

Pa-371



# GETTLER-RYAN INC.

Alameda County

APR 11 2003

Environmental Health

April 9, 2003

Ms. Eva Chu  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, CA 94502

**Subject: Request for Reduction in Sampling Frequency  
at Tosco (76) Service Station No. 7004,  
15599 Hesperian Boulevard, San Leandro, California.**

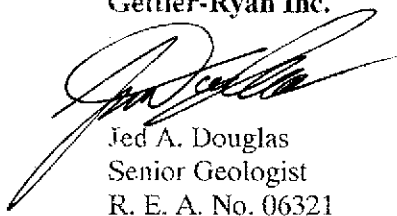
Ms. Chu:

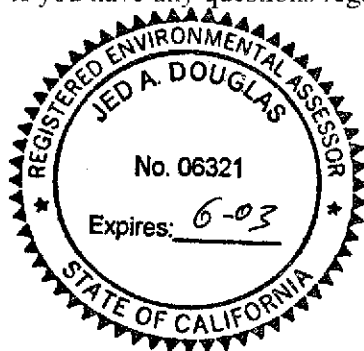
At the request of ConocoPhillips, Gettler-Ryan Inc. (GR) has prepared this request to reduce the groundwater monitoring and sampling program from quarterly to semi-annual at the above referenced site. The six groundwater monitoring wells and one recovery well at the site (Figure 1) have been sampled on a quarterly basis since either 1991 or 1998, when the wells were installed. Additionally, the seven wells have been sampled monthly since April of 2002. The most recent sampling event, conducted on January 24, 2003, indicates that detectable concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MtBE) were reported in four of the monitoring wells (Recent Monitoring and Sampling Report attached).

In the conclusions presented in GR's *Transmittal of Well Survey Results, Site Information Summary, Risk-Based Corrective Action and Request For Closure*, dated April 4, 2003, it was determined that no human health risk exists at the site. Additionally, GR stated in the closure request report that the site should be considered for low-risk case closure based on the previous remediation effort and the determination that the impacted groundwater is localized and stable, and that the groundwater beneath and in the vicinity of the site is not used for drinking water purposes.

GR believes that semi-annual monitoring and sampling is sufficient to adequately track changes in groundwater quality at this site while the site is evaluated for the previously requested case closure status. Please feel free to contact me at (707) 789-3255 if you have any questions regarding this request. Thank you for your attention to this matter.

Sincerely,  
Gettler-Ryan Inc.

  
Jed A. Douglas  
Senior Geologist  
R. E. A. No. 06321



Enclosures: Groundwater Monitoring and Sampling Report, dated March 3, 2003

cc: Mr. David DeWitt -- ConocoPhillips  
76 Broadway, Sacramento, CA 95818

140106.1



# GETTLER - RYAN INC.

106

## TRANSMITTAL

March 3, 2003  
G-R #180106

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

CC: Mr. David Vossler  
Gettler-Ryan Inc.  
Petaluma, California

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

RE: **Former Tosco (Unocal)  
Service Station #7004  
15599 Hesperian Blvd.  
San Leandro, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 28, 2003	Groundwater Monitoring and Sampling Report Monthly Event of November 27, 2003 Monthly Event of December 19, 2003 First Quarter - Event of January 24, 2003

### 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 **March 17, 2003**, this report will be distributed to the following:

cc: Mr. Scott Seary, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, CA 94502  
Mr. Michael Bakaldin, City of San Leandro Fire Department, 835 East 14th Street, San Leandro, CA 94577

Enclosure



# GETTLER - RYAN INC.

February 28, 2003  
G-R Job #180106

Mr. David B. De Witt  
ConocoPhillips  
2000 Crow Canyon Place, Suite 400  
San Ramon, CA 94583

**RE: Monthly Event of November 27, 2002**  
**Monthly Event of December 19, 2002**  
**First Quarter Event of January 24, 2003**  
Groundwater Monitoring & Sampling Report  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

Dear Mr. De Witt:

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

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. Potentiometric Maps are included as Figures 1, 3 and 5.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. Concentration Maps are included as Figures 2, 4 and 6. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding  
Project Coordinator

Robert C. Mallory  
Registered Geologist, No. 7285

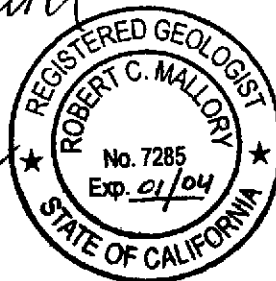
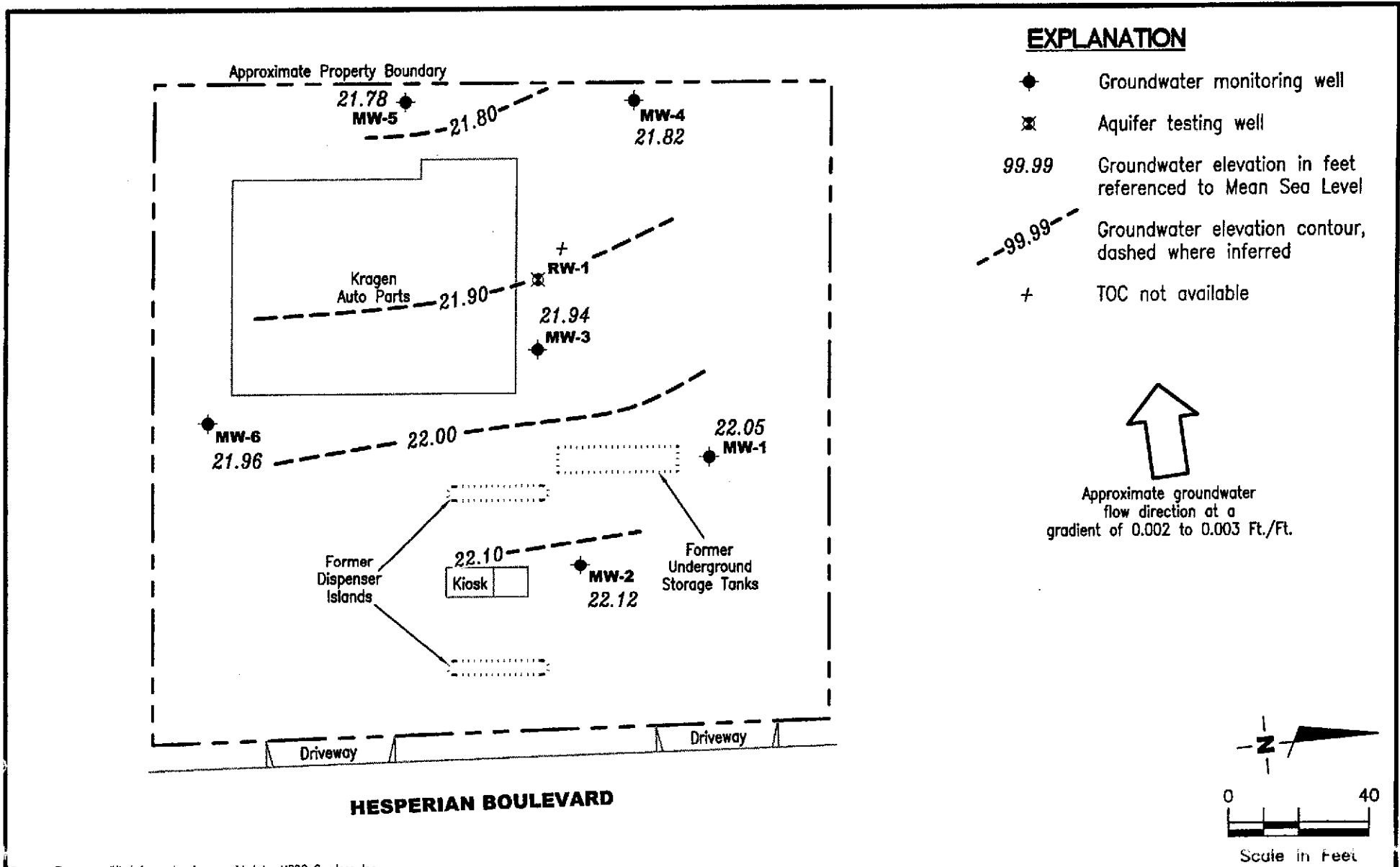


Figure 1: Potentiometric Map - November 27, 2002  
Figure 2: Concentration Map - November 27, 2002  
Figure 3: Potentiometric Map - December 19, 2002  
Figure 4: Concentration Map - December 19, 2002  
Figure 5: Potentiometric Map - January 24, 2003  
Figure 6: Concentration Map - January 24, 2003  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenated Compounds  
Table 3: Dissolved Oxygen Concentrations  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



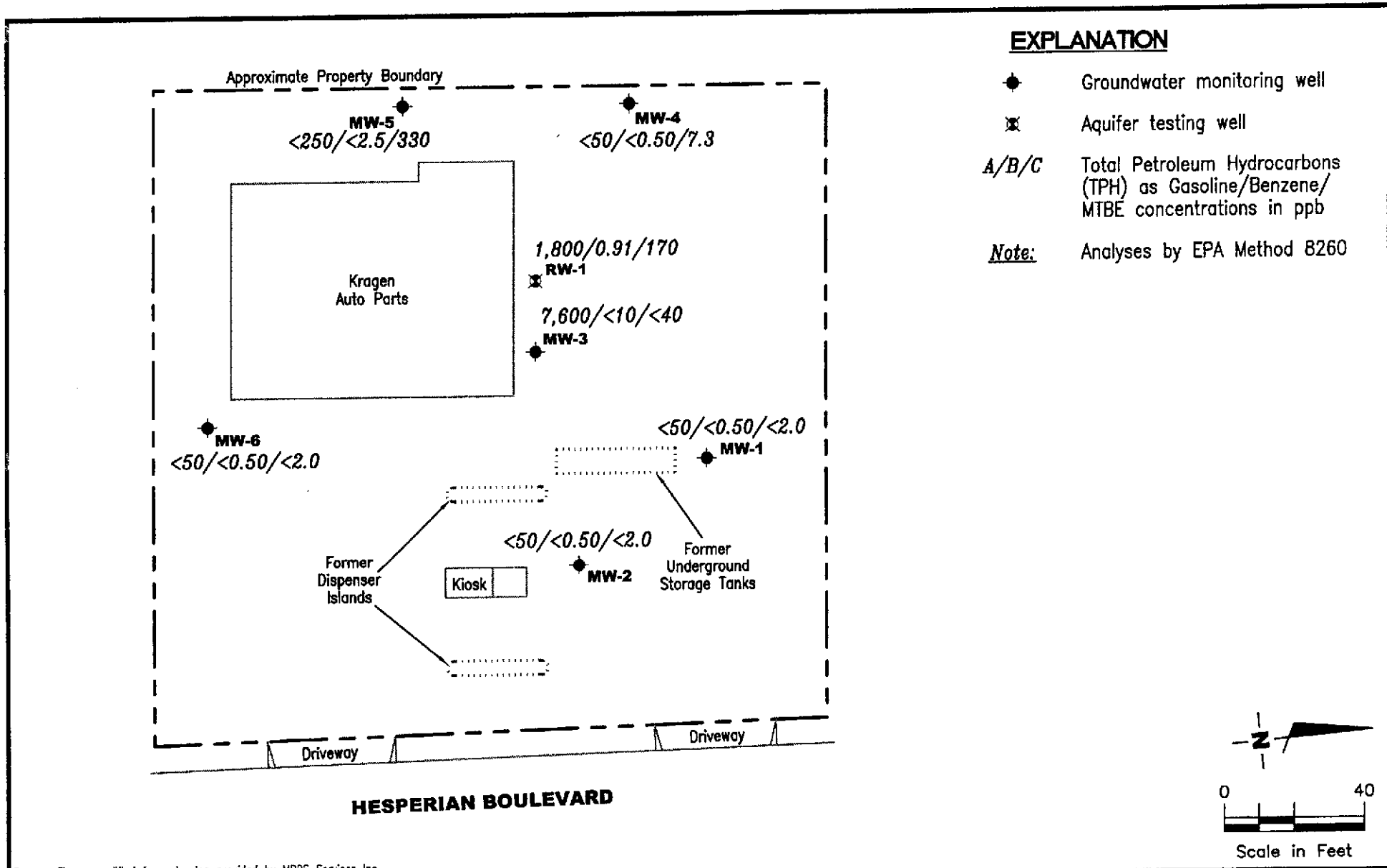
Source: Figure modified from drawing provided by MPDS Services Inc..

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

**POTENTIOMETRIC MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

FIGURE  
**1**

PROJECT NUMBER 180106	REVIEWED BY	DATE November 27, 2002	REVISED DATE
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Source: Figure modified from drawing provided by MPDS Services Inc.,

**GETTLER - RYAN INC.**  
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 Dublin, CA 94568 (925) 551-7555

**CONCENTRATION MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

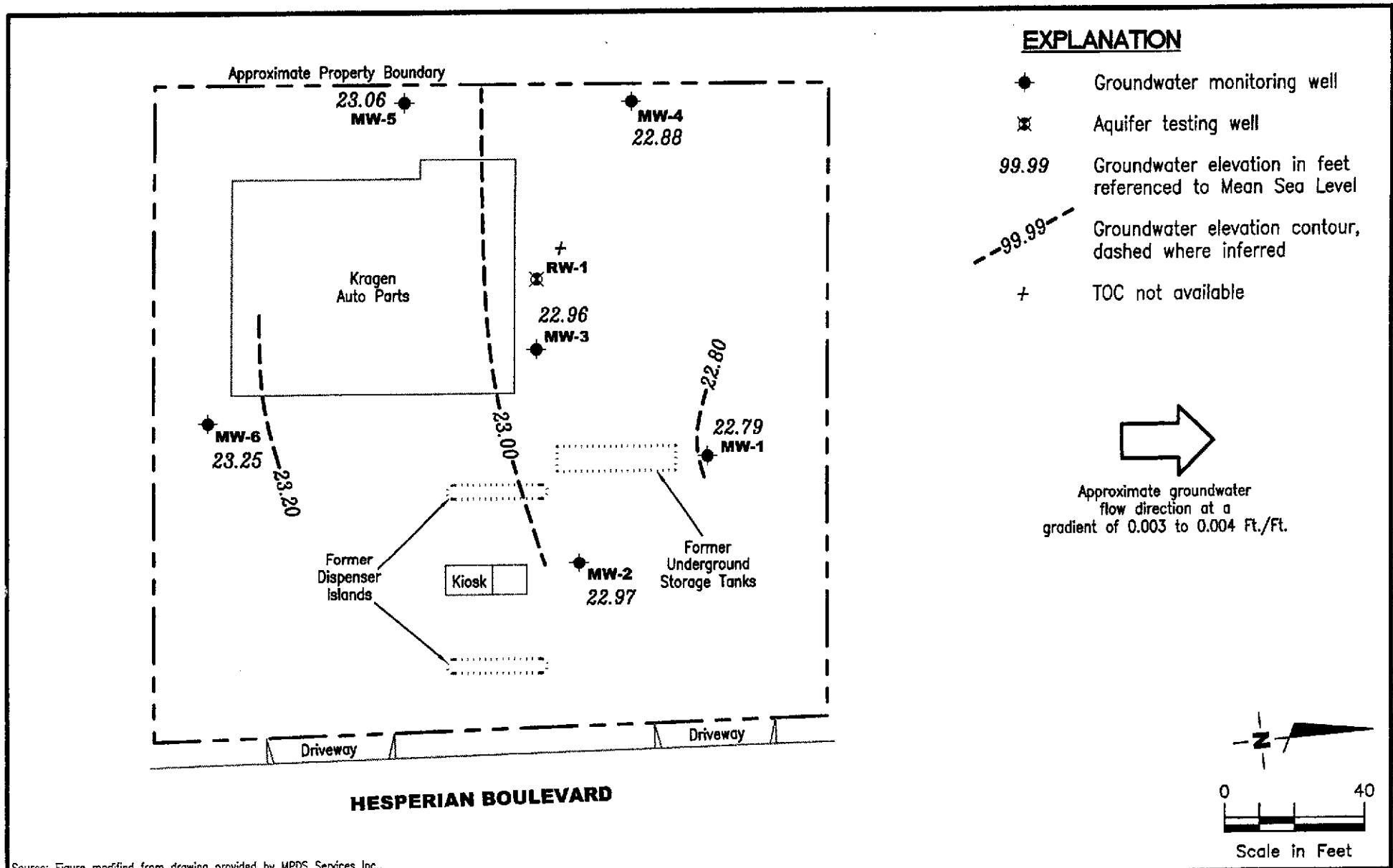
FIGURE  
**2**

PROJECT NUMBER  
 180106

REVIEWED BY

DATE  
 November 27, 2002

REVISED DATE



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

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 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

FIGURE

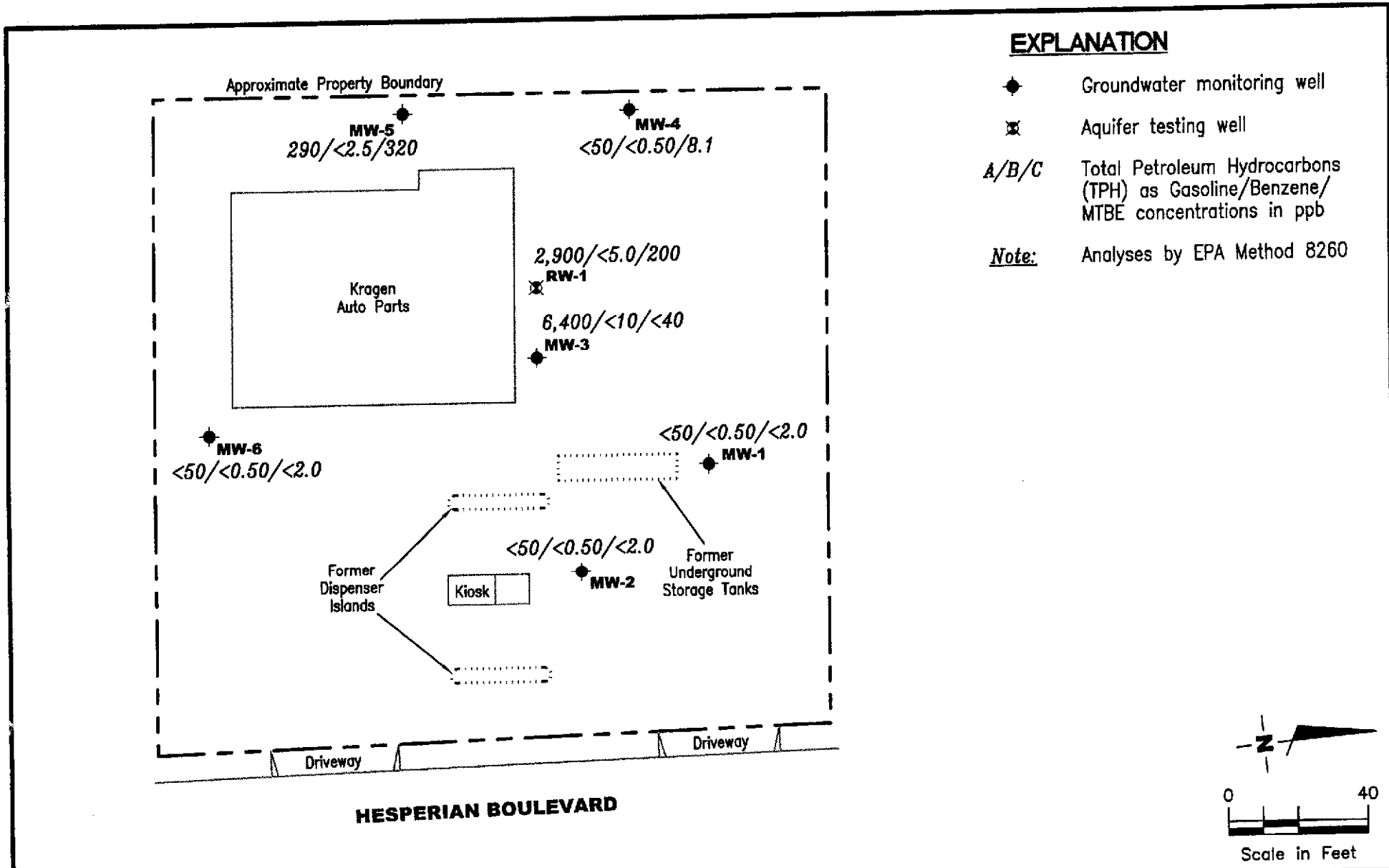
3

PROJECT NUMBER  
 180106

REVIEWED BY

DATE  
 December 19, 2002

REVISED DATE



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

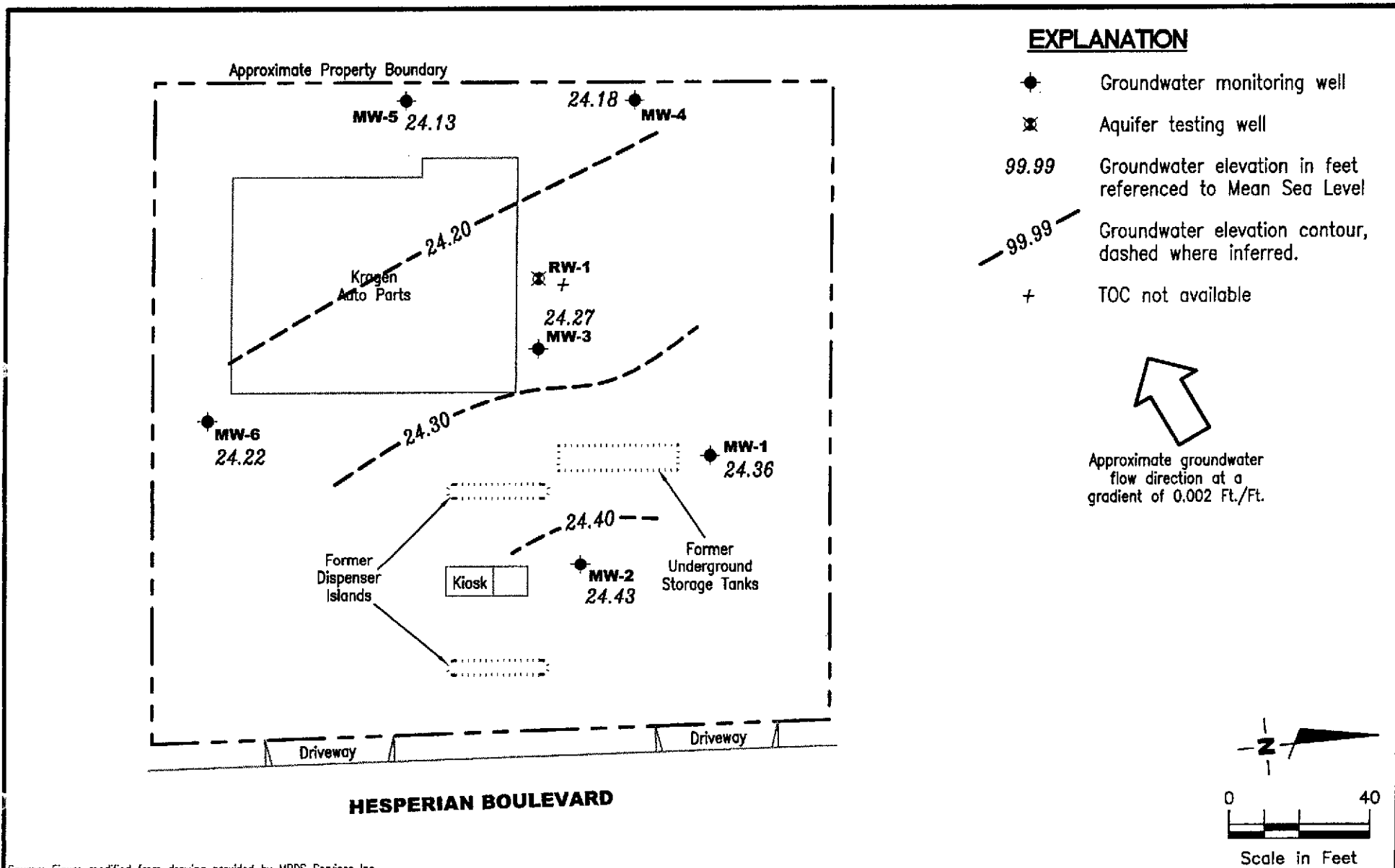
FIGURE

**GETTLER - RYAN INC.**  
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**CONCENTRATION MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

4

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
180106		December 19, 2002	



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

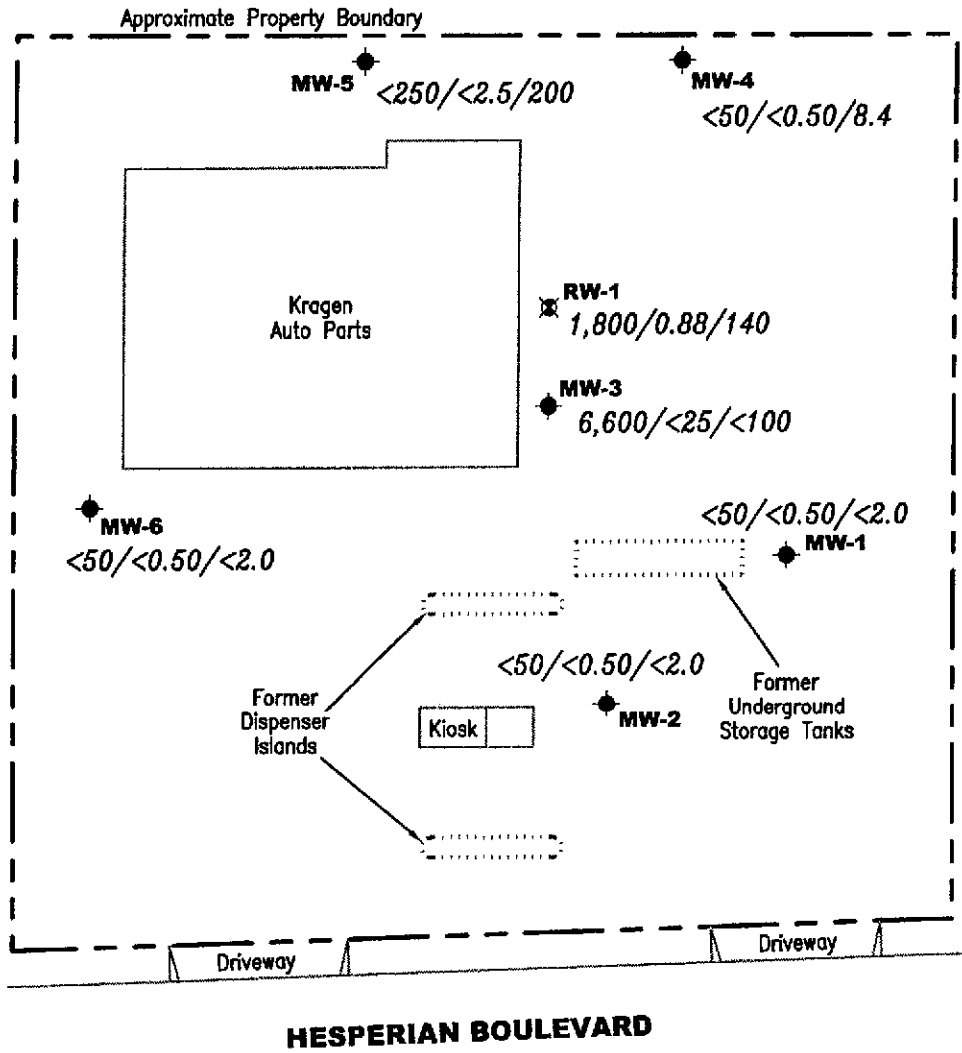
**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

FIGURE  
**5**

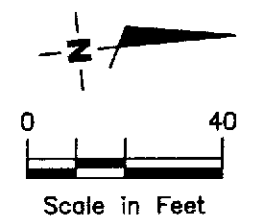
PROJECT NUMBER 180106	REVIEWED BY	DATE January 24, 2003	REVISED DATE
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**EXPLANATION**

- ◆ Groundwater monitoring well
  - ⊗ Aquifer testing well
  - A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- NOTE:** Analyses by EPA Method 8260



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

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
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**CONCENTRATION MAP**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

FIGURE  
**6**

PROJECT NUMBER  
 180106

REVIEWED BY

DATE  
 January 24, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	05/04/91	--	10.0-25.0	--	ND	ND	ND	ND	ND	--
	07/23/91	--		--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	76 <sup>1</sup>	ND	ND	ND	ND	--
	07/09/92	--		--	70 <sup>1</sup>	ND	ND	ND	ND	130
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	42
	04/20/93	14.89		22.00	--	--	--	--	--	56
	07/22/93	14.34		22.55	ND	ND	ND	ND	ND	77
36.89	10/06/93	14.87		21.52	--	--	--	--	--	--
	01/11/94	15.14		21.25	ND	ND	ND	ND	ND	--
36.39	04/06/94	14.19		22.20	--	--	--	--	--	--
	07/08/94	14.66		21.73	ND	ND	ND	ND	ND	--
	10/06/94	16.71		19.68	--	--	--	--	--	--
	01/05/95	14.68		21.71	ND	ND	ND	ND	ND	--
	04/05/95	11.76		24.63	--	--	--	--	--	--
	07/14/95	12.93		23.46	ND	0.65	2.2	ND	2.3	--
	10/12/95	14.29		22.10	--	--	--	--	--	--
	01/08/96	14.18		22.21	ND	ND	ND	ND	ND	--
	07/08/96	12.74		23.65	ND	ND	ND	ND	ND	ND
	01/03/97	12.89		23.50	87 <sup>1</sup>	ND	ND	ND	ND	ND
	07/02/97	13.66		22.73	ND	ND	ND	ND	ND	ND
	01/15/98	13.08		23.31	ND	ND	ND	ND	ND	ND
	07/08/98	11.25		25.14	ND	ND	ND	ND	ND	ND
	01/11/99	13.68		22.71	51 <sup>9</sup>	ND	ND	ND	ND	4.8
	07/07/99	12.15		24.24	ND	ND	ND	ND	ND	ND
	01/04/00	13.95		22.44	ND	ND	ND	ND	ND	ND
	07/15/00	13.46		22.93	ND	ND	0.86	ND	ND	ND
	01/19/01	12.96		23.43	ND	ND	ND	ND	ND	ND
	07/31/01	14.36		22.03	ND	ND	ND	ND	ND	ND
	01/28/02	12.89		23.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	04/22/02	12.86	10.0-25.0	23.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5
(cont)	05/24/02 <sup>16</sup>	13.16		23.23	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/21/02 <sup>16</sup>	13.52		22.87	76 <sup>1s</sup>	<0.50	<0.50	<0.50	<1.0	0.59
	07/29/02 <sup>16</sup>	13.76		22.63	54 <sup>1s</sup>	<0.50	<0.50	<0.50	<1.0	<2.0
	08/29/02 <sup>16</sup>	14.10		22.29	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	09/14/02 <sup>16</sup>	14.18		22.21	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/25/02 <sup>16</sup>	14.63		21.76	<50	0.91	<0.50	<0.50	<1.0	<2.0
	11/27/02 <sup>16</sup>	14.34		22.05	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	12/19/02 <sup>16</sup>	13.60		22.79	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	01/24/03 <sup>16</sup>	12.03		24.36	<50	<0.50	<0.50	<0.50	<1.0	<2.0
MW-2	05/04/91	--	10.0-25.0	--	ND	ND	ND	ND	ND	--
	07/23/91	--		--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	45 <sup>1</sup>	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	49
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	17
37.35	04/20/93	15.20		22.15	--	--	--	--	--	80
	07/22/93	14.75		22.60	62 <sup>1</sup>	ND	ND	ND	ND	42
37.07	10/06/93	15.49		21.58	--	--	--	--	--	--
	01/11/94	15.77		21.30	120 <sup>1</sup>	ND	ND	ND	ND	--
	04/06/94	14.83		22.24	--	--	--	--	--	--
	07/08/94	15.28		21.79	140 <sup>1</sup>	ND	ND	ND	ND	--
	10/06/94	16.32		20.75	--	--	--	--	--	--
	01/05/95	15.30		21.77	310 <sup>1</sup>	ND	ND	ND	ND	--
	04/05/95	12.12		24.95	--	--	--	--	--	--
	07/14/95	13.55		23.52	86 <sup>1</sup>	ND	ND	ND	ND	--
	10/12/95	14.88		22.19	--	--	--	--	--	--
	01/08/96	14.81		22.26	91 <sup>1</sup>	ND	ND	ND	ND	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (fL)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	
MW-2 (cont)	07/08/96	13.37	10.0-25.0	23.70	100 <sup>1</sup>	ND	ND	ND	ND	ND	
	01/03/97	13.14		23.93	160 <sup>1</sup>	ND	ND	ND	ND	ND	
	07/02/97	14.26		22.81	91 <sup>1</sup>	ND	ND	ND	ND	ND	
	01/15/98	13.31		23.76	ND	ND	ND	ND	ND	ND	
	07/08/98	11.57		25.50	ND	ND	ND	ND	ND	9.8	
	01/11/99	14.26		22.81	ND	ND	ND	ND	ND	9.4	
	07/07/99	12.24		24.83	ND	ND	ND	ND	ND	9.07	
	01/04/00	14.14		22.93	ND	ND	0.518	ND	ND	6.0	
	07/15/00	13.75		23.32	ND	ND	0.51	ND	ND	6.84	
	01/19/01	13.37		23.70	ND	ND	ND	ND	ND	ND	
	07/31/01	14.96		22.11	ND	ND	ND	ND	ND	ND	
	01/28/02	13.51		23.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/22/02	13.48		23.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/24/02 <sup>16</sup>	13.78		23.29	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/21/02 <sup>16</sup>	14.11		22.96	100 <sup>15</sup>	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	07/29/02 <sup>16</sup>	14.36		22.71	60 <sup>15</sup>	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	08/29/02 <sup>16</sup>	14.71		22.36	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	09/14/02 <sup>16</sup>	14.81		22.26	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/25/02 <sup>16</sup>	15.23		21.84	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/27/02 <sup>16</sup>	14.95		22.12	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0
12/19/02 <sup>16</sup>	14.10	22.97	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0		
01/24/03 <sup>16</sup>	12.64	24.43	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0		
MW-3	05/04/91	--	10.0-25.0	--	34,000	6,100	32	1,200	6,100	--	
	07/23/91	--		--	17,000	5,500	26	1,800	2,800	--	
	10/14/91	--		--	25,000	6,300	78	2,000	1,400	--	
	01/14/92	--		--	13,000	6,600	19	2,600	1,800	--	
	04/14/92	--		--	16,000	3,400	19	1,400	1,300	--	
	07/09/92	--		--	13,000	3,200	12	1,900	1,100	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	10/28/92	--	10.0-25.0	--	15,000	4,400	15	2,400	800	--
(cont)	01/21/93	--		--	12,000	2,800	11	1,600	590	--
37.22	04/20/93	15.13		22.09	18,000	3,700	11	2,300	1,300	410
	07/22/93	13.52		23.70	16,000	4,500	17	3,600	1,900	440
36.79	10/06/93	15.41		21.38	24,000	4,100	ND	3,600	2,000	ND
	01/11/94	15.66		21.13	19,000	3,300	31	3,300	890	--
	04/06/94	14.72		22.07	24,000	3,100	ND	3,300	820	--
	07/08/94	15.20		21.59	18,000	2,200	25	2,500	860	--
	10/06/94	16.23		20.56	20,000	2,100	26	3,000	900	--
	01/05/95	15.12		21.67	20,000	2,100	ND	3,200	3,800	--
	04/05/95	12.03		24.76	18,000	2,100	ND	3,700	690	--
	07/14/95	13.46		23.33	21,000	1,600	ND	3,900	1,500	--
	10/12/95	14.81		21.98	17,000	1,000	ND	3,600	1,000	-- <sup>3</sup>
	01/08/96	14.70		22.09	14,000	760	ND	3,100	380	-- <sup>4</sup>
	07/08/96	13.29		23.50	16,000	470	45	4,400	1,000	340
	01/03/97	13.09		23.70	14,000	160	ND	2,100	120	620
	07/02/97	13.96		22.83	23,000	110	ND	3,600	1,600	1,200
	01/15/98	13.26		23.53	12,000	33	ND <sup>5</sup>	2,800	120	1,100
	07/08/98	11.64		25.15	20,000	76	ND <sup>5</sup>	4,100	1,400	750
	01/11/99	14.17		22.62	23,000 <sup>10</sup>	ND <sup>5</sup>	ND <sup>5</sup>	4,100	460	920
	07/07/99	13.18		23.61	15,000 <sup>11</sup>	35	ND <sup>5</sup>	3,400	470	1,700
	01/04/00	14.27		22.52	15,500	ND <sup>5</sup>	ND <sup>5</sup>	3,330	191	827
	07/15/00	13.91		22.88	15,000 <sup>12</sup>	ND <sup>5</sup>	ND <sup>5</sup>	3,400	420	3,300
	08/25/00	14.24		22.55	--	--	--	--	--	1,920 <sup>13</sup>
	01/19/01	13.42		23.37	11,100 <sup>14</sup>	38.4	ND <sup>5</sup>	1,760	38.8	ND <sup>5</sup>
	07/31/01	14.90		21.89	13,000 <sup>14</sup>	ND <sup>5</sup>	ND <sup>5</sup>	1,600	63	ND <sup>5</sup>
	01/28/02	13.41		23.38	82	<0.50	<0.50	10	<0.50	<2.5
	04/22/02	13.41		23.38	7,300	39	<25	970	<25	<120
	05/24/02 <sup>16</sup>	13.69		23.10	8,500 <sup>15</sup>	<5.0	<5.0	1,200	<10	12
	06/21/02 <sup>16</sup>	14.04		22.75	11,000	<5.0	<5.0	690	<10	17
	07/29/02 <sup>16</sup>	14.28		22.51	6,800	<5.0	<5.0	1,100	<10	<20
	08/29/02 <sup>16</sup>	14.62		22.17	7,200 <sup>15</sup>	<25	<25	1,200	<50	<100

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)	09/14/02 <sup>16</sup>	14.72	10.0-25.0	22.07	180	<0.50	<0.50	20	<1.0	<2.0
	10/25/02 <sup>16</sup>	15.13		21.66	1,000	<0.50	<0.50	110	<1.0	<2.0
	11/27/02 <sup>16</sup>	14.85		21.94	7,600	<10	<10	1,200	<20	<40
	12/19/02 <sup>16</sup>	13.83		22.96	6,400	<10	<10	810	<20	<40
	01/24/03 <sup>16</sup>	12.52		24.27	6,600	<25	<25	930	<50	<100
MW-4	07/23/91	--	10.0-26.0	--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	ND	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	--
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY			--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	--
35.81	04/20/93	13.84		21.97	--	--	--	--	--	65
	07/22/93	13.52		22.29	ND	ND	ND	ND	ND	54
35.44	10/06/93	14.17		21.27	--	--	--	--	--	--
	01/11/94	14.42		21.02	ND	ND	ND	ND	ND	--
	04/06/94	13.44		22.00	--	--	--	--	--	--
	07/08/94	13.96		21.48	ND	ND	ND	ND	ND	--
	10/06/94	15.00		20.44	--	--	--	--	--	--
	01/05/95	13.83		21.61	ND	ND	ND	ND	ND	--
	04/05/95	11.05		24.39	--	--	--	--	--	--
	07/14/95	12.23		23.21	ND	ND	ND	ND	ND	--
	10/12/95	13.59		21.85	--	--	--	--	--	--
	01/08/96	13.43		22.01	ND	ND	ND	ND	ND	ND
	07/08/96	12.04		23.40	ND	ND	ND	ND	ND	ND
	01/03/97	12.38		23.06	80 <sup>1</sup>	ND	ND	ND	ND	ND
	07/02/97	13.00		22.44	ND	ND	ND	ND	ND	25
01/15/98	12.50		22.94	ND	ND	ND	ND	ND	ND	
07/08/98	10.53		24.91	ND	ND	ND	ND	ND	25	
01/11/99	12.95		22.49	ND	ND	ND	ND	ND	23	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4 (cont)	07/07/99	11.76	10.0-26.0	23.68	ND	ND	ND	ND	ND	15
	01/04/00	13.17		22.27	ND	ND	ND	ND	ND	13.2
	07/15/00	13.04		22.40	ND	ND	ND	ND	ND	11
	01/19/01	12.65		22.79	ND	ND	ND	ND	ND	9.97
	07/31/01	13.69		21.75	ND	ND	ND	ND	ND	6.0
	01/28/02	12.17		23.27	<50	<0.50	<0.50	<0.50	<0.50	13
	04/22/02	12.18		23.26	<50	<0.50	<0.50	<0.50	<0.50	5.7
	05/24/02 <sup>16</sup>	12.45		22.99	<50	<0.50	<0.50	<0.50	<1.0	2.9
	06/21/02 <sup>16</sup>	12.48		22.96	54 <sup>15</sup>	<0.50	<0.50	<0.50	<1.0	3.6
	07/29/02 <sup>16</sup>	13.08		22.36	<50	<0.50	<0.50	<0.50	<1.0	5.7
	08/29/02 <sup>16</sup>	13.39		22.05	<50	<0.50	<0.50	<0.50	<1.0	8.5
	09/14/02 <sup>16</sup>	13.49		21.95	<50	<0.50	<0.50	<0.50	<1.0	4.8
	10/25/02 <sup>16</sup>	13.93		21.51	<50	0.82	<0.50	<0.50	<1.0	7.1
	11/27/02 <sup>16</sup>	13.62		21.82	<50	<0.50	<0.50	<0.50	<1.0	7.3
	12/19/02 <sup>16</sup>	12.56		22.88	<50	<0.50	<0.50	<0.50	<1.0	8.1
01/24/03 <sup>16</sup>	11.26		24.18	<50	<0.50	<0.50	<0.50	<1.0	8.4	
MW-5	07/23/91	--	10.0-26.0	--	260	1.2	0.39	10	0.71	--
	10/14/91	--		--	140	0.72	ND	1.3	0.89	--
	01/14/92	--		--	60 <sup>1</sup>	ND	ND	ND	ND	--
	04/14/92	--		--	86 <sup>1</sup>	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	71
	10/28/92	--		--	ND	ND	ND	ND	ND	45
	01/21/93	--		--	100 <sup>1</sup>	ND	ND	ND	ND	160
	04/20/93	14.87		22.14	99 <sup>1</sup>	ND	ND	ND	ND	120
	07/22/93	14.82		22.19	59 <sup>2</sup>	ND	ND	2.6	ND	42
	10/06/93	15.61		21.20	150	1.1	ND	3.1	0.85	57
36.81	01/11/94	15.84		20.97	160	ND	0.79	0.54	ND	--
	04/06/94	14.90		21.91	260	1.4	ND	0.88	ND	--
	07/08/94	15.38		21.43	200	ND	ND	ND	ND	--
	10/06/94	16.42		20.39	350	1.3	ND	ND	ND	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	01/05/95	15.20	10.0-26.0	21.61	85	ND	ND	ND	ND	--
(cont)	04/05/95	11.72		25.09	ND	ND	ND	ND	ND	--
	07/14/95	13.69		23.12	180	1.3	ND	7.9	ND	-- <sup>3</sup>
	10/12/95	15.02		21.79	310	ND	ND	31	1.2	-- <sup>4</sup>
	01/08/96	14.85		21.96	ND	0.55	ND	ND	0.58	-- <sup>4</sup>
	07/08/96	13.52		23.29	140	2.1	1.4	5.6	0.51	110
◆	07/12/96	14.50		22.31	--	--	--	--	--	--
	01/03/97	12.85		23.96	12,000	150	ND	2,100	120	660
	07/02/97	13.79		23.02	ND	ND	ND	ND	ND	72
	01/15/98	13.03		23.78	69 <sup>6</sup>	ND	ND	ND	ND	-- <sup>7</sup>
	07/08/98	12.05		24.76	ND	0.74	ND	ND	ND	95
◆◆	01/11/99	14.41		22.40	ND	1.0	ND	ND	ND	170
	07/07/99	12.38		24.43	130	0.64	ND	ND	ND	330
	01/04/00	14.33		22.48	ND	ND	ND	ND	ND	183
	07/15/00	13.88		22.93	ND	0.68	ND	ND	ND	350
	01/19/01	13.41		23.40	ND	ND	ND	ND	ND	195
	07/31/01	15.12		21.69	ND	ND	ND	ND	ND	190
	01/28/02	13.59		23.22	<50	<0.50	<0.50	<0.50	<0.50	97
	04/22/02	13.61		23.20	<50	<0.50	<0.50	<0.50	<0.50	160
	05/24/02 <sup>16</sup>	13.89		22.92	89	<0.50	<0.50	<0.50	<1.0	180
	06/21/02 <sup>16</sup>	14.22		22.59	190 <sup>15</sup>	<0.50	<0.50	<0.50	<1.0	85
	07/29/02 <sup>16</sup>	14.48		22.33	120 <sup>15</sup>	<0.50	<0.50	<0.50	<1.0	76
	08/29/02 <sup>16</sup>	14.80		22.01	<500	<5.0	<5.0	<5.0	<10	380
	09/14/02 <sup>16</sup>	14.91		21.90	130 <sup>15</sup>	<0.50	<0.50	<0.50	<1.0	91
	10/25/02 <sup>16</sup>	15.32		21.49	<200	<2.0	<2.0	<2.0	<4.0	270
	11/27/02 <sup>16</sup>	15.03		21.78	<250	<2.5	<2.5	<2.5	<5.0	330
	12/19/02 <sup>16</sup>	13.75		23.06	290 <sup>15</sup>	<2.5	<2.5	<2.5	<5.0	320
	01/24/03 <sup>16</sup>	12.68		24.13	<250	<2.5	<2.5	<2.5	<5.0	200



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	07/23/91	--	10.0-26.0	--	ND	ND	ND	ND	ND	--
	10/14/91	--		--	ND	ND	ND	ND	ND	--
	01/14/92	--		--	ND	ND	ND	ND	ND	--
	04/14/92	--		--	ND	ND	ND	ND	ND	--
	07/09/92	--		--	ND	ND	ND	ND	ND	--
	10/28/92	--		--	SAMPLED SEMI-ANNUALLY		--	--	--	--
	01/21/93	--		--	ND	ND	ND	ND	ND	ND
37.55	04/20/93	15.27		22.28	--	--	--	--	--	ND
	07/22/93	15.20		22.35	ND	ND	ND	ND	ND	ND
37.13	10/06/93	15.75		21.38	--	--	--	--	--	--
	01/11/94	16.02		21.11	ND	ND	ND	ND	ND	--
	04/06/94	15.07		22.06	--	--	--	--	--	--
	07/08/94	15.55		21.58	ND	ND	ND	ND	ND	--
	10/06/94	16.58		20.55	--	--	--	--	--	--
	01/05/95	15.42		21.71	ND	ND	ND	ND	ND	--
	04/05/95	12.14		24.99	--	--	--	--	--	--
	07/14/95	13.87		23.26	ND	ND	ND	ND	ND	--
	10/12/95	15.17		21.96	--	--	--	--	--	--
	01/08/96	15.05		22.08	ND	ND	ND	ND	ND	--
	07/08/96	13.71		23.42	ND	ND	ND	ND	ND	ND
	01/03/97	13.12		24.01	97 <sup>1</sup>	ND	ND	ND	ND	ND
	07/02/97	14.57		22.56	ND	ND	ND	ND	ND	ND
	01/15/98	13.30		23.83	ND	ND	ND	ND	ND	ND
	07/08/98	12.33		24.80	ND	ND	ND	ND	ND	ND
	01/11/99	14.60		22.53	ND	ND	ND	ND	ND	ND
	07/07/99	13.23		23.90	ND	ND	ND	ND	ND	ND
	01/04/00	14.41		22.72	ND	ND	ND	ND	ND	ND
	07/15/00	14.05		23.08	ND	ND	ND	ND	ND	ND
	01/19/01	13.58		23.55	ND	ND	ND	ND	ND	ND
07/31/01	15.24		21.89	ND	ND	ND	ND	ND	ND	
01/28/02	13.80		23.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
04/22/02	13.22		23.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6 (cont)	05/24/02 <sup>16</sup>	14.07	10.0-26.0	23.06	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/21/02 <sup>16</sup>	14.38		22.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	07/29/02 <sup>16</sup>	14.64		22.49	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	08/29/02 <sup>16</sup>	14.97		22.16	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	09/14/02 <sup>16</sup>	15.04		22.09	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/25/02 <sup>16</sup>	15.46		21.67	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/27/02 <sup>16</sup>	15.17		21.96	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	12/19/02 <sup>16</sup>	13.88		23.25	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	01/24/03 <sup>16</sup>	12.91		24.22	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	RW-1	07/08/98	11.72	12.5-27.5	--	80 <sup>8</sup>	1.7	ND	ND	ND
01/11/99		14.05		--	ND <sup>5</sup>	3.0	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	1,200
07/07/99		13.05		--	ND	ND	ND	ND	ND	590
01/04/00		14.26		--	ND	ND	ND	ND	ND	270
07/15/00		13.77		--	ND	0.55	ND	ND	ND	460
01/19/01		13.29		--	ND	ND	ND	ND	ND	338
07/31/01		14.72		--	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	ND <sup>5</sup>	1,900
01/28/02		13.21		--	72 <sup>15</sup>	0.98	<0.50	<0.50	<0.50	460
04/22/02		13.22		--	<50	<0.50	<0.50	<0.50	<0.50	290
05/24/02 <sup>16</sup>		13.51		--	1,200 <sup>15</sup>	<1.0	<1.0	30	<2.0	300
06/21/02 <sup>16</sup>		13.85		--	400	<0.50	<0.50	<0.50	<1.0	130
07/29/02 <sup>16</sup>		14.11		--	130	<0.50	<0.50	<0.50	<1.0	91
08/29/02 <sup>16</sup>		14.43		--	2,400	<2.0	<2.0	47	<4.0	210
09/14/02 <sup>16</sup>		14.54		--	390	<0.50	<0.50	<0.50	<1.0	120
10/25/02 <sup>16</sup>		14.95		--	2,700	0.96	1.1	51	<1.0	160
11/27/02 <sup>16</sup>		14.66		--	1,800	0.91	0.82	31	<1.0	170
12/19/02 <sup>16</sup>	13.60		--	2,900	<5.0	<5.0	50	<10	200	
01/24/03 <sup>16</sup>	12.31		--	1,800	0.88	0.69	29	<1.0	140	

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15599 Hesperian Boulevard  
San Leandro, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (pph)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>Trip Blank</b>										
TR-LB	01/15/98	--	--	--	ND	ND	ND	ND	ND	ND
	07/08/98	--	--	--	ND	ND	ND	ND	ND	ND
	01/11/99	--	--	--	ND	ND	ND	ND	ND	ND
	07/07/99	--	--	--	ND	ND	ND	ND	ND	ND
	01/04/00	--	--	--	ND	ND	ND	ND	ND	ND
	07/15/00	--	--	--	ND	ND	ND	ND	ND	ND
	01/19/01	--	--	--	ND	ND	ND	ND	ND	ND
	07/31/01	--	--	--	ND	ND	ND	ND	ND	ND
	01/28/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/22/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
<b>QA</b>	05/24/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/21/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50
	07/29/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	08/29/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	09/14/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	10/25/02 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/27/02 <sup>16</sup>	--	--	--	<50	<0.50	0.69	<0.50	<1.0	<2.0
	12/19/02 <sup>16</sup>	--	--	--	<50	<0.50	0.52 <sup>17</sup>	<0.50	<1.0	<2.0
	01/24/03 <sup>16</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

**Table 1**  
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 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to January 15, 1998, were compiled from reports prepared by MPDS Services, Inc.

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

\* TOC elevations are relative to mean sea level (msl), based on the City of San Leandro Benchmark (Elevation = 36.04 feet msl). Prior to October 6, 1993, the DTW measurements were taken from the top of well covers.

◆ ORC installed.

◆◆ ORC removed from well.

- 1 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 3 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- 4 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 5 Detection limit raised. Refer to analytical reports.
- 6 Laboratory report indicates unidentified hydrocarbons C6-C8.
- 7 Laboratory narrative: MTBE was not reported due to the presence of a chlorinated hydrocarbon pattern.
- 8 Laboratory report indicates discrete peaks and unidentified hydrocarbons <C7.
- 9 Laboratory report indicates discrete peaks.
- 10 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- 11 Laboratory report indicates gasoline and unidentified hydrocarbons <C6.
- 12 Laboratory report indicates gasoline C6-C12.
- 13 MTBE by EPA Method 8260.
- 14 Laboratory report indicates weathered gasoline C6-C12.
- 15 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 16 TPH-G, BTEX and MTBE by EPA Method 8260.
- 17 Laboratory report indicates Toluene was detected in the trip blank at a concentration above the reporting limit. The laboratory has determined that this is due to trace contamination in this set of blanks when received from the vendor, and was not caused by field contamination.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	05/24/02	--	--	<0.50	--	--	--	--	--
	06/21/02	--	--	0.59	--	--	--	--	--
	07/29/02	--	--	<2.0	--	--	--	--	--
	08/29/02	--	--	<2.0	--	--	--	--	--
	09/14/02	--	--	<2.0	--	--	--	--	--
	10/25/02	--	--	<2.0	--	--	--	--	--
	11/27/02	--	--	<2.0	--	--	--	--	--
	12/19/02	--	--	<2.0	--	--	--	--	--
01/24/03	--	--	<2.0	--	--	--	--	--	
MW-2	05/24/02	--	--	<0.50	--	--	--	--	--
	06/21/02	--	--	<0.50	--	--	--	--	--
	07/29/02	--	--	<2.0	--	--	--	--	--
	08/29/02	--	--	<2.0	--	--	--	--	--
	09/14/02	--	--	<2.0	--	--	--	--	--
	10/25/02	--	--	<2.0	--	--	--	--	--
	11/27/02	--	--	<2.0	--	--	--	--	--
	12/19/02	--	--	<2.0	--	--	--	--	--
01/24/03	--	--	<2.0	--	--	--	--	--	
MW-3	08/25/00	--	ND <sup>1</sup>	1,920	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
	05/24/02	--	--	12	--	--	--	--	--
	06/21/02	--	--	17	--	--	--	--	--
	07/29/02	--	--	<20	--	--	--	--	--
	08/29/02	--	--	<100	--	--	--	--	--
	09/14/02	--	--	<2.0	--	--	--	--	--
	10/25/02	--	--	<2.0	--	--	--	--	--
	11/27/02	--	--	<40	--	--	--	--	--
	12/19/02	--	--	<40	--	--	--	--	--
	01/24/03	--	--	<100	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-4	05/24/02	--	--	2.9	--	--	--	--	--
	06/21/02	--	--	3.6	--	--	--	--	--
	07/29/02	--	--	5.7	--	--	--	--	--
	08/29/02	--	--	8.5	--	--	--	--	--
	09/14/02	--	--	4.8	--	--	--	--	--
	10/25/02	--	--	7.1	--	--	--	--	--
	11/27/02	--	--	7.3	--	--	--	--	--
	12/19/02	--	--	8.1	--	--	--	--	--
01/24/03	--	--	8.4	--	--	--	--	--	
MW-5	05/24/02	--	--	180	--	--	--	--	--
	06/21/02	--	--	85	--	--	--	--	--
	07/29/02	--	--	76	--	--	--	--	--
	08/29/02	--	--	380	--	--	--	--	--
	09/14/02	--	--	91	--	--	--	--	--
	10/25/02	--	--	270	--	--	--	--	--
	11/27/02	--	--	330	--	--	--	--	--
	12/19/02	--	--	320	--	--	--	--	--
01/24/03	--	--	200	--	--	--	--	--	
MW-6	05/24/02	--	--	<0.50	--	--	--	--	--
	06/21/02	--	--	<0.50	--	--	--	--	--
	07/29/02	--	--	<2.0	--	--	--	--	--
	08/29/02	--	--	<2.0	--	--	--	--	--
	09/14/02	--	--	<2.0	--	--	--	--	--
	10/25/02	--	--	<2.0	--	--	--	--	--
	11/27/02	--	--	<2.0	--	--	--	--	--
	12/19/02	--	--	<2.0	--	--	--	--	--
01/24/03	--	--	<2.0	--	--	--	--	--	

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
RW-1	05/24/02	<50	<10	300	<2.0	<1.0	<1.0	<0.5	<0.5
	06/21/02	--	--	130	--	--	--	--	--
	07/29/02	--	--	91	--	--	--	--	--
	08/29/02	--	--	210	--	--	--	--	--
	09/14/02	--	--	120	--	--	--	--	--
	10/25/02	--	--	160	--	--	--	--	--
	11/27/02	--	--	170	--	--	--	--	--
	12/19/02	--	--	200	--	--	--	--	--
	01/24/03	--	--	140	--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Tosco (Unocal) Service Station #7004  
15599 Hesperian Boulevard  
San Leandro, California

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**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  
QA = Quality Assurance/Trip Blank  
ND = Not Detected  
-- = Not Analyzed

<sup>1</sup> Detection limit raised. Refer to analytical reports.

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds



**Table 3**  
**Dissolved Oxygen Concentrations**  
 Former Tosco (Unocal) Service Station #7004  
 15599 Hesperian Boulevard  
 San Leandro, California

<b>WELL ID</b>	<b>DATE</b>	<b>Before Purging (mg/L)</b>	<b>After Purging (mg/L)</b>
MW-5	07/02/97	3.82	3.97
	01/03/97	4.35	4.27
	07/12/96	3.44	3.67
	01/15/98	4.19	4.38
	07/08/98	4.67	4.60

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to January 15, 1998, were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = milligrams per liter

## 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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

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 disposable 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 and is labeled as QA. 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 Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

***TOSCO (UNOCAL) SERVICE STATION#7004  
SAN LEANDRO, CA***

***MONITORING AND SAMPLING EVENT  
Of November 27, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-1 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 23.87 ft.  
 Depth to Water: 14.34 ft.  
9.53 xVF 0.17 = 1.62 x3 (case volume) = Estimated Purge Volume: 4.86 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: \_\_\_\_\_ ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1308 Weather Conditions: clear  
 Sample Time/Date: 1327 / 11-27-02 Water Color: tan cloudy Odor: No  
 Purging Flow Rate: - gpm. Sediment Description: light silt  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume:  gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (O/F)	D.O. (mg/L)	ORP (mV)
<u>1310</u>	<u>1.5</u>	<u>7.60</u>	<u>1045</u>	<u>23.1</u>		
<u>1313</u>	<u>3.0</u>	<u>7.55</u>	<u>1079</u>	<u>23.2</u>		
<u>1317</u>	<u>5.0</u>	<u>7.04</u>	<u>1079</u>	<u>23.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-2 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.06 ft.  
 Depth to Water: 14.95 ft.  
9.11 xVF 0.17 = 1.54 x3 (case volume) = Estimated Purge Volume: 4.62 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: \_\_\_\_\_ ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 12:45 Weather Conditions: Clear  
 Sample Time/Date: 1303 / 11-27-02 Water Color: Cloudy Odor: No  
 Purging Flow Rate: - gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1248</u>	<u>1.5</u>	<u>7.91</u>	<u>1055</u>	<u>21.3</u>		
<u>1252</u>	<u>3.0</u>	<u>7.18</u>	<u>1051</u>	<u>22.1</u>		
<u>1254</u>	<u>4.75</u>	<u>7.34</u>	<u>1044</u>	<u>21.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-3 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.38 ft.  
 Depth to Water: 14.85 ft.  
9.53 x VF 0.17 = 1.62 x3 (case volume) = Estimated Purge Volume: 4.86 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1451 Weather Conditions: Clear  
 Sample Time/Date: 1515 11-27-02 Water Color: clear Odor: YES  
 Purging Flow Rate: 2.0 - 2.5 gpm. Sediment Description: -  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1452</u>	<u>1.75</u>	<u>7.78</u>	<u>1217</u>	<u>22.1</u>		
<u>1453</u>	<u>3.5</u>	<u>7.19</u>	<u>1215</u>	<u>22.5</u>		
<u>1455</u>	<u>5.0</u>	<u>6.97</u>	<u>1218</u>	<u>23.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-4 Date Monitored: 11-27-02 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 25.34 ft.

Depth to Water: 13.62 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

11.72 xVF 0.17 = 1.99 x3 (case volume) = Estimated Purge Volume: 5.97 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1404 Weather Conditions: Clear  
 Sample Time/Date: 72.5 11-27-02 Water Color: Clear Odor: No  
 Purging Flow Rate: 14.17 gpm. Sediment Description: -  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1406</u>	<u>2.0</u>	<u>8.16</u>	<u>1074</u>	<u>22.7</u>		
<u>1406</u>	<u>4.0</u>	<u>7.60</u>	<u>1113</u>	<u>22.8</u>		
<u>1407</u>	<u>6.0</u>	<u>7.38</u>	<u>1120</u>	<u>22.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-5 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 25.80 ft.  
 Depth to Water: 15.03 ft.  
 $10.77 \times VF \ 0.17 = 1.83$  x3 (case volume) = Estimated Purge Volume: 5.49 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1434 Weather Conditions: clear  
 Sample Time/Date: 1443 / 11-27-02 Water Color: clear Odor: No  
 Purging Flow Rate: 2.0 gpm. Sediment Description: -  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (OF)	D.O. (mg/L)	ORP (mV)
<u>1435</u>	<u>1.75</u>	<u>7.80</u>	<u>1136</u>	<u>20.0</u>		
<u>1436</u>	<u>3.5</u>	<u>7.68</u>	<u>436</u>	<u>20.9</u>		
<u>1437</u>	<u>5.5</u>	<u>7.35</u>	<u>1143</u>	<u>21.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K Kelly

Well ID: MW-6 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 25.31 ft.  
 Depth to Water: 15.17 ft.  
10.14 xVF 0.17 = 1.72 x3 (case volume) = Estimated Purge Volume: 5.17 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer ✓  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1218 Weather Conditions: clear  
 Sample Time/Date: 1230 / 11-27-02 Water Color: \_\_\_\_\_ Odor: No  
 Purging Flow Rate: - gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1220</u>	<u>1.75</u>	<u>7.30</u>	<u>1270</u>	<u>21.3</u>		
<u>1223</u>	<u>3.5</u>	<u>7.06</u>	<u>1269</u>	<u>21.5</u>		
<u>1226</u>	<u>5.25</u>	<u>7.03</u>	<u>1271</u>	<u>21.5</u>		
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 11-27-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: RW-1 Date Monitored: 11-27-02 Well Condition: OK  
 Well Diameter: 6 in.  
 Total Depth: 26.41 ft.  
 Depth to Water: 14.66 ft.  
11.75 xVF 1.50 = 17.62 x3 (case volume) = Estimated Purge Volume: 52.87 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1509 Weather Conditions: Clear  
 Sample Time/Date: 1558 11-27-02 Water Color: \_\_\_\_\_ Odor: yes  
 Purging Flow Rate: 3.0-6.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1516</u>	<u>17.75</u>	<u>7.65</u>	<u>1126</u>	<u>20.7</u>	_____	_____
<u>1525</u>	<u>35.5</u>	<u>7.80</u>	<u>1127</u>	<u>21.1</u>	_____	_____
<u>1550</u>	<u>53.0</u>	<u>6.89</u>	<u>1086</u>	<u>22.2</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>3</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

2002-12-0040

Gettler-Ryan Inc., Chain-of-Custod

P.3  
9256003002  
st10nsite  
Dec 19 02 10:59a  
FILE NAME: P:\ENVIRO\X-CHANDUSTOY\STD-COC.DWG | Layout Top Model

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number	#7004	Laboratory Name	STL - PLEASANTON, CA
	Facility Address	15599 HESPERIAN BLVD., SAN LEANDRO, CA	Consultant	GETTLER-RYAN, INC. DEANNA L. HARDING
	Global ID	T0600101451 Project 180106.80	Address	6747 SIERRA CT., SUITE J, DUBLIN CA 94568
	Client Contact	MR. DAVID B. DEWITT	Phone	(925) 551-7555 Fax (925) 551-7899
	Phone	(925) 277-2384	Samples Collected by	<i>Kristina Kelly</i>

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HYDROCARBONS (BTEX) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
QA	1	W		11-27-02					X									
MW-1	3		H	1327					X									
MW-2	3		H	1303					X									
MW-3	3		H	1515					X									
MW-4	3		H	1417					X									
MW-5	3		H	1443					X									
MW-6	3		H	1230					X									
RW-1	3	✓	H	1558					X									

- OXYGENATES 8260
- 1 - MTBE
  - 2 - TBA
  - 3 - TAME
  - 4 - DIPE
  - 5 - ETBE
  - 6 - 1,2-DCA
  - 7 - EDB
  - 8 - ETHANOL

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
<i>Kristina Kelly</i>	<i>Gettler-Ryan</i>						
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N	
			<i>31</i>		12-03-02	1010	

**Gettler Ryan**

December 19, 2002

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180106.80

Project: Tosco #7004

Site: 15599 Hesperian Blvd.  
San Leandro, CA

RECEIVED  
12/19/02

12/19/02

GETTLER RYAN, INC.  
GENERAL CONTRACTORS

Dear Ms. Harding,

Attached is our report for your samples received on 12/03/2002 10:10

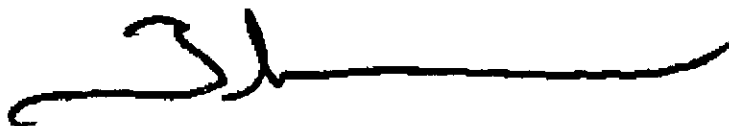
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/17/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	11/27/2002	Water	1
MW-1	11/27/2002 13:27	Water	2
MW-2	11/27/2002 13:03	Water	3
MW-3	11/27/2002 15:15	Water	4
MW-4	11/27/2002 14:17	Water	5
MW-5	11/27/2002 14:43	Water	6
MW-6	11/27/2002 12:30	Water	7
RW-1	11/27/2002 15:58	Water	8

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-12-0040 - 1
Sampled:	11/27/2002	Extracted:	12/10/2002 14:44
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/10/2002 14:44	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 14:44	
Toluene	0.69	0.50	ug/L	1.00	12/10/2002 14:44	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 14:44	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 14:44	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 14:44	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	85.2	76-114	%	1.00	12/10/2002 14:44	
Toluene-d8	96.5	88-110	%	1.00	12/10/2002 14:44	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2002-12-0040 - 2
Sampled:	11/27/2002 13:27	Extracted:	12/10/2002 18:04
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/10/2002 18:04	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 18:04	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 18:04	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 18:04	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 18:04	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 18:04	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	88.2	76-114	%	1.00	12/10/2002 18:04	
Toluene-d8	94.7	88-110	%	1.00	12/10/2002 18:04	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2002-12-0040 - 3
Sampled:	11/27/2002 13:03	Extracted:	12/10/2002 18:26
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/10/2002 18:26	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 18:26	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 18:26	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 18:26	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 18:26	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 18:26	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	86.0	76-114	%	1.00	12/10/2002 18:26	
Toluene-d8	96.0	88-110	%	1.00	12/10/2002 18:26	



**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.

San Leandro, CA

Prep(s): 5030B Test(s): 8260FAB  
 Sample ID: MW-3 Lab ID: 2002-12-0040 - 4  
 Sampled: 11/27/2002 15:15 Extracted: 12/10/2002 18:47  
 Matrix: Water QC Batch#: 2002/12/10-01.27  
 Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7600	1000	ug/L	20.00	12/10/2002 18:47	
Benzene	ND	10	ug/L	20.00	12/10/2002 18:47	
Toluene	ND	10	ug/L	20.00	12/10/2002 18:47	
Ethylbenzene	1200	10	ug/L	20.00	12/10/2002 18:47	
Total xylenes	ND	20	ug/L	20.00	12/10/2002 18:47	
Methyl tert-butyl ether (MTBE)	ND	40	ug/L	20.00	12/10/2002 18:47	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.7	76-114	%	20.00	12/10/2002 18:47	
Toluene-d8	95.8	88-110	%	20.00	12/10/2002 18:47	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2002-12-0040 - 5
Sampled:	11/27/2002 14:17	Extracted:	12/10/2002 19:09
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/10/2002 19:09	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 19:09	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 19:09	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 19:09	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 19:09	
Methyl tert-butyl ether (MTBE)	7.3	2.0	ug/L	1.00	12/10/2002 19:09	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	85.9	76-114	%	1.00	12/10/2002 19:09	
Toluene-d8	96.4	88-110	%	1.00	12/10/2002 19:09	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.

San Leandro, CA

Prep(s): 5030B Test(s): 8260FAB  
 Sample ID: MW-5 Lab ID: 2002-12-0040 - 6  
 Sampled: 11/27/2002 14:43 Extracted: 12/10/2002 19:30  
 Matrix: Water QC Batch#: 2002/12/10-01.27  
 Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	12/10/2002 19:30	
Benzene	ND	2.5	ug/L	5.00	12/10/2002 19:30	
Toluene	ND	2.5	ug/L	5.00	12/10/2002 19:30	
Ethylbenzene	ND	2.5	ug/L	5.00	12/10/2002 19:30	
Total xylenes	ND	5.0	ug/L	5.00	12/10/2002 19:30	
Methyl tert-butyl ether (MTBE)	330	10	ug/L	5.00	12/10/2002 19:30	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.1	76-114	%	5.00	12/10/2002 19:30	
Toluene-d8	98.8	88-110	%	5.00	12/10/2002 19:30	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2002-12-0040 - 7
Sampled:	11/27/2002 12:30	Extracted:	12/10/2002 19:52
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/10/2002 19:52	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 19:52	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 19:52	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 19:52	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 19:52	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 19:52	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.0	76-114	%	1.00	12/10/2002 19:52	
Toluene-d8	97.4	88-110	%	1.00	12/10/2002 19:52	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	RW-1	Lab ID:	2002-12-0040 - 8
Sampled:	11/27/2002 15:58	Extracted:	12/10/2002 20:13
Matrix:	Water	QC Batch#:	2002/12/10-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1800	50	ug/L	1.00	12/10/2002 20:13	
Benzene	0.91	0.50	ug/L	1.00	12/10/2002 20:13	
Toluene	0.82	0.50	ug/L	1.00	12/10/2002 20:13	
Ethylbenzene	31	0.50	ug/L	1.00	12/10/2002 20:13	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 20:13	
Methyl tert-butyl ether (MTBE)	170	2.0	ug/L	1.00	12/10/2002 20:13	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.5	76-114	%	1.00	12/10/2002 20:13	
Toluene-d8	95.1	88-110	%	1.00	12/10/2002 20:13	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2002/12/10-01.27-006

Water

Test(s): 8260FAB

QC Batch # 2002/12/10-01.27

Date Extracted: 12/10/2002 12:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/10/2002 12:54	
Benzene	ND	0.5	ug/L	12/10/2002 12:54	
Toluene	ND	0.5	ug/L	12/10/2002 12:54	
Ethylbenzene	ND	0.5	ug/L	12/10/2002 12:54	
Total xylenes	ND	1.0	ug/L	12/10/2002 12:54	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/10/2002 12:54	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	85.4	76-114	%	12/10/2002 12:54	
Toluene-d8	96.9	88-110	%	12/10/2002 12:54	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/12/10-01.27**

LCS 2002/12/10-01.27-004

Extracted: 12/10/2002

Analyzed: 12/10/2002 12:11

LCSD 2002/12/10-01.27-005

Extracted: 12/10/2002

Analyzed: 12/10/2002 12:37

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.1	26.0	25.0	100.4	104.0	3.5	69-129	20		
Toluene	24.4	25.0	25.0	97.6	100.0	2.4	70-130	20		
Methyl tert-butyl ether (MTBE)	26.0	29.1	25.0	104.0	116.4	11.3	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	446	454	500	89.2	90.8		76-114			
Toluene-d8	481	492	500	96.2	98.4		88-110			

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/03/2002 10:10

Site: 15599 Hesperian Blvd.  
San Leandro, CA

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**Legend and Notes**

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**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.



***TOSCO (UNOCAL) SERVICE STATION#7004  
SAN LEANDRO, CA***

***MONITORING AND SAMPLING EVENT  
Of December 19, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-1 Date Monitored: 12-19-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 23.87 ft.  
 Depth to Water: 13.60 ft.  
10.27 xVF 0.17 = 1.74 x3 (case volume) = Estimated Purge Volume: 5.23 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1438 Weather Conditions: Rainy  
 Sample Time/Date: 1448/12-19-02 Water Color: clear Odor: No  
 Purging Flow Rate: 1.75 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1439</u>	<u>1.75</u>	<u>7.31</u>	<u>5.59</u>	<u>20.2</u>		
<u>1440</u>	<u>3.5</u>	<u>7.14</u>	<u>5.50</u>	<u>21.4</u>		
<u>1441</u>	<u>5.25</u>	<u>7.09</u>	<u>5.50</u>	<u>21.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-2 Date Monitored: 12-19-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.06 ft.  
 Depth to Water: 14.10 ft.  
9.96 x VF 0.17 = 1.69 x3 (case volume) = Estimated Purge Volume: 5.07 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1352 Weather Conditions: Rainy  
 Sample Time/Date: 1403 112-19-02 Water Color: Clear Odor: 1  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water?  If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1352</u>	<u>1.75</u>	<u>8.44</u>	<u>128.7</u>	<u>17.3</u>		
<u>1355</u>	<u>3.5</u>	<u>7.21</u>	<u>735</u>	<u>21.2</u>		
<u>1357</u>	<u>5.25</u>	<u>7.19</u>	<u>819</u>	<u>21.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

### COMMENTS:

Add/Replaced Lock:  Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-3 Date Monitored: 12-19-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.38 ft.  
 Depth to Water: 13.83 ft.  
 $10.55 \times VF \ 0.17 = 1.79 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 5.38 \text{ gal.}$

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1526 Weather Conditions: Rainy  
 Sample Time/Date: 1535 12-19-02 Water Color: Clear Odor: YES  
 Purging Flow Rate: 1.75 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1528</u>	<u>1.75</u>	<u>7.22</u>	<u>5.90</u>	<u>18.5</u>	_____	_____
<u>1529</u>	<u>3.5</u>	<u>6.89</u>	<u>5.59</u>	<u>20.3</u>	_____	_____
<u>1530</u>	<u>5.5</u>	<u>6.86</u>	<u>5.63</u>	<u>20.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### COMMENTS:

\_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-4 Date Monitored: 12-19-02 Well Condition: OK

Well Diameter: 2 in.

Total Depth: 25.84 ft.

Depth to Water: 12.56 ft.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

12.78 x VF 0.17 = 2.17 x3 (case volume) = Estimated Purge Volume: 6.51 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1454 Weather Conditions: Rainy  
 Sample Time/Date: 1505 12-19-02 Water Color: clear Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1456</u>	<u>2.0</u>	<u>7.21</u>	<u>6.15</u>	<u>17.1</u>	_____	_____
<u>1458</u>	<u>4.5</u>	<u>7.05</u>	<u>5.56</u>	<u>20.2</u>	_____	_____
<u>1459</u>	<u>7.0</u>	<u>7.01</u>	<u>5.49</u>	<u>21.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: \_\_\_\_\_

Well ID: MW-5 Date Monitored: 12-19-02 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 25.80 ft.  
 Depth to Water: 13.75 ft.  
12.05 x VF 0.17 = 2.04 x3 (case volume) = Estimated Purge Volume: 6.14 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1512 Weather Conditions: Rainy  
 Sample Time/Date: 1522 12-19-02 Water Color: Clear Odor: No  
 Purging Flow Rate: 2.0 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1513</u>	<u>2.0</u>	<u>7.28</u>	<u>5.86</u>	<u>19.2</u>	_____	_____
<u>1514</u>	<u>4.0</u>	<u>7.23</u>	<u>5.57</u>	<u>21.0</u>	_____	_____
<u>1516</u>	<u>6.0</u>	<u>7.03</u>	<u>5.59</u>	<u>20.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8280)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: MW-6 Date Monitored: 12-19-02 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 25.31 ft.  
 Depth to Water: 13.88 ft.  
11.43

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF 0.17 = 1.94 x3 (case volume) = Estimated Purge Volume: 5.82 gal.

Purge Equipment:  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1245 Weather Conditions: Rainy  
 Sample Time/Date: 1304 / 12-19-02 Water Color: clear  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: cloudy No  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1253</u>	<u>2.0</u>	<u>6.98</u>	<u>1234</u>	<u>19.3</u>		
<u>1258</u>	<u>4.0</u>	<u>7.02</u>	<u>1224</u>	<u>20.5</u>		
<u>1304</u>	<u>6.0</u>	<u>7.14</u>	<u>1209</u>	<u>20.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 12-19-02 (inclusive)  
 City: San Leandro, CA Sampler: K. Kelly

Well ID: RW-1 Date Monitored: 12-19-02 Well Condition: OK

Well Diameter: 6 in.  
 Total Depth: 26.41 ft.  
 Depth to Water: 13.60 ft.  
12.81

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

xVF 1.50 = 19.21 x3 (case volume) = Estimated Purge Volume: 57.64 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer \_\_\_\_\_   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1600 Weather Conditions: Rainy  
 Sample Time/Date: 1643 12-19-02 Water Color: Clean Odor: YES  
 Purging Flow Rate: 20 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1610</u>	<u>19.25</u>	<u>7.45</u>	<u>5.93</u>	<u>18.5</u>	_____	_____
<u>1620</u>	<u>38.50</u>	<u>7.22</u>	<u>5.75</u>	<u>20.0</u>	_____	_____
<u>1630</u>	<u>58.0</u>	<u>7.65</u>	<u>5.66</u>	<u>20.1</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



P-3  
9256003002  
st1Onsite  
Jan 09 03 07:45p  
FILE NAME: P:\ENVIRO\X-CHAINCUSTODY\STD-COC.DWG | Layout Tab: Model

Tasco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number <u>#7004</u>	Laboratory Name <u>STL - PLEASANTON, CA</u>
	Facility Address <u>15599 HESPERIAN BLVD., SAN LEANDRO, CA</u>	Consultant <u>GETTLER-RYAN, INC.</u> <u>DEANNA L. HARDING</u>
	Global ID <u>T0600101451</u> Project <u>180106.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DEWITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
	Phone <u>(925) 277-2384</u>	Samples Collected by <u>Kristina Kelly</u>

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
1 QA	1	W	H	12/19/02				X										
2 MW-1	3			1448				X										
3 MW-2	3			1403				X										
4 MW-3	3			1535				X										
5 MW-4	3			1505				X										
6 MW-5	3			1522				X										
7 MW-6	3			1304				X										
8 RW-1	3	↓	↓	1643				X										

- OXYGENATES 8260
- 1 - MTBE
  - 2 - TBA
  - 3 - TAME
  - 4 - DIPE
  - 5 - ETBE
  - 6 - 1,2-DCA
  - 7 - EDB
  - 8 - ETHANOL

Relinquished By (Signature) <i>Kristina Kelly</i>	Organization <i>Gettler Ryan Inc.</i>	Date/Time <i>12/20/02 0104H</i>	Received By (Signature) <i>J</i>	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time <i>12-23-02</i>	Iced Y/N <i>1020</i>	

Gettler Ryan

January 09, 2003

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180106.80

Project: Tosco #7004

Site: 15599 Hesperian Blvd.  
San Leandro, CA

RECEIVED

JAN 09, 2003

GETTLER RYAN INC  
GENERAL CONTRACTOR

Dear Ms. Harding,

Attached is our report for your samples received on 12/23/2002 10:20

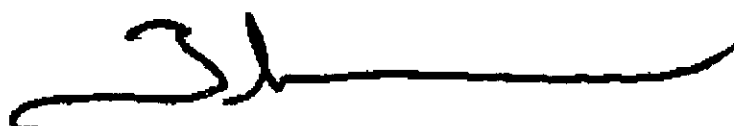
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 02/06/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	12/19/2002	Water	1
MW-1	12/19/2002 14:48	Water	2
MW-2	12/19/2002 14:03	Water	3
MW-3	12/19/2002 15:35	Water	4
MW-4	12/19/2002 15:05	Water	5
MW-5	12/19/2002 15:22	Water	6
MW-6	12/19/2002 13:04	Water	7
RW-1	12/19/2002 16:43	Water	8

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2002-12-0546 - 1
Sampled: 12/19/2002	Extracted: 12/30/2002 13:00
Matrix: Water	QC Batch#: 2002/12/30-01.62
Analysis Flag: .t ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2002 13:00	
Benzene	ND	0.50	ug/L	1.00	12/30/2002 13:00	
Toluene	0.52	0.50	ug/L	1.00	12/30/2002 13:00	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2002 13:00	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2002 13:00	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/30/2002 13:00	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	114.4	76-114	%	1.00	12/30/2002 13:00	
Toluene-d8	92.8	88-110	%	1.00	12/30/2002 13:00	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2002-12-0546 - 2
Sampled: 12/19/2002 14:48	Extracted: 12/30/2002 15:28
Matrix: Water	QC Batch#: 2002/12/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2002 15:28	
Benzene	ND	0.50	ug/L	1.00	12/30/2002 15:28	
Toluene	ND	0.50	ug/L	1.00	12/30/2002 15:28	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2002 15:28	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2002 15:28	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/30/2002 15:28	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	110.1	76-114	%	1.00	12/30/2002 15:28	
Toluene-d8	93.1	88-110	%	1.00	12/30/2002 15:28	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2002-12-0546 - 3
Sampled:	12/19/2002 14:03	Extracted:	12/31/2002 12:16
Matrix:	Water	QC Batch#:	2002/12/31-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/31/2002 12:16	
Benzene	ND	0.50	ug/L	1.00	12/31/2002 12:16	
Toluene	ND	0.50	ug/L	1.00	12/31/2002 12:16	
Ethylbenzene	ND	0.50	ug/L	1.00	12/31/2002 12:16	
Total xylenes	ND	1.0	ug/L	1.00	12/31/2002 12:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/31/2002 12:16	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	107.9	76-114	%	1.00	12/31/2002 12:16	
Toluene-d8	93.9	88-110	%	1.00	12/31/2002 12:16	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
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Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2002-12-0546 - 4
Sampled:	12/19/2002 15:35	Extracted:	12/31/2002 12:37
Matrix:	Water	QC Batch#:	2002/12/31-01.62
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6400	1000	ug/L	20.00	12/31/2002 12:37	
Benzene	ND	10	ug/L	20.00	12/31/2002 12:37	
Toluene	ND	10	ug/L	20.00	12/31/2002 12:37	
Ethylbenzene	810	10	ug/L	20.00	12/31/2002 12:37	
Total xylenes	ND	20	ug/L	20.00	12/31/2002 12:37	
Methyl tert-butyl ether (MTBE)	ND	40	ug/L	20.00	12/31/2002 12:37	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	101.2	76-114	%	20.00	12/31/2002 12:37	
Toluene-d8	91.8	88-110	%	20.00	12/31/2002 12:37	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
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Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2002-12-0546 - 5
Sampled: 12/19/2002 15:05	Extracted: 12/30/2002 17:34
Matrix: Water	QC Batch#: 2002/12/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2002 17:34	
Benzene	ND	0.50	ug/L	1.00	12/30/2002 17:34	
Toluene	ND	0.50	ug/L	1.00	12/30/2002 17:34	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2002 17:34	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2002 17:34	
Methyl tert-butyl ether (MTBE)	8.1	2.0	ug/L	1.00	12/30/2002 17:34	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	109.6	76-114	%	1.00	12/30/2002 17:34	
Toluene-d8	91.7	88-110	%	1.00	12/30/2002 17:34	



**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

 Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2002-12-0546 - 6
Sampled:	12/19/2002 15:22	Extracted:	12/31/2002 12:58
Matrix:	Water	QC Batch#:	2002/12/31-01.62
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	290	250	ug/L	5.00	12/31/2002 12:58	g
Benzene	ND	2.5	ug/L	5.00	12/31/2002 12:58	
Toluene	ND	2.5	ug/L	5.00	12/31/2002 12:58	
Ethylbenzene	ND	2.5	ug/L	5.00	12/31/2002 12:58	
Total xylenes	ND	5.0	ug/L	5.00	12/31/2002 12:58	
Methyl tert-butyl ether (MTBE)	320	10	ug/L	5.00	12/31/2002 12:58	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	108.2	76-114	%	5.00	12/31/2002 12:58	
Toluene-d8	96.9	88-110	%	5.00	12/31/2002 12:58	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.

San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2002-12-0546 - 7
Sampled:	12/19/2002 13:04	Extracted:	12/30/2002 18:16
Matrix:	Water	QC Batch#:	2002/12/30-01.62
Analysis Flag: .1 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2002 18:16	
Benzene	ND	0.50	ug/L	1.00	12/30/2002 18:16	
Toluene	ND	0.50	ug/L	1.00	12/30/2002 18:16	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2002 18:16	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2002 18:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/30/2002 18:16	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	114.9	76-114	%	1.00	12/30/2002 18:16	
Toluene-d8	97.6	88-110	%	1.00	12/30/2002 18:16	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: RW-1	Lab ID: 2002-12-0546 - 8
Sampled: 12/19/2002 16:43	Extracted: 12/30/2002 18:37
Matrix: Water	QC Batch#: 2002/12/30-01.62
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2900	500	ug/L	10.00	12/30/2002 18:37	
Benzene	ND	5.0	ug/L	10.00	12/30/2002 18:37	
Toluene	ND	5.0	ug/L	10.00	12/30/2002 18:37	
Ethylbenzene	50	5.0	ug/L	10.00	12/30/2002 18:37	
Total xylenes	ND	10	ug/L	10.00	12/30/2002 18:37	
Methyl tert-butyl ether (MTBE)	200	20	ug/L	10.00	12/30/2002 18:37	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	113.8	76-114	%	10.00	12/30/2002 18:37	
Toluene-d8	99.0	88-110	%	10.00	12/30/2002 18:37	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2002/12/30-01.62-039

Water

Test(s): 8260FAB

QC Batch # 2002/12/30-01.62

Date Extracted: 12/30/2002 12:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/30/2002 12:39	
Benzene	ND	0.5	ug/L	12/30/2002 12:39	
Toluene	ND	0.5	ug/L	12/30/2002 12:39	
Ethylbenzene	ND	0.5	ug/L	12/30/2002 12:39	
Total xylenes	ND	1.0	ug/L	12/30/2002 12:39	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/30/2002 12:39	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	111.1	76-114	%	12/30/2002 12:39	
Toluene-d8	98.0	88-110	%	12/30/2002 12:39	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B  
Method Blank  
MB: 2002/12/31-01.62-034

Water

Test(s): 8260FAB  
QC Batch # 2002/12/31-01.62  
Date Extracted: 12/31/2002 11:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/31/2002 11:34	
Benzene	ND	0.5	ug/L	12/31/2002 11:34	
Toluene	ND	0.5	ug/L	12/31/2002 11:34	
Ethylbenzene	ND	0.5	ug/L	12/31/2002 11:34	
Total xylenes	ND	1.0	ug/L	12/31/2002 11:34	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/31/2002 11:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	110.4	76-114	%	12/31/2002 11:34	
Toluene-d8	97.9	88-110	%	12/31/2002 11:34	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/12/30-01.62

LCS 2002/12/30-01.62-057

Extracted: 12/30/2002

Analyzed: 12/30/2002 11:57

LCSD 2002/12/30-01.62-018

Extracted: 12/30/2002

Analyzed: 12/30/2002 12:18

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.5	24.2	25.0	94.0	96.8	2.9	69-129	20		
Toluene	23.5	24.3	25.0	94.0	97.2	3.3	70-130	20		
Methyl tert-butyl ether (MTBE)	26.8	28.1	25.0	107.2	112.4	4.7	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	550	565	500	110.0	113.0		76-114			
Toluene-d8	494	492	500	98.8	98.4		88-110			

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
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Phone: (925) 551-7444 Fax: (925) 551-7899  
Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Laboratory Control Spike**

**Water**

**QC Batch # 2002/12/31-01.62**

LCS 2002/12/31-01.62-052

Extracted: 12/31/2002

Analyzed: 12/31/2002 10:52

LCSD 2002/12/31-01.62-013

Extracted: 12/31/2002

Analyzed: 12/31/2002 11:13

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	22.6	22.6	25.0	90.4	90.4	0.0	69-129	20		
Toluene	23.1	23.2	25.0	92.4	92.8	0.4	70-130	20		
Methyl tert-butyl ether (MTBE)	27.9	27.2	25.0	111.6	108.8	2.5	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	553	565	500	110.6	113.0		76-114			
Toluene-d8	479	479	500	95.8	95.8		88-110			

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180106.80  
Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2002/12/30-01.62**

MW-1 >> MS

Lab ID: 2002-12-0546 - 002

MS: 2002/12/30-01.62-049

Extracted: 12/30/2002

Analyzed: 12/30/2002 15:49

Dilution: 1.00

MSD: 2002/12/30-01.62-010

Extracted: 12/30/2002

Analyzed: 12/30/2002 16:10

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level	Recovery			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	23.2	22.6	ND	25.0	92.8	90.4	2.6	69-129	20		
Toluene	23.0	22.4	ND	25.0	92.0	89.6	2.6	70-130	20		
Methyl tert-butyl ether	27.6	26.6	ND	25.0	110.4	106.4	3.7	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	551	539		500	110.1	107.9		76-114			
Toluene-d8	473	466		500	94.6	93.3		88-110			



**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 180106.80

Tosco #7004

Received: 12/23/2002 10:20

Site: 15599 Hesperian Blvd.  
San Leandro, CA

---

**Legend and Notes**

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**Report Comment**

Toluene was detected in the trip blank at a concentration above the reporting limit. The laboratory has determined that this is due to trace contamination in this set of blanks when received from the vendor, and was not caused field contamination.

**Sample Comment**

Lab ID: 2002-12-0546-1

t=Sample showed high surrogate recovery in the original analysis and was reanalyzed past hold time to confirm results obtained in the first run.

Lab ID: 2002-12-0546-7

/

t=Sample showed high surrogate recovery in the original analysis and was reanalyzed past hold time to confirm results obtained in the first run.

**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

***TOSCO (UNOCAL) SERVICE STATION#7004  
SAN LEANDRO, CA***

***QUARTERLY MONITORING AND SAMPLING EVENT  
Of January 24, 2003***



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 1-24-03 (inclusive)  
 City: San Leandro, CA Sampler: S. Herron

Well ID: MW-1 Date Monitored: 1-24-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.06 ft. 23.87  
 Depth to Water: 12.64 ft. 12.03  
~~11.42~~ xVF .17 = ~~1.94~~ x3 (case volume) = Estimated Purge Volume: ~~5.84~~ 6.03 gal.  
11.84 2.01

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

### Purge Equipment:

- Disposable Bailer \_\_\_\_\_
- Stainless Steel Bailer \_\_\_\_\_
- Stack Pump \_\_\_\_\_
- Suction Pump
- Grundfos \_\_\_\_\_
- Other: \_\_\_\_\_

### Sampling Equipment:

- Disposable Bailer
- Pressure Bailer \_\_\_\_\_
- Discrete Bailer \_\_\_\_\_
- Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 1438 Weather Conditions: Clear  
 Sample Time/Date: 1445 / 1-24-03 Water Color: Clear Odor: NO  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1439</u>	<u>2</u>	<u>7.27</u>	<u>1038</u>	<u>21.6</u>		
<u>1440</u>	<u>4</u>	<u>7.16</u>	<u>1021</u>	<u>21.5</u>		
<u>1441</u>	<u>6</u>	<u>7.19</u>	<u>1020</u>	<u>20.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

### COMMENTS:

Add/Replaced Lock:  Add/Replaced Plug:  Size: 2 in.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 1-24-03 (inclusive)  
 City: San Leandro, CA Sampler: S. Herron

Well ID: MW-2 Date Monitored: 1-24-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 23.87 ft. 24.06  
 Depth to Water: 12.03 ft. 12.04  
~~11.84~~ xVF .17 = 2.01 x3 (case volume) = Estimated Purge Volume: ~~6.03~~ 5.84 gal.  
11.42 1.94

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1325 Weather Conditions: Clean  
 Sample Time/Date: 1345 / 1-24-03 Water Color: Clean Odor: NO  
 Purging Flow Rate: 1 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1327</u>	<u>2</u>	<u>7.20</u>	<u>956</u>	<u>24.4</u>	_____	_____
<u>1329</u>	<u>4</u>	<u>7.06</u>	<u>926</u>	<u>24.1</u>	_____	_____
<u>1331</u>	<u>6</u>	<u>7.09</u>	<u>928</u>	<u>23.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 1-24-03 (inclusive)  
 City: San Leandro, CA Sampler: S. HERRON

Well ID: MW-3 Date Monitored: 1-24-03 Well Condition: OK  
 Well Diameter: (2) in.  
 Total Depth: 24.38 ft.  
 Depth to Water: 12.52 ft.  
11.86 xVF .17 = 2.01 x3 (case volume) = Estimated Purge Volume: 6.04 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1552 Weather Conditions: clear  
 Sample Time/Date: 1620/1-24-03 Water Color: Clear Odor: YES  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (D/F)	D.O. (mg/L)	ORP (mV)
<u>1553</u>	<u>2</u>	<u>6.96</u>	<u>1215</u>	<u>18.5</u>		
<u>1554</u>	<u>4</u>	<u>6.89</u>	<u>1197</u>	<u>20.6</u>		
<u>1555</u>	<u>6</u>	<u>6.93</u>	<u>1205</u>	<u>20.1</u>		
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004  
 Site Address: 15599 Hesperian Blvd.  
 City: San Leandro, CA

Job Number: 180106  
 Event Date: 1-24-03 (inclusive)  
 Sampler: J. Herron

Well ID: MW-4 Date Monitored: 1-24-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 25.34 ft.  
 Depth to Water: 11.26 ft.  
14.08 xVF .17 = 2.39 x3 (case volume) = Estimated Purge Volume: 7.18 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump  \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1500 Weather Conditions: clear  
 Sample Time/Date: 1515 1-24-03 Water Color: clear Odor: NO  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1501</u>	<u>2.5</u>	<u>7.22</u>	<u>1095</u>	<u>19.6</u>	_____	_____
<u>1502</u>	<u>5</u>	<u>7.14</u>	<u>1086</u>	<u>21.1</u>	_____	_____
<u>1503</u>	<u>7.5</u>	<u>7.10</u>	<u>1096</u>	<u>21.6</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004  
 Site Address: 15599 Hesperian Blvd.  
 City: San Leandro, CA

Job Number: 180106  
 Event Date: 1-24-03 (inclusive)  
 Sampler: S. Hearn

Well ID: MW-5  
 Well Diameter: (2) in.  
 Total Depth: 25.80 ft.  
 Depth to Water: 12.68 ft.  
13.12

Date Monitored: 1-24-03 Well Condition: OK

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF .17 = 2.23 x3 (case volume) = Estimated Purge Volume: 6.69 gal.

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1521 Weather Conditions: clean  
 Sample Time/Date: 1545 / 1-24-03 Water Color: clean Odor: NO  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1522</u>	<u>2</u>	<u>7.17</u>	<u>1051</u>	<u>19.9</u>		
<u>1523</u>	<u>4</u>	<u>7.11</u>	<u>1081</u>	<u>20.0</u>		
<u>1524</u>	<u>6.5</u>	<u>7.26</u>	<u>1092</u>	<u>20.9</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ Size: 2"



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004  
 Site Address: 15599 Hesperian Blvd.  
 City: San Leandro, CA

Job Number: 180106  
 Event Date: 1-24-03 (inclusive)  
 Sampler: S. Heaton

Well ID: MW-6  
 Well Diameter: 2 in.  
 Total Depth: 25.31 ft.  
 Depth to Water: 12.91 ft.  
12.40

Date Monitored: 1-24-03 Well Condition: OK

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

1.17 x VF = 2.10 x3 (case volume) = Estimated Purge Volume: 6.32 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump ✓  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1405 Weather Conditions: clear  
 Sample Time/Date: 1415 1-24-03 Water Color: clear Odor: no  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°C/°F)	D.O. (mg/L)	ORP (mV)
<u>1406</u>	<u>2</u>	<u>7.12</u>	<u>1747</u>	<u>23.6</u>		
<u>1407</u>	<u>4</u>	<u>7.05</u>	<u>1231</u>	<u>23.0</u>		
<u>1408</u>	<u>6</u>	<u>7.18</u>	<u>1209</u>	<u>22.7</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #7004 Job Number: 180106  
 Site Address: 15599 Hesperian Blvd. Event Date: 1-24-03 (inclusive)  
 City: San Leandro, CA Sampler: S. Herran

Well ID: RW-1 Date Monitored: 1-24-03 Well Condition: OK  
 Well Diameter: 6 in.  
 Total Depth: 26.41 ft.  
 Depth to Water: 12.31 ft.  
14.10 x VF 1.50 = 21.15 x3 (case volume) = Estimated Purge Volume: 63.45 gal.

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Purge Equipment:  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump   
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 16:15 Weather Conditions: clean  
 Sample Time/Date: 1710 1-24-03 Water Color: clean Odor: no  
 Purging Flow Rate: 2.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>16:23</u>	<u>20</u>	<u>7.21</u>	<u>1060</u>	<u>18.1</u>	_____	_____
<u>16:41</u>	<u>40</u>	<u>7.10</u>	<u>1024</u>	<u>17.6</u>	_____	_____
<u>16:51</u>	<u>60</u>	<u>6.98</u>	<u>1096</u>	<u>17.4</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>3</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number <u>#7004</u>	Laboratory Name <u>STL - PLEASANTON, CA</u>
	Facility Address <u>15599 HESPERIAN BLVD., SAN LEANDRO, CA</u>	Consultant <u>GETTLER-RYAN, INC. DEANNA L. HARDING</u>
	Global ID <u>T0600101451</u> Project <u>180106.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DEWITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
	Phone <u>(925) 277-2384</u>	Samples Collected by <u>J. Herron</u>

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water C = Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/BTEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/BTEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 5520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	Remarks
					QA	1	W	H	1-24-03					X				
MW-1	3	W	H	1-24-03 1445					X									
MW-2	3	W	H	1345					X									
MW-3	3	W	H	1620					X									
MW-4	3	W	H	1515					X									
MW-5	3	W	H	1545					X									
MW-6	3	W	H	1415					X									
MW-1	3	W	H	1710					X									

- OXYGENATES 8260
- 1 - MTBE
  - 2 - TBA
  - 3 - TAME
  - 4 - DIPE
  - 5 - ETBE
  - 6 - 1,2-DCA
  - 7 - EDB
  - 8 - ETHANOL

Relinquished By (Signature) <i>[Signature]</i>	Organization <i>Gettler-Ryan</i>	Date/Time <i>1-24-03</i>	Received By (Signature) <i>[Signature]</i>	Organization <i>G-R</i>	Date/Time <i>1/24/03</i>	Iced <input checked="" type="checkbox"/> Y/N	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 72 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <i>[Signature]</i>	Organization <i>G-R</i>	Date/Time <i>1/24/03</i>	Received By (Signature) <i>[Signature]</i>	Organization <i>STL-IF</i>	Date/Time <i>1/27/03</i>	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Date/Time	Iced Y/N		

Gettler Ryan

February 12, 2003

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180106.80

Project: Tosco #7004

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Dear Ms. Harding,

Attached is our report for your samples received on 01/27/2003 16:55

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/13/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	01/24/2003	Water	1
MW-1	01/24/2003 14:45	Water	2
MW-2	01/24/2003 13:45	Water	3
MW-3	01/24/2003 16:20	Water	4
MW-4	01/24/2003 15:15	Water	5
MW-5	01/24/2003 15:45	Water	6
MW-6	01/24/2003 14:15	Water	7
RW-1	01/24/2003 17:10	Water	8

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899  
Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: QA	Lab ID: 2003-01-0499 - 1
Sampled: 01/24/2003	Extracted: 2/3/2003 11:19
Matrix: Water	QC Batch#: 2003/02/03-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/03/2003 11:19	
Benzene	ND	0.50	ug/L	1.00	02/03/2003 11:19	
Toluene	ND	0.50	ug/L	1.00	02/03/2003 11:19	
Ethylbenzene	ND	0.50	ug/L	1.00	02/03/2003 11:19	
Total xylenes	ND	1.0	ug/L	1.00	02/03/2003 11:19	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/03/2003 11:19	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	103.7	76-114	%	1.00	02/03/2003 11:19	
Toluene-d8	98.0	88-110	%	1.00	02/03/2003 11:19	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2003-01-0499 -2
Sampled: 01/24/2003 14:45	Extracted: 2/4/2003 13:01
Matrix: Water	QC Batch#: 2003/02/04-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/04/2003 13:01	
Benzene	ND	0.50	ug/L	1.00	02/04/2003 13:01	
Toluene	ND	0.50	ug/L	1.00	02/04/2003 13:01	
Ethylbenzene	ND	0.50	ug/L	1.00	02/04/2003 13:01	
Total xylenes	ND	1.0	ug/L	1.00	02/04/2003 13:01	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/04/2003 13:01	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	99.0	76-114	%	1.00	02/04/2003 13:01	
Toluene-d8	99.4	88-110	%	1.00	02/04/2003 13:01	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-01-0499 - 3
Sampled:	01/24/2003 13:45	Extracted:	2/3/2003 16:44
Matrix:	Water	QC Batch#:	2003/02/03-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/03/2003 16:44	
Benzene	ND	0.50	ug/L	1.00	02/03/2003 16:44	
Toluene	ND	0.50	ug/L	1.00	02/03/2003 16:44	
Ethylbenzene	ND	0.50	ug/L	1.00	02/03/2003 16:44	
Total xylenes	ND	1.0	ug/L	1.00	02/03/2003 16:44	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/03/2003 16:44	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	105.8	76-114	%	1.00	02/03/2003 16:44	
Toluene-d8	98.7	88-110	%	1.00	02/03/2003 16:44	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.

San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-01-0499 - 4
Sampled:	01/24/2003 16:20	Extracted:	2/3/2003 17:06
Matrix:	Water	QC Batch#:	2003/02/03-01.27
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6600	2500	ug/L	50.00	02/03/2003 17:06	
Benzene	ND	25	ug/L	50.00	02/03/2003 17:06	
Toluene	ND	25	ug/L	50.00	02/03/2003 17:06	
Ethylbenzene	930	25	ug/L	50.00	02/03/2003 17:06	
Total xylenes	ND	50	ug/L	50.00	02/03/2003 17:06	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	50.00	02/03/2003 17:06	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	104.1	76-114	%	50.00	02/03/2003 17:06	
Toluene-d8	97.9	88-110	%	50.00	02/03/2003 17:06	



**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-01-0499-5
Sampled:	01/24/2003 15:15	Extracted:	2/3/2003 17:27
Matrix:	Water	QC Batch#:	2003/02/03-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/03/2003 17:27	
Benzene	ND	0.50	ug/L	1.00	02/03/2003 17:27	
Toluene	ND	0.50	ug/L	1.00	02/03/2003 17:27	
Ethylbenzene	ND	0.50	ug/L	1.00	02/03/2003 17:27	
Total xylenes	ND	1.0	ug/L	1.00	02/03/2003 17:27	
Methyl tert-butyl ether (MTBE)	8.4	2.0	ug/L	1.00	02/03/2003 17:27	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	103.8	76-114	%	1.00	02/03/2003 17:27	
Toluene-d8	95.0	88-110	%	1.00	02/03/2003 17:27	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.

San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2003-01-0499 - 6
Sampled:	01/24/2003 15:45	Extracted:	2/4/2003 13:22
Matrix:	Water	QC Batch#:	2003/02/04-01.27
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	02/04/2003 13:22	
Benzene	ND	2.5	ug/L	5.00	02/04/2003 13:22	
Toluene	ND	2.5	ug/L	5.00	02/04/2003 13:22	
Ethylbenzene	ND	2.5	ug/L	5.00	02/04/2003 13:22	
Total xylenes	ND	5.0	ug/L	5.00	02/04/2003 13:22	
Methyl tert-butyl ether (MTBE)	200	10	ug/L	5.00	02/04/2003 13:22	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	97.2	76-114	%	5.00	02/04/2003 13:22	
Toluene-d8	100.2	88-110	%	5.00	02/04/2003 13:22	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
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Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-6	Lab ID:	2003-01-0499-7
Sampled:	01/24/2003 14:15	Extracted:	2/3/2003 18:10
Matrix:	Water	QC Batch#:	2003/02/03-01-27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/03/2003 18:10	
Benzene	ND	0.50	ug/L	1.00	02/03/2003 18:10	
Toluene	ND	0.50	ug/L	1.00	02/03/2003 18:10	
Ethylbenzene	ND	0.50	ug/L	1.00	02/03/2003 18:10	
Total xylenes	ND	1.0	ug/L	1.00	02/03/2003 18:10	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/03/2003 18:10	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	108.6	76-114	%	1.00	02/03/2003 18:10	
Toluene-d8	97.1	88-110	%	1.00	02/03/2003 18:10	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	RW-1	Lab ID:	2003-01-0499 - 8
Sampled:	01/24/2003 17:10	Extracted:	2/3/2003 18:32
Matrix:	Water	QC Batch#:	2003/02/03-01.27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1800	50	ug/L	1.00	02/03/2003 18:32	
Benzene	0.88	0.50	ug/L	1.00	02/03/2003 18:32	
Toluene	0.69	0.50	ug/L	1.00	02/03/2003 18:32	
Ethylbenzene	29	0.50	ug/L	1.00	02/03/2003 18:32	
Total xylenes	ND	1.0	ug/L	1.00	02/03/2003 18:32	
Methyl tert-butyl ether (MTBE)	140	2.0	ug/L	1.00	02/03/2003 18:32	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	107.8	76-114	%	1.00	02/03/2003 18:32	
Toluene-d8	99.9	88-110	%	1.00	02/03/2003 18:32	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/02/03-01.27-005

Water

Test(s): 8260FAB

QC Batch # 2003/02/03-01.27

Date Extracted: 02/03/2003 10:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/03/2003 10:16	
Benzene	ND	0.5	ug/L	02/03/2003 10:16	
Toluene	ND	0.5	ug/L	02/03/2003 10:16	
Ethylbenzene	ND	0.5	ug/L	02/03/2003 10:16	
Total xylenes	ND	1.0	ug/L	02/03/2003 10:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/03/2003 10:16	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.1	76-114	%	02/03/2003 10:16	
Toluene-d8	98.0	88-110	%	02/03/2003 10:16	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/02/04-01.27-006

Water

Test(s): 8260FAB

QC Batch # 2003/02/04-01.27

Date Extracted: 02/04/2003 10:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/04/2003 10:51	
Benzene	ND	0.5	ug/L	02/04/2003 10:51	
Toluene	ND	0.5	ug/L	02/04/2003 10:51	
Ethylbenzene	ND	0.5	ug/L	02/04/2003 10:51	
Total xylenes	ND	1.0	ug/L	02/04/2003 10:51	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/04/2003 10:51	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	104.0	76-114	%	02/04/2003 10:51	
Toluene-d8	96.0	88-110	%	02/04/2003 10:51	

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
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Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

Batch QC Report									
Prep(s): 5030B							Test(s): 8260FAB		
Laboratory Control Spike				Water			QC Batch # 2003/02/03-01.27		
LCS	2003/02/03-01.27-003			Extracted: 02/03/2003			Analyzed: 02/03/2003 09:24		
LCSD	2003/02/03-01.27-004			Extracted: 02/03/2003			Analyzed: 02/03/2003 09:54		

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.4	22.8	25.0	85.6	91.2	6.3	69-129	20		
Toluene	22.7	23.7	25.0	90.8	94.8	4.3	70-130	20		
Methyl tert-butyl ether (MTBE)	24.7	26.6	25.0	98.8	106.4	7.4	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	513	502	500	102.6	100.4		76-114			
Toluene-d8	476	506	500	95.2	101.2		88-110			

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Deanna Harding

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Dublin, CA 94568

Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80

Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/02/04-01.27**

LCS 2003/02/04-01.27-003

Extracted: 02/04/2003

Analyzed: 02/04/2003 10:05

LCSD 2003/02/04-01.27-004

Extracted: 02/04/2003

Analyzed: 02/04/2003 10:29

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.8	24.4	25.0	99.2	97.6	1.6	65-165	20		
Benzene	20.9	22.6	25.0	83.6	90.4	7.8	69-129	20		
Toluene	22.2	23.6	25.0	88.8	94.4	6.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	519	489	500	103.8	97.8		76-114			
Toluene-d8	501	500	500	100.2	100.0		88-110			



**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180106.80  
Tosco #7004

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2003/02/03-01.27**

MW-1 >> MS

Lab ID: 2003-01-0499 - 002

MS: 2003/02/03-01.27-020

Extracted: 02/03/2003

Analyzed: 02/03/2003 16:01

Dilution: 1.00

MSD: 2003/02/03-01.27-021

Extracted: 02/03/2003

Analyzed: 02/03/2003 16:23

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	19.6	22.4	ND	25.0	78.4	89.6	13.3	69-129	20		
Toluene	20.4	23.4	ND	25.0	81.6	93.6	13.7	70-130	20		
Methyl tert-butyl ether	22.0	25.7	ND	25.0	88.0	102.8	15.5	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	522	529		500	104.4	105.9		76-114			
Toluene-d8	494	481		500	98.8	96.1		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

02/05/2003 14:04

**Gas/BTEX Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Deanna Harding

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7444 Fax: (925) 551-7899  
Project: 180106.80  
Tosco #7004

**Alameda County**

**APR 11 2003**

**Environmental Health**

Received: 01/27/2003 16:55

Site: 15599 Hesperian Blvd.  
San Leandro, CA

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**Legend and Notes**

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**Analysis Flag**

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Reporting limits were raised due to high level of analyte present in the sample.