



GETTLER-RYAN INC.

TRANSMITTAL

January 8, 2002

G-R #180255

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	December 21, 2001	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of November 7, 2001

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **January 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.

December 21, 2001
G-R Job #180255

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

RE: Fourth Quarter Event of November 7, 2001
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 as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 and 3. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

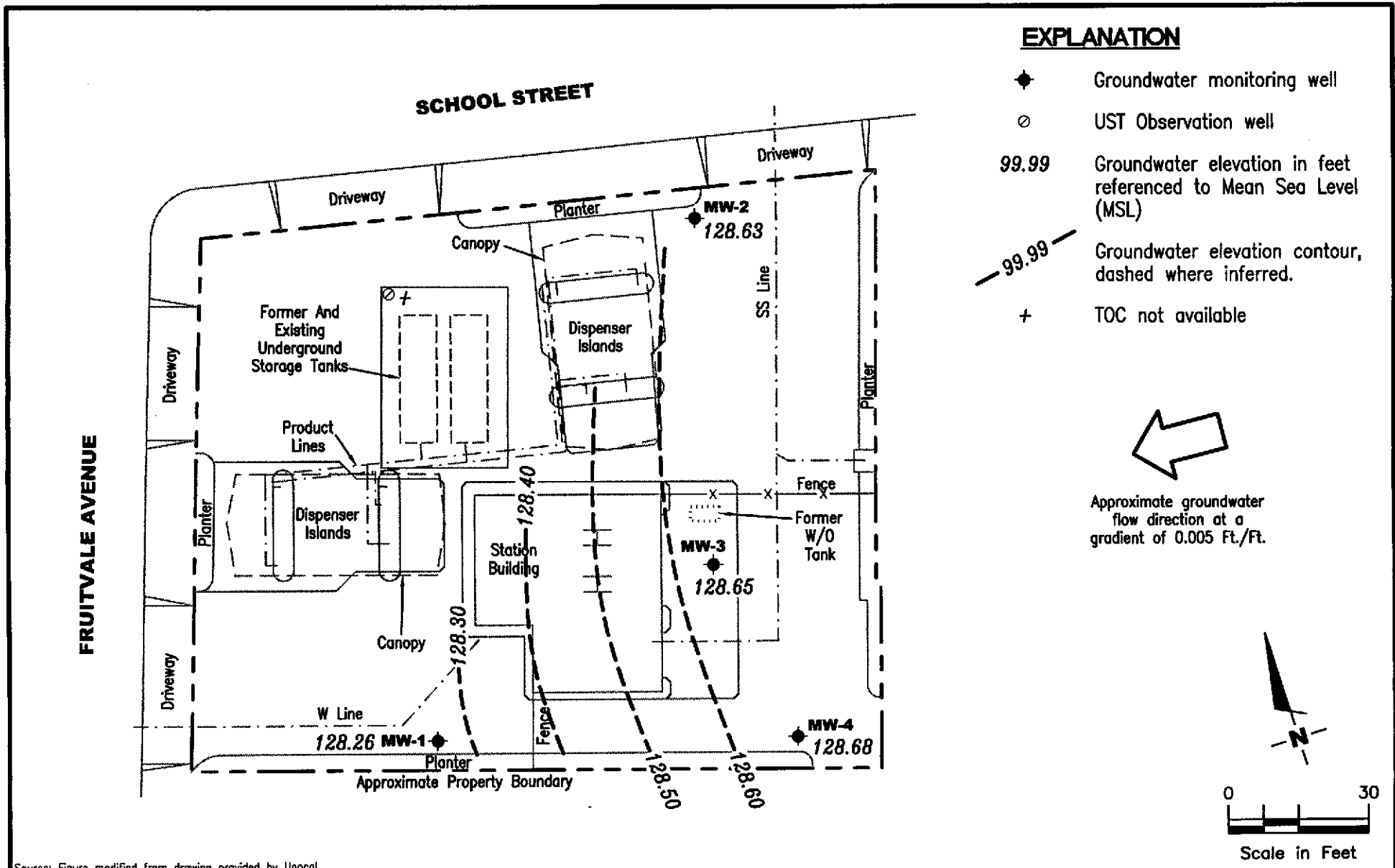
Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



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

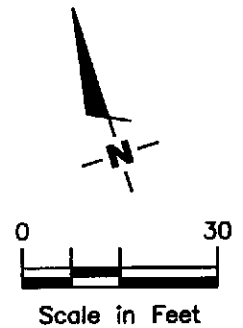
4625.qml



EXPLANATION

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

←
Approximate groundwater flow direction at a gradient of 0.005 Ft./Ft.



Source: Figure modified from drawing provided by Unocal.

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

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

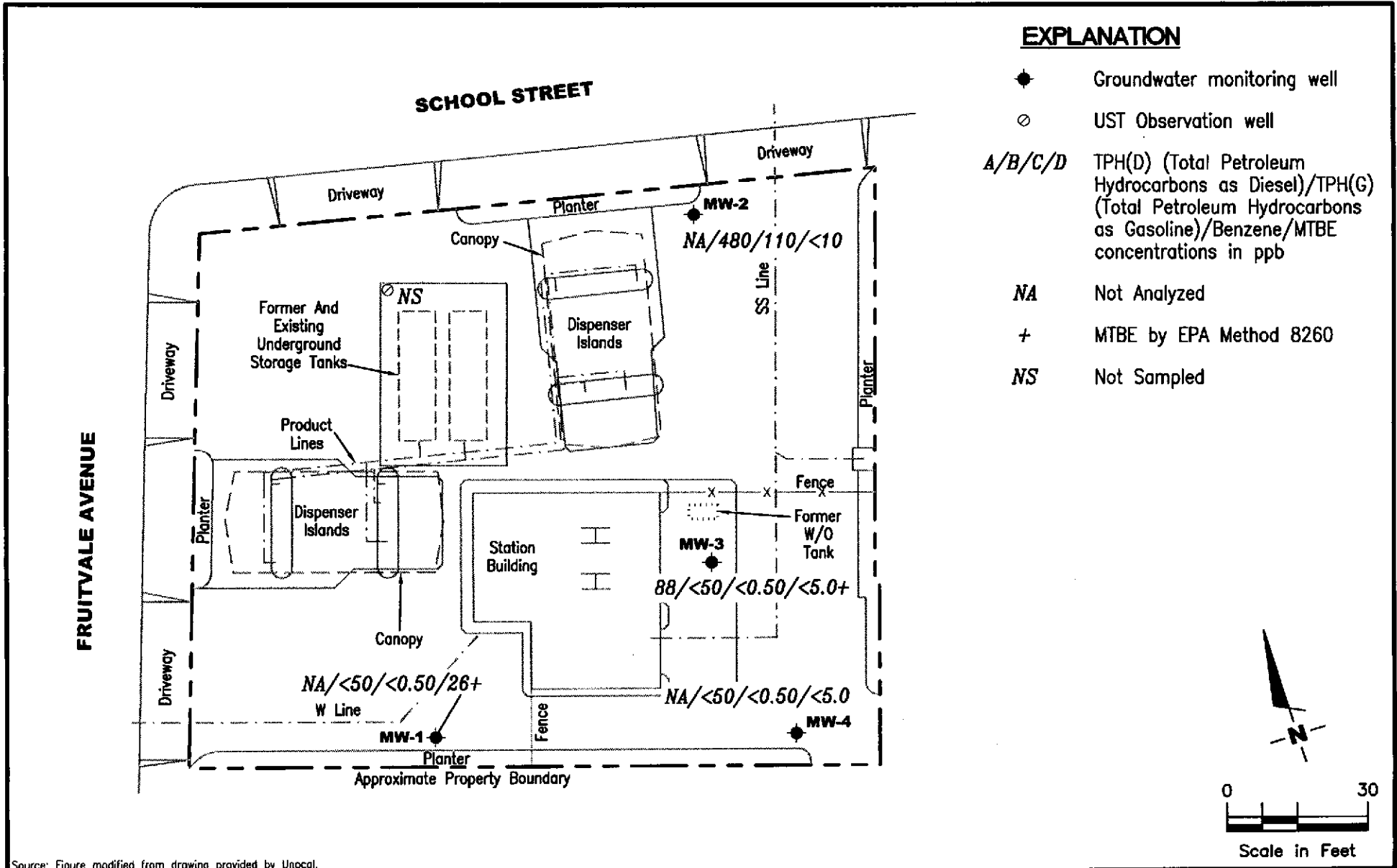
FIGURE
1

PROJECT NUMBER
180255

REVIEWED BY

DATE
November 7, 2001

REVISED DATE



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 Dublin, CA 94568 (925) 551-7555

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

FIGURE
2

PROJECT NUMBER 180255 REVIEWED BY DATE November 7, 2001 REVISED DATE

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

WELL ID/ TOC*	DATE	DTW (ft.)	SL (ft.lgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1											
136.36	05/03/00	11.81	5.0-25.0	124.55	--	ND	ND	ND	ND	ND	11/14 ²
	07/28/00	7.79		128.57	--	ND	ND	ND	ND	ND	21/19 ²
	10/29/00	7.90		128.46	--	62 ¹	ND	ND	ND	ND	6.5/3.9 ²
	02/09/01	7.95		128.41	--	ND	ND	ND	ND	ND	9.0/9.0 ²
	05/11/01	7.22		129.14	--	ND	ND	ND	ND	ND	12.7/16.3 ²
	08/10/01	8.47		127.89	--	<50	<0.50	<0.50	<0.50	<0.50	17/19 ⁷
	11/07/01	8.10		128.26	--	<50	<0.50	<0.50	<0.50	<0.50	22/26 ²
MW-2											
138.64	05/03/00	8.59	5.0-25.0	130.05	--	2,400 ¹	53	ND ³	ND ³	240	³ ND/ND ²
	07/28/00	9.95		128.69	--	2,200 ¹	680	4.1	57	270	24/ND ²
	10/29/00	8.38		130.26	--	490 ¹	67	ND ³	23	22	ND ³
	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 ¹	20	<0.50	2.1	9.4	<5.0
	11/07/01	10.01		128.63	--	480 ¹	110	<1.0	26	42	<10
MW-3											
137.68	05/03/00	7.60	5.0-25.0	130.08	93 ⁵	ND	ND	ND	ND	ND	ND/ND ⁴
	07/28/00	8.82		128.86	ND ³	ND	ND	ND	ND	ND	ND/ND ⁴
	10/29/00	7.33		130.35	ND	ND	ND	ND	ND	ND	ND
	02/09/01	7.40		130.28	72 ⁶	ND	ND	ND	ND	ND	ND
	05/11/01	7.90		129.78	ND	ND	ND	ND	ND	ND	ND
	08/10/01	9.09		128.59	63 ⁸	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/07/01	9.03		128.65	88 ⁸	<50	<0.50	<0.50	<0.50	<0.50	<5.0

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

WELL ID/ TOC*	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4											
136.60	05/03/00	6.48	5.0-25.0	130.12	--	ND	ND	ND	ND	ND	ND/ND ²
	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
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		--	--	--	--	--	--	--	--
Trip Blank											
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

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

EXPLANATIONS:

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
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

- * TOC elevations were surveyed based on a cut square on School Street, City of Oakland Benchmark No. 3783, (Elevation = 136.99 feet, msl).
- ¹ Laboratory report indicates gasoline C6-C12.
- ² MTBE by EPA Method 8260.
- ³ Detection limit raised. Refer to analytical reports.
- ⁴ MTBE by EPA Method 8240.
- ⁵ Laboratory report indicates unidentified hydrocarbons C9-C24.
- ⁶ Laboratory report indicates discrete peaks.
- ⁷ MTBE by EPA Method 8260 was analyzed beyond the EPA recommended holding time.
- ⁸ Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitaion range but does not resemble the pattern of the requested fuel.

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)	SVOCs by EPA 8270 (ppb)	Chromium (ppm)	TOG (ppm)
MW-3	05/03/00	ND	--	ND	ND	ND
	07/28/00	ND ¹	--	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 ²	<5.0-<50	<0.010	<5.0

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

¹ All VOCs by EPA Method 8240 were ND, except for Tetrachloroethene (PCE) was detected at 2.7 ppb.

² All VOCs by EPA Method 8021 were less than the reporting limit, except for Trichloroethane (TCE) was detected at 0.55 ppb.

ANALYTICAL METHODS:

EPA 200 Series Methods for Chromium

EPA Method SM5520 for Total Oil and Grease

NOTE: All EPA Method 8240, 8021 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 ¹	<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
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

¹ 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 Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 4625
Address: 3070 Fruitvale Ave.
City: Oakland, CA.

Job#: 180255
Date: 11-7-01
Sampler: Joe

Well ID MW-1

Well Condition: O.K.

Well Diameter 2 in.

Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)

Total Depth 25.06 ft.

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

Depth to Water 8.10 ft.

16.96 x VF 0.17 = 2.88 x 3 (case volume) = Estimated Purge Volume: 9 (gal.)

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

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

Starting Time: 12:30

Weather Conditions: clear

Sampling Time: 12:51 P.M. (1251)

Water Color: clear Odor: none

Purging Flow Rate: 1 gpm

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:40</u>	<u>3</u>	<u>7.25</u>	<u>7.96</u>	<u>71.6</u>	_____	_____	_____
<u>12:42</u>	<u>6</u>	<u>7.35</u>	<u>8.02</u>	<u>71.3</u>	_____	_____	_____
<u>12:44</u>	<u>9</u>	<u>7.38</u>	<u>8.12</u>	<u>71.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 4625 Job#: 180255
Address: 3070 Fruitvale Ave. Date: 11-7-01
City: Oakland, CA Sampler: Joe

Well ID MW-2 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)
Total Depth 24.28 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
Depth to Water 10.01 ft. Factor (VF) 6" = 1.50 12" = 5.80

14.27 x VF 0.17 = 2.43 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

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

Starting Time: 1:05 Weather Conditions: clear
Sampling Time: 1:30 p.m. (1330) Water Color: clear Odor: none
Purging Flow Rate: 1 gpm Sediment Description: _____
Did well de-water? _____ If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \cdot \text{K}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1:15</u>	<u>2.5</u>	<u>7.71</u>	<u>8.98</u>	<u>72.2</u>			
<u>1:17</u>	<u>5</u>	<u>7.31</u>	<u>9.12</u>	<u>72.1</u>			
<u>1:19</u>	<u>7.5</u>	<u>7.38</u>	<u>9.16</u>	<u>71.8</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 4625 Job#: 180255
 Address: 3070 Fruitvale Ave. Date: 11-7-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-3 Well Condition: O.K.
 Well Diameter 2 in. Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)
 Total Depth 24.73 ft
 Depth to Water 9.03 ft

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

15.7 x VF 0.17 = 2.67 x 3 (case volume) = Estimated Purge Volume: 8 (gal.)

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

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

Starting Time: 11:40 Weather Conditions: clear
 Sampling Time: 12:04 (1214) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:46</u>	<u>3.5</u>	<u>7.27</u>	<u>9.66</u>	<u>72.1</u>	_____	_____	_____
<u>11:48</u>	<u>5</u>	<u>7.32</u>	<u>9.58</u>	<u>71.6</u>	_____	_____	_____
<u>11:50</u>	<u>8</u>	<u>7.26</u>	<u>9.54</u>	<u>71.4</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 Vol</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>
	<u>2 Vol A</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>VOC's by 8240</u>
	<u>1 Amb</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>SVOC's by 8270</u>
	<u>1 Amb</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>TPHD</u>
COMMENTS:	<u>1 plastic</u>	<u>"</u>	<u>HCL</u>	<u>"</u>	<u>Oil & Grease</u>
			<u>HN03</u>	<u>"</u>	<u>Total Chromium</u>

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 4625 Job#: 180255
 Address: 3070 Fruitvale Ave. Date: 11-7-01
 City: Oakland, CA Sampler: Soe

Well ID MW-4 Well Condition: O.K.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal)
 Total Depth 24.65 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 7.92 ft. 6" = 1.50 12" = 5.80

16.73 X VF 0.17 = 284 X 3 (case volume) = Estimated Purge Volume: 9 (gal)

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

Starting Time: 11:00 Weather Conditions: clear
 Sampling Time: 11:30 A.M. (1130) Water Color: clear Odor: none
 Purging Flow Rate: 1 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity $\mu\text{mhos/cm} \times 10^2$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:10	3	7.70	12.39	71.6			
11:12	6	7.47	12.46	71.5			
11:14	9	7.55	12.42	71.5			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3Yot	Y	HCL	Seq.	TPHG, BTEX, MTBE

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 4625 Job#: 180255
 Address: 3070 Fruitvale Ave. Date: 11-7-01
 City: Oakland, CA Sampler: Joe

Well ID MW05 UST Observation Well Well Condition: O.K.

Well Diameter 6 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal)

Total Depth 0 ft
 Depth to Water 9.33 ft

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

0.17 X VF = 0.17 X 3 (case volume) = Estimated Purge Volume: _____ (gal)

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

Starting Time: _____ Weather Conditions: clear
 Sampling Time: _____ Water Color: clear Odor: _____
 Purging Flow Rate: _____ gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal)

Time	Volume (gal)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>3Y04</u>	<u>Y</u>	<u>HCL</u>	<u>Seq.</u>	<u>TPHG, BTEX, MTBE</u>

COMMENTS: M. only



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

Facility Number TOSCO #4625
Facility Address 3070 Fruitvale Ave., Oakland, CA
Constituent Project Number 180255
Constituent Name Gattler-Ryan Inc. (G-R Inc.)
Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name) MR. Dave DeWitt
(Phone) 925-277-2384
Laboratory Name Sequoia Analytical
Laboratory Release Number _____
Samples Collected by (Name) JOE ASEMIAN
Collection Date 11-7-01
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Load (Yes or No)	Analyses To Be Performed															
								TPH Gas + BTX W/MIS (8016)	TPH Diesel (8015)	Oil and Grease (8020)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8040)	Extractable Organics (8070)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	VOC's by 8240	SVOC's by 8270	Total Chromium					
TB-LB	01	1	W	G	-	HCL	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-1	02	1			1251	/	/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-2	03	1			1330	/	/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-3	04	1			1214	/	/	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-4	05	1			1130	/	/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DO NOT BILL
TB-LB ANALYSIS**

*Run 8 Oxy's by
8260 on all 802's
MTRC but*

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time <u>11-7-01 15:50</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEQ S.C.</u>	Date/Time <u>11/7/01 15:50</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)

24 Hrs.

48 Hrs.

5 Days

10 Days

As Contracted



**Sequoia
Analytical**

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

21 November, 2001

RECEIVED

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

GETTLER-RYAN INC.
GENERAL CONTRACTORS

RE: Tosco(1)
Sequoia Report: L111068

Enclosed are the results of analyses for samples received by the laboratory on 11/07/01 15:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #2360



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L111068-01	Water	11/07/01 00:00	11/07/01 15:50
MW-1	L111068-02	Water	11/07/01 12:51	11/07/01 15:50
MW-2	L111068-03	Water	11/07/01 13:30	11/07/01 15:50
MW-3	L111068-04	Water	11/07/01 12:14	11/07/01 15:50
MW-4	L111068-05	Water	11/07/01 11:30	11/07/01 15:50

Sequoia Analytical - San Carlos

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

Latonya Pelt, Project Manager



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L111068-01) Water Sampled: 11/07/01 00:00 Received: 11/07/01 15:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1110045	11/13/01	11/13/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.3 %	70-130		"	"	"	"	
MW-1 (L111068-02) Water Sampled: 11/07/01 12:51 Received: 11/07/01 15:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1110045	11/13/01	11/13/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	22	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.7 %	70-130		"	"	"	"	
MW-2 (L111068-03) Water Sampled: 11/07/01 13:30 Received: 11/07/01 15:50									
Purgeable Hydrocarbons as Gasoline	480	100	ug/l	2	1110045	11/13/01	11/13/01	EPA 8021B	P-01
Benzene	110	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	26	1.0	"	"	"	"	"	"	
Xylenes (total)	42	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.2 %	70-130		"	"	"	"	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1110045	11/13/01	11/13/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.8 %		70-130	"	"	"	"	
MW-4 (L111068-05) Water Sampled: 11/07/01 11:30 Received: 11/07/01 15:50									
Purgeable Hydrocarbons as Gasoline	ND	50	ug/l	1	1110045	11/13/01	11/13/01	EPA 8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.9 %		70-130	"	"	"	"	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic Compounds by EPA Method 8240B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Acetone	ND	20	ug/l	1	1110044	11/13/01	11/13/01	EPA Method 8240	
Benzene	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
2-Butanone	ND	20	"	"	"	"	"	"	
Carbon disulfide	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
2-Hexanone	ND	20	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	20	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
Vinyl acetate	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Total Xylenes	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %		76-114	"	"	"	"	
Surrogate: Toluene-d8		97.2 %		88-110	"	"	"	"	

Sequoia Analytical - San Carlos

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Volatile Organic Compounds by EPA Method 8240B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
<i>Surrogate: 4-BFB</i>		94.0 %	86-115		1110044	11/13/01	11/13/01	EPA Method 8240	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic Compounds by EPA Method 8021B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Freon 113	ND	1.0	ug/l	1	1110057	11/20/01	11/21/01	EPA 8021B	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
1,1,1-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Trichloroethene	0.55	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>		95.8 %		70-130	"	"	"	"	

Sequoia Analytical - San Carlos

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L111068-02) Water Sampled: 11/07/01 12:51 Received: 11/07/01 15:50									
Ethanol	ND	500	ug/l	1	1110059	11/16/01	11/16/01	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	26	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %		70-130	"	"	"	"	

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Diesel Hydrocarbons (C10-C23) by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Diesel Range Hydrocarbons (C10-C23)	88	50	ug/l	1	1K09010	11/14/01	11/16/01	EPA 8015M	HC-12
<i>Surrogate: n-Pentacosane</i>		59.2 %	50-150		"	"	"	"	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Total Metals by EPA 200 Series Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Chromium	ND	0.010	mg/l	1	1K13020	11/13/01	11/14/01	EPA 200.7	

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

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

 Reported:
 11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Acenaphthene	ND	5.0	ug/l	1	1K12025	11/14/01	11/14/01	EPA 8270C	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Aniline	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzoic acid	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.0	"	"	"	"	"	"	
Benzo[a]pyrene	ND	5.0	"	"	"	"	"	"	
Benzyl alcohol	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	50	"	"	"	"	"	"	
4-Chloroaniline	ND	25	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Fluorene	ND	5.0	ug/l	1	1K12025	11/14/01	11/14/01	EPA 8270C	
Hexachlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
4-Methylphenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	5.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		28.8 %		21-110	"	"	"	"	
<i>Surrogate: Phenol-d6</i>		19.9 %		10-110	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		65.4 %		35-114	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		63.5 %		43-116	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		55.5 %		10-123	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		46.2 %		33-141	"	"	"	"	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L111068-04) Water Sampled: 11/07/01 12:14 Received: 11/07/01 15:50									
Oil & Grease	ND	5.0	mg/l	1	1K14010	11/14/01	11/14/01	SM 5520B	



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6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110045 - EPA 5030B (P/T)

Blank (1110045-BLK1)

Prepared & Analyzed: 11/13/01

Purgeable Hydrocarbons as Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	5.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.2		"	10.0		102	70-130			

LCS (1110045-BS1)

Prepared & Analyzed: 11/13/01

Benzene	9.89	0.50	ug/l	10.0		98.9	70-130			
Toluene	10.1	0.50	"	10.0		101	70-130			
Ethylbenzene	9.85	0.50	"	10.0		98.5	70-130			
Xylenes (total)	29.7	0.50	"	30.0		99.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.77		"	10.0		97.7	70-130			

LCS (1110045-BS2)

Prepared & Analyzed: 11/13/01

Purgeable Hydrocarbons as Gasoline	245	50	ug/l	250		98.0	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	11.5		"	10.0		115	70-130			

Matrix Spike (1110045-MS1)

Source: L111041-04

Prepared & Analyzed: 11/13/01

Benzene	11.9	0.50	ug/l	10.0	ND	119	60-140			
Toluene	11.7	0.50	"	10.0	ND	117	60-140			
Ethylbenzene	11.8	0.50	"	10.0	ND	118	60-140			
Xylenes (total)	35.1	0.50	"	30.0	ND	117	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	7.96		"	10.0		79.6	70-130			

Matrix Spike Dup (1110045-MSD1)

Source: L111041-04

Prepared & Analyzed: 11/13/01

Benzene	11.3	0.50	ug/l	10.0	ND	113	60-140	5.17	25	
Toluene	11.2	0.50	"	10.0	ND	112	60-140	4.37	25	
Ethylbenzene	11.4	0.50	"	10.0	ND	114	60-140	3.45	25	
Xylenes (total)	33.8	0.50	"	30.0	ND	113	60-140	3.77	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.39		"	10.0		83.9	70-130			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Volatile Organic Compounds by EPA Method 8240B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110044 - EPA 5030B [P/T]

Prepared & Analyzed: 11/12/01

Blank (1110044-BLK1)

Acetone	ND	20	ug/l							
Benzene	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
2-Butanone	ND	20	"							
Carbon disulfide	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
2-Chloroethylvinyl ether	ND	20	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
Dibromochloromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
2-Hexanone	ND	20	"							
Methylene chloride	ND	5.0	"							
4-Methyl-2-pentanone	ND	20	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
Toluene	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
Vinyl acetate	ND	5.0	"							
Vinyl chloride	ND	2.0	"							

Sequoia Analytical - San Carlos

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Gettler-Ryan/Geostrategies(1)
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 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

 Reported:
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Volatile Organic Compounds by EPA Method 8240B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110044 - EPA 5030B [P/T]
Blank (1110044-BLK1)

Prepared & Analyzed: 11/12/01

Total Xylenes	ND	2.0	ug/l							
Surrogate: 1,2-Dichloroethane-d4	52.3		"	50.0		105	76-114			
Surrogate: Toluene-d8	50.6		"	50.0		101	88-110			
Surrogate: 4-BFB	45.0		"	50.0		90.0	86-115			

Blank (1110044-BLK2)

Prepared & Analyzed: 11/13/01

Acetone	ND	20	ug/l							
Benzene	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
2-Butanone	ND	20	"							
Carbon disulfide	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
1-Chloroethylvinyl ether	ND	20	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
Dibromochloromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
2-Hexanone	ND	20	"							
Methylene chloride	ND	5.0	"							
4-Methyl-2-pentanone	ND	20	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
Toluene	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic Compounds by EPA Method 8240B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110044 - EPA 5030B [P/T]
Blank (1110044-BLK2)

Prepared & Analyzed: 11/13/01

1,1,2-Trichloroethane	ND	2.0	ug/l							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
Vinyl acetate	ND	5.0	"							
Vinyl chloride	ND	2.0	"							
Total Xylenes	ND	2.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.1		"	50.0		102	76-114			
<i>Surrogate: Toluene-d8</i>	50.5		"	50.0		101	88-110			
<i>Surrogate: 4-BFB</i>	44.1		"	50.0		88.2	86-115			

LCS (1110044-BS1)

Prepared & Analyzed: 11/12/01

Benzene	21.8	2.0	ug/l	20.0		109	65-135			
Chlorobenzene	22.6	2.0	"	20.0		113	70-130			
1,1-Dichloroethene	19.9	2.0	"	20.0		99.5	70-130			
Toluene	21.7	2.0	"	20.0		108	70-130			
Trichloroethene	20.3	2.0	"	20.0		102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.6		"	50.0		105	76-114			
<i>Surrogate: Toluene-d8</i>	51.4		"	50.0		103	88-110			
<i>Surrogate: 4-BFB</i>	51.1		"	50.0		102	86-115			

LCS (1110044-BS2)

Prepared & Analyzed: 11/13/01

Benzene	21.7	2.0	ug/l	20.0		108	65-135			
Chlorobenzene	21.5	2.0	"	20.0		108	70-130			
1,1-Dichloroethene	20.3	2.0	"	20.0		102	70-130			
Toluene	20.3	2.0	"	20.0		102	70-130			
Trichloroethene	18.7	2.0	"	20.0		93.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.5		"	50.0		109	76-114			
<i>Surrogate: Toluene-d8</i>	49.6		"	50.0		99.2	88-110			
<i>Surrogate: 4-BFB</i>	46.4		"	50.0		92.8	86-115			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic Compounds by EPA Method 8240B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110044 - EPA 5030B [P/T]

Matrix Spike (1110044-MS1)

Source: L111032-01

Prepared & Analyzed: 11/12/01

Benzene	21.7	2.0	ug/l	20.0	ND	108	60-140			
Chlorobenzene	22.5	2.0	"	20.0	ND	112	60-140			
1,1-Dichloroethene	19.7	2.0	"	20.0	ND	98.5	60-140			
Toluene	21.5	2.0	"	20.0	ND	108	60-140			
Trichloroethene	19.9	2.0	"	20.0	ND	99.5	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.1		"	50.0		102	76-114			
Surrogate: Toluene-d8	50.5		"	50.0		101	88-110			
Surrogate: 4-BFB	47.0		"	50.0		94.0	86-115			

Matrix Spike Dup (1110044-MSD1)

Source: L111032-01

Prepared & Analyzed: 11/12/01

Benzene	22.3	2.0	ug/l	20.0	ND	112	60-140	2.73	25	
Chlorobenzene	22.3	2.0	"	20.0	ND	112	60-140	0.893	25	
1,1-Dichloroethene	20.5	2.0	"	20.0	ND	102	60-140	3.98	25	
Toluene	21.9	2.0	"	20.0	ND	110	60-140	1.84	25	
Trichloroethene	19.9	2.0	"	20.0	ND	99.5	60-140	0.00	25	
Surrogate: 1,2-Dichloroethane-d4	53.0		"	50.0		106	76-114			
Surrogate: Toluene-d8	51.0		"	50.0		102	88-110			
Surrogate: 4-BFB	48.4		"	50.0		96.8	86-115			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110057 - EPA 5030B (P/T)

Prepared & Analyzed: 11/20/01

Blank (1110057-BLK1)

Freon 113	ND	1.0	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	1.0	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Total Xylenes	ND	0.50	"							
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	9.18		"	10.0		91.8	70-130			

Sequoia Analytical - San Carlos

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Volatile Organic Compounds by EPA Method 8021B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110057 - EPA 5030B (P/T)

LCS (1110057-BS1)

Prepared & Analyzed: 11/20/01

Chlorobenzene	11.1	0.50	ug/l	10.0		111	70-130			
1,1-Dichloroethene	8.54	0.50	"	10.0		85.4	70-130			
Trichloroethene	9.55	0.50	"	10.0		95.5	70-130			
Benzene	9.83	0.50	"	10.0		98.3	70-130			
Toluene	9.99	0.50	"	10.0		99.9	70-130			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>9.60</i>		<i>"</i>	<i>10.0</i>		<i>96.0</i>	<i>70-130</i>			

Matrix Spike (1110057-MS1)

Source: L111062-03

Prepared & Analyzed: 11/20/01

Chlorobenzene	9.45	0.50	ug/l	10.0	ND	94.5	60-140			
1,1-Dichloroethene	9.02	0.50	"	10.0	ND	90.2	60-140			
Trichloroethene	9.68	0.50	"	10.0	ND	96.8	60-140			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>8.41</i>		<i>"</i>	<i>10.0</i>		<i>84.1</i>	<i>70-130</i>			

Matrix Spike Dup (1110057-MSD1)

Source: L111062-03

Prepared & Analyzed: 11/20/01

Chlorobenzene	8.46	0.50	ug/l	10.0	ND	84.6	60-140	11.1	25	
1,1-Dichloroethene	8.25	0.50	"	10.0	ND	82.5	60-140	8.92	25	
Trichloroethene	8.65	0.50	"	10.0	ND	86.5	60-140	11.2	25	
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>8.52</i>		<i>"</i>	<i>10.0</i>		<i>85.2</i>	<i>70-130</i>			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1110059 - EPA 5030B [P/T]

Blank (1110059-BLK1)										
Prepared & Analyzed: 11/15/01										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
Surrogate: 1,2-Dichloroethane-d4	46.5		"	50.0		93.0	70-130			
Surrogate: Toluene-d8	56.5		"	50.0		113	70-130			

Blank (1110059-BLK2)										
Prepared & Analyzed: 11/16/01										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
Surrogate: 1,2-Dichloroethane-d4	44.2		"	50.0		88.4	70-130			
Surrogate: Toluene-d8	50.9		"	50.0		102	70-130			

LCS (1110059-BS1)										
Prepared & Analyzed: 11/15/01										
Methyl tert-butyl ether	52.5	1.0	ug/l	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	43.6		"	50.0		87.2	70-130			
Surrogate: Toluene-d8	60.8		"	50.0		122	70-130			

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

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

 Reported:
 11/21/01 16:22

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110059 - EPA 5030B [P/T]										
LCS (1110059-BS2)										
				Prepared & Analyzed: 11/16/01						
Methyl tert-butyl ether	49.0	1.0	ug/l	50.0		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	44.6		"	50.0		89.2	70-130			
Surrogate: Toluene-d8	55.6		"	50.0		111	70-130			
Matrix Spike (1110059-MS1)										
				Source: L111088-04			Prepared & Analyzed: 11/15/01			
Methyl tert-butyl ether	86.7	1.0	ug/l	50.0	39	95.4	60-140			
Surrogate: 1,2-Dichloroethane-d4	44.3		"	50.0		88.6	70-130			
Surrogate: Toluene-d8	57.4		"	50.0		115	70-130			
Matrix Spike Dup (1110059-MSD1)										
				Source: L111088-04			Prepared & Analyzed: 11/15/01			
Methyl tert-butyl ether	85.9	1.0	ug/l	50.0	39	93.8	60-140	1.69	25	
Surrogate: 1,2-Dichloroethane-d4	45.1		"	50.0		90.2	70-130			
Surrogate: Toluene-d8	57.5		"	50.0		115	70-130			



Gettler-Ryan/Geostrategies(1) 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Tosco(1) Project Number: Tosco #4625, Oakland, CA Project Manager: Deanna Harding	Reported: 11/21/01 16:22
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Diesel Hydrocarbons (C10-C23) by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K09010 - EPA 3510B										
Blank (1K09010-BLK1)					Prepared: 11/09/01 Analyzed: 11/12/01					
Diesel Range Hydrocarbons (C10-C23)	ND	50	ug/l							
Surrogate: n-Pentacosane	47.3		"	33.3		142	50-150			
Blank (1K09010-BLK2)					Prepared: 11/14/01 Analyzed: 11/15/01					
Diesel Range Hydrocarbons (C10-C23)	ND	50	ug/l							
Surrogate: n-Pentacosane	19.3		"	33.3		58.0	50-150			
LCS (1K09010-BS1)					Prepared: 11/09/01 Analyzed: 11/12/01					
Diesel Range Hydrocarbons (C10-C23)	483	50	ug/l	500		96.6	60-140			
Surrogate: n-Pentacosane	49.3		"	33.3		148	50-150			
LCS Dup (1K09010-BSD1)					Prepared: 11/09/01 Analyzed: 11/12/01					
Diesel Range Hydrocarbons (C10-C23)	569	50	ug/l	500		114	60-140	16.3	50	
Surrogate: n-Pentacosane	57.7		"	33.3		173	50-150			S-LIM



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

**Total Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K13020 - 200.7										
Blank (1K13020-BLK1)										
				Prepared: 11/13/01 Analyzed: 11/14/01						
Chromium	ND	0.010	mg/l							
LCS (1K13020-BS1)										
				Prepared: 11/13/01 Analyzed: 11/14/01						
Chromium	0.974	0.010	mg/l	1.00		97.4	80-120			
LCS Dup (1K13020-BSD1)										
				Prepared: 11/13/01 Analyzed: 11/14/01						
Chromium	1.01	0.010	mg/l	1.00		101	80-120	3.63	20	
Matrix Spike (1K13020-MS1)										
				Source: L111068-04		Prepared: 11/13/01 Analyzed: 11/14/01				
Chromium	0.981	0.010	mg/l	1.00	ND	98.1	80-120			
Matrix Spike Dup (1K13020-MSD1)										
				Source: L111068-04		Prepared: 11/13/01 Analyzed: 11/14/01				
Chromium	0.968	0.010	mg/l	1.00	ND	96.8	80-120	1.33	20	



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel

Prepared: 11/12/01 Analyzed: 11/14/01

Blank (1K12025-BLK1)

Acenaphthene	ND	5.0	ug/l
Acenaphthylene	ND	5.0	"
Aniline	ND	5.0	"
Anthracene	ND	5.0	"
Benzoic acid	ND	10	"
Benzo (a) anthracene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Benzo (ghi) perylene	ND	5.0	"
Benzo[a]pyrene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	10	"
4-Bromophenyl phenyl ether	ND	5.0	"
Butyl benzyl phthalate	ND	50	"
4-Chloroaniline	ND	25	"
2-Chloronaphthalene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Chlorophenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	10	"
Dibenzofuran	ND	5.0	"
Di-n-butyl phthalate	ND	10	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	10	"
3,3'-Dichlorobenzidine	ND	10	"
2,4-Dichlorophenol	ND	5.0	"
Diethyl phthalate	ND	5.0	"
2,4-Dimethylphenol	ND	5.0	"
Dimethyl phthalate	ND	5.0	"
4,6-Dinitro-2-methylphenol	ND	10	"
2,4-Dinitrophenol	ND	10	"

Sequoia Analytical - San Carlos

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

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel
Blank (1K12025-BLK1)

Prepared: 11/12/01 Analyzed: 11/14/01

2,4-Dinitrotoluene	ND	10	ug/l							
2,6-Dinitrotoluene	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	5.0	"							
2-Nitrophenol	ND	5.0	"							
4-Nitrophenol	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodiphenylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	10	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	5.0	"							
Pyrene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
<i>Surrogate: 2-Fluorophenol</i>	55.4		"	150		36.9	21-110			
<i>Surrogate: Phenol-d6</i>	37.0		"	150		24.7	10-110			
<i>Surrogate: Nitrobenzene-d5</i>	74.8		"	100		74.8	35-114			
<i>Surrogate: 2-Fluorobiphenyl</i>	74.0		"	100		74.0	43-116			
<i>Surrogate: 2,4,6-Tribromophenol</i>	89.1		"	150		59.4	10-123			

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

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

 Reported:
 11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel
Blank (1K12025-BLK1)

Prepared: 11/12/01 Analyzed: 11/14/01

Surrogate: <i>p</i> -Terphenyl-d14	76.9		ug/l	100		76.9	33-141			
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Blank (1K12025-BLK2)

Prepared & Analyzed: 11/14/01

Accnaphthenc	ND	5.0	ug/l							
Acenaphthylene	ND	5.0	"							
Aniline	ND	5.0	"							
Anthracene	ND	5.0	"							
Benzoic acid	ND	10	"							
Benzo (a) anthracene	ND	5.0	"							
Benzo (b) fluoranthene	ND	5.0	"							
Benzo (k) fluoranthene	ND	5.0	"							
Benzo (ghi) perylene	ND	5.0	"							
Benzo[a]pyrene	ND	5.0	"							
Benzyl alcohol	ND	5.0	"							
Bis(2-chloroethoxy)methane	ND	5.0	"							
Bis(2-chloroethyl)ether	ND	5.0	"							
Bis(2-chloroisopropyl)ether	ND	5.0	"							
Bis(2-ethylhexyl)phthalate	ND	10	"							
4-Bromophenyl phenyl ether	ND	5.0	"							
Butyl benzyl phthalate	ND	50	"							
4-Chloroaniline	ND	25	"							
2-Chloronaphthalene	ND	5.0	"							
4-Chloro-3-methylphenol	ND	5.0	"							
2-Chlorophenol	ND	5.0	"							
4-Chlorophenyl phenyl ether	ND	5.0	"							
Chrysene	ND	5.0	"							
Dibenz (a,h) anthracene	ND	10	"							
Dibenzofuran	ND	5.0	"							
Di-n-butyl phthalate	ND	10	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	10	"							
3,3'-Dichlorobenzidine	ND	10	"							
2,4-Dichlorophenol	ND	5.0	"							
Diethyl phthalate	ND	5.0	"							
2,4-Dimethylphenol	ND	5.0	"							

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

 Project: Tosco(1)
 Project Number: Tosco #4625, Oakland, CA
 Project Manager: Deanna Harding

 Reported:
 11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel
Blank (1K12025-BLK2)

Prepared & Analyzed: 11/14/01

Dimethyl phthalate	ND	5.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	10	"							
2,4-Dinitrophenol	ND	10	"							
2,4-Dinitrotoluene	ND	10	"							
2,6-Dinitrotoluene	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	5.0	"							
2-Nitrophenol	ND	5.0	"							
4-Nitrophenol	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodiphenylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	10	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	5.0	"							
Pyrene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
Surrogate: 2-Fluorophenol	40.6		"	150		27.1	21-110			
Surrogate: Phenol-d6	27.4		"	150		18.3	10-110			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel

Blank (1K12025-BLK2)

Prepared & Analyzed: 11/14/01

Surrogate: Nitrobenzene-d5	66.4		ug/l	100		66.4	35-114			
Surrogate: 2-Fluorobiphenyl	66.9		"	100		66.9	43-116			
Surrogate: 2,4,6-Tribromophenol	90.9		"	150		60.6	10-123			
Surrogate: p-Terphenyl-d14	76.3		"	100		76.3	33-141			

LCS (1K12025-BS1)

Prepared: 11/12/01 Analyzed: 11/14/01

Acenaphthene	65.1	5.0	ug/l	100		65.1	46-118			
4-Chloro-3-methylphenol	104	5.0	"	150		69.3	23-97			
2-Chlorophenol	91.3	5.0	"	150		60.9	27-123			
1,4-Dichlorobenzene	58.7	10	"	100		58.7	36-97			
2,4-Dinitrotoluene	65.3	10	"	100		65.3	24-96			
4-Nitrophenol	33.0	10	"	150		22.0	10-80			
N-Nitrosodi-n-propylamine	64.0	5.0	"	100		64.0	41-116			
Pentachlorophenol	74.2	10	"	150		49.5	9-103			
Phenol	43.4	5.0	"	150		28.9	12-110			
Pyrene	65.6	5.0	"	100		65.6	26-127			
1,2,4-Trichlorobenzene	65.1	5.0	"	100		65.1	39-98			
Surrogate: 2-Fluorophenol	57.7		"	150		38.5	21-110			
Surrogate: Phenol-d6	36.8		"	150		24.5	10-110			
Surrogate: Nitrobenzene-d5	76.4		"	100		76.4	35-114			
Surrogate: 2-Fluorobiphenyl	72.4		"	100		72.4	43-116			
Surrogate: 2,4,6-Tribromophenol	100		"	150		66.7	10-123			
Surrogate: p-Terphenyl-d14	70.5		"	100		70.5	33-141			

LCS (1K12025-BS2)

Prepared & Analyzed: 11/14/01

Acenaphthene	70.6	5.0	ug/l	100		70.6	46-118			
4-Chloro-3-methylphenol	97.1	5.0	"	150		64.7	23-97			
2-Chlorophenol	73.4	5.0	"	150		48.9	27-123			
1,4-Dichlorobenzene	65.0	10	"	100		65.0	36-97			
2,4-Dinitrotoluene	74.5	10	"	100		74.5	24-96			
4-Nitrophenol	21.5	10	"	150		14.3	10-80			
N-Nitrosodi-n-propylamine	76.8	5.0	"	100		76.8	41-116			
Pentachlorophenol	64.4	10	"	150		42.9	9-103			
Phenol	28.3	5.0	"	150		18.9	12-110			
Pyrene	72.8	5.0	"	100		72.8	26-127			
1,2,4-Trichlorobenzene	70.6	5.0	"	100		70.6	39-98			
Surrogate: 2-Fluorophenol	35.7		"	150		23.8	21-110			

Sequoia Analytical - San Carlos

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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1K12025 - EPA 3510B Sep Funnel

LCS (1K12025-BS2)

Prepared & Analyzed: 11/14/01

Surrogate: Phenol-d6	24.2		ug/l	150		16.1	10-110			
Surrogate: Nitrobenzene-d5	82.2		"	100		82.2	35-114			
Surrogate: 2-Fluorobiphenyl	79.2		"	100		79.2	43-116			
Surrogate: 2,4,6-Tribromophenol	86.5		"	150		57.7	10-123			
Surrogate: p-Terphenyl-d14	77.0		"	100		77.0	33-141			

LCS Dup (1K12025-BSD1)

Prepared: 11/12/01 Analyzed: 11/14/01

Acenaphthene	70.6	5.0	ug/l	100		70.6	46-118	8.11	30	
4-Chloro-3-methylphenol	115	5.0	"	150		76.7	23-97	10.0	30	
2-Chlorophenol	97.8	5.0	"	150		65.2	27-123	6.87	30	
1,4-Dichlorobenzene	63.3	10	"	100		63.3	36-97	7.54	30	
2,4-Dinitrotoluene	71.2	10	"	100		71.2	24-96	8.64	30	
4-Nitrophenol	51.3	10	"	150		34.2	10-80	43.4	30	QR-02
N-Nitrosodi-n-propylamine	76.9	5.0	"	100		76.9	41-116	18.3	30	
Pentachlorophenol	104	10	"	150		69.3	9-103	33.4	30	QR-02
Phenol	48.3	5.0	"	150		32.2	12-110	10.7	30	
Pyrene	69.6	5.0	"	100		69.6	26-127	5.92	30	
1,2,4-Trichlorobenzene	71.0	5.0	"	100		71.0	39-98	8.67	30	
Surrogate: 2-Fluorophenol	58.1		"	150		38.7	21-110			
Surrogate: Phenol-d6	40.7		"	150		27.1	10-110			
Surrogate: Nitrobenzene-d5	82.4		"	100		82.4	35-114			
Surrogate: 2-Fluorobiphenyl	80.0		"	100		80.0	43-116			
Surrogate: 2,4,6-Tribromophenol	110		"	150		73.3	10-123			
Surrogate: p-Terphenyl-d14	77.8		"	100		77.8	33-141			



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

Project: Tosco(1)
Project Number: Tosco #4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
11/21/01 16:22

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K14010 - EPA 3510B SepFunnel										
Blank (1K14010-BLK1)										
Prepared & Analyzed: 11/14/01										
Oil & Grease	ND	5.0	mg/l							
LCS (1K14010-BS1)										
Prepared & Analyzed: 11/14/01										
Oil & Grease	102	5.0	mg/l	100		102	70-130			
LCS Dup (1K14010-BSD1)										
Prepared & Analyzed: 11/14/01										
Oil & Grease	98.9	5.0	mg/l	100		98.9	70-130	3.09	30	

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Notes and Definitions

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

P-01 Chromatogram Pattern: Gasoline C6-C12

QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

S-LIM The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

JAN 24 2002