



GETTLER-RYAN INC.

TRANSMITTAL

JUL 24 2001

July 5, 2001
G-R #180203

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

CC: Mr. Glen Matteucci
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

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

RE: **Former Tosco 76 SS #0843**
1629 Webster Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	June 29, 2001	Groundwater Monitoring and Sampling Report Second Quarter - Event of May 23, 2001

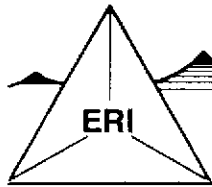
COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **July 19, 2001**, this report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Dept., of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502

Enclosure

trans/0843.dbd



ENVIRONMENTAL RESOLUTIONS, INC.

AUG 02 2001

July 13, 2001
ERI 2023QSR.L18

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



GETTLER-RYAN INC.

June 29, 2001
G-R Job #180203

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

RE: Second Quarter Event of May 23, 2001
Groundwater Monitoring & Sampling Report
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, 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. 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,

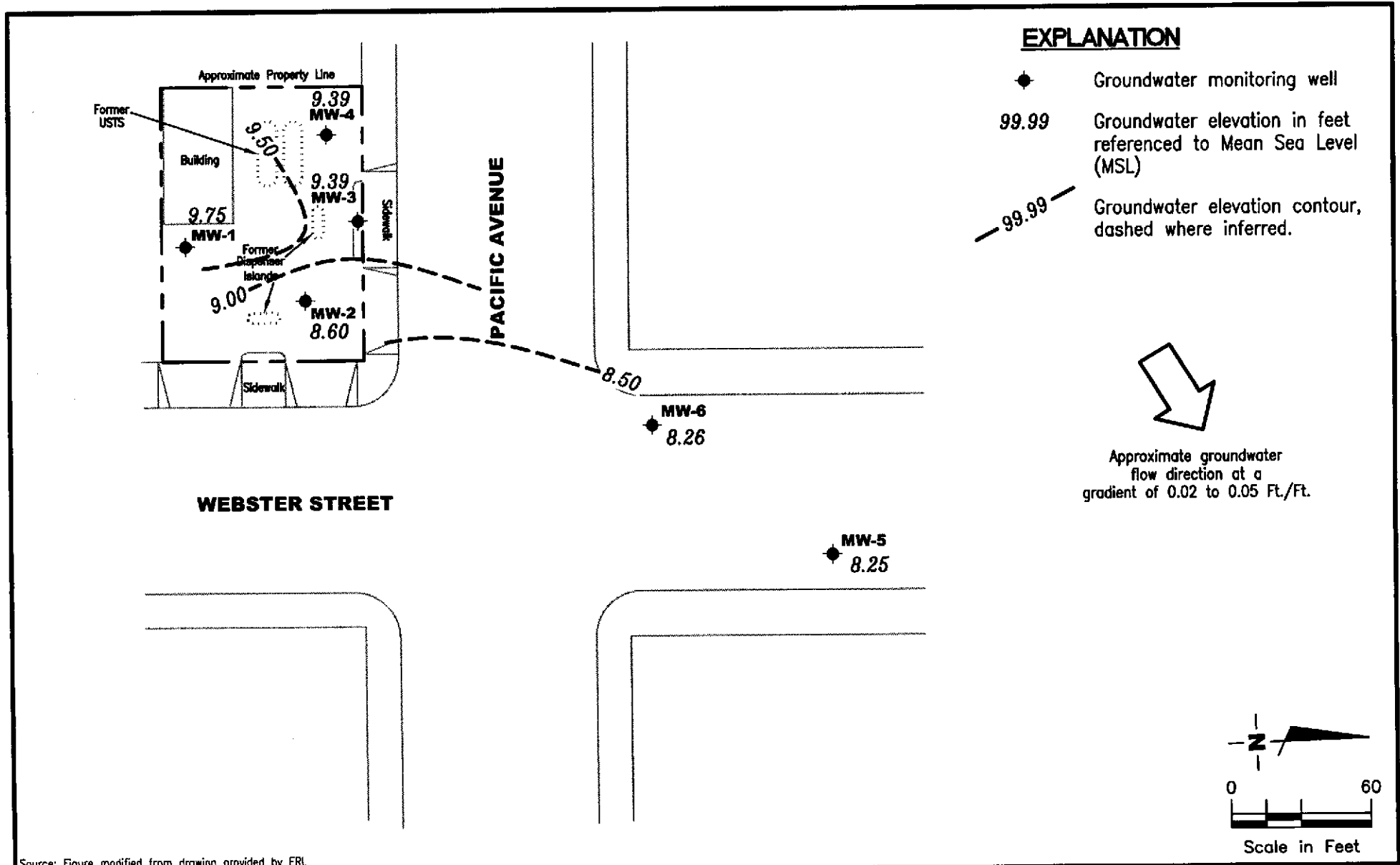
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



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

0843.qml



Source: Figure modified from drawing provided by ERI.

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

POTENTIOMETRIC MAP
 Former Tosco 76 Service Station #0843
 1629 Webster Street
 Alameda, California

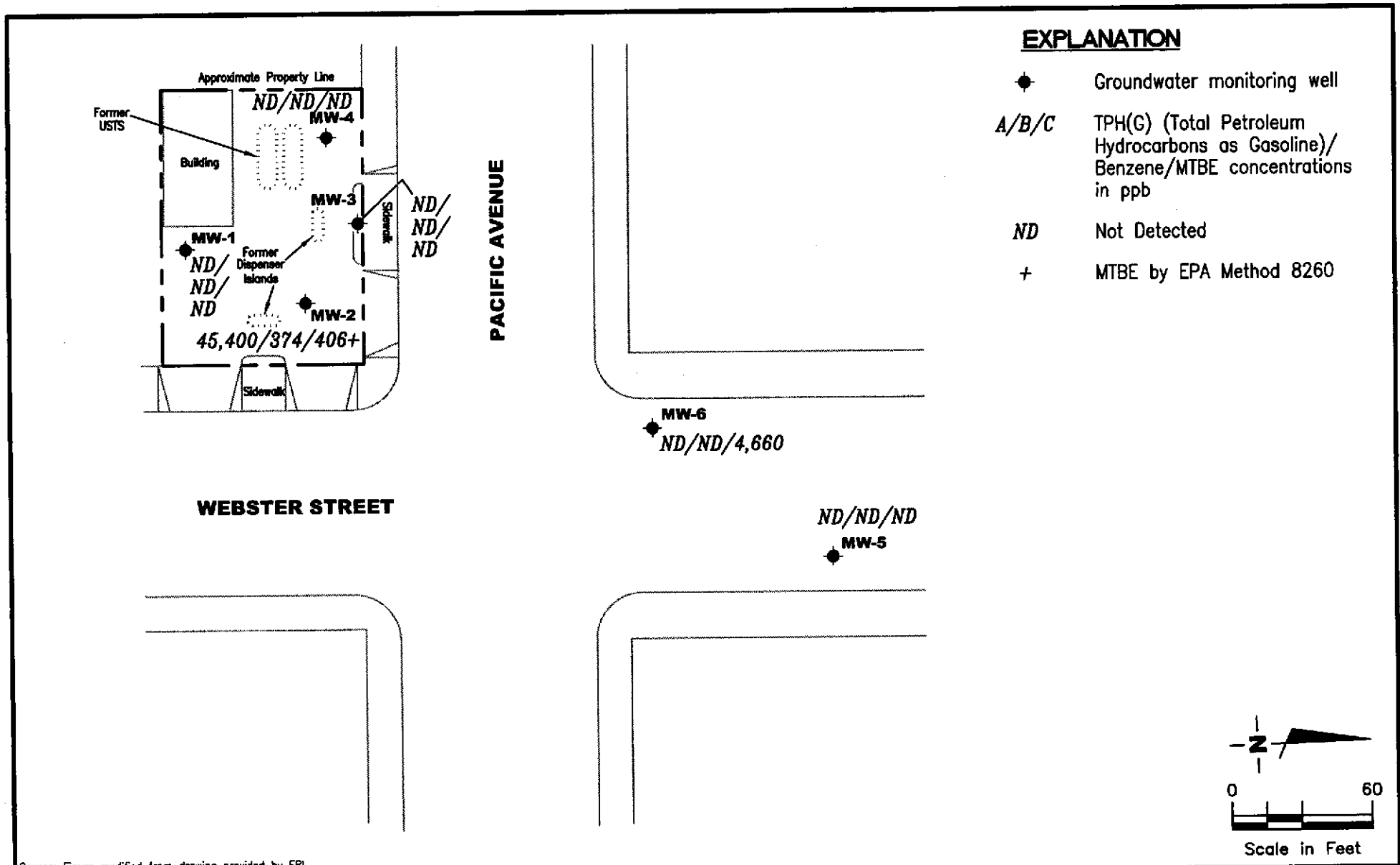
FIGURE
1

PROJECT NUMBER
 180203

REVIEWED BY

DATE
 May 23, 2001

REVISED DATE



Source: Figure modified from drawing provided by ERI.

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

CONCENTRATION MAP
 Former Tosco 76 Service Station #0843
 1629 Webster Street
 Alameda, California

FIGURE
2

PROJECT NUMBER
180203

REVIEWED BY

DATE
May 23, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
16.18	03/05/99 ¹	--	--	86.6 ³	ND	2.04	ND	4.06	23.9 ²
	06/03/99	6.24	9.94	ND	ND	ND	ND	ND	ND/ND ²
	09/02/99	7.19	8.99	ND	ND	ND	ND	ND	ND/ND ²
	12/14/99	8.07	8.11	ND	ND	ND	ND	ND	ND
	03/14/00	5.47	10.71	ND	ND	ND	ND	ND	ND
	05/31/00	6.22	9.96	ND	ND	ND	ND	ND	ND
	08/29/00	6.82	9.36	ND	ND	ND	ND	ND	ND
	12/01/00	7.54	8.64	ND	ND	ND	ND	ND	ND
	03/17/01	5.73	10.45	ND	ND	ND	ND	ND	ND
	05/23/01	6.43	9.75	ND	ND	ND	ND	ND	ND
MW-2									
15.57	03/05/99 ¹	--	--	34,400	2,070	7,710	2,340	8,240	8,460 ²
	06/03/99	5.96	9.61	51,200 ⁴	1,820	7,570	2,510	7,320	6,460/8,800 ²
	09/02/99	6.85	8.72	17,000 ⁵	1,000	3,100	1,400	3,700	4,000/3,720 ²
	12/14/99	7.65	7.92	83,000 ⁵	3,000	22,000	4,500	17,000	9,100/11,000 ²
	03/14/00	5.26	10.31	31,000 ⁵	1,600	4,600	2,300	7,300	5,700/8,700 ²
	05/31/00	5.60	9.97	9,970 ⁵	598	1,030	487	2,060	2,500/1,670 ²
	08/29/00	6.35	9.22	7,900 ⁵	390	1,500	280	1,900	1,800/1,300 ²
	12/01/00	7.06	8.51	87,500 ⁵	1,860	17,400	5,590	19,400	6,220/3,790 ²
	03/17/01	5.98	9.59	4,310 ⁵	371	59.0	280	682	321/433 ²
	05/23/01	6.97	8.60	45,400⁵	374	4,490	2,790	10,900	⁷ ND/406 ²
MW-3									
15.11	03/05/99 ¹	--	--	135 ³	ND	ND	ND	4.84	2.46 ²
	06/03/99	5.57	9.54	ND	ND	ND	ND	ND	5.23/12.7 ²
	09/02/99	6.50	8.61	ND	ND	ND	ND	ND	13/11.0 ²
	12/14/99	7.28	7.83	ND	ND	ND	ND	ND	ND
	03/14/00	4.87	10.24	ND	ND	ND	ND	ND	7.2/6.3 ²
	05/31/00	5.58	9.53	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)	08/29/00	6.06	9.05	ND	ND	ND	ND	ND	ND
	12/01/00	6.76	8.35	ND	ND	ND	ND	ND	ND
	03/17/01	5.09	10.02	ND	ND	ND	ND	ND	ND
	05/23/01	5.72	9.39	ND	ND	ND	ND	ND	ND
MW-4 15.17	03/05/99 ¹	--	--	ND	ND	ND	ND	2.44	25.2 ²
	06/03/99	5.45	9.72	ND	ND	ND	ND	ND	ND/3.96 ²
	09/02/99	6.48	8.69	ND	ND	ND	ND	ND	23/27.0 ²
	12/14/99	7.27	7.90	ND	ND	ND	ND	ND	200/270 ²
	03/14/00	4.67	10.50	ND	ND	ND	ND	ND	46/49 ²
	05/31/00	5.48	9.69	ND	ND	ND	ND	ND	ND
	08/29/00	6.10	9.07	ND	ND	ND	ND	ND	6.1/3.2 ²
	12/01/00	6.79	8.38	ND	ND	ND	ND	ND	152/101 ²
	03/17/01	5.01	10.16	ND	ND	ND	ND	ND	ND
	05/23/01	5.78	9.39	ND	ND	ND	ND	ND	ND
MW-5 13.34	12/14/99	6.45	6.89	ND	ND	ND	ND	ND	3.5/3.8 ²
	03/14/00	4.46	8.88	ND	ND	ND	ND	ND	ND
	05/31/00	5.18	8.16	ND	ND	ND	ND	ND	ND
	08/29/00	5.46	7.88	ND	ND	ND	ND	ND	ND
	12/01/00	5.95	7.39	ND	ND	ND	ND	ND	ND
	03/17/01	5.36	7.98	ND	ND	ND	ND	ND	ND
05/23/01	5.09	8.25	ND	ND	ND	ND	ND	ND	
MW-6 14.08	12/14/99	6.64	7.44	ND	ND	ND	ND	ND	11,000/18,000 ²
	03/14/00	4.72	9.36	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	19,000/21,000 ^{2,6}
	05/31/00	5.28	8.80	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	13,200
	08/29/00	5.39	8.69	ND	ND	ND	ND	ND	270/400 ²

Table 1
Groundwater Monitoring Data and Analytical Results
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6 (cont)	12/01/00	6.11	7.97	ND	ND	ND	ND	ND	6,330/3,640 ²
	03/17/01	6.02	8.06	18,700 ⁵	2,950	989	1,040	3,000	10,200/11,500 ²
	05/23/01	5.82	8.26	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	4,660 ⁸
Trip Blank	03/05/99 ¹	--	--	ND	ND	ND	ND	ND	ND ²
TB-LB	06/03/99	--	--	ND	ND	ND	ND	ND	ND
	09/02/99	--	--	ND	ND	ND	ND	ND	ND
	12/14/99	--	--	ND	ND	ND	ND	ND	ND
	03/14/00	--	--	ND	ND	ND	ND	ND	ND
	05/31/00	--	--	ND	ND	ND	ND	ND	ND
	08/29/00	--	--	ND	ND	ND	ND	ND	ND
	12/01/00	--	--	ND	ND	ND	ND	ND	ND
	03/17/01	--	--	ND	ND	ND	ND	ND	ND
	05/23/01	--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 3, 1999, were compiled from reports prepared by ERI, Inc.

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

- * TOC elevations are based on USC&GS Benchmark WEB PAC - 1947 - R 1951; (Elevation = 14.054 feet).
- ¹ B,T,E,X by EPA Method 8260.
- ² MTBE by EPA Method 8260.
- ³ Laboratory report indicates weathered gasoline C6-C12.
- ⁴ Laboratory report indicates chromatogram pattern C6-C12.
- ⁵ Laboratory report indicates gasoline C6-C12.
- ⁶ Laboratory report indicates sample was analyzed 03/28/00 but required reanalysis at a dilution. The dilution was analyzed outside of the EPA recommended holding time.
- ⁷ Detection limit raised. Refer to analytical reports.
- ⁸ Laboratory did not perform analysis for MTBE by EPA Method 8260 as requested on the Chain of Custody for 8020 MTBE hits.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	09/02/99	ND	ND	ND	ND	ND	ND	--	--
MW-2	09/02/99	ND ¹	ND ¹	3,720	ND ¹	ND ¹	ND ¹	--	--
	12/14/99	ND ¹	ND ¹	11,000	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	03/14/00	ND ¹	1,300	8,700	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	05/31/00	ND ¹	ND ¹	1,670	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	08/29/00	ND	250	1,300	ND	ND	ND	ND	ND
	12/01/00	ND ¹	ND ¹	3,790	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	03/17/01	ND ¹	ND ¹	433	14.8	ND ¹	ND ¹	ND ¹	ND ¹
	05/23/01	ND ¹	ND ¹	406	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
MW-3	09/02/99	ND	ND	11.0	ND	ND	ND	--	--
	03/14/00	--	--	6.3	--	--	--	--	--
MW-4	09/02/99	ND	ND	27.0	ND	ND	ND	--	--
	12/14/99	--	--	270	--	--	--	--	--
	03/14/00	--	--	49	--	--	--	--	--
	08/29/00	--	--	3.2	--	--	--	--	--
MW-5	12/14/99	--	--	3.8	--	--	--	--	--
MW-6	12/14/99	--	--	18,000	--	--	--	--	--
	03/14/00	--	--	21,000 ²	--	--	--	--	--
	08/29/00	--	--	400	--	--	--	--	--
	03/17/01	ND ¹	ND ¹	11,500	ND ¹	ND ¹	ND ¹	219	ND ¹
	05/23/01 ³	--	--	--	--	--	--	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, 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
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

- ¹ Detection limit raised. Refer to analytical reports.
- ² Laboratory report indicates sample was analyzed 03/28/00 but required reanalysis at a dilution. The dilution was analyzed outside of the EPA recommended holding time.
- ³ Laboratory did not perform analysis for oxygenates as requested on the Chain of Custody, on all 8020 MTBE hits.

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 # 0843 Job#: 180203
 Address: 1629 Webster st. Date: 5-23-01
 City: Alameda, CA Sampler: Joc

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 20.05 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 6.43 ft. Factor (VF) 6" = 1.50 12" = 5.80

$13.62 \times VF \ 0.17 = 2.32 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 7 \text{ (gal.)}$

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: Hot
 Sampling Time: 7:20 A.M (7:20) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
7:07	2.5	7.91	11.56	73.1			
7:09	5	7.39	11.51	73.2			
7:11	7	7.49	11.52	73.3			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3Y0A	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 0843
Address: 1629 Webster st.
City: Alameda, CA.

Job#: 180203
Date: 5-23-01
Sampler: Joc

Well ID: MW-2
Well Diameter: 2 in.
Total Depth: 20.25 ft.
Depth to Water: 6.97 ft.

Well Condition: OK
Hydrocarbon Thickness: 0 in.
Amount Bailed (product/water): 0 (gal.)

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

13.28 X VF 0.17 = 2.26 X 3 (case volume) = Estimated Purge Volume: 7 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:05
Sampling Time: 9:26 A.M. (9:26)
Purging Flow Rate: 1 gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: mild
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:12</u>	<u>2.5</u>	<u>7.15</u>	<u>3.55</u>	<u>75.1</u>	_____	_____	_____
<u>9:14</u>	<u>5</u>	<u>7.18</u>	<u>4.19</u>	<u>72.6</u>	_____	_____	_____
<u>9:15</u>	<u>7</u>	<u>7.23</u>	<u>4.25</u>	<u>72.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3V0A</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2V0A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>(6) Oxy's 1,2 DCA/EDB by 8260</u>
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0843 Job#: 180203
 Address: 1629 Webster St. Date: 5-23-01
 City: Alameda, CA. Sampler: SoC

Well ID MW-3 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 19.90 ft. Volume Factor (VF)

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

 Depth to Water 5.72 ft. 14.18 x VF 0.17 = 2.41 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 7:28 Weather Conditions: Hot
 Sampling Time: 7:50 AM (7:50) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm) X	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>7:35</u>	<u>2.5</u>	<u>7.48</u>	<u>10.35</u>	<u>72.1</u>	_____	_____	_____
<u>7:37</u>	<u>5</u>	<u>7.55</u>	<u>10.38</u>	<u>72.0</u>	_____	_____	_____
<u>7:39</u>	<u>7.5</u>	<u>7.56</u>	<u>10.42</u>	<u>72.3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION				ANALYSES	
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	
<u>MW-3</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0843
Address: 1629 Webster st.
City: Alameda, CA

Job#: 180203
Date: 5-23-01
Sampler: 50c

Well ID mw-4
Well Diameter 2 in.
Total Depth 19.80 ft.
Depth to Water 5.78 ft.

Well Condition: o.k
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

14.02 x VF 0.17 2.38 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 8:10
Sampling Time: 8:20 A.M. (8:20)
Purging Flow Rate: 1 gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: none
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity (µmhos/cm K)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:08</u>	<u>2.5</u>	<u>7.26</u>	<u>12.11</u>	<u>74.0</u>	_____	_____	_____
<u>8:10</u>	<u>5</u>	<u>7.36</u>	<u>11.57</u>	<u>73.8</u>	_____	_____	_____
<u>8:12</u>	<u>7.5</u>	<u>7.35</u>	<u>11.64</u>	<u>73.2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3YOL</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHC, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # 0843 Job#: 180203
 Address: 1629 Webster st. Date: 5-23-01
 City: Alameda, CA. Sampler: Joc

Well ID: MW-5 Well Condition: OK
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth: 20.22 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 5.09 ft. Factor (VF) 6" = 1.50 12" = 5.80

15.13 x VF 0.17 = 2.57 x 3 (case volume) = Estimated Purge Volume: 8 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: _____
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 6:18 Weather Conditions: Hot
 Sampling Time: 6:45 AM (6:45) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal)	pH	Conductivity (µmhos/cm.K)	Temperature (F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
6:30	7	7.60	9.38	74.2			
6:32	5.5	6.50	9.31	73.2			
6:34	8	6.51	9.33	73.1			

LABORATORY INFORMATION				ANALYSES	
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	
MW-5	3Y04	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 0843
Address: 1629 Webster st.
City: Alameda, CA.

Job#: 180203
Date: 5-23-01
Sampler: Soc

Well ID MW-6
Well Diameter 2 in.
Total Depth 20.15 ft.
Depth to Water 5.82 ft.

Well Condition: OK

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.33 x VF 0.17 = 2.44 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal)

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

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 8:30
Sampling Time: 8:55 a.m. (8:55)
Purging Flow Rate: 1 gpm.
Did well de-water? _____

Weather Conditions: Hot
Water Color: clear Odor: mild
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity μ mhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>8:37</u>	<u>2.5</u>	<u>7.47</u>	<u>6.55</u>	<u>72.8</u>	_____	_____	_____
<u>8:39</u>	<u>5</u>	<u>7.41</u>	<u>6.58</u>	<u>72.5</u>	_____	_____	_____
<u>8:41</u>	<u>7.5</u>	<u>7.46</u>	<u>6.50</u>	<u>72.6</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3Yol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

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

Project: Tosco(1)
 Project Number: Tosco (Former 76) SS#0843
 Project Manager: Deanna Harding

Reported:
 06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L105181-07) Water Sampled: 05/23/01 08:55 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	500	ug/l	10	1060010	06/03/01	06/03/01	DHS LUFT	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	M-04
Methyl tert-butyl ether	4660	250	"	50	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.7 %		70-130	"	"	"	"	

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

Project: Tosco(1)
 Project Number: Tosco (Former 76) SS#0843
 Project Manager: Deanna Harding

Reported:
 06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105181-04) Water Sampled: 05/23/01 07:50 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060010	06/03/01	06/03/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.4 %	70-130		"	"	"	"	
MW-4 (L105181-05) Water Sampled: 05/23/01 08:20 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060010	06/03/01	06/03/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.3 %	70-130		"	"	"	"	
MW-5 (L105181-06) Water Sampled: 05/23/01 06:45 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060010	06/03/01	06/03/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.6 %	70-130		"	"	"	"	

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

Project: Tosco(1)
 Project Number: Tosco (Former 76) SS#0843
 Project Manager: Deanna Harding

Reported:
 06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L105181-01) Water Sampled: 05/23/01 00:00 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060002	06/01/01	06/02/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.6 %	70-130		"	"	"	"	
MW-1 (L105181-02) Water Sampled: 05/23/01 07:20 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1060010	06/03/01	06/03/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.9 %	70-130		"	"	"	"	
MW-2 (L105181-03) Water Sampled: 05/23/01 09:26 Received: 05/23/01 18:00									
Purgeable Hydrocarbons as Gasoline	45400	5000	ug/l	100	1060010	06/03/01	06/03/01	DHS LUFT	P-01
Benzene	374	50.0	"	"	"	"	"	"	
Toluene	4490	50.0	"	"	"	"	"	"	
Ethylbenzene	2790	50.0	"	"	"	"	"	"	
Xylenes (total)	10900	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.6 %	70-130		"	"	"	"	

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

Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L105181-01	Water	05/23/01 00:00	05/23/01 18:00
MW-1	L105181-02	Water	05/23/01 07:20	05/23/01 18:00
MW-2	L105181-03	Water	05/23/01 09:26	05/23/01 18:00
MW-3	L105181-04	Water	05/23/01 07:50	05/23/01 18:00
MW-4	L105181-05	Water	05/23/01 08:20	05/23/01 18:00
MW-5	L105181-06	Water	05/23/01 06:45	05/23/01 18:00
MW-6	L105181-07	Water	05/23/01 08:55	05/23/01 18:00



Sequoia
Analytical

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

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JUN 07 2001

GETTLER-RYAN INC.
GENERAL CONTRACTORS

June 05 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L105181

Enclosed are the results of analyses for samples received by the laboratory on 05/23/01. 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



TOSCO

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

Facility Number TOSCO (Former 76) SS #0843
 Facility Address 1629 Webster Street, ALAMEDA CA
 Consultant Project Number 180203.85
 Consultant Name Gettler-Ryan Inc. (G-R Inc.)
 Address 6747 Sierra Court, Suite J, Dublin, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) 925-551-7555 (Fax Number) 925-551-7888

Contact (Name) Mr. Ed Ralston David Ch. Witt
 (Phone) (916) 774-2910
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) JOE ASEMIAN
 Collection Date 5-23-01
 Signature [Signature]

105181

DO NOT BILL
TB-LB ANALYSIS

Run 8260 - 6 Oxy's
+ 1,2-DCA & EDB
on ALL 8020 Mtb
hits. Thank you.

Analyses To Be Performed

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 Oil + BTEX w/MtBE (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)	(6) Oxy's, 1,2 DCA, EDB 8260					
TB-LB	01	1	W	G	-	HCL	Y	✓													
MW-1	02	3	W		7:20	/	/	✓													
MW-2	03	3	W		9:26	/	/	✓													
MW-3	04	3	W		7:50	/	/	✓													
MW-4	05	"	"		8:20	/	/	✓													
MW-5	06	"	"		6:45	/	/	✓													
MW-6	07	"	"		8:55	/	/	✓													

Relinquished By (Signature) <u>[Signature]</u>	Organization G-R Inc.	Date/Time 5-23-01	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time 5/23/01
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.
 6 Days
 10 Days
 As Contracted

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

Project: Tosco(1)
 Project Number: Tosco (Former 76) SS#0843
 Project Manager: Deanna Harding

Reported:
 06/05/01 07:49

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-2 (L105181-03) Water Sampled: 05/23/01 09:26 Received: 05/23/01 18:00									
Ethanol	ND	33300	ug/l	33.33	1050101	05/25/01	05/25/01	EPA 8260B	
1,2-Dibromoethane	ND	66.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	66.7	"	"	"	"	"	"	
Di-isopropyl ether	ND	66.7	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	66.7	"	"	"	"	"	"	
Methyl tert-butyl ether	406	66.7	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	66.7	"	"	"	"	"	"	
Tert-butyl alcohol	ND	3330	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.2 %		76-114	"	"	"	"	
Surrogate: Toluene-d8		102 %		88-110	"	"	"	"	

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

Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060002 - EPA 5030B (P/T)										
Blank (1060002-BLK1)										
Prepared & Analyzed: 06/01/01										
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
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	8.67		"	10.0		86.7	70-130			
LCS (1060002-BS1)										
Prepared & Analyzed: 06/01/01										
Benzene	7.73	0.500	ug/l	10.0		77.3	70-130			
Toluene	7.72	0.500	"	10.0		77.2	70-130			
Ethylbenzene	7.70	0.500	"	10.0		77.0	70-130			
Xylenes (total)	23.4	0.500	"	30.0		78.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.24		"	10.0		92.4	70-130			
LCS (1060002-BS2)										
Prepared & Analyzed: 06/01/01										
Purgeable Hydrocarbons as Gasoline	251	50.0	ug/l	250		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.13		"	10.0		91.3	70-130			
Matrix Spike (1060002-MS1)										
Source: L105178-07 Prepared: 06/01/01 Analyzed: 06/02/01										
Purgeable Hydrocarbons as Gasoline	286	50.0	ug/l	250	ND	114	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.09		"	10.0		90.9	70-130			
Matrix Spike Dup (1060002-MSD1)										
Source: L105178-07 Prepared: 06/01/01 Analyzed: 06/02/01										
Purgeable Hydrocarbons as Gasoline	282	50.0	ug/l	250	ND	113	60-140	1.41	25	
Surrogate: a,a,a-Trifluorotoluene	9.37		"	10.0		93.7	70-130			

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

Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1060010 - EPA 5030B (P/T)

Prepared & Analyzed: 06/02/01

Blank (1060010-BLK1)

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
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	10.9		"	10.0		109	70-130			

Prepared & Analyzed: 06/03/01

Blank (1060010-BLK2)

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
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	9.70		"	10.0		97.0	70-130			

Prepared & Analyzed: 06/02/01

LCS (1060010-BS1)

Benzene	8.49	0.500	ug/l	10.0		84.9	70-130			
Toluene	8.28	0.500	"	10.0		82.8	70-130			
Ethylbenzene	8.63	0.500	"	10.0		86.3	70-130			
Xylenes (total)	25.9	0.500	"	30.0		86.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.9		"	10.0		109	70-130			

Prepared & Analyzed: 06/02/01

LCS (1060010-BS2)

Purgeable Hydrocarbons as Gasoline	213	50.0	ug/l	250		85.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.8		"	10.0		108	70-130			

Sequoia Analytical - San Carlos

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Project: Tosco(1)
 Project Number: Tosco (Former 76) SS#0843
 Project Manager: Deanna Harding

Reported:
 06/05/01 07:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1060010 - EPA 5030B (P/T)

LCS (1060010-BS3)										
Prepared & Analyzed: 06/03/01										
Benzene	8.80	0.500	ug/l	10.0		88.0	70-130			
Toluene	8.53	0.500	"	10.0		85.3	70-130			
Ethylbenzene	8.78	0.500	"	10.0		87.8	70-130			
Xylenes (total)	26.3	0.500	"	30.0		87.7	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.36		"	10.0		93.6	70-130			

LCS (1060010-BS4)										
Prepared & Analyzed: 06/03/01										
Purgeable Hydrocarbons as Gasoline	246	50.0	ug/l	250		98.4	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.4		"	10.0		104	70-130			

Matrix Spike (1060010-MS1)										
Source: L105178-05 Prepared & Analyzed: 06/02/01										
Purgeable Hydrocarbons as Gasoline	212	50.0	ug/l	250	ND	84.8	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.7		"	10.0		107	70-130			

Matrix Spike Dup (1060010-MSD1)										
Source: L105178-05 Prepared & Analyzed: 06/02/01										
Purgeable Hydrocarbons as Gasoline	234	50.0	ug/l	250	ND	93.6	60-140	9.87	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.34		"	10.0		93.4	70-130			

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

Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

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
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Batch 1050101 - EPA 5030B [P/T]

Prepared & Analyzed: 05/23/01

Blank (1050101-BLK1)

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.1		"	50.0		96.2	76-114			
<i>Surrogate: Toluene-d8</i>	50.9		"	50.0		102	88-110			

Prepared & Analyzed: 05/24/01

Blank (1050101-BLK2)

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.6		"	50.0		93.2	76-114			
<i>Surrogate: Toluene-d8</i>	51.7		"	50.0		103	88-110			

Prepared & Analyzed: 05/25/01

Blank (1050101-BLK3)

Ethanol	ND	1000	ug/l							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
Di-isopropyl ether	ND	2.00	"							
Ethyl tert-butyl ether	ND	2.00	"							
Methyl tert-butyl ether	ND	2.00	"							
Tert-amyl methyl ether	ND	2.00	"							
Tert-butyl alcohol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.6		"	50.0		93.2	76-114			
<i>Surrogate: Toluene-d8</i>	53.1		"	50.0		106	88-110			

Sequoia Analytical - San Carlos

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

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
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Batch 1050101 - EPA 5030B [P/T]

LCS (1050101-BS1)

Prepared & Analyzed: 05/23/01

Methyl tert-butyl ether	45.9	2.00	ug/l	50.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	48.2		"	50.0		96.4	76-114			
Surrogate: Toluene-d8	49.3		"	50.0		98.6	88-110			

LCS (1050101-BS2)

Prepared & Analyzed: 05/24/01

Methyl tert-butyl ether	47.5	2.00	ug/l	50.0		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	47.8		"	50.0		95.6	76-114			
Surrogate: Toluene-d8	51.2		"	50.0		102	88-110			

LCS (1050101-BS3)

Prepared & Analyzed: 05/25/01

Methyl tert-butyl ether	48.6	2.00	ug/l	50.0		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	49.5		"	50.0		99.0	76-114			
Surrogate: Toluene-d8	51.8		"	50.0		104	88-110			

Matrix Spike (1050101-MS1)

Source: L105146-06

Prepared & Analyzed: 05/23/01

Methyl tert-butyl ether	46.5	2.00	ug/l	50.0	ND	93.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.0		"	50.0		102	76-114			
Surrogate: Toluene-d8	50.6		"	50.0		101	88-110			

Matrix Spike Dup (1050101-MSD1)

Source: L105146-06

Prepared & Analyzed: 05/23/01

Methyl tert-butyl ether	49.0	2.00	ug/l	50.0	ND	98.0	60-140	5.24	25	
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.0		100	76-114			
Surrogate: Toluene-d8	50.5		"	50.0		101	88-110			

Settler-Ryan/Geostrategies(1)
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Project: Tosco(1)
Project Number: Tosco (Former 76) SS#0843
Project Manager: Deanna Harding

Reported:
06/05/01 07:49

Notes and Definitions

M-04 MTBE was reported from second analysis.
P-01 Chromatogram Pattern: 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
RPD Relative Percent Difference