



# GETTLER-RYAN INC.

## TRANSMITTAL

Alameda County

January 8, 2003

JAN 28 2003

G-R #180264

### Environmental Health

TO: Mr. David B. De Witt  
Phillips 66 Company  
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: Tosco (76) Service Station  
#0018  
6201 Claremont Avenue  
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 3, 2003	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of November 29, 2002

### 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 *January 22, 2003*, this report will be distributed to the following:

cc: Mr. Don Huang, Alameda County Health Care Service Division, 1131 Harbor Bay Pkwy., Ste. 250,  
Alameda, CA 94502

Enclosure



# GETTLER-RYAN INC.

January 3, 2003  
G-R Job #180264

Mr. David B. De Witt  
Phillips 66 Company  
2000 Crow Canyon Place, Suite 400  
San Ramon, California 94583

**RE: Fourth Quarter Event of November 29, 2002**  
Groundwater Monitoring & Sampling Report  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

Dear Mr. De Witt:


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

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

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

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

  
Deanna L. Harding  
Project Coordinator

  
Robert C. Mallory  
Registered Geologist No. 7285

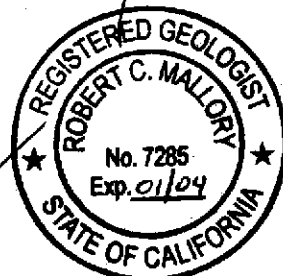


Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and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

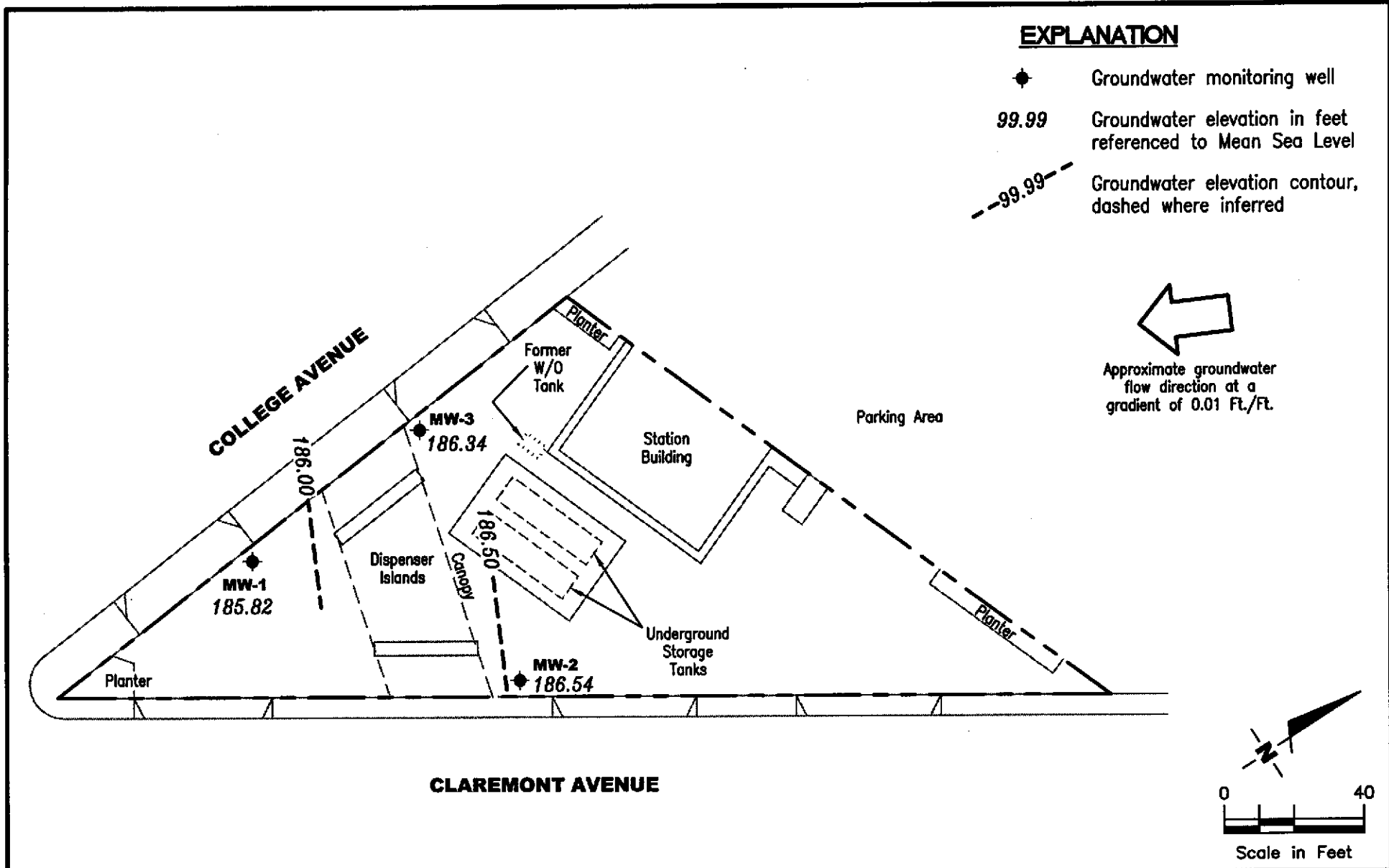
0018-qml

**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- 99.99--- Groundwater elevation contour, dashed where inferred



Approximate groundwater flow direction at a gradient of 0.01 Ft./Ft.



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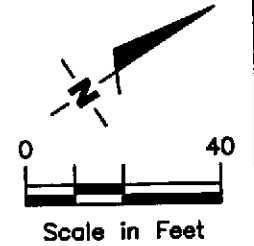
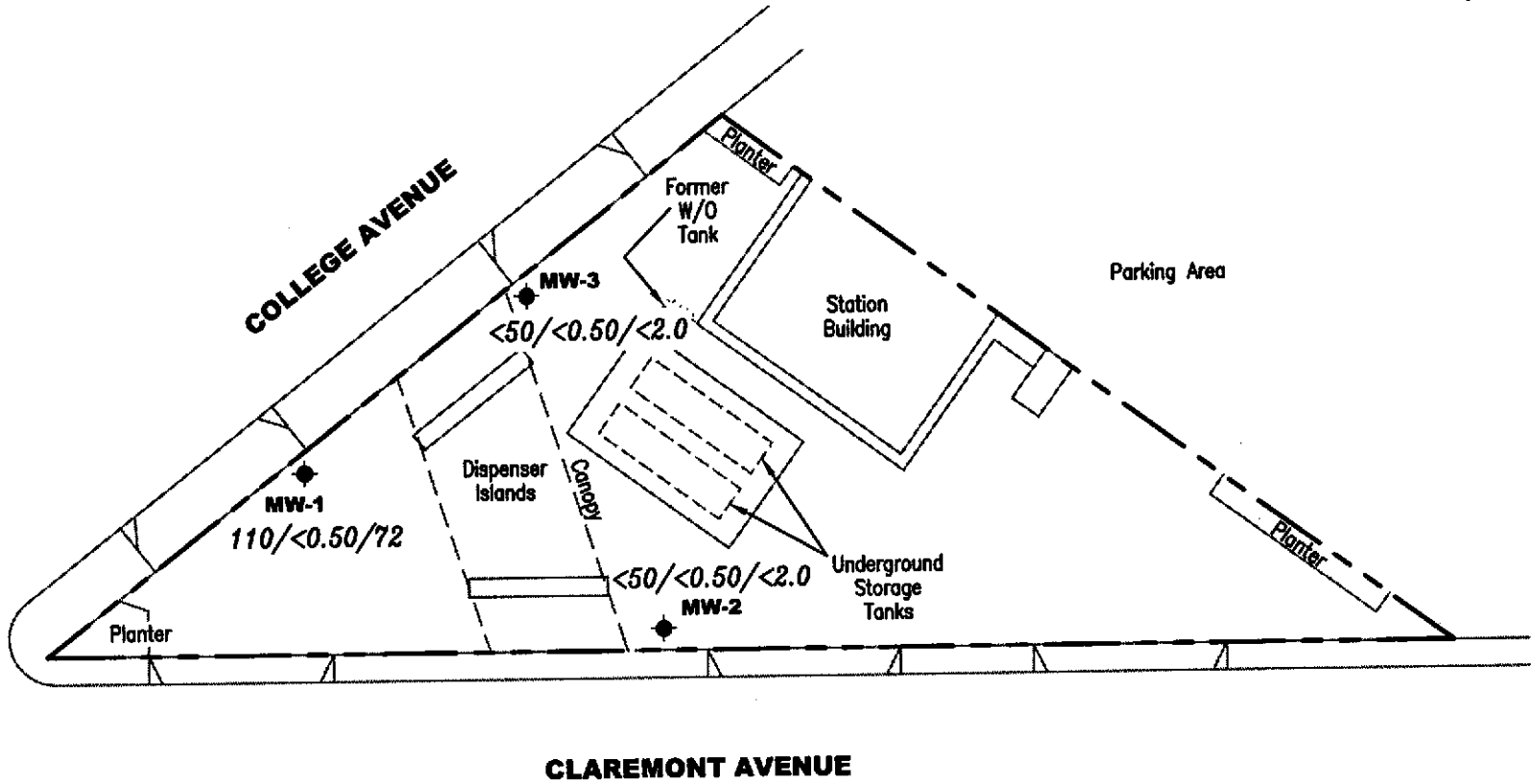
**POTENTIOMETRIC MAP**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER 180264	REVIEWED BY	DATE November 29, 2002	REVISED DATE
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**EXPLANATION**

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



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**CONCENTRATION MAP**  
 Tosco (76) Service Station #0018  
 6201 Claremont Avenue  
 Oakland, California

FIGURE  
**2**

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>										
208.15	08/24/00	18.55	10.0-30.0	189.60	120 <sup>1</sup>	0.67	ND	0.86	1.4	54/54 <sup>2</sup>
	11/16/00	20.30		187.85	169 <sup>3</sup>	ND	1.20	1.74	0.629	68.6/97.7 <sup>2</sup>
	02/09/01	20.16		187.99	330 <sup>3</sup>	1.3	ND	1.0	4.6	140/150 <sup>2</sup>
	05/11/01	17.68		190.47	1,250 <sup>3</sup>	ND <sup>4</sup>	ND <sup>4</sup>	ND <sup>4</sup>	ND <sup>4</sup>	145/122 <sup>2</sup>
	08/10/01	20.38		187.77	580 <sup>3</sup>	<0.50	<0.50	<0.50	<0.50	110/150 <sup>2</sup>
	11/07/01	22.68		185.47	250 <sup>3</sup>	<0.50	1.5	<0.50	<0.50	120/100 <sup>2</sup>
	02/06/02	16.20		191.95	790	<2.5	12	8.8	<2.5	90/72 <sup>2</sup>
	05/08/02	17.54		190.61	890 <sup>3</sup>	<2.5	<2.5	<2.5	<2.5	78/81 <sup>2</sup>
	08/09/02 <sup>5</sup>	20.21		187.94	450 <sup>6</sup>	<0.50	<0.50	<0.50	<1.0	100
	11/29/02 <sup>5</sup>	22.33		185.82	110	<0.50	<0.50	<0.50	<1.0	72
<b>MW-2</b>										
210.27	08/24/00	19.69	10.0-30.0	190.58	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	11/16/00	21.61		188.66	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	02/09/01	21.52		188.75	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	05/11/01	18.76		191.51	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	08/10/01	21.65		188.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 <sup>2</sup>
	11/07/01	24.25		186.02	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 <sup>2</sup>
	02/06/02	18.22		192.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	18.63		191.64	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>5</sup>	21.53		188.74	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	23.73		186.54	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>MW-3</b>										
208.98	08/24/00	18.68	10.0-30.0	190.30	ND	ND	ND	ND	ND	4.7/2.3 <sup>2</sup>
	11/16/00	20.56		188.42	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	02/09/01	20.45		188.53	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	05/11/01	17.75		191.23	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	08/10/01	20.70		188.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 <sup>2</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, 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	11/07/01	23.02	10.0-30.0	185.96	<50	<0.50	<0.50	<0.50	<0.50	<5.0/1.5 <sup>2</sup>
(cont)	02/06/02	17.19		191.79	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	17.59		191.39	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>5</sup>	20.48		188.50	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	22.64		186.34	<50	<0.50	<0.50	<0.50	<1.0	<2.0
<b>Trip Blank</b>										
TB-LB	08/24/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/16/00	--	--	--	ND	ND	ND	ND	ND	ND
	02/09/01	--	--	--	ND	ND	ND	ND	ND	ND
	05/11/01	--	--	--	ND	ND	ND	ND	ND	ND
	08/10/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/07/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/06/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	08/09/02 <sup>5</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 <sup>5</sup>	--	--	--	<50	<0.50	0.88	<0.50	<1.0	<2.0

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

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**EXPLANATIONS:**

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

S.I. = Screen Interval

(ft. bgs) = Feet Below Ground Surface

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations have been surveyed relative to msl; per the city of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

<sup>1</sup> Laboratory report indicates gasoline C6-C12.

<sup>2</sup> MTBE by EPA Method 8260.

<sup>3</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>4</sup> Detection limit raised. Refer to analytical reports.

<sup>5</sup> TPH-G, BTEX and MTBE by EPA Method 8260.

<sup>6</sup> Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/24/00	ND	ND	54	ND	ND	ND	--	--
	11/16/00	ND	ND	97.7	ND	ND	ND	--	--
	02/09/01	ND	ND	150	ND	ND	ND	ND	ND
	05/11/01	ND	ND	122	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	150	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	100	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
	05/08/02	<500	<100	81	<2.0	<2.0	<2.0	<2.0	<2.0
	08/09/02	<500	<100	100	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	08/24/00	ND	ND	ND	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/02	--	--	<2.0	--	--	--	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--
MW-3	08/24/00	ND	ND	2.3	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	1.5	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/02	--	--	<2.0	--	--	--	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--



**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Tosco (76) Service Station #0018  
6201 Claremont Avenue  
Oakland, 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  
ND = Not Detected  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## 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.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0018 Job Number: 180264  
 Site Address: 6201 Claremont Blvd. Event Date: 11-29-02 (inclusive)  
 City: Oakland, CA Sampler: Joe

Well ID: MW-1 Date Monitored: 11-29-02 Well Condition: O.K.  
 Well Diameter: 2 in.  
 Total Depth: 30.02 ft.  
 Depth to Water: 22.33 ft.  
 Volume Factor (VF) table:  

3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

 xVF 0.17 = 1.31 x3 (case volume) = Estimated Purge Volume: 4 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: 0 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): 1530 Weather Conditions: Clear  
 Sample Time/Date: 552, 11-29-02 Water Color: clear Odor: slight some  
 Purging Flow Rate: 0.1 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>1537</u>	<u>1.5</u>	<u>7.14</u>	<u>5.58</u>	<u>62.5</u>	_____	_____
<u>1541</u>	<u>3</u>	<u>7.15</u>	<u>5.54</u>	<u>63.6</u>	_____	_____
<u>1548</u>	<u>4</u>	<u>6.92</u>	<u>4.96</u>	<u>63.8</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>5</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260)/ 8 Oxy's(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0018  
 Site Address: 6201 Claremont Blvd.  
 City: Oakland, CA

Job Number: 180264  
 Event Date: 11-29-02 (inclusive)  
 Sampler: Joe

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 30.05 ft.  
 Depth to Water: 23.73 ft.

Date Monitored: 11-29-02 Well Condition: O.K.

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

6.32 x VF 0.17 = 1.07 x3 (case volume) = Estimated Purge Volume: 3.5 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: 0 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): 1450 Weather Conditions: clear  
 Sample Time/Date: 1512/11-29-02 Water Color: clear Odor: none  
 Purging Flow Rate: 0.5 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>1457</u>	<u>1</u>	<u>7.12</u>	<u>689</u>	<u>63.7</u>		
<u>1502</u>	<u>2</u>	<u>7.26</u>	<u>7.28</u>	<u>63.8</u>		
<u>1505</u>	<u>3.5</u>	<u>7.31</u>	<u>7.44</u>	<u>63.4</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> <u>8-Oxy (8260)</u>

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

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

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #0018 Job Number: 180264  
 Site Address: 6201 Claremont Blvd. Event Date: 11-29-02 (inclusive)  
 City: Oakland, CA Sampler: Joc

Well ID: MW-3 Date Monitored: 11-29-02 Well Condition: o.k.  
 Well Diameter: 2 in.  
 Total Depth: 29.98 ft.  
 Depth to Water: 22.64 ft.  
7.34 xVF 0.17 = 1.25 x3 (case volume) = Estimated Purge Volume: 4 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: 0 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): 0145 Weather Conditions: Clear  
 Sample Time/Date: 1438 11-29-02 Water Color: Clear Odor: none  
 Purging Flow Rate: 0.5 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>01421</u>	<u>1.5</u>	<u>7.91</u>	<u>8.51</u>	<u>63.8</u>		
<u>01423</u>	<u>3</u>	<u>7.68</u>	<u>8.44</u>	<u>64.0</u>		
<u>01430</u>	<u>4</u>	<u>7.52</u>	<u>8.41</u>	<u>64.2</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> <u>8-Oxy's(8260)</u>

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

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

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

2002-12-0039

Gettler-Ryan Inc., Chain-of-Custody

7055

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number	#0018	Laboratory Name	STL - PLEASANTON, CA
	Facility Address	6201 CLAREMONT BLVD., OAKLAND, CA	Consultant	GETTLER-RYAN, INC. DEANNA L. HARDING
	Global ID	T0600102231	Project	180264.80
	Client Contact	MR. DAVID B. DEWITT	Address	6747 SIERRA CT., SUITE J, DUBLIN CA 94568
	Phone	(925) 277-2384	Phone	(925) 551-7555
			Fax	(925) 551-7899
			Sample Collected by	JOE AJEMIAN

SAMPLE ID	Number of Containers Matrix	S = Soil A = Air W = Water C = Charcoal		Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/ETEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/Silica gel EPA 8015	TPH-GAS EPA 8015	TPH-GAS/ETEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 8520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HMOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SMOC'S EPA 8270				Remarks			
QA	1	W	KCL		11-29-02					✓															
MW-1	5	"	"		1552					✓	✓														
MW-2	3	"	"		1512					✓															
MW-3	3	"	"		1438					✓															

- OXYGENATES 8260
- 1 - MTBE
  - 2 - TBA
  - 3 - TAME
  - 4 - DIPE
  - 5 - ETBE
  - 6 - 1,2-DCA
  - 7 - EDG
  - 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
		11-29-02					
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	
					12-03-02	1010	

Gettler Ryan

December 19, 2002

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180264.80

Project: Tosco #0018

Site: 6201 Claremont Blvd.  
Oakland, CA

RECEIVED

DEC 19 2002

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: 180264.80

Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, CA**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
QA	11/29/2002	Water	1
MW-1	11/29/2002 15:52	Water	2
MW-2	11/29/2002 15:12	Water	3
MW-3	11/29/2002 14:38	Water	4



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

Gettler Ryan

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Dublin, CA 94568

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

Project: 180264.80

Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-12-0039 - 1
Sampled:	11/29/2002	Extracted:	12/10/2002 14:09
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 14:09	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 14:09	
Toluene	0.88	0.50	ug/L	1.00	12/10/2002 14:09	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 14:09	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 14:09	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 14:09	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	88.0	76-114	%	1.00	12/10/2002 14:09	
Toluene-d8	98.6	88-110	%	1.00	12/10/2002 14:09	

**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: 180264.80

Tosco #0018

Received: 12/03/2002 10:10

 Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2002-12-0039 - 2
Sampled:	11/29/2002 15:52	Extracted:	12/10/2002 20:35
Matrix:	Water	QC Batch#:	2002/12/10-01 27

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	12/10/2002 20:35	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 20:35	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 20:35	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 20:35	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 20:35	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	12/10/2002 20:35	
Methyl tert-butyl ether (MTBE)	72	2.0	ug/L	1.00	12/10/2002 20:35	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/10/2002 20:35	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/10/2002 20:35	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/10/2002 20:35	
1,2-DCA	ND	2.0	ug/L	1.00	12/10/2002 20:35	
EDB	ND	2.0	ug/L	1.00	12/10/2002 20:35	
Ethanol	ND	500	ug/L	1.00	12/10/2002 20:35	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	87.4	76-114	%	1.00	12/10/2002 20:35	
Toluene-d8	97.2	88-110	%	1.00	12/10/2002 20:35	

**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: 180264.80  
Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2002-12-0039 - 3
Sampled:	11/29/2002 15:12	Extracted:	12/10/2002 20:56
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 20:56	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 20:56	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 20:56	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 20:56	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 20:56	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 20:56	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	91.7	76-114	%	1.00	12/10/2002 20:56	
Toluene-d8	97.4	88-110	%	1.00	12/10/2002 20:56	

**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: 180264.80

Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2002-12-0039 - 4
Sampled: 11/29/2002 14:38	Extracted: 12/10/2002 21:18
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 21:18	
Benzene	ND	0.50	ug/L	1.00	12/10/2002 21:18	
Toluene	ND	0.50	ug/L	1.00	12/10/2002 21:18	
Ethylbenzene	ND	0.50	ug/L	1.00	12/10/2002 21:18	
Total xylenes	ND	1.0	ug/L	1.00	12/10/2002 21:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	12/10/2002 21:18	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	89.5	76-114	%	1.00	12/10/2002 21:18	
Toluene-d8	95.8	88-110	%	1.00	12/10/2002 21:18	

**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: 180264.80  
Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, CA

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260FAB	
Method Blank				QC Batch # 2002/12/10-01.27	
MB: 2002/12/10-01.27-006				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	
tert-Butyl alcohol (TBA)	ND	100	ug/L	12/10/2002 12:54	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/10/2002 12:54	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/10/2002 12:54	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/10/2002 12:54	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/10/2002 12:54	
1,2-DCA	ND	2.0	ug/L	12/10/2002 12:54	
EDB	ND	2.0	ug/L	12/10/2002 12:54	
Ethanol	ND	500	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: 180264.80

Tosco #0018

Received: 12/03/2002 10:10

Site: 6201 Claremont Blvd.  
Oakland, 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			