

R298



# GETTLER-RYAN INC.

## TRANSMITTAL

Alameda County  
October 7, 2002  
OCT 24 2002 G-R #180255

**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  
#4625  
3070 Fruitvale Avenue  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	September 20, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 9, 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 **October 21, 2002**, this report will be distributed to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Alameda, California 94502

Enclosure

trans/4625-DBD



# GETTLER - RYAN Inc.

September 20, 2002  
G-R Job #180255

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

**RE: Third Quarter Event of August 9, 2002**  
Groundwater Monitoring & Sampling Report  
Tosco (76) Service Station #4625  
3070 Fruitvale Avenue  
Oakland, California

Dear Mr. De Witt:

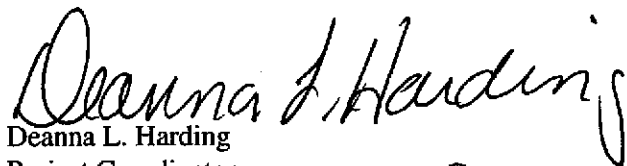
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

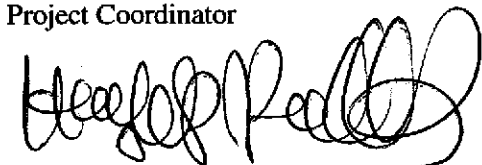
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure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

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

Sincerely,

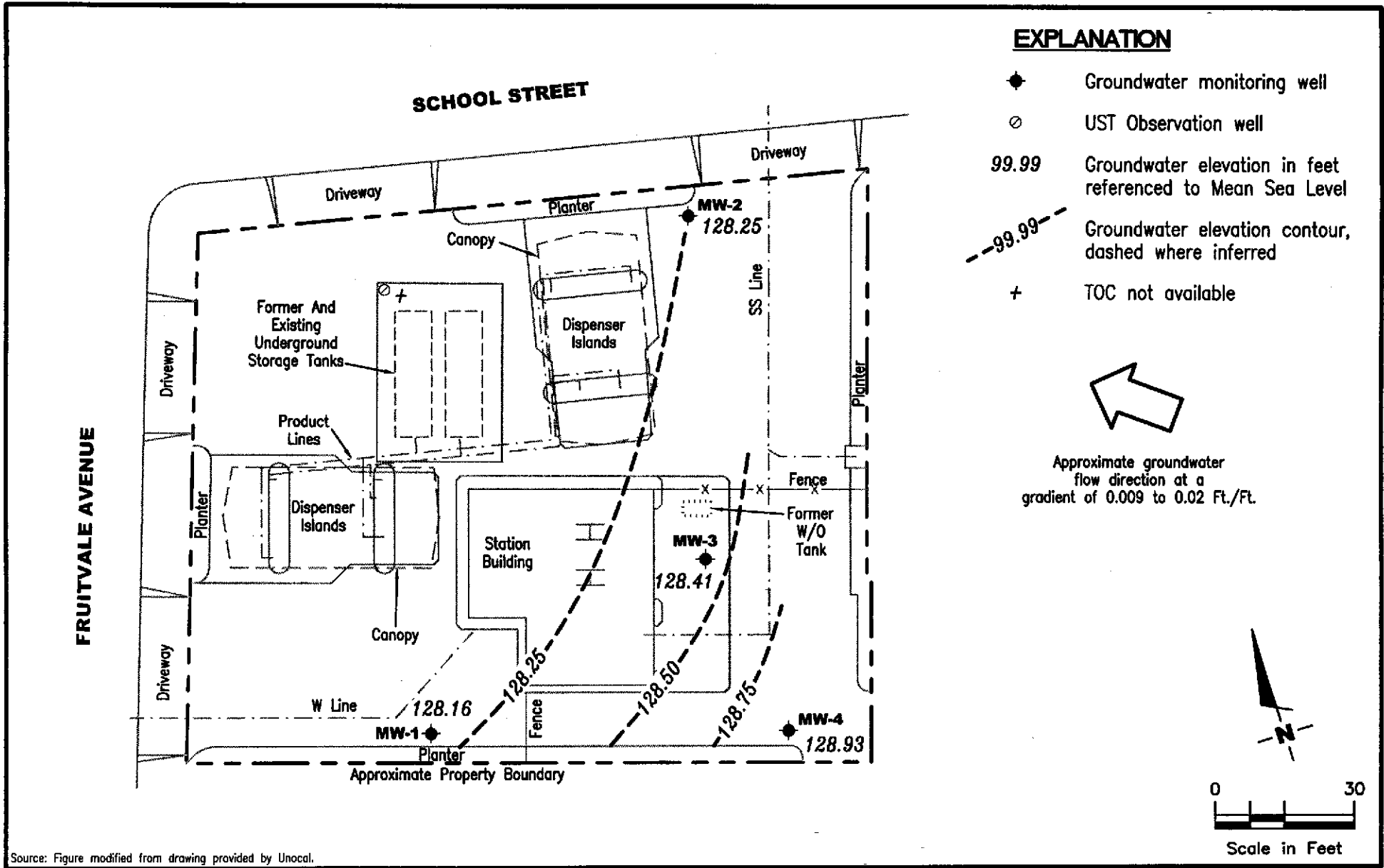
  
Deanna L. Harding  
Project Coordinator



Hagop Kevork  
P.E. No. C55734




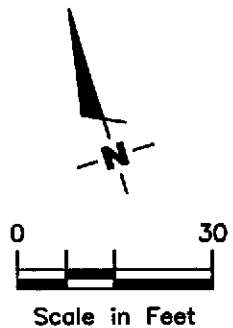
Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results  
Table 3: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



**EXPLANATION**

- ◆ Groundwater monitoring well
- UST Observation well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- + TOC not available

  
 Approximate groundwater flow direction at a gradient of 0.009 to 0.02 Ft./Ft.



Source: Figure modified from drawing provided by Unocal.


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

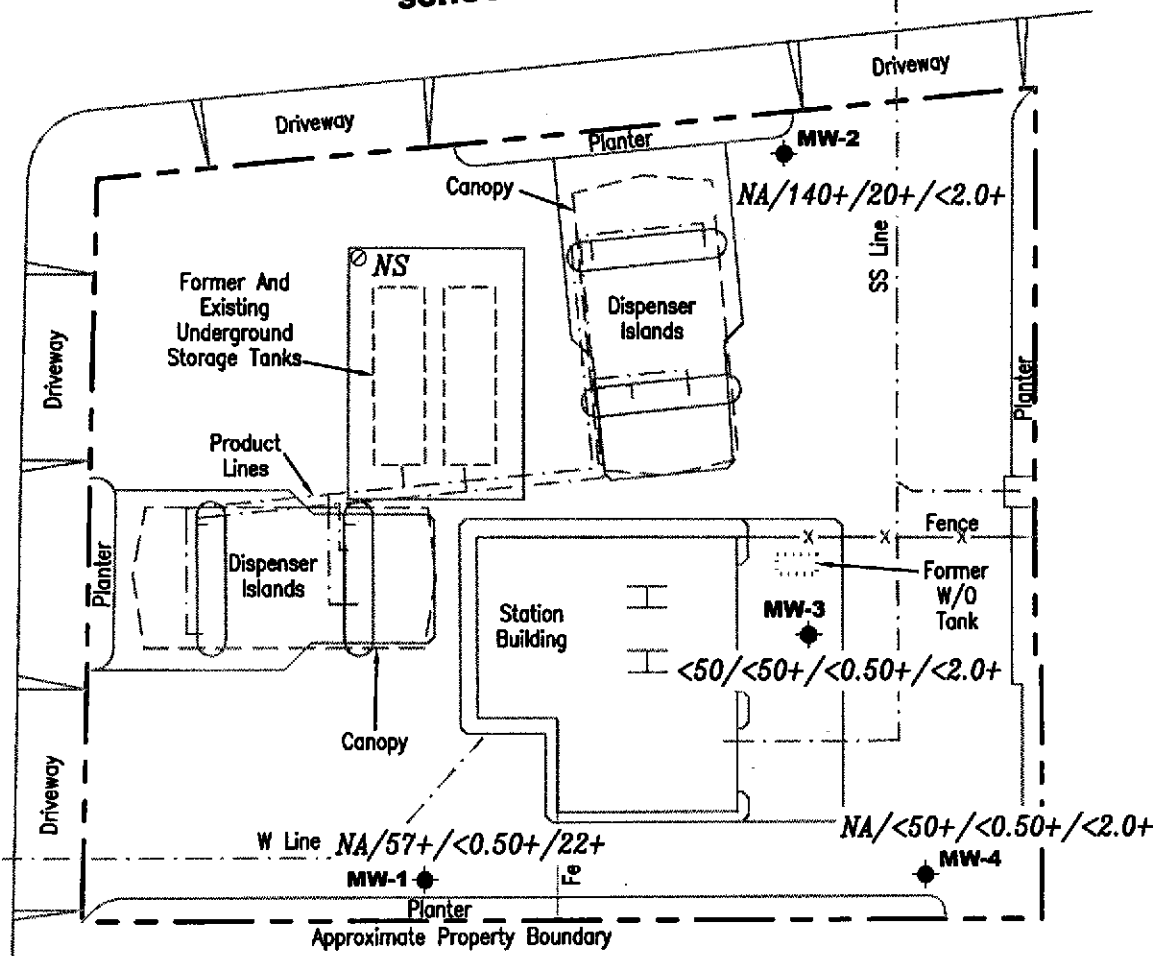
**POTENTIOMETRIC MAP**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale Avenue  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER <b>180255</b>	REVIEWED BY	DATE <b>August 9, 2002</b>	REVISED DATE
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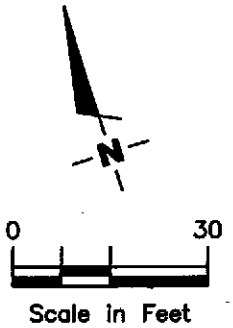
**SCHOOL STREET**

**FRUITVALE AVENUE**



**EXPLANATION**

- ◆ Groundwater monitoring well
- UST Observation well
- A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- NA Not Analyzed
- + Analyses by EPA Method 8260
- NS Not Sampled



Source: Figure modified from drawing provided by Unocal.

**GETTLER - RYAN INC.**  
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**CONCENTRATION MAP**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale Avenue  
 Oakland, California

FIGURE  
**2**

PROJECT NUMBER 180255	REVIEWED BY	DATE August 9, 2002	REVISED DATE
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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #4625  
3070 Fruitvale Avenue  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-1</b>											
136.36	05/03/00	11.81	5.0-25.0	124.55	--	ND	ND	ND	ND	ND	11/14 <sup>2</sup>
	07/28/00	7.79		128.57	--	ND	ND	ND	ND	ND	21/19 <sup>2</sup>
	10/29/00	7.90		128.46	--	62 <sup>1</sup>	ND	ND	ND	ND	6.5/3.9 <sup>2</sup>
	02/09/01	7.95		128.41	--	ND	ND	ND	ND	ND	9.0/9.0 <sup>2</sup>
	05/11/01	7.22		129.14	--	ND	ND	ND	ND	ND	12.7/16.3 <sup>2</sup>
	08/10/01	8.47		127.89	--	<50	<0.50	<0.50	<0.50	<0.50	17/19 <sup>7</sup>
	11/07/01	8.10		128.26	--	<50	<0.50	<0.50	<0.50	<0.50	22/26 <sup>2</sup>
	02/06/02	6.84		129.52	--	<50	<0.50	<0.50	<0.50	<0.50	14/18 <sup>2</sup>
	05/08/02	7.29		129.07	--	<50	<0.50	<0.50	<0.50	<0.50	20/19 <sup>2</sup>
	08/09/02 <sup>9</sup>	8.20		128.16	--	57 <sup>8</sup>	<0.50	<0.50	<0.50	<1.0	22
<b>MW-2</b>											
138.64	05/03/00	8.59	5.0-25.0	130.05	--	2,400 <sup>1</sup>	53	ND <sup>3</sup>	ND <sup>3</sup>	240	<sup>3</sup> ND/ND <sup>2</sup>
	07/28/00	9.95		128.69	--	2,200 <sup>1</sup>	680	4.1	57	270	24/ND <sup>2</sup>
	10/29/00	8.38		130.26	--	490 <sup>1</sup>	67	ND <sup>3</sup>	23	22	ND <sup>3</sup>
	02/09/01	8.41		130.23	--	ND	3.1	ND	0.52	1.1	ND
	05/11/01	8.93		129.71	--	ND	1.99	ND	ND	ND	ND
	08/10/01	10.68		127.96	--	96 <sup>1</sup>	20	<0.50	2.1	9.4	<5.0
	11/07/01	10.01		128.63	--	480 <sup>1</sup>	110	<1.0	26	42	<10
	02/06/02	8.10		130.54	--	69 <sup>1</sup>	13	<0.50	0.84	4.4	<5.0
	05/08/02	9.16		129.48	--	53 <sup>1</sup>	13	<0.50	1.2	1.5	<5.0
	08/09/02 <sup>9</sup>	10.39		128.25	--	140	20	<0.50	10	11	<2.0
<b>MW-3</b>											
137.68	05/03/00	7.60	5.0-25.0	130.08	93 <sup>5</sup>	ND	ND	ND	ND	ND	ND/ND <sup>4</sup>
	07/28/00	8.82		128.86	ND <sup>3</sup>	ND	ND	ND	ND	ND	ND/ND <sup>4</sup>
	10/29/00	7.33		130.35	ND	ND	ND	ND	ND	ND	ND
	02/09/01	7.40		130.28	72 <sup>6</sup>	ND	ND	ND	ND	ND	ND
	05/11/01	7.90		129.78	ND	ND	ND	ND	ND	ND	ND

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale Avenue  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (mst)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	08/10/01	9.09	5.0-25.0	128.59	63 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	<5.0
(cont)	11/07/01	9.03		128.65	88 <sup>8</sup>	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/06/02	7.16		130.52	<310	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/08/02	8.04		129.64	<53	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>9</sup>	9.27		128.41	<50	<50	<0.50	<0.50	<0.50	<1.0	<2.0
 MW-4											
136.60	05/03/00	6.48	5.0-25.0	130.12	--	ND	ND	ND	ND	ND	ND/ND <sup>2</sup>
	07/28/00	7.55		129.05	--	ND	ND	ND	ND	ND	ND
	10/29/00	6.12		130.48	--	ND	ND	ND	ND	ND	ND
	02/09/01	6.14		130.46	--	ND	ND	ND	ND	ND	ND
	05/11/01	7.51		129.09	--	ND	ND	ND	ND	ND	ND
	08/10/01	8.66		127.94	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/07/01	7.92		128.68	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/06/02	7.18		129.42	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	05/08/02	6.86		129.74	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 <sup>9</sup>	7.67		128.93	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
 UST OBSERVATION WELL											
	05/03/00	8.00	--	--	--	--	--	--	--	--	--
	07/28/00	9.28		--	--	--	--	--	--	--	--
	10/29/00	7.75		--	--	--	--	--	--	--	--
	02/09/01	6.14		--	--	--	--	--	--	--	--
	05/11/01	7.96		--	--	--	--	--	--	--	--
	08/10/01	9.54		--	--	--	--	--	--	--	--
	11/07/01	9.33		--	--	--	--	--	--	--	--
	02/06/02	8.08		--	--	--	--	--	--	--	--
	05/08/02	8.51		--	--	--	--	--	--	--	--
	08/09/02	9.56		--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale Avenue  
 Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>Trip Blank</b>											
TB-LB	05/03/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	07/28/00	--	--	--	--	ND	ND	ND	ND	ND	ND
	10/29/00	--	--	--	--	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	<5.0
	05/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	08/09/02 <sup>9</sup>	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<2.0

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Tosco (76) Service Station #4625  
3070 Fruitvale Avenue  
Oakland, California

**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-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

QA = Quality Assurance

\* TOC elevations were surveyed based on a cut square on School Street, City of Oakland Benchmark No. 3783, (Elevation = 136.99 feet, msl).

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

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

<sup>3</sup> Detection limit raised. Refer to analytical reports.

<sup>4</sup> MTBE by EPA Method 8240.

<sup>5</sup> Laboratory report indicates unidentified hydrocarbons C9-C24.

<sup>6</sup> Laboratory report indicates discrete peaks.

<sup>7</sup> MTBE by EPA Method 8260 was analyzed beyond the EPA recommended holding time.

<sup>8</sup> Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

<sup>9</sup> TPH-G, BTEX and MTBE by EPA Method 8260.



**Table 2**  
**Groundwater Analytical Results**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale Avenue  
 Oakland, California

WELL ID	DATE	VOCs by EPA 8240 (ppb)	VOCs by EPA 8021 (ppb)	VOCs by EPA 8260 (ppb)	SVOCs by EPA 8270 (ppb)	Chromium (ppm)	TOG (ppm)
<b>MW-3</b>							
	05/03/00	ND	--	--	ND	ND	ND
	07/28/00	ND <sup>1</sup>	--	--	ND	1.8	ND
	10/29/00	ND	--	--	ND	ND	7.0
	02/09/01	ND	--	--	ND	0.038	ND
	05/11/01	ND	--	--	ND	ND	ND
	08/10/01	<2.0-<20	<0.50-<5.0	--	<5.0-<50	<0.010	<5.0
	11/07/01	<2.0-<20	<0.50-<5.0 <sup>2</sup>	--	<5.0-<50	<0.010	<5.0
	02/06/02	<2.0-<20	<0.50-<5.0	--	<5.0-<50	0.11	<5.0
	05/08/02	<2.0-<20	--	<0.50 <sup>3</sup>	<5.2-<100	0.037	<5.2
	08/09/02	--	--	<0.50-<50	<2.0-<10	0.70	<1.0

**EXPLANATIONS:**

VOCs = Volatile Organic Compounds  
 SVOCs = Semi-Volatile Organic Compounds  
 TOG = Total Oil and Grease  
 (ppb) = Parts per billion  
 (ppm) = Parts per million  
 ND = Not Detected  
 -- = Not Analyzed

- <sup>1</sup> All VOCs by EPA Method 8240 were ND, except for Tetrachloroethene (PCE) was detected at 2.7 ppb.  
<sup>2</sup> All VOCs by EPA Method 8021 were less than the reporting limit, except for Trichloroethane (TCE) was detected at 0.55 ppb.  
<sup>3</sup> All VOCs by EPA Method 8260 were less than the reporting limit, except for cis-1,2-Dichloroethene (c-1,2-DCE) was detected at 0.69 ppb, PCE at 0.56 ppb, and TCE at 0.86 ppb.

**ANALYTICAL METHODS:**

EPA 200 Series Methods for Chromium  
 EPA Method SM5520 for Total Oil and Grease

NOTE: All EPA Method 8240, 8021, 8260, and 8270 constituents were ND, unless noted.

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Tosco (76) Service Station #4625  
 3070 Fruitvale 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	02/09/01	ND	ND	9.0	ND	ND	ND	ND	ND
	05/11/01	ND	ND	16.3	ND	ND	ND	ND	ND
	08/10/01 <sup>1</sup>	<1,000	<100	19	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	26	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/02	<500	<100	18	<2.0	<2.0	<2.0	<2.0	<2.0
	05/08/02	<500	<100	19	<2.0	<2.0	<2.0	<2.0	<2.0
	08/09/02	<500	<100	22	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	07/28/00	--	ND	ND	ND	ND	ND	ND	ND

**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 = Ethylene dibromide/1,2-Dibromoethane  
 (ppb) = Parts per billion  
 -- = Not Analyzed  
 ND = Not Detected

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Laboratory report indicates sample was analyzed beyond the EPA recommended holding time.

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

As requested by 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 #4625 Job Number: 180255  
 Site Address: 3070 Fruitvale Avenue Event Date: 8/9/02  
 City: Oakland, CA Sampler: HAG K.

Well ID: MW-91 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 25.08 ft.  
 Depth to Water: 8.20 ft.

Volume Factor (VF)	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

16.88 xVF 0.17 = 2.9 x3 (case volume) = Estimated Purge Volume: 8.7 gal.

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

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

Start Time (purge): 1418 Weather Conditions: SUNNY  
 Sample Time/Date: 1440 / 8/9/02 Water Color: CLEAR Odor: \_\_\_\_\_  
 Purging Flow Rate: 21 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1421</u>	<u>3</u>	<u>6.80</u>	<u>563</u>	<u>22.5</u>		
<u>1424</u>	<u>6</u>	<u>6.72</u>	<u>535</u>	<u>21.8</u>		
<u>1428</u>	<u>9</u>	<u>6.68</u>	<u>542</u>	<u>22.0</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-91</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 #4625  
 Site Address: 3070 Fruitvale Avenue  
 City: Oakland, CA

Job Number: 180255  
 Event Date: 8/9/02  
 Sampler: HAIG R.

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 24.30 ft.  
 Depth to Water: 10.39 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø ft.  
 Amount Bailed (product/water): Ø gal.

Volume Factor (VF)	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

13.91 xVF 0.17 = 2.36 x3 (case volume) = Estimated Purge Volume: 7 gal.

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

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

Start Time (purge): 1344 Weather Conditions: SUNNY  
 Sample Time/Date: 1405/8/9/02 Water Color: CLOUDY Odor: \_\_\_\_\_  
 Purging Flow Rate: 21 gpm. Sediment Description: SAND (SLIGHT)  
 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>1346</u>	<u>2.5</u>	<u>7.33</u>	<u>280</u>	<u>22.5</u>	_____	_____
<u>1349</u>	<u>5</u>	<u>7.25</u>	<u>265</u>	<u>21.8</u>	_____	_____
<u>1351</u>	<u>11</u>	<u>7.28</u>	<u>262</u>	<u>21.9</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 #4625 Job Number: 180255  
 Site Address: 3070 Fruitvale Avenue Event Date: 8/9/02  
 City: Oakland, CA Sampler: HAIG K.

Well ID: MW-3 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 24.72 ft. Depth to Water: 9.27 ft.

Volume Factor (VF)	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

15.45 xVF 0.17 = 2.6 x3 (case volume) = Estimated Purge Volume: 7.8 gal.

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

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

Start Time (purge): 1258 Weather Conditions: SUNNY  
 Sample Time/Date: 1330/ 8/9/02 Water Color: CLOUDY Odor: NO  
 Purging Flow Rate: 21 gpm. Sediment Description: SAND (SUBST)  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1301</u>	<u>2.5</u>	<u>22.3</u>	<u>310</u>	<u>7.42</u>	_____	_____
<u>1304</u>	<u>5</u>	<u>21.8</u>	<u>289</u>	<u>7.35</u>	_____	_____
<u>1308</u>	<u>7.5</u>	<u>21.6</u>	<u>284</u>	<u>7.33</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	TPH-G, BTEX, MTBE (8260)
	<u>3</u> x voa vial	YES	HCL	STL Pleasanton	VOC's(8240 list) 8260
	<u>2</u> x Ambers	YES	NP	STL Pleasanton	TPH-D
	<u>1</u> x Ambers	YES	NP	STL Pleasanton	SVOC's (8270)
	<u>2</u> X 250ml poly	YES	HNO3	STL Pleasanton	Total Chromium

COMMENTS: 1 X Amber YES HCL STL 0.17 purge

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Tosco #4625  
 Site Address: 3070 Fruitvale Avenue  
 City: Oakland, CA

Job Number: 180255  
 Event Date: 8/9/02  
 Sampler: HAIG R.

Well ID: MW-4 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 24.65 ft.  
 Depth to Water: 11.67 ft.

Volume Factor (VF)	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

16.98 xVF 0.17 = 2.9 x3 (case volume) = Estimated Purge Volume: 8.7 gal.

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

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

Start Time (purge): 1222 Weather Conditions: SUNNY  
 Sample Time/Date: 1245 8/9/02 Water Color: CLEAR Odor: NO  
 Purging Flow Rate: 21 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1225</u>	<u>3</u>	<u>7.12</u>	<u>592</u>	<u>20.8</u>		
<u>1228</u>	<u>6</u>	<u>7.06</u>	<u>574</u>	<u>20.5</u>		
<u>1232</u>	<u>9</u>	<u>7.04</u>	<u>568</u>	<u>20.6</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 #4625 Job Number: 180255  
 Site Address: 3070 Fruitvale Ave. Event Date: \_\_\_\_\_  
 City: Oakland, CA Sampler: \_\_\_\_\_

Well ID: UST Well Condition: OK  
 Well Diameter: \_\_\_\_\_ in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: 9.56 ft.

Hydrocarbon Thickness: \_\_\_\_\_ ft. Amount Bailed (product/water): \_\_\_\_\_ gal.

Volume Factor (VF)	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 \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
_____	x voa vial	YES	HCL	_____	TPH-G (8015)/ BTEX + MTBE (8021)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: Monitor only.

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



2002-08-0267

Gettler-Ryan Inc., Chain-of-Custody

0011

Tosco Corp./  
Phillips 66 Co.  
1000 Crow Canyon Place  
Suite 400  
San Ramon, CA 94583

Facility Number #4625  
Facility Address 3070 FRUITVALE AVE., OAKLAND, CA  
Global ID T0600102156 Project 180255.80  
Client Contact MR. DAVID B. DEWITT  
Phone (925) 277-2384

Laboratory Name STL - PLEASANTON, CA  
Consultant GETTLER-RYAN, INC. DEANNA L. HARDING  
Address 6747 SIERRA CT., SUITE J, DUBLIN CA 94568  
Phone (925) 551-7555 Fax (925) 551-7899  
Samples Collected by HAIG KIZVORK

SAMPLE ID	Number of Containers Matrix	S = Soil W = Water A = Air 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 8520	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	SVOC'S (8010) EPA 8021B	VOC'S (8240) EPA 8260	SVOC'S EPA 8270	TOTAL CHROMIUM	Remarks
QA	1	W	Hcl	8/9/02					X										
1W-1	3	W		1440					X										PLEASE RUN 8 OXY'S BY 8260 ON ALL 8260 MTBE HITS.
1W-2	3	W		1405					X										
1W-3	12	W		1330		X			X						X	X	X		
1W-4	3	W	↓	↓1245					X						X	X	X		

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

Shipped By (Signature) <i>David Dewitt</i>	Organization G-R Inc	Date/Time 8/12/02	Received By (Signature)	Organization	Date/Time	Load Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 51°C 72 Hrs. 5 Days 10 Days As Contracted
Shipped By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Load Y/N	
Shipped By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>31</i>	Organization	Date/Time 8-13-02	Load Y/N 1307	

AUG 28 02 11:59a  
 STIONsite  
 9256003002  
 P.2

Submission#: 2002-08-0267

August 28, 2002

SEVERN

TRENT

LABORATORY

**Gettler Ryan**

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Deanna Harding

Project#: 180255.80

Project: Tosco # 4625

Site: 3070 Fruitvale Ave.  
Oakland, CA

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#:2496

3157  
28 2002  
Gettler Ryan  
08/28/02

Dear Ms. Harding,

Attached is our report for your samples received on 08/13/2002 13:07

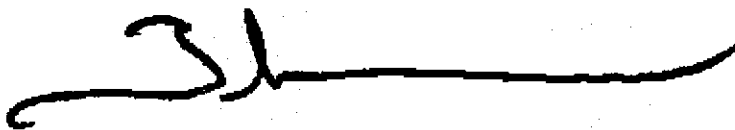
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/27/2002 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@chromalab.com](mailto:tgranicher@chromalab.com)

Sincerely,



Tod Granicher  
Project Manager

Submission #: 2002-08-0267

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: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

SEVERN

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LABORATORY

STL San Francisco  
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Pleasanton, CA 94566

Tel: (925) 484-1919  
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www.chromalab.com

CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
QA	08/09/2002	Water	1
MW-1	08/09/2002 14:40	Water	2
MW-2	08/09/2002 14:05	Water	3
MW-3	08/09/2002 13:30	Water	4
MW-4	08/09/2002 12:45	Water	5

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180255.80  
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Received: 08/13/2002 13:07

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Oakland, CA

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	QA	Lab ID:	2002-08-0267 - 1
Sampled:	08/09/2002	Extracted:	8/16/2002 12:53
Matrix:	Water	QC Batch#:	2002/08/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2002 12:53	
Benzene	ND	0.50	ug/L	1.00	08/16/2002 12:53	
Toluene	ND	0.50	ug/L	1.00	08/16/2002 12:53	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2002 12:53	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2002 12:53	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/16/2002 12:53	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	80.8	76-114	%	1.00	08/16/2002 12:53	
Toluene-d8	100.4	88-110	%	1.00	08/16/2002 12:53	

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2002-08-0267 - 2
Sampled:	08/09/2002 14:40	Extracted:	8/16/2002 12:09
Matrix:	Water	QC Batch#:	2002/08/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	08/16/2002 12:09	g
Benzene	ND	0.50	ug/L	1.00	08/16/2002 12:09	
Toluene	ND	0.50	ug/L	1.00	08/16/2002 12:09	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2002 12:09	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2002 12:09	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	08/16/2002 12:09	
Methyl tert-butyl ether (MTBE)	22	2.0	ug/L	1.00	08/16/2002 12:09	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/16/2002 12:09	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/16/2002 12:09	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/16/2002 12:09	
1,2-DCA	ND	2.0	ug/L	1.00	08/16/2002 12:09	
EDB	ND	2.0	ug/L	1.00	08/16/2002 12:09	
Ethanol	ND	500	ug/L	1.00	08/16/2002 12:09	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	79.2	76-114	%	1.00	08/16/2002 12:09	
Toluene-d8	99.3	88-110	%	1.00	08/16/2002 12:09	

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 180255.80

Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2002-08-0267 - 3
Sampled:	08/09/2002 14:05	Extracted:	8/19/2002 12:41
Matrix:	Water	QC Batch#:	2002/08/19-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	140	50	ug/L	1.00	08/19/2002 12:41	
Benzene	20	0.50	ug/L	1.00	08/19/2002 12:41	
Toluene	ND	0.50	ug/L	1.00	08/19/2002 12:41	
Ethylbenzene	10	0.50	ug/L	1.00	08/19/2002 12:41	
Total xylenes	11	1.0	ug/L	1.00	08/19/2002 12:41	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/19/2002 12:41	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	81.6	76-114	%	1.00	08/19/2002 12:41	
Toluene-d8	94.2	88-110	%	1.00	08/19/2002 12:41	

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

Gettler Ryan

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/16/2002 16:35
Matrix:	Water	QC Batch#:	2002/08/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2002 16:35	
Benzene	ND	0.50	ug/L	1.00	08/16/2002 16:35	
Toluene	ND	0.50	ug/L	1.00	08/16/2002 16:35	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2002 16:35	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2002 16:35	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/16/2002 16:35	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	82.9	76-114	%	1.00	08/16/2002 16:35	
Toluene-d8	96.1	88-110	%	1.00	08/16/2002 16:35	

Submission #: 2002-08-0267

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: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

**SEVERN**  
**TRENT**  
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1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2002-08-0267 - 5
Sampled:	08/09/2002 12:45	Extracted:	8/16/2002 16:58
Matrix:	Water	QC Batch#:	2002/08/16-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2002 16:58	
Benzene	ND	0.50	ug/L	1.00	08/16/2002 16:58	
Toluene	ND	0.50	ug/L	1.00	08/16/2002 16:58	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2002 16:58	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2002 16:58	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	08/16/2002 16:58	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	82.7	76-114	%	1.00	08/16/2002 16:58	
Toluene-d8	104.2	88-110	%	1.00	08/16/2002 16:58	



Gas/BTEX Fuel Oxygenates by 8260B

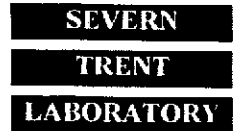
Gettler Ryan

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

Project: 180255.80  
 Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
 Oakland, CA



STL San Francisco  
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 www.stl-inc.com  
 www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/08/16-01.62-041

Water

Test(s): 8260FAB

QC Batch # 2002/08/16-01.62

Date Extracted: 08/16/2002 10:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/16/2002 10:40	
Benzene	ND	0.5	ug/L	08/16/2002 10:40	
Toluene	ND	0.5	ug/L	08/16/2002 10:40	
Ethylbenzene	ND	0.5	ug/L	08/16/2002 10:40	
Total xylenes	ND	1.0	ug/L	08/16/2002 10:40	
tert-Butyl alcohol (TBA)	ND	100	ug/L	08/16/2002 10:40	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	08/16/2002 10:40	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/16/2002 10:40	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/16/2002 10:40	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/16/2002 10:40	
1,2-DCA	ND	2.0	ug/L	08/16/2002 10:40	
EDB	ND	2.0	ug/L	08/16/2002 10:40	
Ethanol	ND	500	ug/L	08/16/2002 10:40	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	77.8	76-114	%	08/16/2002 10:40	
Toluene-d8	97.4	88-110	%	08/16/2002 10:40	

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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Received: 08/13/2002 13:07

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2002/08/19-01.62-019

Water

Test(s): 8260FAB

QC Batch # 2002/08/19-01.62

Date Extracted: 08/19/2002 12:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/19/2002 12:19	
Benzene	ND	0.5	ug/L	08/19/2002 12:19	
Toluene	ND	0.5	ug/L	08/19/2002 12:19	
Ethylbenzene	ND	0.5	ug/L	08/19/2002 12:19	
Total xylenes	ND	1.0	ug/L	08/19/2002 12:19	
tert-Butyl alcohol (TBA)	ND	100	ug/L	08/19/2002 12:19	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	08/19/2002 12:19	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/19/2002 12:19	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/19/2002 12:19	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/19/2002 12:19	
1,2-DCA	ND	2.0	ug/L	08/19/2002 12:19	
EDB	ND	2.0	ug/L	08/19/2002 12:19	
Ethanol	ND	500	ug/L	08/19/2002 12:19	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	79.6	76-114	%	08/19/2002 12:19	
Toluene-d8	106.9	88-110	%	08/19/2002 12:19	

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/08/16-01.62

LCS 2002/08/16-01.62-013

Extracted: 08/16/2002

Analyzed: 08/16/2002 09:13

LCSD 2002/08/16-01.62-018

Extracted: 08/16/2002

Analyzed: 08/16/2002 10:18

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	19.2	18.5	25.0	76.8	74.0	3.7	69-129	20		
Toluene	21.8	20.6	25.0	87.2	82.4	5.7	70-130	20		
Methyl tert-butyl ether (MTBE)	22.3	22.4	25.0	89.2	89.6	0.4	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	438	432	500	87.6	86.4		76-114			
Toluene-d8	500	496	500	100.0	99.2		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2002/08/19-01.62

LCS 2002/08/19-01.62-035

Extracted: 08/19/2002

Analyzed: 08/19/2002 11:35

LCSD 2002/08/19-01.62-057

Extracted: 08/19/2002

Analyzed: 08/19/2002 11:57

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.2	24.0	25.0	104.8	96.0	8.8	69-129	20		
Toluene	24.9	24.5	25.0	99.6	98.0	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	26.5	27.0	25.0	106.0	108.0	1.9	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	424	436	500	84.8	87.2		76-114			
Toluene-d8	512	516	500	102.4	103.2		88-110			

Submission #: 2002-08-0267

Gas/BTEX Fuel Oxygenates by 8260B

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CA DHS ELAP# 2496

### Legend and Notes

#### Result Flag

9

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

Submission #: 2002-08-0267

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

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CA DHS ELAP# 2496

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/09/2002 13:30	Water	4

## Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

Attn.: Deanna Harding  
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Project: 180255.80  
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Received: 08/13/2002 13:07

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CA DHS ELAP# 2496

Prep(s): 3510C/8270C

Test(s): 8270C

Sample ID: MW-3

Lab ID: 2002-08-0267 -4

Sampled: 08/09/2002 13:30

Extracted: 8/14/2002 05:19

Matrix: Water

QC Batch#: 2002/08/14-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2-Chlorophenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Benzyl alcohol	ND	5.0	ug/L	1.00	08/14/2002 13:20	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2-Methylphenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	08/14/2002 13:20	
4-Methylphenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Hexachloroethane	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Nitrobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Isophorone	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2-Nitrophenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	08/14/2002 13:20	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Naphthalene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
4-Chloroaniline	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	08/14/2002 13:20	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1.00	08/14/2002 13:20	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2-Nitroaniline	ND	10	ug/L	1.00	08/14/2002 13:20	
Dimethyl phthalate	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Acenaphthylene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
3-Nitroaniline	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Acenaphthene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2,4-Dinitrophenol	ND	10	ug/L	1.00	08/14/2002 13:20	

## Semi-volatile analysis by GC/MS - EPA8270C

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

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Fax: (925) 484-1096  
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 3510C/8270C

Test(s): 8270C

Sample ID: MW-3

Lab ID: 2002-08-0267 - 4

Sampled: 08/09/2002 13:30

Extracted: 8/14/2002 05:19

Matrix: Water

QC Batch#: 2002/08/14-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
4-Nitrophenol	ND	10	ug/L	1.00	08/14/2002 13:20	
Dibenzofuran	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Diethyl phthalate	ND	5.0	ug/L	1.00	08/14/2002 13:20	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Fluorene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
4-Nitroaniline	ND	10	ug/L	1.00	08/14/2002 13:20	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	08/14/2002 13:20	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	08/14/2002 13:20	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Hexachlorobenzene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Pentachlorophenol	ND	10	ug/L	1.00	08/14/2002 13:20	
Phenanthrene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Anthracene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Fluoranthene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Pyrene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	08/14/2002 13:20	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.00	08/14/2002 13:20	
Chrysene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	08/14/2002 13:20	
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	08/14/2002 13:20	
Benzoic acid	ND	10	ug/L	1.00	08/14/2002 13:20	
<b>Surrogates(s)</b>						
Nitrobenzene-d5	65.0	35-114	%	1.00	08/14/2002 13:20	
2-Fluorobiphenyl	60.1	43-116	%	1.00	08/14/2002 13:20	



Submission #: 2002-08-0267

Semi-volatile analysis by GC/MS - EPA8270C

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

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Oakland, CA

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CA DHS ELAP# 2496

Prep(s):	3510C/8270C	Test(s):	8270C
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/14/2002 05:19
Matrix:	Water	QC Batch#:	2002/08/14-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
p-Terphenyl-d14	81.9	33-141	%	1.00	08/14/2002 13:20	
2-Fluorophenol	34.2	25-100	%	1.00	08/14/2002 13:20	
Phenol-d6	22.8	10-110	%	1.00	08/14/2002 13:20	
2,4,6-Tribromophenol	61.4	10-123	%	1.00	08/14/2002 13:20	

## Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 3510C/8270C

Method Blank

MB: 2002/08/14-01.11-001

Water

Test(s): 8270C

QC Batch # 2002/08/14-01.11

Date Extracted: 08/14/2002 05:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	2.0	ug/L	08/14/2002 11:54	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	08/14/2002 11:54	
2-Chlorophenol	ND	2.0	ug/L	08/14/2002 11:54	
1,3-Dichlorobenzene	ND	2.0	ug/L	08/14/2002 11:54	
1,4-Dichlorobenzene	ND	2.0	ug/L	08/14/2002 11:54	
Benzyl alcohol	ND	5.0	ug/L	08/14/2002 11:54	
1,2-Dichlorobenzene	ND	2.0	ug/L	08/14/2002 11:54	
2-Methylphenol	ND	2.0	ug/L	08/14/2002 11:54	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	08/14/2002 11:54	
4-Methylphenol	ND	2.0	ug/L	08/14/2002 11:54	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	08/14/2002 11:54	
Hexachloroethane	ND	2.0	ug/L	08/14/2002 11:54	
Nitrobenzene	ND	2.0	ug/L	08/14/2002 11:54	
Isophorone	ND	2.0	ug/L	08/14/2002 11:54	
2-Nitrophenol	ND	2.0	ug/L	08/14/2002 11:54	
2,4-Dimethylphenol	ND	2.0	ug/L	08/14/2002 11:54	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	08/14/2002 11:54	
2,4-Dichlorophenol	ND	2.0	ug/L	08/14/2002 11:54	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	08/14/2002 11:54	
Naphthalene	ND	2.0	ug/L	08/14/2002 11:54	
4-Chloroaniline	ND	2.0	ug/L	08/14/2002 11:54	
Hexachlorobutadiene	ND	2.0	ug/L	08/14/2002 11:54	
4-Chloro-3-methylphenol	ND	5.0	ug/L	08/14/2002 11:54	
2-Methylnaphthalene	ND	2.0	ug/L	08/14/2002 11:54	
Hexachlorocyclopentadiene	ND	5.0	ug/L	08/14/2002 11:54	
2,4,6-Trichlorophenol	ND	2.0	ug/L	08/14/2002 11:54	
2,4,5-Trichlorophenol	ND	2.0	ug/L	08/14/2002 11:54	
2-Chloronaphthalene	ND	2.0	ug/L	08/14/2002 11:54	
2-Nitroaniline	ND	10	ug/L	08/14/2002 11:54	
Dimethyl phthalate	ND	5.0	ug/L	08/14/2002 11:54	
Acenaphthylene	ND	2.0	ug/L	08/14/2002 11:54	
3-Nitroaniline	ND	2.0	ug/L	08/14/2002 11:54	
Acenaphthene	ND	2.0	ug/L	08/14/2002 11:54	

## Semi-volatile analysis by GC/MS - EPA8270C

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Oakland, CA

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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 3510C/8270C

Test(s): 8270C

Method Blank

Water

QC Batch # 2002/08/14-01.11

MB: 2002/08/14-01.11-001

Date Extracted: 08/14/2002 05:19

Compound	Conc.	RL	Unit	Analyzed	Flag
2,4-Dinitrophenol	ND	10	ug/L	08/14/2002 11:54	
4-Nitrophenol	ND	10	ug/L	08/14/2002 11:54	
Dibenzofuran	ND	2.0	ug/L	08/14/2002 11:54	
2,4-Dinitrotoluene	ND	2.0	ug/L	08/14/2002 11:54	
2,6-Dinitrotoluene	ND	5.0	ug/L	08/14/2002 11:54	
Diethyl phthalate	ND	5.0	ug/L	08/14/2002 11:54	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	08/14/2002 11:54	
Fluorene	ND	2.0	ug/L	08/14/2002 11:54	
4-Nitroaniline	ND	10	ug/L	08/14/2002 11:54	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	08/14/2002 11:54	
N-Nitrosodiphenylamine	ND	2.0	ug/L	08/14/2002 11:54	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	08/14/2002 11:54	
Hexachlorobenzene	ND	2.0	ug/L	08/14/2002 11:54	
Pentachlorophenol	ND	10	ug/L	08/14/2002 11:54	
Phenanthrene	ND	2.0	ug/L	08/14/2002 11:54	
Anthracene	ND	2.0	ug/L	08/14/2002 11:54	
Di-n-butyl phthalate	ND	5.0	ug/L	08/14/2002 11:54	
Fluoranthene	ND	2.0	ug/L	08/14/2002 11:54	
Pyrene	ND	2.0	ug/L	08/14/2002 11:54	
Butyl benzyl phthalate	ND	5.0	ug/L	08/14/2002 11:54	
3,3-Dichlorobenzidine	ND	5.0	ug/L	08/14/2002 11:54	
Benzo(a)anthracene	ND	2.0	ug/L	08/14/2002 11:54	
bis(2-Ethylhexyl) phthalate	ND	10.0	ug/L	08/14/2002 11:54	
Chrysene	ND	2.0	ug/L	08/14/2002 11:54	
Di-n-octyl phthalate	ND	5.0	ug/L	08/14/2002 11:54	
Benzo(b)fluoranthene	ND	2.0	ug/L	08/14/2002 11:54	
Benzo(k)fluoranthene	ND	2.0	ug/L	08/14/2002 11:54	
Benzo(a)pyrene	ND	2.0	ug/L	08/14/2002 11:54	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	08/14/2002 11:54	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	08/14/2002 11:54	
Benzo(g,h,i)perylene	ND	2.0	ug/L	08/14/2002 11:54	
Benzoic acid	ND	10	ug/L	08/14/2002 11:54	
<b>Surrogates(s)</b>					

Submission #: 2002-08-0267

Semi-volatile analysis by GC/MS - EPA8270C

Gettler Ryan

Attn.: Deanna Harding  
6747 Sierra Court Suite J  
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Phone: (925) 551-7444 Fax: (925) 551-7899

Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510C/8270C

Method Blank

MB: 2002/08/14-01.11-001

Water

Test(s): 8270C

QC Batch # 2002/08/14-01.11

Date Extracted: 08/14/2002 05:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Nitrobenzene-d5	72.8	35-114	%	08/14/2002 11:54	
2-Fluorobiphenyl	55.4	43-116	%	08/14/2002 11:54	
p-Terphenyl-d14	81.6	33-141	%	08/14/2002 11:54	
2-Fluorophenol	40.3	25-100	%	08/14/2002 11:54	
Phenol-d6	29.0	10-110	%	08/14/2002 11:54	
2,4,6-Tribromophenol	61.4	10-123	%	08/14/2002 11:54	

## Semi-volatile analysis by GC/MS - EPA8270C

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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 3510C/8270C

Test(s): 8270C

Laboratory Control Spike

Water

QC Batch # 2002/08/14-01.11

LCS 2002/08/14-01.11-002

Extracted: 08/14/2002

Analyzed: 08/14/2002 12:22

LCSD 2002/08/14-01.11-003

Extracted: 08/14/2002

Analyzed: 08/14/2002 12:51

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Phenol	20.0	18.8	60.0	33.3	31.3	6.2	12-89	35		
2-Chlorophenol	44.0	42.3	60.0	73.3	70.5	3.9	23-134	25		
1,4-Dichlorobenzene	18.5	18.9	30.0	61.7	63.0	2.1	36-97	30		
N-Nitroso-di-n-propylamine	23.8	24.1	30.0	79.3	80.3	1.3	10-130	34		
1,2,4-Trichlorobenzene	19.3	17.5	30.0	64.3	58.3	9.8	44-142	35		
4-Chloro-3-methylphenol	46.3	46.2	60.0	77.2	77.0	0.3	22-147	31		
Acenaphthene	20.0	19.0	30.0	66.7	63.3	5.2	56-118	30		
4-Nitrophenol	20.9	18.6	60.0	34.8	31.0	11.6	1-132	35		
2,4-Dinitrotoluene	21.6	19.6	30.0	72.0	65.3	9.8	39-139	35		
Pentachlorophenol	34.5	31.1	60.0	57.5	51.8	10.4	45-125	35		
Pyrene	24.8	25.2	30.0	82.7	84.0	1.6	52-115	35		
<b>Surrogates(s)</b>										
Nitrobenzene-d5	18.1	16.8	25	72.4	67.2		35-114			
2-Fluorobiphenyl	17.9	16.3	25	71.6	65.2		43-116			
p-Terphenyl-d14	21.8	22.1	25	87.2	88.4		33-141			
2-Fluorophenol	23.2	22.7	50	48.4	45.4		25-100			
Phenol-d6	18.3	18.5	50	36.6	37.0		10-110			
2,4,6-Tribromophenol	35.7	33.0	50	71.4	66.0		10-123			

Submission #: 2002-08-0267

Oil & Grease (Total) by EPA 1664

Gettler Ryan

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Project: 180255.80

Tosco # 4625

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/09/2002 13:30	Water	4

Submission #: 2002-08-0267

Oil & Grease (Total) by EPA 1664

Gettler Ryan

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CA DHS ELAP# 2496

Prep(s): 1664	Test(s): 1664
Sample ID: MW-3	Lab ID: 2002-08-0267 - 4
Sampled: 08/09/2002 13:30	Extracted: 8/13/2002 00:00
Matrix: Water	QC Batch#: 2002/08/13-04.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.0	mg/L	1.00	08/13/2002	

Submission #: 2002-08-0267

Oil & Grease (Total) by EPA 1664

Gettler Ryan

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Project: 180255.80  
Tosco # 4625

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 1664

Method Blank

MB: 2002/08/13-04.23-001

Water

Test(s): 1664

QC Batch # 2002/08/13-04.23

Date Extracted: 08/13/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	1	mg/L	08/13/2002	



Submission #: 2002-08-0267

Oil & Grease (Total) by EPA 1664

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Water

QC Batch # 2002/08/13-04.23

LCS 2002/08/13-04.23-002

Extracted: 08/13/2002

Analyzed: 08/13/2002

LCSD 2002/08/13-04.23-003

Extracted: 08/13/2002

Analyzed: 08/13/2002

Compound	Conc. mg/L		Exp. Conc.	Recovery		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Oil & Grease (total)	38.8	38.9	40.0	97.0	97.3	0.3	79-114	18		

Submission #: 2002-08-0267

Diesel

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Project: 180255.80  
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CA DHS ELAP# 2496

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/09/2002 13:30	Water	4

Submission #: 2002-08-0267

SEVERN

TRENT

LABORATORY

Diesel

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CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/21/2002 11:47
Matrix:	Water	QC Batch#:	2002/08/21-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/21/2002 15:50	
<i>Surrogates(s)</i> o-Terphenyl	69.7	60-130	%	1.00	08/21/2002 15:50	

Submission #: 2002-08-0267

Diesel

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Project: 180255.80  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 3510/8015M  
Method Blank  
MB: 2002/08/21-05.10-001

Water

Test(s): 8015M  
QC Batch # 2002/08/21-05.10  
Date Extracted: 08/21/2002 11:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/21/2002 18:23	
Surrogates(s) o-Terphenyl	83.3	60-130	%	08/21/2002 18:23	

Submission #: 2002-08-0267

**SEVERN**  
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Diesel

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Tosco # 4625

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CA DHS ELAP# 2496

Batch QC Report										
Prep(s): 3510/8015M							Test(s): 8015M			
Laboratory Control Spike			Water			QC Batch # 2002/08/21-05.10				
LCS	2002/08/21-05.10-002		Extracted: 08/21/2002			Analyzed: 08/21/2002 17:07				
LCSD	2002/08/21-05.10-003		Extracted: 08/21/2002			Analyzed: 08/21/2002 17:45				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	756	697	1000	75.6	69.7	8.1	60-130	25		
Surrogates(s) o-Terphenyl	18.2	19.4	20.0	90.8	97.0		60-130	0		

Submission #: 2002-08-0267

Volatile Organic Compounds by 8260B (Low Level)

Gettler Ryan

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/09/2002 13:30	Water	4

## Volatile Organic Compounds by 8260B (Low Level)

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CA DHS ELAP# 2496

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-3

Lab ID: 2002-08-0267 - 4

Sampled: 08/09/2002 13:30

Extracted: 8/22/2002 18:52

Matrix: Water

QC Batch#: 2002/08/22-01.07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	08/22/2002 18:52	
Acetone	ND	50	ug/L	1.00	08/22/2002 18:52	
Benzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Bromobenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Bromochloromethane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Bromoform	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Bromomethane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/22/2002 18:52	
n-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
sec-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
tert-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Carbon disulfide	ND	5.0	ug/L	1.00	08/22/2002 18:52	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Chlorobenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Chloroethane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	08/22/2002 18:52	
Chloroform	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Chloromethane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
2-Chlorotoluene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
4-Chlorotoluene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Dibromomethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	

## Volatile Organic Compounds by 8260B (Low Level)

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/22/2002 18:52
Matrix:	Water	QC Batch#:	2002/08/22-01.07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Ethylbenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
2-Hexanone	ND	50	ug/L	1.00	08/22/2002 18:52	
Isopropylbenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Methylene chloride	ND	5.0	ug/L	1.00	08/22/2002 18:52	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/22/2002 18:52	
Naphthalene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
n-Propylbenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Styrene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Toluene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2002 18:52	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Trichloroethene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/22/2002 18:52	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Vinyl acetate	ND	25	ug/L	1.00	08/22/2002 18:52	
Vinyl chloride	ND	0.50	ug/L	1.00	08/22/2002 18:52	
Total xylenes	ND	1.0	ug/L	1.00	08/22/2002 18:52	
<b>Surrogates(s)</b>						
4-Bromofluorobenzene	97.8	86-115	%	1.00	08/22/2002 18:52	



Submission #: 2002-08-0267

Volatile Organic Compounds by 8260B (Low Level)

Gettler Ryan

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

Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

**SEVERN**  
**TRENT**  
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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/22/2002 18:52
Matrix:	Water	QC Batch#:	2002/08/22-01.07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,2-Dichloroethane-d4	97.0	76-114	%	1.00	08/22/2002 18:52	
Toluene-d8	102.0	88-110	%	1.00	08/22/2002 18:52	

## Volatile Organic Compounds by 8260B (Low Level)

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CA DHS ELAP# 2496

## Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2002/08/22-01.07-004

Water

Test(s): 8260B

QC Batch # 2002/08/22-01.07

Date Extracted: 08/22/2002 14:39

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	08/22/2002 14:39	
Acetone	ND	50	ug/L	08/22/2002 14:39	
Benzene	ND	0.5	ug/L	08/22/2002 14:39	
Bromodichloromethane	ND	0.5	ug/L	08/22/2002 14:39	
Bromobenzene	ND	1.0	ug/L	08/22/2002 14:39	
Bromochloromethane	ND	1.0	ug/L	08/22/2002 14:39	
Bromoform	ND	0.5	ug/L	08/22/2002 14:39	
Bromomethane	ND	1.0	ug/L	08/22/2002 14:39	
2-Butanone(MEK)	ND	50	ug/L	08/22/2002 14:39	
n-Butylbenzene	ND	1.0	ug/L	08/22/2002 14:39	
sec-Butylbenzene	ND	1.0	ug/L	08/22/2002 14:39	
tert-Butylbenzene	ND	1.0	ug/L	08/22/2002 14:39	
Carbon disulfide	ND	5.0	ug/L	08/22/2002 14:39	
Carbon tetrachloride	ND	0.5	ug/L	08/22/2002 14:39	
Chlorobenzene	ND	0.5	ug/L	08/22/2002 14:39	
Chloroethane	ND	1.0	ug/L	08/22/2002 14:39	
2-Chloroethylvinyl ether	ND	5.0	ug/L	08/22/2002 14:39	
Chloroform	ND	1.0	ug/L	08/22/2002 14:39	
Chloromethane	ND	1.0	ug/L	08/22/2002 14:39	
2-Chlorotoluene	ND	0.5	ug/L	08/22/2002 14:39	
4-Chlorotoluene	ND	0.5	ug/L	08/22/2002 14:39	
Dibromochloromethane	ND	0.5	ug/L	08/22/2002 14:39	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 14:39	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 14:39	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 14:39	
1,3-Dichloropropane	ND	1.0	ug/L	08/22/2002 14:39	
2,2-Dichloropropane	ND	0.5	ug/L	08/22/2002 14:39	
1,1-Dichloropropene	ND	0.5	ug/L	08/22/2002 14:39	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/22/2002 14:39	
1,2-Dibromoethane	ND	0.5	ug/L	08/22/2002 14:39	
Dibromomethane	ND	0.5	ug/L	08/22/2002 14:39	
Dichlorodifluoromethane	ND	0.5	ug/L	08/22/2002 14:39	
1,1-Dichloroethane	ND	0.5	ug/L	08/22/2002 14:39	

Submission #: 2002-08-0267

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Volatile Organic Compounds by 8260B (Low Level)

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B  
Method Blank  
MB: 2002/08/22-01.07-004

Water

Test(s): 8260B  
QC Batch # 2002/08/22-01.07  
Date Extracted: 08/22/2002 14:39

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2-Dichloroethane	ND	0.5	ug/L	08/22/2002 14:39	
1,1-Dichloroethene	ND	0.5	ug/L	08/22/2002 14:39	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/22/2002 14:39	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/22/2002 14:39	
1,2-Dichloropropane	ND	0.5	ug/L	08/22/2002 14:39	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/22/2002 14:39	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/22/2002 14:39	
Ethylbenzene	ND	0.5	ug/L	08/22/2002 14:39	
Hexachlorobutadiene	ND	1.0	ug/L	08/22/2002 14:39	
2-Hexanone	ND	50	ug/L	08/22/2002 14:39	
Isopropylbenzene	ND	0.5	ug/L	08/22/2002 14:39	
p-Isopropyltoluene	ND	1.0	ug/L	08/22/2002 14:39	
Methylene chloride	ND	5.0	ug/L	08/22/2002 14:39	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	08/22/2002 14:39	
Naphthalene	ND	1.0	ug/L	08/22/2002 14:39	
n-Propylbenzene	ND	1.0	ug/L	08/22/2002 14:39	
Styrene	ND	0.5	ug/L	08/22/2002 14:39	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	08/22/2002 14:39	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/22/2002 14:39	
Tetrachloroethene	ND	0.5	ug/L	08/22/2002 14:39	
Toluene	ND	0.5	ug/L	08/22/2002 14:39	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/22/2002 14:39	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/22/2002 14:39	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/22/2002 14:39	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/22/2002 14:39	
Trichloroethene	ND	0.5	ug/L	08/22/2002 14:39	
Trichlorofluoromethane	ND	1.0	ug/L	08/22/2002 14:39	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/22/2002 14:39	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	08/22/2002 14:39	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	08/22/2002 14:39	
Vinyl acetate	ND	25	ug/L	08/22/2002 14:39	
Vinyl chloride	ND	0.5	ug/L	08/22/2002 14:39	
Total xylenes	ND	1.0	ug/L	08/22/2002 14:39	

Submission #: 2002-08-0267

Volatile Organic Compounds by 8260B (Low Level)

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B  
Method Blank  
MB: 2002/08/22-01.07-004

Water

Test(s): 8260B  
QC Batch # 2002/08/22-01.07  
Date Extracted: 08/22/2002 14:39

Compound	Conc.	RL	Unit	Analyzed	Flag
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	92.8	86-115	%	08/22/2002 14:39	
1,2-Dichloroethane-d4	94.3	76-114	%	08/22/2002 14:39	
Toluene-d8	109.8	88-110	%	08/22/2002 14:39	

Volatile Organic Compounds by 8260B (Low Level)

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Project: 180255.80  
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Received: 08/13/2002 13:07

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2002/08/22-01.07

LCS 2002/08/22-01.07-002

Extracted: 08/22/2002

Analyzed: 08/22/2002 13:50

LCSD 2002/08/22-01.07-003

Extracted: 08/22/2002

Analyzed: 08/22/2002 14:14

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	19.2	19.4	20.0	96.0	97.0	1.0	69-129	20		
Chlorobenzene	20.8	20.8	20.0	104.0	104.0	0.0	61-121	20		
1,1-Dichloroethene	22.5	22.4	20.0	112.5	112.0	0.4	65-125	20		
Toluene	21.7	22.2	20.0	108.5	111.0	2.3	70-130	20		
Trichloroethene	16.6	17.2	20.0	83.0	86.0	3.6	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	478	449	500	95.6	89.8		86-115			
1,2-Dichloroethane-d4	468	434	500	93.6	86.8		76-114			
Toluene-d8	528	535	500	105.6	107.0		88-110			

Submission #: 2002-08-0267

Metals

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/09/2002 13:30	Water	4

Submission #: 2002-08-0267

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LABORATORY

Metals

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
Oakland, CA

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CA DHS ELAP# 2496

Prep(s):	3010A	Test(s):	6010B
Sample ID:	MW-3	Lab ID:	2002-08-0267 - 4
Sampled:	08/09/2002 13:30	Extracted:	8/14/2002 04:21
Matrix:	Water	QC Batch#:	2002/08/14-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Chromium	0.70	0.0050	mg/L	1.00	08/14/2002 13:48	

Submission #: 2002-08-0267

Metals

Gettler Ryan

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Project: 180255.80  
Tosco # 4625

Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 3010A

Method Blank

MB: 2002/08/14-01.15-059

Water

Test(s): 6010B

QC Batch # 2002/08/14-01.15

Date Extracted: 08/14/2002 04:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Chromium	ND	0.0050	mg/L	08/14/2002 12:23	



**Metals**

Gettler Ryan  
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Project: 180255.80  
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Received: 08/13/2002 13:07

Site: 3070 Fruitvale Ave.  
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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 3010A Test(s): 6010B

Laboratory Control Spike Water QC Batch # 2002/08/14-01.15

LCS 2002/08/14-01.15-060 Extracted: 08/14/2002 Analyzed: 08/14/2002 12:28

LCSD 2002/08/14-01.15-061 Extracted: 08/14/2002 Analyzed: 08/14/2002 12:32

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Chromium	0.513	0.522	0.500	102.6	104.4	1.7	80-120	20		