GETTLER-RYAN INC.

TRANSMITTAL

April 17, 2000
G-R #: 180012

STID 1713 Response to 11/15/2000

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

CC: Mr. Doug Lee
Gettler-Ryan Inc.
Dublin, California

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

RE: Tosco (Unocal) SS #5484
18950 Lake Chabot Road
Castro Valley, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 14, 2000	Groundwater Monitoring and Sampling Report Annual 2000 - Event of March 7, 2000

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 ***April 29, 2000***, this report will be distributed to the following:

Enclosure

cc: **Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94501**

agency/5484dbd.qmt

GETTLER-RYAN INC.

April 14, 2000
G-R Job #180012

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

RE: Annual 2000 Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Dear Mr. De Witt:

This report documents the annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On March 7, 2000, field personnel monitored five wells (MW-2 and MW-4 through MW-7) and sampled three wells (MW-4, MW-5 and MW-7) at the above referenced site.

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. 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,

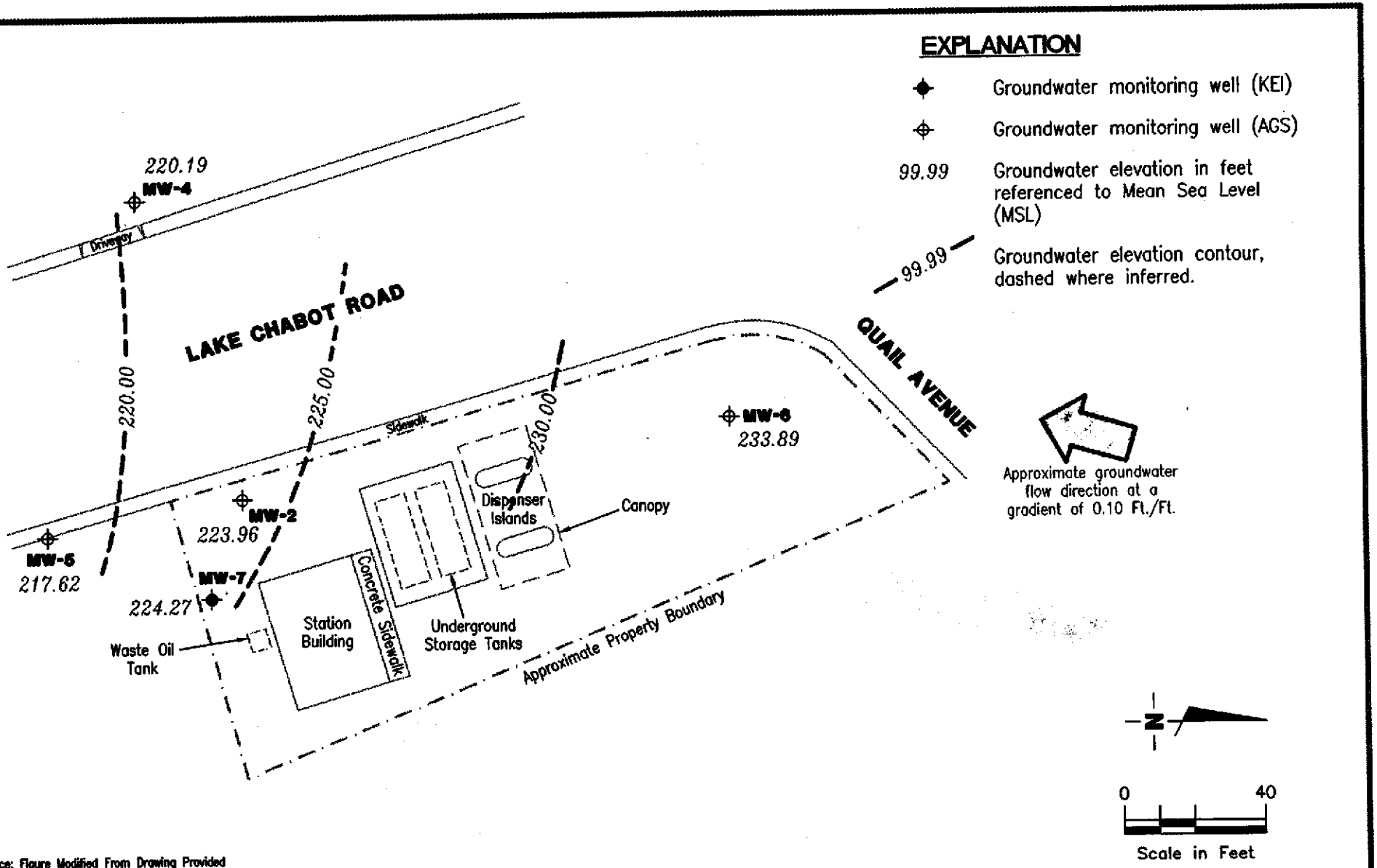
Deanna L. Harding
Project Coordinator

Barbara Sieminski
Barbara Sieminski
Project Geologist, R.G. No. 6676

REGISTERED GEOLOGIST
BARBARA SIEMINSKI
No. 6676
STATE OF CALIFORNIA

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

5484.qml



Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

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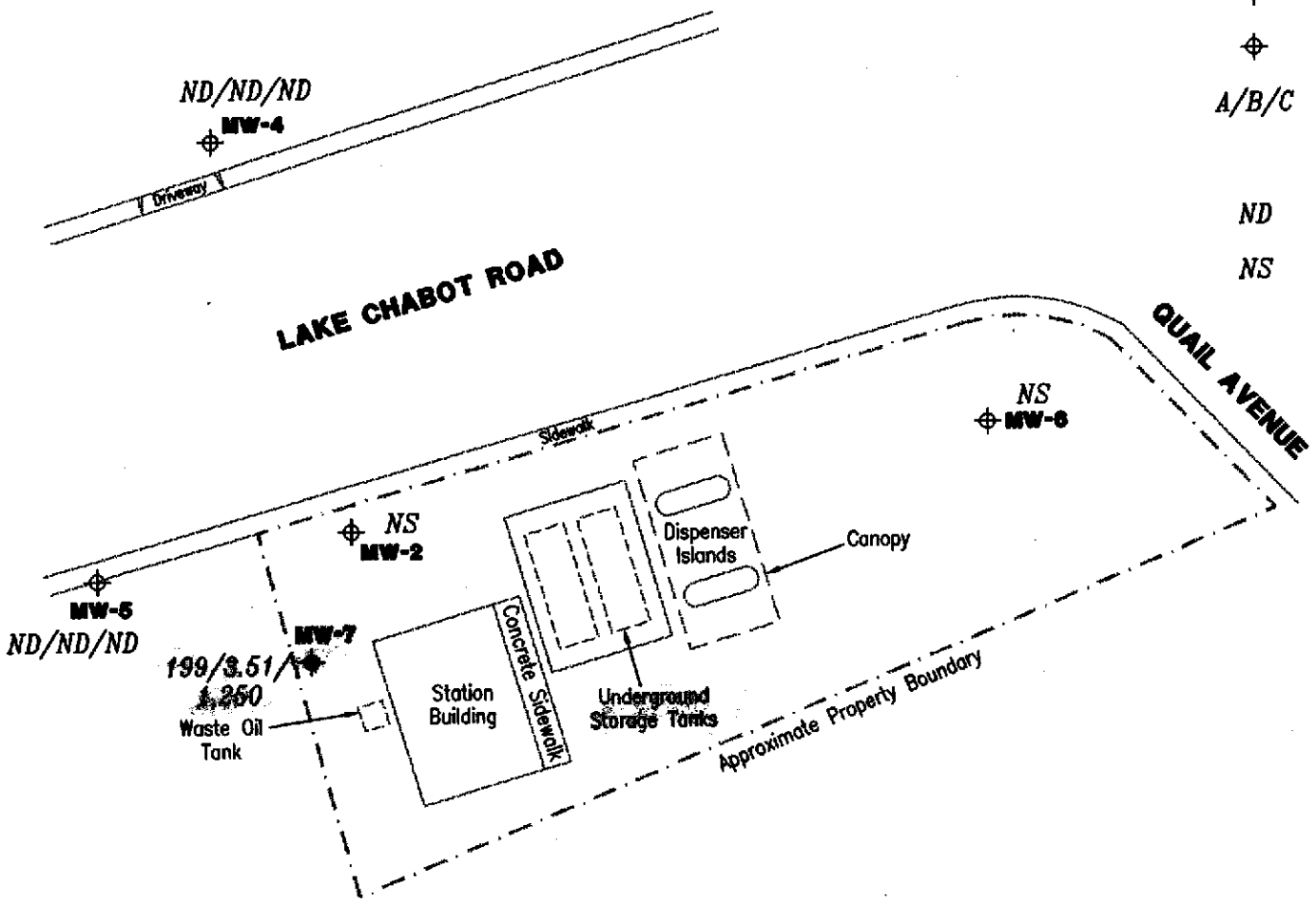
Dublin, CA 94568

POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 5484
18950 Lake Chabot Road
Castro Valley, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180012		March 7, 2000	



EXPLANATION

- Groundwater monitoring well (KEI)
- Groundwater monitoring well (AGS)
- *A/B/C* — TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- *ND* — Not Detected
- *NS* — Not Sampled

N

0 40

Scale in Feet

Source: Figure Modified From Drawing Provided By MPDS Services, Inc.

FIGURE 2

Gettler - Ryan Inc.
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Dublin, CA 94568

CONCENTRATION MAP
Tosco (Unocal) Service Station No. 5484
18950 Lake Chabot Road
Castro Valley, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180012		March 7, 2000	

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	--	ND	ND	ND	ND	ND	--
	12/19/91	--	--	--	140	0.66	ND	0.64	1.2	--
	03/20/92	--	--	--	120	ND	ND	ND	ND	--
	06/18/92	--	--	--	140[1]	ND	ND	ND	ND	--
	09/10/92	--	--	--	61[1]	ND	ND	ND	ND	110
	12/10/92	--	--	--	100[1]	ND	ND	ND	ND	170
229.47	03/10/93	4.69	224.78	--	110[1]	ND	ND	ND	ND	350
	06/09/93	5.85	223.62	--	120[1]	ND	ND	ND	ND	300
228.88	09/09/93	6.59	222.29	--	210[1]	ND	ND	ND	ND	--
	12/09/93	6.94	221.94	--	96[1]	ND	ND	ND	ND	--
	03/03/94	4.91	223.97	--	240[1]	ND	ND	ND	ND	--
	06/03/94	5.71	223.17	--	190[1]	ND	ND	ND	ND	--
	09/02/94	7.05	221.83	--	720	ND	ND	ND	4.6	--
	12/01/94	6.98	221.90	--	200	0.70	ND	0.58	ND	--
	03/01/95	4.60	224.28	--	ND	ND	ND	ND	ND	--
	06/01/95	4.65	224.23	--	420[1]	ND	ND	ND	ND	--
	09/05/95	5.66	223.22	--	ND	ND	0.80	ND	0.74	--[5]
	12/05/95	6.32	222.56	--	ND	ND	ND	ND	ND	390
	04/11/96	4.22	224.66	NOT SAMPLED[6]		--	--	--	--	--
	03/13/97	6.58	222.30	--	--	--	--	--	--	--
	03/02/98	5.18	223.70	--	--	--	--	--	--	--
	03/25/99	4.84	224.04	--	--	--	--	--	--	--
	03/07/00	**4.92**	**223.96**	--	**--**	**--**	--	**--**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	12/19/91	--	--	--	ND	ND	ND	ND	ND	--
	03/20/92	--	--	--	--	--	--	--	--	--
	06/18/92	--	--	--	ND	0.41	0.84	ND	0.55	--
	09/10/92	--	--	--	--	--	--	--	--	--
	12/10/92	--	--	--	ND	ND	ND	ND	ND	--
228.08	03/10/93	7.24	220.84	--	ND	ND	ND	ND	ND	--
	06/09/93	8.79	219.29	--	ND	ND	ND	ND	ND	--
227.77	09/09/93	9.91	217.86	--	ND	ND	ND	ND	ND	--
	12/09/93	INACCESSIBLE		--	--	--	--	--	--	--
	03/03/94	6.98	220.79	--	ND	ND	ND	ND	ND	--
	06/03/94	8.26	219.51	--	ND	ND	ND	ND	ND	--
	09/02/94	10.08	217.69	--	ND	ND	ND	ND	ND	--
	12/01/94	10.01	217.76	--	ND	ND	ND	ND	ND	--
	03/01/95	7.29	220.48	--	ND	ND	1.1	ND	0.75	--
	06/01/95	7.65	220.12	--	ND	ND	0.78	ND	1.7	--
	09/05/95	9.27	218.50	--	ND	ND	0.70	ND	0.71	--
	12/05/95	9.92	217.85	--	ND	ND	ND	ND	ND	0.68
	04/11/96	7.55	220.22	--	ND	ND	ND	ND	ND	ND
	03/13/97	9.84	217.93	--	ND	ND	ND	ND	ND	ND
	03/02/98	8.84	218.93	--	ND	ND	ND	ND	ND	ND
	03/25/99	7.46	220.31	--	ND	ND	ND	ND	ND	7.6
	03/07/00	**7.58**	**220.19**	**--**	**ND**	**ND**	**1.11**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5484

18950 Lake Chabot Road

Castro Valley, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	450	ND	ND	ND	ND	ND	--
	10/10/91	--	--	ND	--	--	--	--	--	--
	12/19/91	--	--	--	ND	ND	ND	ND	ND	--
	03/20/92	--	--	170	ND	ND	ND	ND	ND	--
	06/18/92	--	--	ND	ND	ND	ND	ND	ND	--
	09/10/92	--	--	110[2]	ND	ND	ND	ND	ND	--
	12/10/92	--	--	83[3]	ND	ND	ND	ND	ND	--
225.42	03/10/93	7.67	217.75	69[2]	ND	ND	ND	ND	ND	--
	06/09/93	8.57	216.85	64	ND	ND	ND	ND	ND	--
225.11	09/09/93	9.12	215.99	58[3]	ND	ND	ND	ND	ND	--
	12/09/93	9.97	215.14	87[3]	ND	ND	ND	ND	ND	--
	03/03/94	7.87	217.24	ND	ND	ND	ND	0.71	1.7	ND
	06/03/94	9.01	216.10	80[3]	ND	ND	ND	ND	ND	--
	09/02/94	9.23	215.88	130[2]	ND	ND	ND	ND	ND	--
	12/01/94	9.18	215.93	79[2]	ND	ND	ND	ND	ND	--
	03/01/95	7.98	217.13	ND	ND	ND	ND	ND	ND	--
	06/01/95	8.21	216.90	57[2]	ND	ND	ND	ND	ND	--
	09/05/95	9.57	215.54	210[2]	ND	ND	0.95	ND	0.87	--[5]
	12/05/95	9.60	215.51	170[2]	ND	ND	ND	ND	ND	27
	04/11/96	7.48	217.63	--	ND	ND	ND	ND	ND	56
	03/13/97	9.56	215.55	--	ND	ND	ND	ND	ND	ND
	03/02/98	8.96	216.15	--	ND	ND	ND	ND	ND	ND
	03/25/99	7.53	217.58	--	ND	ND	ND	ND	ND	3.9
	03/07/00	**7.49**	**217.62**	**--**	**ND**	**ND**	**1.13**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5484

18950 Lake Chabot Road

Castro Valley, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	05/23/91	--	--	--	ND	ND	ND	ND	ND	--
	09/20/91	--	--	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	12/19/91	--	--	--	ND	ND	ND	ND	ND	--
	06/18/92	--	--	--	ND	ND	ND	ND	ND	--
	12/10/92	--	--	--	ND	ND	ND	ND	ND	--
239.38	03/10/93	5.32	234.06	--	--	--	--	--	--	--
	06/09/93	5.94	233.44	--	ND	ND	ND	ND	ND	--
239.04	09/09/93	6.82	232.22	--	--	--	--	--	--	--
	12/09/93	7.43	231.61	--	150	ND	ND	ND	1.7	--
	03/03/94	6.45	232.59	--	--	--	--	--	--	--
	06/03/94	5.81	233.23	--	ND	ND	ND	ND	ND	--
	09/02/94	6.98	232.06	--	--	--	--	--	--	--
	12/01/94	6.92	232.12	--	ND	ND	ND	ND	ND	--
	03/01/95	5.17	233.87	--	--	--	--	--	--	--
	06/01/95	4.76	234.28	--	ND	ND	0.70	ND	1.7	--
	09/05/95	5.69	233.35	--	--	--	--	--	--	--
	12/05/95	6.75	232.29	--	ND	ND	ND	ND	ND	1.4
	04/11/96	4.28	234.76	NOT SAMPLED[6]		--	--	--	--	--
	03/13/97	7.05	231.99	--	--	--	--	--	--	--
	03/02/98	5.14	233.90	--	--	--	--	--	--	--
	03/25/99	5.05	233.99	--	--	--	--	--	--	--
	03/07/00	**5.15**	**233.89**	**--**	**--**	**--**	**--**	**--**	--	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5484

18950 Lake Chabot Road

Castro Valley, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	05/23/91	--	--	540	3,000	160	1.2	25	120	--
	09/20/91	--	--	580	1,400	160	0.75	89	130	--
	12/19/91	--	--	770	3,900	240	2.4	280	270	--
	03/20/92	--	--	3,200	11,000	980	ND	990	1,600	--
	06/18/92	--	--	990[2]	5,500	340	4.2	380	410	--
	09/10/92	--	--	290[2]	2,100	160	1.9	140	150	--
	12/10/92	--	--	200[3]	1,200	28	ND	37	13	--
231.66	03/10/93	7.69	223.97	1,100[2]	4,400	310	ND	300	330	--
	06/09/93	8.59	223.07	830[3]	4,600	430	ND	510	430	--
231.39	09/09/93	10.11	221.28	550[3]	2,600[4]	160	19	250	120	--
	12/09/93	10.65	220.74	250[2]	980	54	4.6	71	5.6	--
	03/03/94	8.17	223.22	1,400[2]	9,300	290	ND	590	400	1.7
	06/03/94	8.73	222.66	2,000[2]	9,400	380	5.0	820	240	--
	09/02/94	11.00	220.39	490[2]	3,800	77	ND	180	42	--
	12/01/94	10.95	220.44	260[2]	3,100	80	ND	250	190	--
	03/01/95	8.03	223.36	1,900[3]	3,300	200	3.9	300	350	--
	06/01/95	7.92	223.47	1,600[2]	3,900	170	ND	400	430	--
	09/05/95	8.61	222.78	ND	710	32	ND	85	33	--[5]
	12/05/95	9.69	221.70	110[2]	400	23	ND	34	16	1,600
	12/08/95	9.59	221.80	--	--	--	--	--	--	--
	04/11/96	7.31	224.08	--	1,500	52	ND	160	130	1,500
	03/13/97	9.48	221.91	--	460	13	ND	31	4.0	430
	03/02/98	7.93	223.46	--	1,800	63	ND[7]	240	60	790
	03/25/99	7.25	224.14	--	380	6.4	ND[7]	10	4.9	1,200
	03/07/00	**7.12**	**224.27**	**--**	**199[8]**	**3.51**	**ND**	**3.30**	**0.697**	**1,250**
Trip Blank										
TB-LB	03/02/98	--	--	--	ND	ND	ND	ND	ND	ND
	03/25/99	--	--	--	ND	ND	ND	ND	ND	ND
	03/07/00	--	**--**	**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station 5484
18950 Lake Chabot Road
Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 2, 1998, were provided by MPDS Services, Inc.

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
msl = Relative to 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

* TOC elevations are relative to Mean Sea Level (msl), per the Alameda County Benchmark (Elevation = 219.68 feet msl). Prior to September 9, 1993, DTW measurements were taken from the top of well covers.

1 Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
2 Laboratory report indicates that the hydrocarbons detected did not appear to be diesel.
3 Laboratory report indicates that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
4 Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
5 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
6 Sampling discontinued per Alameda County Health Care Services letter dated April 1, 1996.
7 Detection limit raised. Refer to analytical reports.
8 Laboratory report indicates weathered gasoline C6-C12.

Table 2

Groundwater Analytical Results

Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Well ID	Date	TOG (ppm)	Bis (2-ethylhexyl) phthalate (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	1,2-Dichloroethane (ppb)	Chloroform (ppb)	Bromodich-loromethane (ppb)
MW-4	04/11/96	--	ND	ND	ND	ND	--	--
	03/13/97	--	ND	ND	ND	ND	--	--
	03/02/98[6]	--	--	--	--	ND	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	**--**	**ND[7]**	**ND[7]**	**ND[7]**	**ND[7]**	**87.1**	**ND[7]**
MW-5	03/10/93	--	ND	ND	ND	ND	--	--
	06/09/93	--	--	--	--	ND	--	--
	09/09/93	--	--	--	--	ND	--	--
	12/09/93	--	--	--	--	ND	--	--
	03/03/94	--	--	--	--	ND	--	--
	06/03/94	--	--	--	--	ND	--	--
	09/02/94	--	--	--	--	ND	--	--
	12/01/94	--	--	--	--	ND	--	--
	03/01/95	--	--	--	--	ND	--	--
	06/01/95	--	--	--	--	ND	--	--
	09/05/95	--	--	--	--	ND	--	--
	12/05/95	--	--	--	--	ND	--	--
	04/11/96	--	ND	ND	ND	ND	--	--
	03/13/97	--	740	ND	ND	ND	--	--
	03/02/98[6]	--	--	--	--	ND	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	**--**	**ND[7]**	**ND[7]**	**ND[7]**	**ND[7]**	**69.7**	**7.16**
MW-7	05/23/91	ND	--	--	--	3.4	--	--
	09/20/91	ND	--	--	--	ND	--	--
	12/19/91	ND	--	--	--	3.1	--	--
	03/20/92	ND	--	--	--	ND	--	--
	06/18/92	ND	--	--	--	ND	--	--
	09/10/92	--	--	--	--	2.3	--	--
	12/10/92	--	--	--	--	2.0	--	--
	03/10/93[1]	--	13	19	83	1.3	--	--
	06/09/93[2]	--	13	19	83	1.3	--	--
	09/09/93[3]	--	ND	11	48	1.5	--	--
	12/09/93	--	ND	ND	15	1.5	--	--
	03/03/94	--	ND	34	130	1.7	--	--
	06/03/94	--	ND	18	61	1.4	--	--
	09/02/94	--	ND	ND	ND	1.1	--	--
	12/01/94	--	ND	ND	2.5	1.0	--	--
	03/01/95[4]	--	ND	40	120	1.6	--	--
	06/01/95	--	ND	13	83	1.4	--	--
	09/05/95	--	ND	ND	7.0	1.8	--	--

Table 2

Groundwater Analytical Results

Tosco (Unocal) Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

Well ID	Date	TOG (ppm)	Bis (2-ethylhexyl) phthalate (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)	1,2-Dichloroethane (ppb)	Chloroform (ppb)	Bromodich-loromethane (ppb)
MW-7	12/05/95[5]	--	--	--	--	ND	--	--
(cont)	12/08/95	--	ND	ND	14	--	--	--
	04/11/96	--	ND	7.6	42	0.75	--	--
	03/13/97	--	120	ND	9.0	ND	--	--
	03/02/98[6]	--	--	--	--	0.92	--	--
	03/25/99	--	ND	ND	ND	ND	--	--
	03/07/00	--	**ND[7]**	**ND[7]**	**ND[7]**	**ND[7]**	**ND[7]**	**ND[7]**

EXPLANATIONS:

Groundwater analytical results prior to March 2, 1998, were provided by MPDS Services, Inc.

TOG = Total Oil and Grease
ppb = Parts per billion
ppm = Parts per million
ND = Not Detected
-- = Not Analyzed

1 Nine "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging from 10 ppb to 59 ppb. Refer to laboratory analysis sheets for the specific compounds and concentrations.

2 Ten "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging from 14 ppb to 150 ppb. Refer to laboratory analysis sheets for the specified compounds and concentrations.

3 Seven "tentatively identified compounds" were detected by the EPA Method 8270 open scan at concentrations ranging 11 ppb to 88 ppb. Refer to laboratory analysis sheets for the specific compounds and concentrations.

4 Phenol was detected at a concentration of 2.1 ppb.

5 Tetrachloroethene was detected at a concentration of 56 ppb.

6 EPA Method 8270 requested on chain of custody; laboratory inadvertently omitted testing.

7 Detection limit raised. Refer to analytical reports.

Note: All EPA Method 8010 and 8270 compounds were ND, except as listed above.

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 a MMC flexi-dip 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.

FIELD DATA SHEET

Client/
Facility #5484 Job#: 180012

Address: 18950 Lake Chabot Rd. Date: 3-7-00

City: Castro Valley Sampler: JOC

Well ID MW-2 Well Condition: O.K

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

Total Depth 19.15 ft.

Depth to Water 4.92 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- ~~Suction~~
- Grundfos
- Other: _____

Sampling Equipment:
- (Disposable Bailer)
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: _____ Weather Conditions: cloudy

Sampling Time: _____ Water Color: clear Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: none

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (1W) µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 VOA	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe
	2 VOA	"	"	"	8010
	1 Amber	"	—	"	8270

COMMENTS: M. only

FIELD DATA SHEET

Client/
Facility #5484 Job#: 180012
Address: 18950 Lake Chabot Rd. Date: 3-7-00
City: Castro Valley Sampler: Joe

Well ID: MW-4 Well Condition: O.K
Well Diameter: 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth: 27.25 ft.
Depth to Water: 7.58 ft.

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

19.67 X VF 0.66 = 12.99 X 3 (case volume) = Estimated Purge Volume: 39 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; ~~Suction~~; Grundfos; Other: _____
Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 7:00 Weather Conditions: cloudy
Sampling Time: 7:30 A.m Water Color: clear Odor: none
Purging Flow Rate: 3 gpm. Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:12	12	7.80	8.56	69.2			
7:15	25	7.41	9.14	69.1			
7:18	34	7.37	9.19	69.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe
	2 VOA	"	"	"	8010
	1 Amber	"	—	"	8270

COMMENTS: _____

FIELD DATA SHEET

Client/
Facility #5484 Job#: 180012
Address: 18950 Lake Chabot Rd. Date: 3-7-00
City: Castro Valley Sampler: Joe

Well ID: MW-5 Well Condition: O.K
Well Diameter: 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth: 23.80 ft.
Depth to Water: 7.49 ft.

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

16.31 x VF 0.66 = 10.76 x 3 (case volume) = Estimated Purge Volume: 33 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; ~~Suction~~; Grundfos; Other: _____

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

Starting Time: 7:45 Weather Conditions: cloudy
Sampling Time: 8:10 A.m Water Color: Clear Odor: none
Purging Flow Rate: 3 gpm. Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm) (W)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:55	11	7.57	9.68	70.1			
7:57	22	7.52	10.02	70.2			
8:00	33	7.47	10.07	70.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 voA	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe
	2 voA	"	"	"	8010
	1 Amber	"	—	"	8270

COMMENTS: _____

3/97-fieldsht.frm

FIELD DATA SHEET

Client/
Facility # 5484 Job#: 180012

Address: 18950 Lake Chabot Rd. Date: 3-7-00

City: Castro Valley Sampler: Joe

Well ID: MW-6 Well Condition: O.K

Well Diameter: 4 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth: 26.42 ft.

Depth to Water: 5.15 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, ~~Suction~~, Grundfos, Other: _____

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

Starting Time: _____ Weather Conditions: cloudy

Sampling Time: _____ Water Color: clear Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: none

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (W) µmhos/cm (V)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 vo A	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe
	2 vo A	"	"	"	8010
	1 Amber	"	—	"	8270

COMMENTS: M. only

FIELD DATA SHEET

Client/
Facility #5484 Job#: 180012
Address: 18950 Lake Chabot Rd. Date: 3-7-00
City: Castro Valley Sampler: JDC

Well ID MW-7 Well Condition: O.K

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

Total Depth 19.55 ft.

Depth to Water 7.12 ft.

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

12.43 x VF 0.17 = 2.11 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: 8:20 Weather Conditions: cloudy
Sampling Time: 8:42A Water Color: clear Odor: faint
Purging Flow Rate: 1 gpm. Sediment Description: none
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
8:27	2	7.25	5.16	73.0			
8:29	4	7.31	5.19	72.2			
8:32	6.5	7.24	5.23	71.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 voA	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe
	2 voA	"	"	"	8010
	1 Amber	"	—	"	8270

COMMENTS: _____

Chain-of-Custody-Record

TOSCO

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

Facility Number #5484 (WW3016)
Facility Address 18950 Lake Chabot Rd. Castro Valley
Consultant Project Number 180012
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)
Laboratory Name Sequoia Analytical
Laboratory Release Number
Samples Collected by (Name) JOE AJEMIAN
Collection Date 3-7-00
Signature

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)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015) (8020)	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 (ICAP or AA)						DO NOT BILL TB-LB ANALYSIS Remarks
TB-LB		VOA	W	G	—	HCl	Y	✓													
MW-4		5 VOA 1 AMB	/	/	7:30	/	/	✓			✓			✓							
MW-5		"	/	/	8:10	/	/	✓			✓			✓							
MW-7		"	/	/	8:42	/	/	✓			✓			✓							

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	3-7-00 1:30 p.m.			3/7/00 1330
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

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

March 28, 2000

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite D
Dublin, CA 94568

RE: Tosco/L003076

Dear Deanna Harding:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 7, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical
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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

ANALYTICAL REPORT FOR L003076

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L003076-01	Water	3/7/00
MW-4	L003076-02	Water	3/7/00
MW-5	L003076-03	Water	3/7/00
MW-7	L003076-04	Water	3/7/00

Sequoia Analytical

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **TB-LB**
Laboratory Sample Number: **L003076-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030085	3/18/00	3/18/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*109*	*%*	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-4**
Laboratory Sample Number: **L003076-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030085	3/18/00	3/18/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	**1.11**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*94.4*	*%*	
Volatile Organic Compounds by EPA Method 8010B								
Freon 113	0030056	3/15/00	3/16/00		3.33	ND	ug/l	
Bromodichloromethane	"	"	"		1.67	ND	"	
Bromoform	"	"	"		1.67	ND	"	
Bromomethane	"	"	"		3.33	ND	"	
Carbon tetrachloride	"	"	"		1.67	ND	"	
Chlorobenzene	"	"	"		1.67	ND	"	
Chloroethane	"	"	"		3.33	ND	"	
2-Chloroethylvinyl ether	"	"	"		3.33	ND	"	
Chloroform	"	"	"		1.67	**87.1**	"	
Chloromethane	"	"	"		3.33	ND	"	
Dibromochloromethane	"	"	"		1.67	ND	"	
1,3-Dichlorobenzene	"	"	"		1.67	ND	"	
1,4-Dichlorobenzene	"	"	"		1.67	ND	"	
1,2-Dichlorobenzene	"	"	"		1.67	ND	"	
1,1-Dichloroethane	"	"	"		1.67	ND	"	
1,2-Dichloroethane	"	"	"		1.67	ND	"	
1,1-Dichloroethene	"	"	"		1.67	ND	"	
cis-1,2-Dichloroethene	"	"	"		1.67	ND	"	
trans-1,2-Dichloroethene	"	"	"		1.67	ND	"	
1,2-Dichloropropane	"	"	"		1.67	ND	"	
cis-1,3-Dichloropropene	"	"	"		1.67	ND	"	
trans-1,3-Dichloropropene	"	"	"		1.67	ND	"	
Methylene chloride	"	"	"		16.7	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		1.67	ND	"	
Tetrachloroethene	"	"	"		1.67	ND	"	
1,1,1-Trichloroethane	"	"	"		1.67	ND	"	
1,1,2-Trichloroethane	"	"	"		1.67	ND	"	
Trichloroethene	"	"	"		1.67	ND	"	
Trichlorofluoromethane	"	"	"		1.67	ND	"	
Vinyl chloride	"	"	"		1.67	ND	"	
Surrogate: 1-Chloro-2-fluorobenzene	"	"	"	*70.0-130*		*124*	*%*	

Sequoia Analytical

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-4**
Laboratory Sample Number: **L003076-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C								
Acenaphthene	0030327	3/14/00	3/21/00		13.3	ND	ug/l	
Acenaphthylene	"	"	"		13.3	ND	"	
Anthracene	"	"	"		13.3	ND	"	
Benzidine	"	"	"		66.5	ND	"	
Benzoic acid	"	"	"		66.5	ND	"	
Benzo (a) anthracene	"	"	"		13.3	ND	"	
Benzo (b+k) fluoranthene (total)	"	"	"		13.3	ND	"	
Benzo (g,h,i) perylene	"	"	"		13.3	ND	"	
Benzo (a) pyrene	"	"	"		13.3	ND	"	
Benzyl alcohol	"	"	"		26.6	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		13.3	ND	"	
Bis(2-chloroethyl)ether	"	"	"		13.3	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		13.3	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		13.3	ND	"	
4-Bromophenyl phenyl ether	"	"	"		13.3	ND	"	
Butyl benzyl phthalate	"	"	"		13.3	ND	"	
4-Chloroaniline	"	"	"		26.6	ND	"	
4-Chloro-3-methylphenol	"	"	"		26.6	ND	"	
2-Chloronaphthalene	"	"	"		13.3	ND	"	
2-Chlorophenol	"	"	"		13.3	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		13.3	ND	"	
Chrysene	"	"	"		13.3	ND	"	
Dibenz (a,h) anthracene	"	"	"		13.3	ND	"	
Dibenzofuran	"	"	"		13.3	ND	"	
Di-n-butyl phthalate	"	"	"		13.3	ND	"	
1,2-Dichlorobenzene	"	"	"		13.3	ND	"	
1,3-Dichlorobenzene	"	"	"		13.3	ND	"	
1,4-Dichlorobenzene	"	"	"		13.3	ND	"	
3,3'-Dichlorobenzidine	"	"	"		26.6	ND	"	
2,4-Dichlorophenol	"	"	"		13.3	ND	"	
Diethyl phthalate	"	"	"		13.3	ND	"	
2,4-Dimethylphenol	"	"	"		13.3	ND	"	
Dimethyl phthalate	"	"	"		13.3	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		66.5	ND	"	
2,4-Dinitrophenol	"	"	"		66.5	ND	"	
2,4-Dinitrotoluene	"	"	"		13.3	ND	"	
2,6-Dinitrotoluene	"	"	"		13.3	ND	"	
Di-n-octyl phthalate	"	"	"		13.3	ND	"	
1,2-Diphenylhydrazine	"	"	"		26.6	ND	"	
Fluoranthene	"	"	"		13.3	ND	"	
Fluorene	"	"	"		13.3	ND	"	

Sequoia Analytical

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-4**
Laboratory Sample Number: **L003076-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C (continued)								
Hexachlorobenzene	0030327	3/14/00	3/21/00		13.3	ND	ug/l	
Hexachlorobutadiene	"	"	"		13.3	ND	"	
Hexachlorocyclopentadiene	"	"	"		13.3	ND	"	
Hexachloroethane	"	"	"		13.3	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		13.3	ND	"	
Isophorone	"	"	"		13.3	ND	"	
2-Methylnaphthalene	"	"	"		13.3	ND	"	
2-Methylphenol	"	"	"		13.3	ND	"	
4-Methylphenol	"	"	"		13.3	ND	"	
Naphthalene	"	"	"		13.3	ND	"	
2-Nitroaniline	"	"	"		66.5	ND	"	
3-Nitroaniline	"	"	"		66.5	ND	"	
4-Nitroaniline	"	"	"		66.5	ND	"	
Nitrobenzene	"	"	"		13.3	ND	"	
2-Nitrophenol	"	"	"		13.3	ND	"	
4-Nitrophenol	"	"	"		66.5	ND	"	
N-Nitrosodimethylamine	"	"	"		26.6	ND	"	
N-Nitrosodiphenylamine	"	"	"		13.3	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		13.3	ND	"	
Pentachlorophenol	"	"	"		66.5	ND	"	
Phenanthrene	"	"	"		13.3	ND	"	
Phenol	"	"	"		13.3	ND	"	
Pyrene	"	"	"		13.3	ND	"	
Pyridine	"	"	"		13.3	ND	"	
1,2,4-Trichlorobenzene	"	"	"		13.3	ND	"	
2,4,5-Trichlorophenol	"	"	"		13.3	ND	"	
2,4,6-Trichlorophenol	"	"	"		13.3	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*21.0-100*		*50.5*	*%*	
Surrogate: Phenol-d6	"	"	"	*10.0-94.0*		*72.0*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*84.2*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*87.2*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*10.0-123*		*52.0*	"	
Surrogate: Terphenyl-d14	"	"	"	*34.0-141*		*100*	"	

Sequoia Analytical

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-5**
Laboratory Sample Number: **L003076-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030085	3/18/00	3/18/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	**1.13**	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*92.9*	%	
Volatile Organic Compounds by EPA Method 8010B								
Freon 113	0030076	3/16/00	3/16/00		4.00	ND	ug/l	
Bromodichloromethane	"	"	"		2.00	**7.16**	"	
Bromoform	"	"	"		2.00	ND	"	
Bromomethane	"	"	"		4.00	ND	"	
Carbon tetrachloride	"	"	"		2.00	ND	"	
Chlorobenzene	"	"	"		2.00	ND	"	
Chloroethane	"	"	"		4.00	ND	"	
2-Chloroethylvinyl ether	"	"	"		4.00	ND	"	
Chloroform	"	"	"		2.00	**69.7**	"	
Chloromethane	"	"	"		4.00	ND	"	
Dibromochloromethane	"	"	"		2.00	ND	"	
1,3-Dichlorobenzene	"	"	"		2.00	ND	"	
1,4-Dichlorobenzene	"	"	"		2.00	ND	"	
1,2-Dichlorobenzene	"	"	"		2.00	ND	"	
1,1-Dichloroethane	"	"	"		2.00	ND	"	
1,2-Dichloroethane	"	"	"		2.00	ND	"	
1,1-Dichloroethene	"	"	"		2.00	ND	"	
cis-1,2-Dichloroethene	"	"	"		2.00	ND	"	
trans-1,2-Dichloroethene	"	"	"		2.00	ND	"	
1,2-Dichloropropane	"	"	"		2.00	ND	"	
cis-1,3-Dichloropropene	"	"	"		2.00	ND	"	
trans-1,3-Dichloropropene	"	"	"		2.00	ND	"	
Methylene chloride	"	"	"		20.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		2.00	ND	"	
Tetrachloroethene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		2.00	ND	"	
1,1,2-Trichloroethane	"	"	"		2.00	ND	"	
Trichloroethene	"	"	"		2.00	ND	"	
Trichlorofluoromethane	"	"	"		2.00	ND	"	
Vinyl chloride	"	"	"		2.00	ND	"	
Surrogate: 1-Chloro-2-fluorobenzene	"	"	"	*70.0-130*		*110*	%	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-5**
Laboratory Sample Number: **L003076-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C								
Acenaphthene	0030327	3/14/00	3/21/00		13.8	ND	ug/l	
Acenaphthylene	"	"	"		13.8	ND	"	
Anthracene	"	"	"		13.8	ND	"	
Benzidine	"	"	"		69.0	ND	"	
Benzoic acid	"	"	"		69.0	ND	"	
Benzo (a) anthracene	"	"	"		13.8	ND	"	
Benzo (b+k) fluoranthene (total)	"	"	"		13.8	ND	"	
Benzo (g,h,i) perylene	"	"	"		13.8	ND	"	
Benzo (a) pyrene	"	"	"		13.8	ND	"	
Benzyl alcohol	"	"	"		27.6	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		13.8	ND	"	
Bis(2-chloroethyl)ether	"	"	"		13.8	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		13.8	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		13.8	ND	"	
4-Bromophenyl phenyl ether	"	"	"		13.8	ND	"	
Butyl benzyl phthalate	"	"	"		13.8	ND	"	
4-Chloroaniline	"	"	"		27.6	ND	"	
4-Chloro-3-methylphenol	"	"	"		27.6	ND	"	
2-Chloronaphthalene	"	"	"		13.8	ND	"	
2-Chlorophenol	"	"	"		13.8	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		13.8	ND	"	
Chrysene	"	"	"		13.8	ND	"	
Dibenz (a,h) anthracene	"	"	"		13.8	ND	"	
Dibenzofuran	"	"	"		13.8	ND	"	
Di-n-butyl phthalate	"	"	"		13.8	ND	"	
1,2-Dichlorobenzene	"	"	"		13.8	ND	"	
1,3-Dichlorobenzene	"	"	"		13.8	ND	"	
1,4-Dichlorobenzene	"	"	"		13.8	ND	"	
3,3'-Dichlorobenzidine	"	"	"		27.6	ND	"	
2,4-Dichlorophenol	"	"	"		13.8	ND	"	
Diethyl phthalate	"	"	"		13.8	ND	"	
2,4-Dimethylphenol	"	"	"		13.8	ND	"	
Dimethyl phthalate	"	"	"		13.8	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		69.0	ND	"	
2,4-Dinitrophenol	"	"	"		69.0	ND	"	
2,4-Dinitrotoluene	"	"	"		13.8	ND	"	
2,6-Dinitrotoluene	"	"	"		13.8	ND	"	
Di-n-octyl phthalate	"	"	"		13.8	ND	"	
1,2-Diphenylhydrazine	"	"	"		27.6	ND	"	
Fluoranthene	"	"	"		13.8	ND	"	
Fluorene	"	"	"		13.8	ND	"	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-5**
Laboratory Sample Number: **L003076-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C (continued)								
Hexachlorobenzene	0030327	3/14/00	3/21/00		13.8	ND	ug/l	
Hexachlorobutadiene	"	"	"		13.8	ND	"	
Hexachlorocyclopentadiene	"	"	"		13.8	ND	"	
Hexachloroethane	"	"	"		13.8	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		13.8	ND	"	
Isophorone	"	"	"		13.8	ND	"	
2-Methylnaphthalene	"	"	"		13.8	ND	"	
2-Methylphenol	"	"	"		13.8	ND	"	
4-Methylphenol	"	"	"		13.8	ND	"	
Naphthalene	"	"	"		13.8	ND	"	
2-Nitroaniline	"	"	"		69.0	ND	"	
3-Nitroaniline	"	"	"		69.0	ND	"	
4-Nitroaniline	"	"	"		69.0	ND	"	
Nitrobenzene	"	"	"		13.8	ND	"	
2-Nitrophenol	"	"	"		13.8	ND	"	
4-Nitrophenol	"	"	"		69.0	ND	"	
N-Nitrosodimethylamine	"	"	"		27.6	ND	"	
N-Nitrosodiphenylamine	"	"	"		13.8	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		13.8	ND	"	
Pentachlorophenol	"	"	"		69.0	ND	"	
Phenanthrene	"	"	"		13.8	ND	"	
Phenol	"	"	"		13.8	ND	"	
Pyrene	"	"	"		13.8	ND	"	
Pyridine	"	"	"		13.8	ND	"	
1,2,4-Trichlorobenzene	"	"	"		13.8	ND	"	
2,4,5-Trichlorophenol	"	"	"		13.8	ND	"	
2,4,6-Trichlorophenol	"	"	"		13.8	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*21.0-100*		*60.5*	%	
Surrogate: Phenol-d6	"	"	"	*10.0-94.0*		*68.5*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*71.4*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*72.1*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*10.0-123*		*91.0*	"	
Surrogate: Terphenyl-d14	"	"	"	*34.0-141*		*99.2*	"	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-7**
Laboratory Sample Number: **L003076-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030085	3/18/00	3/18/00		50.0	**199**	ug/l	1
Benzene	"	"	"		0.500	**3.51**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**3.30**	"	
Xylenes (total)	"	"	"		0.500	**0.697**	"	
Methyl tert-butyl ether	"	"	"		50.0	**1250**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*102*	%	
Volatile Organic Compounds by EPA Method 8010B								
Freon 113	0030076	3/16/00	3/16/00		5.00	ND	ug/l	
Bromodichloromethane	"	"	"		2.50	ND	"	
Bromoform	"	"	"		2.50	ND	"	
Bromomethane	"	"	"		5.00	ND	"	
Carbon tetrachloride	"	"	"		2.50	ND	"	
Chlorobenzene	"	"	"		2.50	ND	"	
Chloroethane	"	"	"		5.00	ND	"	
2-Chloroethylvinyl ether	"	"	"		5.00	ND	"	
Chloroform	"	"	"		2.50	ND	"	
Chloromethane	"	"	"		5.00	ND	"	
Dibromochloromethane	"	"	"		2.50	ND	"	
1,3-Dichlorobenzene	"	"	"		2.50	ND	"	
1,4-Dichlorobenzene	"	"	"		2.50	ND	"	
1,2-Dichlorobenzene	"	"	"		2.50	ND	"	
1,1-Dichloroethane	"	"	"		2.50	ND	"	
1,2-Dichloroethane	"	"	"		2.50	ND	"	
1,1-Dichloroethene	"	"	"		2.50	ND	"	
cis-1,2-Dichloroethene	"	"	"		2.50	ND	"	
trans-1,2-Dichloroethene	"	"	"		2.50	ND	"	
1,2-Dichloropropane	"	"	"		2.50	ND	"	
cis-1,3-Dichloropropene	"	"	"		2.50	ND	"	
trans-1,3-Dichloropropene	"	"	"		2.50	ND	"	
Methylene chloride	"	"	"		25.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		2.50	ND	"	
Tetrachloroethene	"	"	"		2.50	ND	"	
1,1,1-Trichloroethane	"	"	"		2.50	ND	"	
1,1,2-Trichloroethane	"	"	"		2.50	ND	"	
Trichloroethene	"	"	"		2.50	ND	"	
Trichlorofluoromethane	"	"	"		2.50	ND	"	
Vinyl chloride	"	"	"		2.50	ND	"	
Surrogate: 1-Chloro-2-fluorobenzene	"	"	"	*70.0-130*		*116*	%	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-7**
Laboratory Sample Number: **L003076-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C								
Acenaphthene	0030327	3/14/00	3/21/00		11.8	ND	ug/l	
Acenaphthylene	"	"	"		11.8	ND	"	
Anthracene	"	"	"		11.8	ND	"	
Benzidine	"	"	"		58.8	ND	"	
Benzoic acid	"	"	"		58.8	ND	"	
Benzo (a) anthracene	"	"	"		11.8	ND	"	
Benzo (b+k) fluoranthene (total)	"	"	"		11.8	ND	"	
Benzo (g,h,i) perylene	"	"	"		11.8	ND	"	
Benzo (a) pyrene	"	"	"		11.8	ND	"	
Benzyl alcohol	"	"	"		23.5	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		11.8	ND	"	
Bis(2-chloroethyl)ether	"	"	"		11.8	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		11.8	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		11.8	ND	"	
4-Bromophenyl phenyl ether	"	"	"		11.8	ND	"	
Butyl benzyl phthalate	"	"	"		11.8	ND	"	
4-Chloroaniline	"	"	"		23.5	ND	"	
4-Chloro-3-methylphenol	"	"	"		23.5	ND	"	
2-Chloronaphthalene	"	"	"		11.8	ND	"	
2-Chlorophenol	"	"	"		11.8	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		11.8	ND	"	
Chrysene	"	"	"		11.8	ND	"	
Dibenz (a,h) anthracene	"	"	"		11.8	ND	"	
Dibenzofuran	"	"	"		11.8	ND	"	
Di-n-butyl phthalate	"	"	"		11.8	ND	"	
1,2-Dichlorobenzene	"	"	"		11.8	ND	"	
1,3-Dichlorobenzene	"	"	"		11.8	ND	"	
1,4-Dichlorobenzene	"	"	"		11.8	ND	"	
3,3'-Dichlorobenzidine	"	"	"		23.5	ND	"	
2,4-Dichlorophenol	"	"	"		11.8	ND	"	
Diethyl phthalate	"	"	"		11.8	ND	"	
2,4-Dimethylphenol	"	"	"		11.8	ND	"	
Dimethyl phthalate	"	"	"		11.8	ND	"	
4,6-Dinitro-2-methylphenol	"	"	"		58.8	ND	"	
2,4-Dinitrophenol	"	"	"		58.8	ND	"	
2,4-Dinitrotoluene	"	"	"		11.8	ND	"	
2,6-Dinitrotoluene	"	"	"		11.8	ND	"	
Di-n-octyl phthalate	"	"	"		11.8	ND	"	
1,2-Diphenylhydrazine	"	"	"		23.5	ND	"	
Fluoranthene	"	"	"		11.8	ND	"	
Fluorene	"	"	"		11.8	ND	"	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Sample Description: **MW-7**
Laboratory Sample Number: **L003076-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Semivolatile Organic Compounds by EPA Method 8270C (continued)								
Hexachlorobenzene	0030327	3/14/00	3/21/00		11.8	ND	ug/l	
Hexachlorobutadiene	"	"	"		11.8	ND	"	
Hexachlorocyclopentadiene	"	"	"		11.8	ND	"	
Hexachloroethane	"	"	"		11.8	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		11.8	ND	"	
Isophorone	"	"	"		11.8	ND	"	
2-Methylnaphthalene	"	"	"		11.8	ND	"	
2-Methylphenol	"	"	"		11.8	ND	"	
4-Methylphenol	"	"	"		11.8	ND	"	
Naphthalene	"	"	"		11.8	ND	"	
2-Nitroaniline	"	"	"		58.8	ND	"	
3-Nitroaniline	"	"	"		58.8	ND	"	
4-Nitroaniline	"	"	"		58.8	ND	"	
Nitrobenzene	"	"	"		11.8	ND	"	
2-Nitrophenol	"	"	"		11.8	ND	"	
4-Nitrophenol	"	"	"		58.8	ND	"	
N-Nitrosodimethylamine	"	"	"		23.5	ND	"	
N-Nitrosodiphenylamine	"	"	"		11.8	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		11.8	ND	"	
Pentachlorophenol	"	"	"		58.8	ND	"	
Phenanthrene	"	"	"		11.8	ND	"	
Phenol	"	"	"		11.8	ND	"	
Pyrene	"	"	"		11.8	ND	"	
Pyridine	"	"	"		11.8	ND	"	
1,2,4-Trichlorobenzene	"	"	"		11.8	ND	"	
2,4,5-Trichlorophenol	"	"	"		11.8	ND	"	
2,4,6-Trichlorophenol	"	"	"		11.8	ND	"	
Surrogate: 2-Fluorophenol	"	"	"	*21.0-100*		*46.3*	*%*	
Surrogate: Phenol-d6	"	"	"	*10.0-94.0*		*60.8*	"	
Surrogate: Nitrobenzene-d5	"	"	"	*35.0-114*		*63.1*	"	
Surrogate: 2-Fluorobiphenyl	"	"	"	*43.0-116*		*72.1*	"	
Surrogate: 2,4,6-Tribromophenol	"	"	"	*10.0-123*		*91.5*	"	
Surrogate: Terphenyl-d14	"	"	"	*34.0-141*		*97.5*	"	

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0030085	**Date Prepared: 3/18/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0030085-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/18/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.2*	"	*70.0-130*	*112*			
Blank	**0030085-BLK2**									
Purgeable Hydrocarbons as Gasoline	3/19/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.36*	"	*70.0-130*	*93.6*			
LCS	**0030085-BS1**									
Benzene	3/18/00	10.0		11.3	ug/l	70.0-130	113			
Toluene	"	10.0		10.7	"	70.0-130	107			
Ethylbenzene	"	10.0		10.8	"	70.0-130	108			
Xylenes (total)	"	30.0		33.0	"	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.6*	"	*70.0-130*	*116*			
LCS	**0030085-BS2**									
Purgeable Hydrocarbons as Gasoline	3/18/00	250		227	ug/l	70.0-130	90.8			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*12.1*	"	*70.0-130*	*121*			
LCS	**0030085-BS3**									
Benzene	3/19/00	10.0		10.3	ug/l	70.0-130	103			
Toluene	"	10.0		9.54	"	70.0-130	95.4			
Ethylbenzene	"	10.0		9.57	"	70.0-130	95.7			
Xylenes (total)	"	30.0		29.2	"	70.0-130	97.3			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.9*	"	*70.0-130*	*109*			
LCS	**0030085-BS4**									
Purgeable Hydrocarbons as Gasoline	3/19/00	250		223	ug/l	70.0-130	89.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.8*	"	*70.0-130*	*108*			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike	**0030085-MS1**		**L003075-02**							
Purgeable Hydrocarbons as Gasoline	3/18/00	250	ND	238	ug/l	60.0-140	**95.2**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.76*	"	*70.0-130*	*97.6*			
Matrix Spike Dup	**0030085-MSD1**		**L003075-02**							
Purgeable Hydrocarbons as Gasoline	3/18/00	250	ND	201	ug/l	60.0-140	**80.4**	25.0	**16.9**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.10*	"	*70.0-130*	*91.0*			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0030056	**Date Prepared: 3/14/00**				**Extraction Method: EPA 5030B [P/T]**					
Blank	**0030056-BLK2**									
Freon 113	3/14/00			**ND**	ug/l	**1.00**				
Bromodichloromethane	"			**ND**	"	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				
2-Chloroethylvinyl ether	"			**ND**	"	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*9.58*	"	*70.0-130*	*95.8*			
Blank	**0030056-BLK3**									
Freon 113	3/15/00			**ND**	ug/l	**1.00**				
Bromodichloromethane	"			**ND**	"	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				

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Gettler-Ryan/Geostrategies	Project: Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number: TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 3/28/00

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0030056-BLK3**									
2-Chloroethylvinyl ether	3/15/00			**ND**	ug/l	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*12.2*	"	*70.0-130*	*122*			
LCS	**0030056-BS2**									
Chlorobenzene	3/14/00	10.0		7.82	ug/l	70.0-130	78.2			
1,1-Dichloroethene	"	10.0		8.27	"	65.0-135	82.7			
Trichloroethene	"	10.0		8.49	"	70.0-130	84.9			
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*9.74*	"	*70.0-130*	*97.4*			
LCS	**0030056-BS3**									
Chlorobenzene	3/16/00	10.0		10.9	ug/l	70.0-130	109			
1,1-Dichloroethene	"	10.0		10.8	"	65.0-135	108			
Trichloroethene	"	10.0		10.4	"	70.0-130	104			
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*12.0*	"	*70.0-130*	*120*			
Matrix Spike	**0030056-MS1**		**L003014-05**							
Chlorobenzene	3/14/00	10.0	ND	7.94	ug/l	60.0-140	**79.4**			
1,1-Dichloroethene	"	10.0	ND	8.10	"	60.0-140	**81.0**			
Trichloroethene	"	10.0	ND	7.59	"	60.0-140	**75.9**			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0030056-MS1**		**L003014-05**							
Surrogate: 1-Chloro-2-fluorobenzene	*3/14/00*	*10.0*		*9.02*	*ug/l*	*70.0-130*	*90.2*			
Matrix Spike Dup	**0030056-MSD1**		**L003014-05**							
Chlorobenzene	3/15/00	10.0	ND	7.83	ug/l	60.0-140	**78.3**	25.0	**1.40**	
1,1-Dichloroethene	"	10.0	ND	8.18	"	60.0-140	**81.8**	25.0	**0.983**	
Trichloroethene	"	10.0	ND	8.19	"	60.0-140	**81.9**	25.0	**7.60**	
Surrogate: 1-Chloro-2-fluorobenzene	*"*	*10.0*		*8.54*	*"*	*70.0-130*	*85.4*			
Batch: 0030076	**Date Prepared: 3/16/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0030076-BLK1**									
Freon 113	3/16/00			**ND**	ug/l	**1.00**				
Bromodichloromethane	"			**ND**	"	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				
2-Chloroethylvinyl ether	"			**ND**	"	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 1-Chloro-2-fluorobenzene	*"*	*10.0*		*10.5*	*"*	*70.0-130*	*105*			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank	**0030076-BLK2**									
Freon 113	3/17/00			**ND**	ug/l	**1.00**				
Bromodichloromethane	"			**ND**	"	**0.500**				
Bromoform	"			**ND**	"	**0.500**				
Bromomethane	"			**ND**	"	**1.00**				
Carbon tetrachloride	"			**ND**	"	**0.500**				
Chlorobenzene	"			**ND**	"	**0.500**				
Chloroethane	"			**ND**	"	**1.00**				
2-Chloroethylvinyl ether	"			**ND**	"	**1.00**				
Chloroform	"			**ND**	"	**0.500**				
Chloromethane	"			**ND**	"	**1.00**				
Dibromochloromethane	"			**ND**	"	**0.500**				
1,3-Dichlorobenzene	"			**ND**	"	**0.500**				
1,4-Dichlorobenzene	"			**ND**	"	**0.500**				
1,2-Dichlorobenzene	"			**ND**	"	**0.500**				
1,1-Dichloroethane	"			**ND**	"	**0.500**				
1,2-Dichloroethane	"			**ND**	"	**0.500**				
1,1-Dichloroethene	"			**ND**	"	**0.500**				
cis-1,2-Dichloroethene	"			**ND**	"	**0.500**				
trans-1,2-Dichloroethene	"			**ND**	"	**0.500**				
1,2-Dichloropropane	"			**ND**	"	**0.500**				
cis-1,3-Dichloropropene	"			**ND**	"	**0.500**				
trans-1,3-Dichloropropene	"			**ND**	"	**0.500**				
Methylene chloride	"			**ND**	"	**5.00**				
1,1,2,2-Tetrachloroethane	"			**ND**	"	**0.500**				
Tetrachloroethene	"			**ND**	"	**0.500**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.500**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
Vinyl chloride	"			**ND**	"	**0.500**				
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*10.9*	"	*70.0-130*	*109*			
LCS	**0030076-BS1**									
Chlorobenzene	3/16/00	10.0		10.4	ug/l	70.0-130	104			
1,1-Dichloroethene	"	10.0		11.8	"	65.0-135	118			
Trichloroethene	"	10.0		11.1	"	70.0-130	111			
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			
LCS	**0030076-BS2**									
Chlorobenzene	3/17/00	10.0		9.89	ug/l	70.0-130	98.9			
1,1-Dichloroethene	"	10.0		9.47	"	65.0-135	94.7			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0030076-BS2**									
Trichloroethene	3/17/00	10.0		10.5	ug/l	70.0-130	105			
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*10.3*	"	*70.0-130*	*103*			
Matrix Spike	**0030076-MS1**		**L003149-01**							
Chlorobenzene	3/16/00	20.0	ND	21.2	ug/l	60.0-140	**106**			
1,1-Dichloroethene	"	20.0	ND	21.7	"	60.0-140	**109**			
Trichloroethene	"	20.0	ND	22.5	"	60.0-140	**113**			
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*11.8*	"	*70.0-130*	*118*			
Matrix Spike Dup	**0030076-MSD1**		**L003149-01**							
Chlorobenzene	3/16/00	20.0	ND	20.0	ug/l	60.0-140	**100**	25.0	**5.83**	
1,1-Dichloroethene	"	20.0	ND	20.5	"	60.0-140	**103**	25.0	**5.66**	
Trichloroethene	"	20.0	ND	20.2	"	60.0-140	**101**	25.0	**11.2**	
Surrogate: 1-Chloro-2-fluorobenzene	"	*10.0*		*12.2*	"	*70.0-130*	*122*			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0030327	**Date Prepared: 3/14/00**					**Extraction Method: EPA 3520B**				
Blank	**0030327-BLK1**									
Acenaphthene	3/21/00			ND	ug/l	10.0				
Acenaphthylene	"			ND	"	10.0				
Anthracene	"			ND	"	10.0				
Benzidine	"			ND	"	50.0				
Benzoic acid	"			ND	"	50.0				
Benzo (a) anthracene	"			ND	"	10.0				
Benzo (b+k) fluoranthene (total)	"			ND	"	10.0				
Benzo (g,h,i) perylene	"			ND	"	10.0				
Benzo (a) pyrene	"			ND	"	10.0				
Benzyl alcohol	"			ND	"	20.0				
Bis(2-chloroethoxy)methane	"			ND	"	10.0				
Bis(2-chloroethyl)ether	"			ND	"	10.0				
Bis(2-chloroisopropyl)ether	"			ND	"	10.0				
Bis(2-ethylhexyl)phthalate	"			ND	"	10.0				
4-Bromophenyl phenyl ether	"			ND	"	10.0				
Butyl benzyl phthalate	"			ND	"	10.0				
4-Chloroaniline	"			ND	"	20.0				
4-Chloro-3-methylphenol	"			ND	"	20.0				
2-Chloronaphthalene	"			ND	"	10.0				
2-Chlorophenol	"			ND	"	10.0				
4-Chlorophenyl phenyl ether	"			ND	"	10.0				
Chrysene	"			ND	"	10.0				
Dibenz (a,h) anthracene	"			ND	"	10.0				
Dibenzofuran	"			ND	"	10.0				
Di-n-butyl phthalate	"			ND	"	10.0				
1,2-Dichlorobenzene	"			ND	"	10.0				
1,3-Dichlorobenzene	"			ND	"	10.0				
1,4-Dichlorobenzene	"			ND	"	10.0				
3,3'-Dichlorobenzidine	"			ND	"	20.0				
2,4-Dichlorophenol	"			ND	"	10.0				
Diethyl phthalate	"			ND	"	10.0				
2,4-Dimethylphenol	"			ND	"	10.0				
Dimethyl phthalate	"			ND	"	10.0				
4,6-Dinitro-2-methylphenol	"			ND	"	50.0				
2,4-Dinitrophenol	"			ND	"	50.0				
2,4-Dinitrotoluene	"			ND	"	10.0				
2,6-Dinitrotoluene	"			ND	"	10.0				
Di-n-octyl phthalate	"			ND	"	10.0				
1,2-Diphenylhydrazine	"			ND	"	20.0				
Fluoranthene	"			ND	"	10.0				

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**0030327-BLK1**									
Fluorene	3/21/00			**ND**	ug/l	**10.0**				
Hexachlorobenzene	"			**ND**	"	**10.0**				
Hexachlorobutadiene	"			**ND**	"	**10.0**				
Hexachlorocyclopentadiene	"			**ND**	"	**10.0**				
Hexachloroethane	"			**ND**	"	**10.0**				
Indeno (1,2,3-cd) pyrene	"			**ND**	"	**10.0**				
Isophorone	"			**ND**	"	**10.0**				
2-Methylnaphthalene	"			**ND**	"	**10.0**				
2-Methylphenol	"			**ND**	"	**10.0**				
4-Methylphenol	"			**ND**	"	**10.0**				
Naphthalene	"			**ND**	"	**10.0**				
2-Nitroaniline	"			**ND**	"	**50.0**				
3-Nitroaniline	"			**ND**	"	**50.0**				
4-Nitroaniline	"			**ND**	"	**50.0**				
Nitrobenzene	"			**ND**	"	**10.0**				
2-Nitrophenol	"			**ND**	"	**10.0**				
4-Nitrophenol	"			**ND**	"	**50.0**				
N-Nitrosodimethylamine	"			**ND**	"	**20.0**				
N-Nitrosodiphenylamine	"			**ND**	"	**10.0**				
N-Nitrosodi-n-propylamine	"			**ND**	"	**10.0**				
Pentachlorophenol	"			**ND**	"	**50.0**				
Phenanthrene	"			**ND**	"	**10.0**				
Phenol	"			**ND**	"	**10.0**				
Pyrene	"			**ND**	"	**10.0**				
Pyridine	"			**ND**	"	**10.0**				
1,2,4-Trichlorobenzene	"			**ND**	"	**10.0**				
2,4,5-Trichlorophenol	"			**ND**	"	**10.0**				
2,4,6-Trichlorophenol	"			**ND**	"	**10.0**				
Surrogate: 2-Fluorophenol	"	*150*		*39.2*	"	*21.0-100*	*26.1*			
Surrogate: Phenol-d6	"	*150*		*65.9*	"	*10.0-94.0*	*43.9*			
Surrogate: Nitrobenzene-d5	"	*100*		*74.2*	"	*35.0-114*	*74.2*			
Surrogate: 2-Fluorobiphenyl	"	*100*		*74.7*	"	*43.0-116*	*74.7*			
Surrogate: 2,4,6-Tribromophenol	"	*150*		*48.9*	"	*10.0-123*	*32.6*			
Surrogate: Terphenyl-d14	"	*100*		*100*	"	*34.0-141*	*100*			
LCS	**0030327-BS1**									
Acenaphthene	3/21/00	100		84.4	ug/l	57.7-120	84.4			
4-Chloro-3-methylphenol	"	150		124	"	50.6-116	82.7			
2-Chlorophenol	"	150		108	"	28.0-111	72.0			
1,4-Dichlorobenzene	"	100		72.8	"	28.8-108	72.8			
2,4-Dinitrotoluene	"	100		100	"	60.2-114	100			

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Gettler-Ryan/Geostrategies	Project: Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number: TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 3/28/00

Semivolatile Organic Compounds by EPA Method 8270C/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**0030327-BS1**									
4-Nitrophenol	3/21/00	150		153	ug/l	24.6-148	102			
N-Nitrosodi-n-propylamine	"	100		92.1	"	29.0-119	92.1			
Pentachlorophenol	"	150		141	"	39.9-131	94.0			
Phenol	"	150		109	"	21.8-117	72.7			
Pyrene	"	100		104	"	52.3-127	104			
1,2,4-Trichlorobenzene	"	100		72.5	"	23.6-131	72.5			
Surrogate: 2-Fluorophenol	"	*150*		*101*	"	*21.0-100*	*67.3*			
Surrogate: Phenol-d6	"	*150*		*108*	"	*10.0-94.0*	*72.0*			
Surrogate: Nitrobenzene-d5	"	*100*		*76.4*	"	*35.0-114*	*76.4*			
Surrogate: 2-Fluorobiphenyl	"	*100*		*83.0*	"	*43.0-116*	*83.0*			
Surrogate: 2,4,6-Tribromophenol	"	*150*		*148*	"	*10.0-123*	*98.7*			
Surrogate: Terphenyl-d14	"	*100*		*101*	"	*34.0-141*	*101*			
LCS Dup	**0030327-BSD1**									
Acenaphthene	3/21/00	100		68.7	ug/l	57.7-120	68.7	26.7	20.5	
4-Chloro-3-methylphenol	"	150		99.5	"	50.6-116	66.3	30.3	22.0	
2-Chlorophenol	"	150		92.1	"	28.0-111	61.4	38.8	15.9	
1,4-Dichlorobenzene	"	100		61.8	"	28.8-108	61.8	40.7	16.3	
2,4-Dinitrotoluene	"	100		94.0	"	60.2-114	94.0	22.1	6.19	
4-Nitrophenol	"	150		148	"	24.6-148	98.7	43.7	3.29	
N-Nitrosodi-n-propylamine	"	100		75.2	"	29.0-119	75.2	43.9	20.2	
Pentachlorophenol	"	150		136	"	39.9-131	90.7	32.9	3.57	
Phenol	"	150		94.3	"	21.8-117	62.9	32.6	14.5	
Pyrene	"	100		100	"	52.3-127	100	24.6	3.92	
1,2,4-Trichlorobenzene	"	100		60.6	"	23.6-131	60.6	48.0	17.9	
Surrogate: 2-Fluorophenol	"	*150*		*81.7*	"	*21.0-100*	*54.5*			
Surrogate: Phenol-d6	"	*150*		*87.4*	"	*10.0-94.0*	*58.3*			
Surrogate: Nitrobenzene-d5	"	*100*		*65.0*	"	*35.0-114*	*65.0*			
Surrogate: 2-Fluorobiphenyl	"	*100*		*67.7*	"	*43.0-116*	*67.7*			
Surrogate: 2,4,6-Tribromophenol	"	*150*		*118*	"	*10.0-123*	*78.7*			
Surrogate: Terphenyl-d14	"	*100*		*97.4*	"	*34.0-141*	*97.4*			

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Gettler-Ryan/Geostrategies	Project:	Tosco	Sampled: 3/7/00
6747 Sierra Court, Suite D	Project Number:	TOSCO#5484	Received: 3/7/00
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 3/28/00

Notes and Definitions

#	Note
1	Chromatogram Pattern: Weathered Gasoline C6-C12
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
Recov.	Recovery
RPD	Relative Percent Difference