of hydrocarbon-impacted soil was excavated and transported to a Unocal-approved landfill. In July 1995, Unocal performed a soil and groundwater investigation that included drilling nine soil borings and constructing three on-site groundwater monitoring wells. During March 1998, Tosco Marketing Company (Tosco) performed an off-site soil and groundwater investigation that included installation of two off-site groundwater monitoring wells south and east of the site. During third quarter 2000, ERI completed and submitted to the appropriate regulatory agencies the *Request and Work Plan for Case Closure* presenting the results of a groundwater receptor survey and risk-based corrective action Tier II analysis and requesting closure of the environmental case.

RECENT QUARTER ACTIVITIES

Performed quarterly groundwater monitoring, sampling, and reporting. Completed and submitted the *Addendum to Request and Work Plan for Case Closure,* including hydrographs and concentration versus time graphs for select wells, and required agency closure summary forms, to the appropriate regulatory agencies.

NEXT QUARTER ACTIVITIES

Continue quarterly groundwater monitoring, sampling and reporting. Await regulatory response to the closure plan and addendum.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated?	Yes
Dissolved groundwater delineated?	No
Free Product delineated?	NA
Amount of gw contaminant recovered this quarter?	0 gallons
Amount of gw contaminant recovered to date?	15,511 gallons gw removed
Soil remediation in progress?	1,863 tons removed
Dissolved/free product remediation in progress?	No

CONSULTANT: Environmental Resolutions, Inc.

GETTLER-RYAN INC.

TRANSMITTAL

August 14, 2001
G-R #: 180022

4104 ✓
STID

TO: Mr. David B. De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

CC: Mr. Keith Romstad
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

Deanna
9/17/01

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Tosco(Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 3, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 6, 2001

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by ***August 28, 2001***, this report will be distributed to the following:

cc: Mr. Amir K. Gholami, REHS, Alameda County Health Care Services, 1131 Harbor Bay Pkwy., Alameda, CA 94502

Enclosure

trans/7176-DBD

GETTLER-RYAN INC.

August 3, 2001
G-R Job #180022

Mr. David B. De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: Third Quarter Event of July 6, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, 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 as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

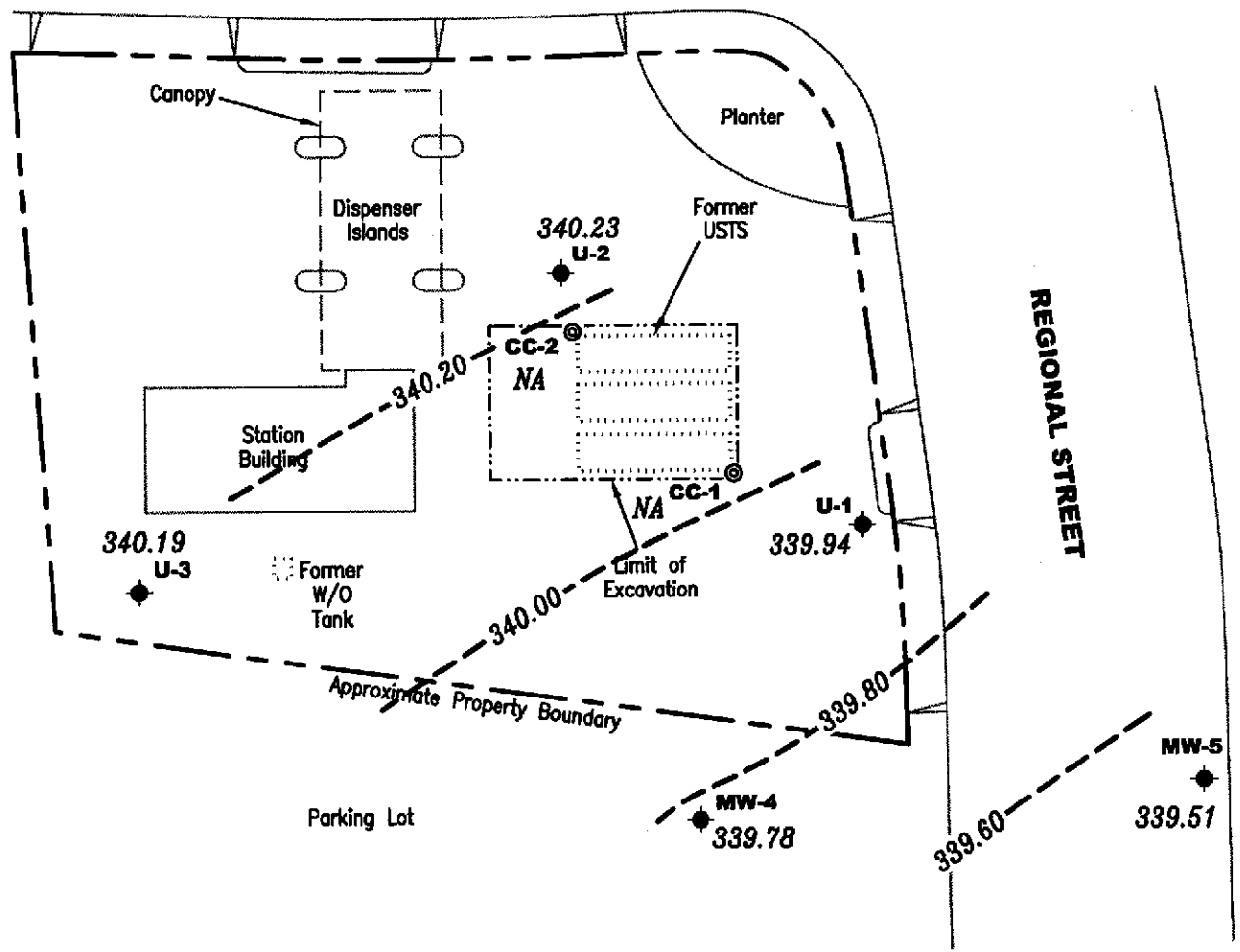
- For -

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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
7176.gml Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- Groundwater monitoring well
- Conductor casing
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.
- NA — Not Available

Approximate groundwater flow direction at a gradient of 0.004 to 0.005 Ft./Ft.

N

0 40

Scale in Feet

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

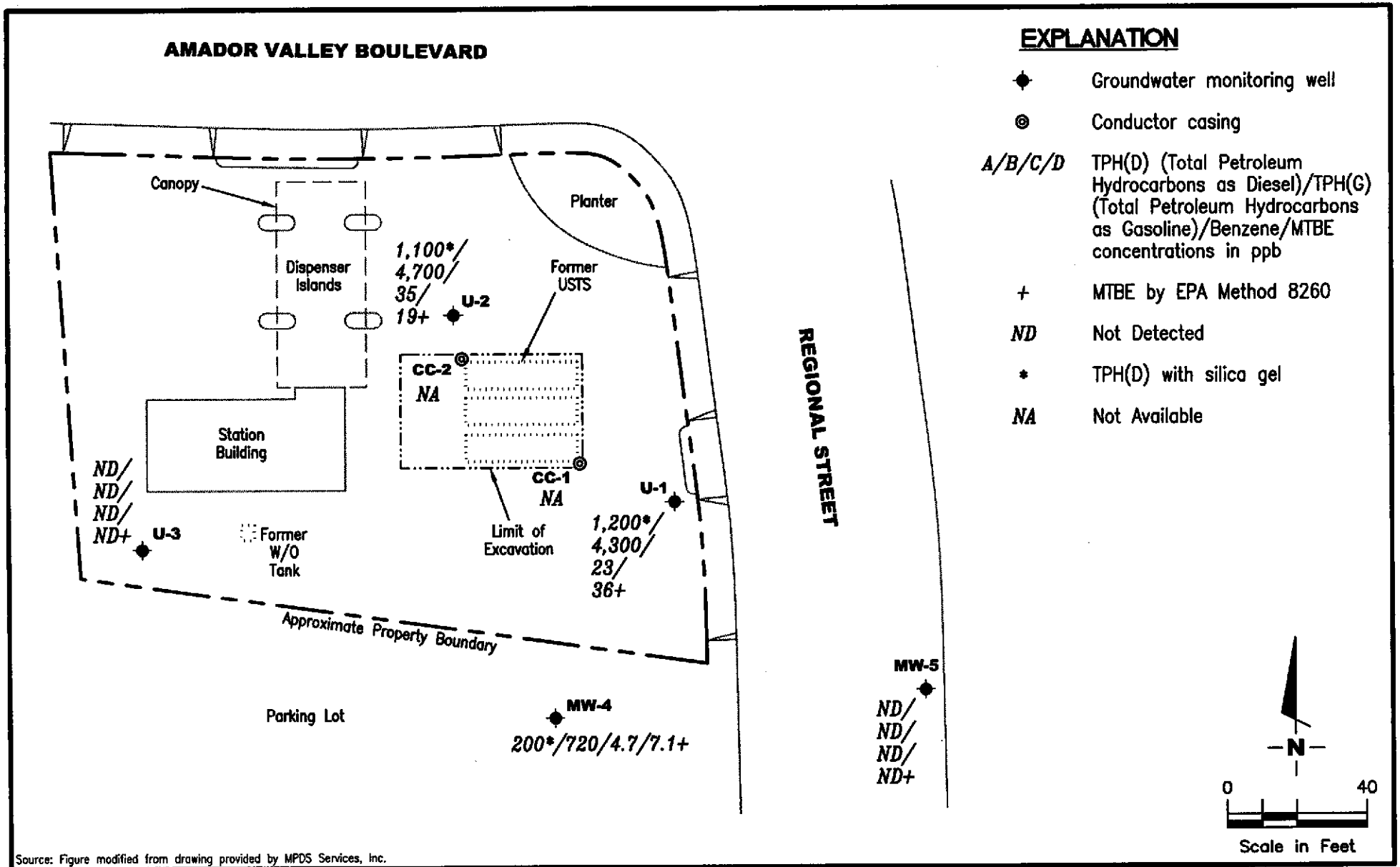
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

FIGURE 1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180022		July 6, 2001	

FILE NAME: P:\ENVIRO\TOSCO\7176\Q01-7176.DWG | Layout Tab: Pot3



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

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

CONCENTRATION MAP
Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180022		July 6, 2001	

FILE NAME: P:\ENVIRO\TOSCO\7176\Q01-7176.DWG | Layout Tab: Con3

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

WELL ID/ TOC*		DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-D♦ (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-1												
355.62		07/08/95	12.59	10.0-30.0	343.03	[3]9,400/--	39,000	1,500	19	1,600	5,200	--
		10/12/95	15.38		340.24	[5]4,200/--	33,000	1,400	ND	1,400	3,100	--[7]
		01/11/96[1]	16.33		339.29	[5]8,200/--	8,300	690	11	680	1,500	--[8]
		04/11/96[2]	12.20		343.42	[5]630/--	3,200	110	ND	180	290	790
		07/10/96	13.84		341.78	[5]2,200/--	2,600	81	4.4	210	230	510
		10/30/96	15.85		339.77	[5]560/--	2,200	67	19	140	150	360
		01/27/97	12.20		343.42	[5]2,300/--	4,600	98	ND	360	290	150
		04/08/97	13.46		342.16	[5]1,300/--	2,800	50	ND	220	140	ND
		07/17/97	15.30		340.32	[6]460/--	2,300	30	4.5	140	94	190
		10/17/97	16.33		339.29	[6]510/--	1,500	31	6.7	110	88	220
		01/19/98	14.34		341.28	[10]1,900/1,300[10]	3,100	46	3.4	310	200	170
355.59	NP	04/23/98	11.16		344.43	--/1,700[11]	3,400	72	3.8	470	350	280
	NP	07/08/98	12.67		342.92	[14]2,000/--	4,500	51	ND[12]	590	430	190
		10/05/98	14.57		341.02	--/2,500[10]	7,500[16]	53	ND[12]	680	350	190/180[17]
		01/04/99	15.35		340.24	[11]2,700/2,500[11]	10,000[19]	ND[12]	ND[12]	1,200	540	ND[12]
		04/05/99	13.64		341.95	[10]920/570[10]	4,900	34	ND[12]	350	150	150/55[17]
		07/01/99	14.39		341.20	[10]2,700/3,600[26]	10,000	45	ND[12]	850	420	260/110[17]
		09/30/99	15.32		340.27	[10]2,360/1,680[10]	7,150[27]	ND[12]	ND[12]	415	84.4	[12]ND/195[17]
		01/03/00	16.51		339.08	[26]2,000/1,700[26]	5,400[27]	28	8.4	180	33	160/120[17]
		04/04/00	12.89		342.70	[26]990/1,400[26]	4,800[27]	30	ND[12]	210	93	170/160[17]
		07/14/00	14.56		341.03	[26]2,800/1,200[26]	6,200[27]	41	16	170	32	170/120[17]
		10/27/00	15.96		339.63	[26]1,400/1,300[26]	3,830[16]	16.8	ND[12]	68.6	7.99	55.2/38[17]
		01/08/01	15.72		339.87	--/873[29]	2,410[16]	14.7	4.30	30.5	5.04	34.5/9.33[17]
		04/03/01	14.46		341.13	[26]1,500/830[26]	3,330[16]	15.8	5.96	74.8	7.06	[12]ND/13.3[17]
		07/06/01	**15.65**		**339.94**	**[10]1,600/1,200[10,30]**	**4,300[16]**	**23**	**6.4**	**57**	**6.8**	**58/36[17]**
U-2												
356.59		07/08/95	12.68	10.0-30.0	343.91	[3]4,700/--	17,000	430	ND	2,200	590	--
		10/12/95	16.01		340.58	[5]3,600/--	24,000	310	60	1,900	190	--[7]
		01/11/96[1]	17.06		339.53	[5]8,600/--	10,000	210	55	1,400	240	--[8]

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

WELL ID/ TOC*		DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-D♦ (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-2		04/11/96[2]	12.75	10.0-30.0	343.84	[5]1,900/--	7,700	130	27	1,100	110	340
(cont)		07/10/96	14.42		342.17	[5]2,300/--	5,600	59	15	610	42	250
		10/30/96	16.82		339.77	[5]1,800/--	7,700	67	35	1,000	54	260
		01/27/97	12.91		343.68	[5]660/--	1,600	14	ND	130	7.0	100
		04/08/97	14.07		342.52	[5]2,000/--	4,300	35	ND	400	16	ND
		07/17/97	15.96		340.63	[6]1,300/--	6,200	17	22	410	ND	130
		10/17/97	17.03		339.56	[6]1,400/--	7,100	71	26	520	50	ND
		01/19/98	15.10		341.49	[10]2,100/1,500[10]	5,300	46	11	350	16	110
356.55	NP	04/23/98	11.74		344.81	--/1,200[11]	3,200	23	11	210	38	160
	NP	07/08/98	13.27		343.28	[14]1,100/--	1,600	34	8.5	100	7.4	190
		10/05/98	14.90		341.65	--/1,300[10]	2,900[18]	37	8.4	110	7.3	78
		01/04/99	15.94		340.61	[11]670/250[20]	2,200[21]	35	ND[12]	17	ND[12]	86
		04/05/99	14.19		342.36	[10]660/490[10]	4,900	21	77	130	310	100/6.9[17]
		07/01/99	14.98		341.57	[24]210/440[26]	1,500[25]	7.6	ND[12]	ND[12]	ND[12]	[12]ND/35[17]
		09/30/99	16.00		340.55	[10]483/340[10]	256[27]	1.85	ND[12]	2.42	ND[12]	26.3/29.8[17]
		01/03/00	17.20		339.35	[26]2,400/1,900[26]	3,400[27]	23	13	ND[12]	44	46/14[17]
		04/04/00	13.50		343.05	[26]1,000/1,000[26]	3,600[27]	34	17	56	ND[12]	59/25[17]
		07/14/00	15.23		341.32	[26]1,000/350[26]	3,100[27]	16	13	15	10	100/19[17]
		10/27/00	16.74		339.81	[26]2,000/1,900[26]	4,180[16]	30.4	10.2	14.6	ND[12]	55.5/15[17]
		01/08/01	16.68		339.87	--/624[29]	3,300[16]	33.5	7.32	3.49	ND[12]	66.7/7.49[17]
		04/03/01	15.12		341.43	[26]1,500/830[26]	4,290[16]	32.4	9.91	20.1	ND[12]	66.6/18.1[17]
		07/06/01	**16.32**		**340.23**	**[10]1,400/1,100[10,30]**	**4,700[16]**	**35**	**11**	**12**	**5.3**	**62/19[17]**
U-3												
358.13		07/08/95	14.58	10.0-30.0	343.55	[3]710/--	1,100[4]	0.57	2.1	1.7	2.4	--
		10/12/95	17.60		340.53	[6]470/--	560	ND	0.87	0.7	1.1	--
		01/11/96[1]	18.65		339.48	[6]260/--	230	0.62	0.91	0.97	1.9	--
		04/11/96	13.20		344.93	ND/--	68[9]	ND	ND	ND	ND	ND
		07/10/96	15.98		342.15	ND/--	ND	ND	ND	ND	ND	ND
		10/30/96	18.24		339.89	ND/--	70	ND	ND	ND	ND	ND
		01/27/97	14.41		343.72	ND/--	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

WELL ID/ TOC*		DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-D♦ (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
U-3		04/08/97	15.73	10.0-30.0	342.40	ND/--	ND	ND	ND	ND	ND	ND
(cont)		07/17/97	17.54		340.59	ND/--	ND	ND	ND	ND	ND	ND
		10/17/97	18.64		339.49	[6]63/--	ND	ND	ND	ND	ND	ND
		01/19/98	16.67		341.46	[10]68/ND	ND	ND	ND	ND	ND	ND
358.09	NP	04/23/98	13.28		344.81	--/ND	ND	ND	ND	ND	ND	ND
	NP	07/08/98	14.90		343.19	[15]80/--	ND	ND	ND	ND	ND	ND
		10/05/98	16.50		341.59	--/ND	ND	ND	ND	ND	ND	ND
		01/04/99	17.70		340.39	ND/--	ND	ND	ND	ND	ND	ND
		04/05/99	15.67		342.42	ND/--	ND	ND	ND	ND	ND	ND[17]
		07/01/99	16.79		341.30	ND/--	ND	ND	ND	ND	ND	ND[17]
		09/30/99	17.60		340.49	ND/--	ND	ND	ND	ND	ND	ND[17]
		01/03/00	18.86		339.23	ND/--	ND	ND	ND	ND	ND	ND[17]
		04/04/00	15.10		342.99	ND/--	ND	ND	ND	ND	ND	ND[17]
		07/14/00	16.85		341.24	ND/--	ND	ND	ND	ND	ND	ND[17]
		10/27/00	18.35		339.74	ND/--	ND	ND	ND	ND	ND	ND[17]
		01/08/01	18.31		339.78	--/ND	ND	ND	ND	ND	ND	ND[17]
		04/03/01	16.70		341.39	ND/--	ND	ND	ND	ND	ND	ND[17]
		07/06/01	**17.90**		**340.19**	**ND/--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/ND[17]**
MW-4												
356.41		04/23/98	12.11	10.0-25.0	344.30	--/1,400[11]	2,500	5.9	6.4	16	31	ND[12]
		07/08/98	13.70		342.71	[11]1,400/--	1,000[13]	ND[12]	ND[12]	ND[12]	ND[12]	ND[12]
		10/05/98	15.18		341.23	--/230[10]	890[16]	ND[12]	ND[12]	ND[12]	14	ND[12]
		01/04/99	16.39		340.02	[10]71/71[10]	230[22]	0.56	1.3	1.4	1.8	10
		04/05/99	14.61		341.80	[10]340/210[10]	620[23]	ND[12]	1.8	2.1	ND[12]	6.0/9.3[17]
		07/01/99	15.43		340.98	[24]260/310[26]	700[19]	2.1	ND[12]	1.9	2.4	[12]ND/21[17]
		09/30/99	16.27		340.14	[10]420/220[10]	582[27]	2.60	1.30	1.98	ND[12]	23.1/22.5[17]
		01/03/00	17.50		338.91	[26]250/260[26]	800[27]	4.2	4.6	3.3	11	31/17[17]
		04/04/00	13.91		342.50	[10,15]460/340[26]	710[27]	2.0	1.3	4.4	2.0	21/22[17]
		07/14/00	15.58		340.83	[26]220/76[26]	490[28]	0.89	1.3	0.85	1.8	21/12[17]
		10/27/00	16.96		339.45	[26]160/120[26]	598[21]	ND	1.56	4.65	ND	15.4/14[17]

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-D♦ (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	01/08/01	16.64	10.0-25.0	339.77	--/202[29]	522[27]	4.09	1.69	2.53	1.26	17.2/14.3[17]
(cont)	04/03/01	15.46		340.95	[26]180/ND	575[21]	ND[12]	ND[12]	ND[12]	ND[12]	14.0/11.6[17]
	07/06/01	**16.63**		**339.78**	**[10]230/200[10,30]**	**720[16]**	**4.7**	**1.5**	**2.5**	**0.74**	**10/7.1[17]**
MW-5											
355.03	04/23/98	11.15	10.0-25.0	343.88	--/100[11]	120	0.53	0.90	1.0	3.8	13
	07/08/98	12.63		342.40	[10]170/--	ND	ND	ND	ND	ND	12
	10/05/98	14.00		341.03	--/100[10]	ND	ND	ND	ND	ND	12
	01/04/99	15.21		339.82	ND/--	ND	ND	ND	ND	ND	ND
	04/05/99	13.76		341.27	ND/--	ND	ND	ND	ND	ND	ND/ND[17]
	07/01/99	14.48		340.55	ND/--	ND	ND	ND	ND	ND	[12]ND/2.3[17]
	09/30/99	15.15		339.88	[10]60.4/ND	50.8[27]	ND	ND	ND	ND	ND/ND[17]
	01/03/00	16.34		338.69	ND/--	ND	ND	ND	ND	ND	ND/ND[17]
	04/04/00	12.90		342.13	[15]69/ND	ND	ND	ND	ND	ND	ND/ND[17]
	07/14/00	14.48		340.55	ND/--	ND	ND	ND	ND	ND	ND/ND[17]
	10/27/00	15.75		339.28	ND/--	ND	ND	ND	ND	ND	ND/ND[17]
	01/08/01	15.25		339.78	--/ND	ND	ND	ND	ND	ND	ND/ND[17]
	04/03/01	14.41		340.62	ND/--	ND	ND	ND	ND	ND	ND/ND[17]
	07/06/01	**15.52**		**339.51**	**ND/--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/ND[17]**
Trip Blank											
TB-LB	01/19/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	04/23/98	--		--	--	ND	ND	ND	ND	ND	ND
	07/08/98	--		--	--	ND	ND	ND	ND	ND	ND
	10/05/98	--		--	--	ND	ND	0.70	ND	0.71	ND
	01/04/99	--		--	--	ND	ND	0.74	ND	0.92	ND
	04/05/99	--		--	--	ND	ND	ND	ND	ND	ND
	07/01/99	--		--	--	ND	ND	ND	ND	ND	ND
	09/30/99	--		--	--	ND	ND	ND	ND	ND	ND
	01/03/00	--		--	--	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176

7850 Amador Valley Boulevard

Dublin, California

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-D♦ (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB	04/04/00	--	--	--	--	ND	ND	ND	ND	ND	ND
(cont)	07/14/00	--		--	--	ND	ND	ND	ND	ND	ND
	10/27/00	--		--	--	ND	ND	ND	ND	ND	ND
	01/08/01	--		--	--	ND	ND	ND	ND	ND	ND
	04/03/01	--		--	--	ND	ND	ND	ND	ND	ND
	07/06/01	**--**		**--**	**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
S.I. = Screen Interval
(ft. bgs) = Feet Below Ground Surface
GWE = Groundwater Elevation
(msl) = Mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion
ND = Not Detected
-- = Not Measured/Not Analyzed
NP = No purge

* TOC elevations were surveyed relative to msl, per the Benchmark AM-STW1977 located at the easterly return at the most easterly corner of intersection at Amador Valley Boulevard and Starward Street, (Elevation = 344.17 feet, msl).

♦ Analytical results reported as follows: TPH-D/TPH-D with silica gel cleanup.

1 Polynuclear Aromatic Hydrocarbons (PNAs) compound naphthalene was detected in well U-1 at a concentration of 320 ppb and at a concentration of 310 ppb in well U-2. All other PNAs compounds were ND in both wells.

2 PNAs compounds were ND.

3 Laboratory report indicates unidentified hydrocarbons C9-C26.

4 Laboratory report indicates gasoline and unidentified hydrocarbons >C12.

5 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

6 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.

7 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.

8 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.

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

10 Laboratory report indicates unidentified hydrocarbons C9-C24.

11 Laboratory report indicates diesel and unidentified hydrocarbons <C14.

12 Detection limit raised. Refer to analytical reports.

13 Laboratory report indicates unidentified hydrocarbons >C8.

14 Laboratory report indicates unidentified hydrocarbons <C14.

15 Laboratory report indicates discrete peaks.

16 Laboratory report indicates weathered gasoline C6-C12.

17 MTBE by EPA Method 8260.

18 Laboratory report indicates unidentified hydrocarbons <C8.

19 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.

20 Laboratory report indicates diesel and unidentified hydrocarbons <C16.

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

EXPLANATIONS: (cont)

21 Laboratory report indicates unidentified hydrocarbons C6-C12.

22 Laboratory report indicates gasoline and unidentified hydrocarbons >C10.

23 Laboratory report indicates gasoline and unidentified hydrocarbons <C7.

24 Laboratory report indicates unidentified hydrocarbons C10-C24.

25 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.

26 Laboratory report indicates unidentified hydrocarbons <C16.

27 Laboratory report indicates gasoline C6-C12.

28 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

29 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

30 Laboratory report indicates sample was generated out of hold time. The sample was originally run within hold time, but needed to be re-analyzed.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #7176

7850 Amador Valley Boulevard

Dublin, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
U-1	04/05/99	ND[1]	ND[1]	55	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/01/99	ND	ND	110	ND	ND	ND	ND	ND
	09/30/99	ND[1]	ND[1]	195	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	01/03/00	ND	ND	120	ND	ND	ND	ND	ND
	04/04/00	ND[1]	ND[1]	160	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/14/00	ND[1]	ND[1]	120	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	10/27/00	ND	ND	38	ND	ND	ND	ND	ND
	01/08/01	ND[1]	ND[1]	9.33	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	04/03/01	ND[1]	ND[1]	13.3	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/06/01	**ND**	**ND**	**36**	**ND**	**ND**	**ND**	**ND**	**ND**
U-2	04/05/99	ND[1]	ND[1]	6.9	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/01/99	ND	ND	35	ND	ND	ND	ND	ND
	09/30/99	ND	ND	29.8	ND	ND	ND	ND	ND
	01/03/00	ND	ND	14	ND	ND	ND	ND	ND
	04/04/00	ND[1]	ND[1]	25	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	07/14/00	ND	ND	19	ND	ND	ND	ND	ND
	10/27/00	ND	ND	15	ND	ND	ND	ND	ND
	01/08/01	ND[1]	ND[1]	7.49	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	04/03/01	ND	ND	18.1	ND	ND	ND	ND	ND
	07/06/01	**ND**	**ND**	**19**	**ND**	**ND**	**ND**	**ND**	**ND**
U-3	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	ND	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/00	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/00	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #7176

7850 Amador Valley Boulevard

Dublin, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	EDB (ppb)	1,2-DCA (ppb)
U-3	01/08/01	ND	ND	ND	ND	ND	ND	ND	ND
(cont)	04/03/01	ND	ND	ND	ND	ND	ND	ND	ND
	07/06/01	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
MW-4	04/05/99	ND	ND	9.3	ND	ND	ND	ND	ND
	07/01/99	ND	ND	21	ND	ND	ND	ND	ND
	09/30/99	ND	ND	22.5	ND	ND	ND	ND	ND
	01/03/00	ND	ND	17	ND	ND	ND	ND	ND
	04/04/00	ND	ND	22	ND	ND	ND	ND	ND
	07/14/00	ND	ND	12	ND	ND	ND	ND	ND
	10/27/00	ND	ND	14	ND	ND	ND	ND	ND
	01/08/01	ND	ND	14.3	ND	ND	ND	ND	ND
	04/03/01	ND	ND	11.6	ND	ND	ND	ND	ND
	07/06/01	**ND**	**ND**	**7.1**	**ND**	**ND**	**ND**	**ND**	**ND**
MW-5	04/05/99	ND	ND	ND	ND	ND	ND	ND	ND
	07/01/99	ND	ND	2.3	ND	ND	ND	ND	ND
	09/30/99	ND	ND	ND	ND	ND	ND	ND	ND
	01/03/00	ND	ND	ND	ND	ND	ND	ND	ND
	04/04/00	ND	ND	ND	ND	ND	ND	ND	ND
	07/14/00	ND	ND	ND	ND	ND	ND	ND	ND
	10/27/00	ND	ND	ND	ND	ND	ND	ND	ND
	01/08/01	ND	ND	ND	ND	ND	ND	ND	ND
	04/03/01	ND	ND	ND	ND	ND	ND	ND	ND
	07/06/01	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #7176
7850 Amador Valley Boulevard
Dublin, California

EXPLANATIONS:

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

[1] Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Dissolved Oxygen Concentrations

Tosco (Unocal) Service Station #7176

7850 Amador Valley Boulevard

Dublin, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
U-1	01/11/96	--	3.41
	04/11/96	3.77	3.78
	07/10/96[1]	1.22	--
	10/30/96[1]	1.41	--
	01/27/97[1]	1.34	--
	04/08/97[1]	2.09	--
	07/17/97[1]	2.00	--
	10/17/97[1]	1.86	--
	01/19/98[1]	2.91	--
	04/23/98[1]	0.59	--
	07/08/98[1]	1.10	--
U-2	01/11/96	--	3.99
	04/11/96	3.32	3.41
	07/10/96[1]	1.01	--
	10/30/96[1]	1.42	--
	01/27/97[1]	1.29	--
	04/08/97[1]	1.69	--
	07/17/97[1]	2.08	--
	10/17/97[1]	1.80	--
	01/19/98[1]	2.95	--
	04/23/98[1]	0.55	--
	07/08/98[1]	1.36	--
U-3	01/11/96	--	5.05
	04/11/96	5.16	4.96
	07/10/96[1]	3.44	--
	10/30/96[1]	2.18	--
	01/27/97[1]	2.61	--
	04/08/97[1]	3.73	--
	07/17/97[1]	2.65	--
	10/17/97[1]	2.44	--
	01/19/98[1]	6.51	--
	04/23/98[1]	4.72	--
	07/08/98[1]	4.35	--
CC-1	10/02/95	2.83	--

EXPLANATIONS:

Dissolved oxygen concentrations prior to January 19, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter -- = Not Measured

CC-1 = Conductor casing in the underground storage tank backfill

[1] The wells were not purged on this date.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/
Facility # Tosco # 7176 Job#: 180022

Address: 7850 Amador Valley Blvd. Date: 7/6/01

City: Dublin, Ca. Sampler: Vartkes

Well ID U-1 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 27.80 ft.

Depth to Water 15.65 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

12.15 x VF 0.17 = 2.06 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, (Suction), Grundfos, Other:

Sampling Equipment: (Disposable Bailer), Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 1350

Sampling Time: 1405

Purging Flow Rate: 1 gpm.

Did well de-water? no

Weather Conditions: clear

Water Color: grayish Odor: y

Sediment Description: silt

If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1352	2	7.40	867	73.7			
1354	4	7.26	888	71.9			
1356	6.5	7.23	896	71.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-1	5 x VOA VIAL	Y	HCl	SEQUOIA	(TPHG/BTEX/MTBE + 8260 60Hits+1,2DCA+EDB)
					TPH-D
"	1 Amber	"	NONE	"	

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility #: Tosco # 7176 Job#: 180022

Address: 7850 Amador Valley Blvd. Date: 7/6/01

City: Dublin, Ca. Sampler: VarTkes

Well ID: U-2 Well Condition: OK

Well Diameter: 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 26.46 ft.

Depth to Water: 16.32 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.14 X VF 0.17 = 1.72 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1415 Weather Conditions: clear

Sampling Time: 1430 Water Color: grayish Odor: Y

Purging Flow Rate: 1 gpm. Sediment Description: silt

Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1417	2	7.45	971	74.0			
1419	4	7.30	989	72.2			
1421	5.5	7.27	997	71.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-2	5 x VOA VIAL	Y	HCL	SEQUOIA	(TPHG/BTEX/MTBE + 8260 OXYS+1,2DCA+EDB)
"	1 Amber	"	NONE	"	TPH-D

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco # 7176 Job#: 180022

Address: 7850 Amador Valley Blvd. Date: 7/6/01

City: Dublin, Ca. Sampler: Vartkes

Well ID U-3 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 28.41 ft.

Depth to Water 17.90 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.51 x VF 0.17 = 1.78 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, (Suction), Grundfos, Other:

Sampling Equipment: (Disposable Bailer), Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 1215 Weather Conditions: Clear

Sampling Time: 1230 Water Color: brn. Odor: ND

Purging Flow Rate: 1 gpm. Sediment Description: Silt

Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1217	2	7.84	966	72.3			
1219	4	7.65	980	71.1			
1221	5.5	7.58	992	70.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
U-3	5 x VOA VIAL	Y	HCL	SEQUOIA	TPHG/BTEX/MTBE + 6044's+1,2DCA+EDB (8260)
"	1 Amber	"	NONE	"	TPH-D

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco # 7176 Job#: 180022

Address: 7850 Amador Valley Blvd. Date: 7/6/01

City: Dublin, Ca. Sampler: Vanteer

Well ID MW-4 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 25.40 ft.

Depth to Water 16.63 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

8.77 x VF 0.17 = 1.49 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1320 Weather Conditions: Clear

Sampling Time: 1335 Water Color: brn. Odor: Y

Purging Flow Rate: ppm. Sediment Description: silt

Did well de-water? No If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1322	1.5	7.55	1037	73.5			
1323	3	7.40	1058	72.0			
1325	4.5	7.36	1064	71.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	5 x VOA VIAL	Y	HCL	SEQUOIA	TPHG/BTEX/MTBE+ 6 OXYS+1,2 DCA+EDB (8260)
"	1 Amber	"	NONE	"	TPH-D

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility # Tosco # 7176 Job#: 180022

Address: 7850 Amador Valley Blvd. Date: 7/6/01

City: Dublin, Ca. Sampler: Vartkes

Well ID MW-5 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: 0.00 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 24.88 ft.

Depth to Water 15.52 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

9.36 x VF 0.17 = 1.59 X 3 (case volume) = Estimated Purge Volume: 5.0 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 1249 Weather Conditions: clear

Sampling Time: 1305 Water Color: brn. Odor: no

Purging Flow Rate: 1 gpm. Sediment Description: sft

Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1251	1.5	7.71	927	74.1			
1253	3	7.53	945	71.9			
1255	5	7.50	952	71.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	5 x VOA VIAL	Y	HCl	SEQUOIA	TPHG/BTEX/MTBE+ 6 OXY'S+1,2 DCA+EDB (8260)
					TPH-D
"	1 Amber	"	NONE	"	

COMMENTS:

TOSCO

Texas Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number: UNOCAL SS# 7176
Facility Address: 7850 Amador Valley Blvd. Dublin, CA
Consultant Project Number: 180022.85
Consultant Name: Gettler-Ryan Inc. (G-R Inc.)
Address: 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name): Deanna L. Harding
(Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name): MR. DAVE DEWITT
(Phone): (925) 277-2384
Laboratory Name: Sequoia Analytical
Laboratory Release Number:
Samples Collected by (Name): Varttes Tashjian
Collection Date: 7/6/01
Signature:

10707

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCAP or AA)	8260's (8260) 1,2 DCA & EDB					DO NOT BILL TB-LB ANALYSIS Remarks
								Analyses To Be Performed													
TB-LB	01	1	W	G		HCl	4	X								X					Run Silica Gel clean-up on any Diesel hits.
W-1	02	6	"	"	1405	"	"	X	X							X					
W-2	03	6	"	"	1430	"	"	X	X							X					
W-3	04	6	"	"	1335	"	"	X	X							X					
W-4	05	6	"	"	1335	"	"	X	X							X					
W-5	06	6	"	"	1305	"	"	X	X							X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	7/6/01 1650	Latonya K. Pelt	Sequoia	7/6/01 1650
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

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San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

July 26 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L107077

Enclosed are the results of analyses for samples received by the laboratory on 07/06/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L107077-01	Water	07/06/01 00:00	07/06/01 16:50
U-1	L107077-02	Water	07/06/01 14:05	07/06/01 16:50
U-2	L107077-03	Water	07/06/01 14:30	07/06/01 16:50
U-3	L107077-04	Water	07/06/01 12:30	07/06/01 16:50
MW-4	L107077-05	Water	07/06/01 13:35	07/06/01 16:50
MW-5	L107077-06	Water	07/06/01 13:05	07/06/01 16:50

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8020

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L107077-01) Water Sampled: 07/06/01 00:00 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1070089	07/19/01	07/19/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.7 %*		*70-130*		"	"	"	
U-1 (L107077-02) Water Sampled: 07/06/01 14:05 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	**4300**	500	ug/l	10	1070090	07/19/01	07/19/01	DHS LUFT	P-02
Benzene	**23**	5.0	"	"	"	"	"	"	
Toluene	**6.4**	5.0	"	"	"	"	"	"	
Ethylbenzene	**57**	5.0	"	"	"	"	"	"	
Xylenes (total)	**6.8**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**58**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*79.2 %*		*70-130*		"	"	"	
U-2 (L107077-03) Water Sampled: 07/06/01 14:30 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	**4700**	500	ug/l	10	1070090	07/19/01	07/19/01	DHS LUFT	P-02
Benzene	**35**	5.0	"	"	"	"	"	"	
Toluene	**11**	5.0	"	"	"	"	"	"	
Ethylbenzene	**12**	5.0	"	"	"	"	"	"	
Xylenes (total)	**5.3**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**62**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.3 %*		*70-130*		"	"	"	

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8020

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-3 (L107077-04) Water Sampled: 07/06/01 12:30 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1070090	07/19/01	07/19/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.6 %*		*70-130*	"	"	"	"	
MW-4 (L107077-05) Water Sampled: 07/06/01 13:35 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	**720**	50	ug/l	1	1070090	07/19/01	07/19/01	DHS LUFT	P-02
Benzene	**4.7**	0.50	"	"	"	"	"	"	
Toluene	**1.5**	0.50	"	"	"	"	"	"	
Ethylbenzene	**2.5**	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.74**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**10**	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*		*70-130*	"	"	"	"	
MW-5 (L107077-06) Water Sampled: 07/06/01 13:05 Received: 07/06/01 16:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1070089	07/19/01	07/19/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.0 %*		*70-130*	"	"	"	"	

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (L107077-02) Water Sampled: 07/06/01 14:05 Received: 07/06/01 16:50									
Ethanol	ND	1000	ug/l	1	1070064	07/13/01	07/14/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**36**	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.8 %*	*76-114*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*88-110*		"	"	"	"	
U-2 (L107077-03) Water Sampled: 07/06/01 14:30 Received: 07/06/01 16:50									
Ethanol	ND	1000	ug/l	1	1070064	07/13/01	07/14/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**19**	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.2 %*	*76-114*		"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*88-110*		"	"	"	"	
U-3 (L107077-04) Water Sampled: 07/06/01 12:30 Received: 07/06/01 16:50									
Ethanol	ND	1000	ug/l	1	1070064	07/13/01	07/14/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81.6 %*	*76-114*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88-110*		"	"	"	"	

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Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (L107077-05) Water Sampled: 07/06/01 13:35 Received: 07/06/01 16:50									
Ethanol	ND	1000	ug/l	1	1070064	07/13/01	07/14/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**7.1**	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*82.0 %*		*76-114*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*88-110*	"	"	"	"	
MW-5 (L107077-06) Water Sampled: 07/06/01 13:05 Received: 07/06/01 16:50									
Ethanol	ND	1000	ug/l	1	1070064	07/13/01	07/14/01	EPA 8260B	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81.6 %*		*76-114*	"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*		*88-110*	"	"	"	"	

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (L107077-02) Water Sampled: 07/06/01 14:05 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**1600**	50	ug/l	1	1G18016	07/18/01	07/20/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		*86.5 %*	*50-150*		"	"	"	"	
U-2 (L107077-03) Water Sampled: 07/06/01 14:30 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**1400**	50	ug/l	1	1G18016	07/18/01	07/20/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		*83.9 %*	*50-150*		"	"	"	"	
U-3 (L107077-04) Water Sampled: 07/06/01 12:30 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	ND	50	ug/l	1	1G18016	07/18/01	07/20/01	DHS LUFT	
Surrogate: n-Pentacosane		*76.7 %*	*50-150*		"	"	"	"	
MW-4 (L107077-05) Water Sampled: 07/06/01 13:35 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**230**	50	ug/l	1	1G18016	07/18/01	07/20/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		*69.8 %*	*50-150*		"	"	"	"	
MW-5 (L107077-06) Water Sampled: 07/06/01 13:05 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	ND	50	ug/l	1	1G18016	07/18/01	07/20/01	DHS LUFT	
Surrogate: n-Pentacosane		*72.6 %*	*50-150*		"	"	"	"	*S-09*

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-1 (L107077-02) Water Sampled: 07/06/01 14:05 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**1200**	50	ug/l	1	1G24009	07/24/01	07/24/01	DHS LUFT	D-15,D-23,H-06
Surrogate: n-Pentacosane		*70.0 %*	*40-140*		"	"	"	"	*H-06*
U-2 (L107077-03) Water Sampled: 07/06/01 14:30 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**1100**	50	ug/l	1	1G24009	07/24/01	07/24/01	DHS LUFT	D-15,D-23,H-06
Surrogate: n-Pentacosane		*83.2 %*	*40-140*		"	"	"	"	*H-06*
MW-4 (L107077-05) Water Sampled: 07/06/01 13:35 Received: 07/06/01 16:50									
Diesel Range Hydrocarbons	**200**	50	ug/l	1	1G24009	07/24/01	07/24/01	DHS LUFT	D-15,D-23,H-06
Surrogate: n-Pentacosane		*83.6 %*	*40-140*		"	"	"	"	*H-06*

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8020 - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070089 - EPA 5030B (P/T)										
Blank (1070089-BLK1)				Prepared & Analyzed: 07/19/01						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	5.0	"							
Surrogate: a,a,a-Trifluorotoluene	*8.93*		"	*10.0*		*89.3*	*70-130*			
LCS (1070089-BS1)				Prepared & Analyzed: 07/19/01						
Benzene	8.01	0.50	ug/l	10.0		80.1	70-130			
Toluene	7.70	0.50	"	10.0		77.0	70-130			
Ethylbenzene	7.79	0.50	"	10.0		77.9	70-130			
Xylenes (total)	23.2	0.50	"	30.0		77.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.46*		"	*10.0*		*84.6*	*70-130*			
LCS (1070089-BS2)				Prepared & Analyzed: 07/19/01						
Purgeable Hydrocarbons as Gasoline	241	50	ug/l	250		96.4	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.88*		"	*10.0*		*98.8*	*70-130*			
Matrix Spike (1070089-MS1)		Source: L107083-03		Prepared: 07/19/01 Analyzed: 07/20/01						
Benzene	8.40	0.50	ug/l	10.0	ND	84.0	60-140			
Toluene	8.29	0.50	"	10.0	ND	82.9	60-140			
Ethylbenzene	8.32	0.50	"	10.0	ND	83.2	60-140			
Xylenes (total)	25.4	0.50	"	30.0	ND	84.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.23*		"	*10.0*		*92.3*	*70-130*			
Matrix Spike Dup (1070089-MSD1)		Source: L107083-03		Prepared: 07/19/01 Analyzed: 07/20/01						
Benzene	8.35	0.50	ug/l	10.0	ND	83.5	60-140	0.597	25	
Toluene	8.11	0.50	"	10.0	ND	81.1	60-140	2.20	25	
Ethylbenzene	8.16	0.50	"	10.0	ND	81.6	60-140	1.94	25	
Xylenes (total)	24.8	0.50	"	30.0	ND	82.7	60-140	2.39	25	
Surrogate: a,a,a-Trifluorotoluene	*9.42*		"	*10.0*		*94.2*	*70-130*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8020 - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070090 - EPA 5030B (P/T)										
Blank (1070090-BLK1)				Prepared & Analyzed: 07/19/01						
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	5.0	"							
Surrogate: a,a,a-Trifluorotoluene	*9.64*		"	*10.0*		*96.4*	*70-130*			
LCS (1070090-BS1)				Prepared & Analyzed: 07/19/01						
Benzene	8.18	0.50	ug/l	10.0		81.8	70-130			
Toluene	8.03	0.50	"	10.0		80.3	70-130			
Ethylbenzene	8.21	0.50	"	10.0		82.1	70-130			
Xylenes (total)	25.0	0.50	"	30.0		83.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.71*		"	*10.0*		*87.1*	*70-130*			
LCS (1070090-BS2)				Prepared & Analyzed: 07/19/01						
Purgeable Hydrocarbons as Gasoline	237	50	ug/l	250		94.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.23*		"	*10.0*		*92.3*	*70-130*			
Matrix Spike (1070090-MS1)		**Source: L107086-02**		Prepared & Analyzed: 07/19/01						
Benzene	10.1	0.50	ug/l	10.0	ND	101	60-140			
Toluene	10.1	0.50	"	10.0	ND	101	60-140			
Ethylbenzene	10.3	0.50	"	10.0	ND	103	60-140			
Xylenes (total)	31.1	0.50	"	30.0	ND	104	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.90*		"	*10.0*		*99.0*	*70-130*			
Matrix Spike Dup (1070090-MSD1)		**Source: L107086-02**		Prepared: 07/19/01 Analyzed: 07/20/01						
Benzene	9.35	0.50	ug/l	10.0	ND	93.5	60-140	7.71	25	
Toluene	9.29	0.50	"	10.0	ND	92.9	60-140	8.35	25	
Ethylbenzene	9.44	0.50	"	10.0	ND	94.4	60-140	8.71	25	
Xylenes (total)	29.0	0.50	"	30.0	ND	96.7	60-140	6.99	25	
Surrogate: a,a,a-Trifluorotoluene	*9.04*		"	*10.0*		*90.4*	*70-130*			

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Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070064 - EPA 5030B [P/T]										
Blank (1070064-BLK1)				Prepared & Analyzed: 07/13/01						
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	*44.7*		"	*50.0*		*89.4*	*76-114*			
Surrogate: Toluene-d8	*51.2*		"	*50.0*		*102*	*88-110*			
Blank (1070064-BLK2)				Prepared & Analyzed: 07/16/01						
Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	100	"							
Surrogate: 1,2-Dichloroethane-d4	*41.7*		"	*50.0*		*83.4*	*76-114*			
Surrogate: Toluene-d8	*49.0*		"	*50.0*		*98.0*	*88-110*			
LCS (1070064-BS1)				Prepared & Analyzed: 07/13/01						
Methyl tert-butyl ether	47.4	2.0	ug/l	50.0		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*45.9*		"	*50.0*		*91.8*	*76-114*			
Surrogate: Toluene-d8	*52.2*		"	*50.0*		*104*	*88-110*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	**Reported:** 07/26/01 06:59

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070064 - EPA 5030B [P/T]										
LCS (1070064-BS2)				Prepared & Analyzed: 07/16/01						
Methyl tert-butyl ether	48.6	2.0	ug/l	50.0		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*39.7*		"	*50.0*		*79.4*	*76-114*			
Surrogate: Toluene-d8	*49.6*		"	*50.0*		*99.2*	*88-110*			
Matrix Spike (1070064-MS1)	**Source: L107074-03**			Prepared & Analyzed: 07/13/01						
Methyl tert-butyl ether	39.0	2.0	ug/l	50.0	ND	78.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	*42.8*		"	*50.0*		*85.6*	*76-114*			
Surrogate: Toluene-d8	*51.1*		"	*50.0*		*102*	*88-110*			
Matrix Spike Dup (1070064-MSD1)	**Source: L107074-03**			Prepared & Analyzed: 07/13/01						
Methyl tert-butyl ether	46.6	2.0	ug/l	50.0	ND	93.2	60-140	17.8	25	
Surrogate: 1,2-Dichloroethane-d4	*42.1*		"	*50.0*		*84.2*	*76-114*			
Surrogate: Toluene-d8	*51.2*		"	*50.0*		*102*	*88-110*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	**Reported:** 07/26/01 06:59

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G18016 - EPA 3510B										
Blank (1G18016-BLK1)				Prepared: 07/18/01 Analyzed: 07/20/01						
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*76.3*		"	*100*		*76.3*	*50-150*			
LCS (1G18016-BS1)				Prepared: 07/18/01 Analyzed: 07/20/01						
Diesel Range Hydrocarbons	769	50	ug/l	1000		76.9	60-140			
Surrogate: n-Pentacosane	*84.9*		"	*100*		*84.9*	*50-150*			
LCS Dup (1G18016-BSD1)				Prepared: 07/18/01 Analyzed: 07/20/01						
Diesel Range Hydrocarbons	814	50	ug/l	1000		81.4	60-140	5.69	50	
Surrogate: n-Pentacosane	*91.7*		"	*100*		*91.7*	*50-150*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Diesel Hydrocarbons (C9-C24) with Silica Gel Cleanup by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G24009 - EPA 3510B										
Blank (1G24009-BLK1)				Prepared: 07/24/01 Analyzed: 07/25/01						
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*80.2*		"	*100*		*80.2*	*40-140*			
LCS (1G24009-BS1)				Prepared & Analyzed: 07/24/01						
Diesel Range Hydrocarbons	664	50	ug/l	1000		66.4	40-140			
Surrogate: n-Pentacosane	*76.9*		"	*100*		*76.9*	*40-140*			
LCS Dup (1G24009-BSD1)				Prepared & Analyzed: 07/24/01						
Diesel Range Hydrocarbons	763	50	ug/l	1000		76.3	40-140	13.9	50	
Surrogate: n-Pentacosane	*89.4*		"	*100*		*89.4*	*40-140*			

Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Unocal SS#7176 Project Manager: Deanna Harding	Reported: 07/26/01 06:59

Notes and Definitions

D-15	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
D-23	Sample has undergone silica gel cleanup
H-06	The result reported was generated out of hold time. The sample was originally run within hold time, but needed to be re-analyzed.
P-02	Chromatogram Pattern: Weathered Gasoline C6-C12
S-09	The closing calibration surrogate recovery was outside acceptable limit of 15% by 3%. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference