



GETTLER-RYAN INC.

TRANSMITTAL

June 20, 2001

G-R #180255

JUL 12 2001

TO: Mr. David B. De Witt
Tosco Marketing 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	June 12, 2001	Groundwater Monitoring and Sampling Report Second Quarter - Event of May 11, 2001

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **July 6, 2001**, 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.

June 12, 2001
G-R Job #180255

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

RE: **Second Quarter Event of May 11, 2001**
Groundwater Monitoring & Sampling Report
Tosco (76) Service Station #4625
3070 Fruitvale Avenue
Oakland, California

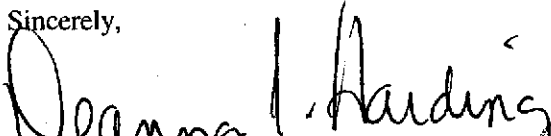
Dear Mr. De Witt:

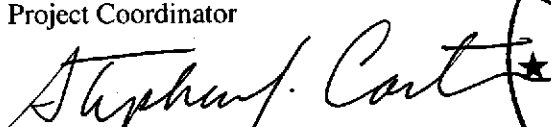
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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


Stephen J. Carter
Senior Geologist, R.G. No. 5577

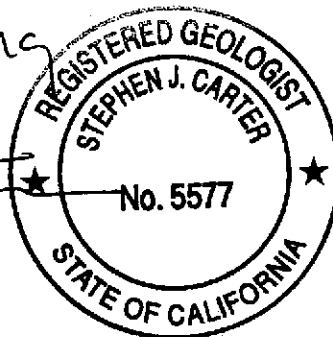
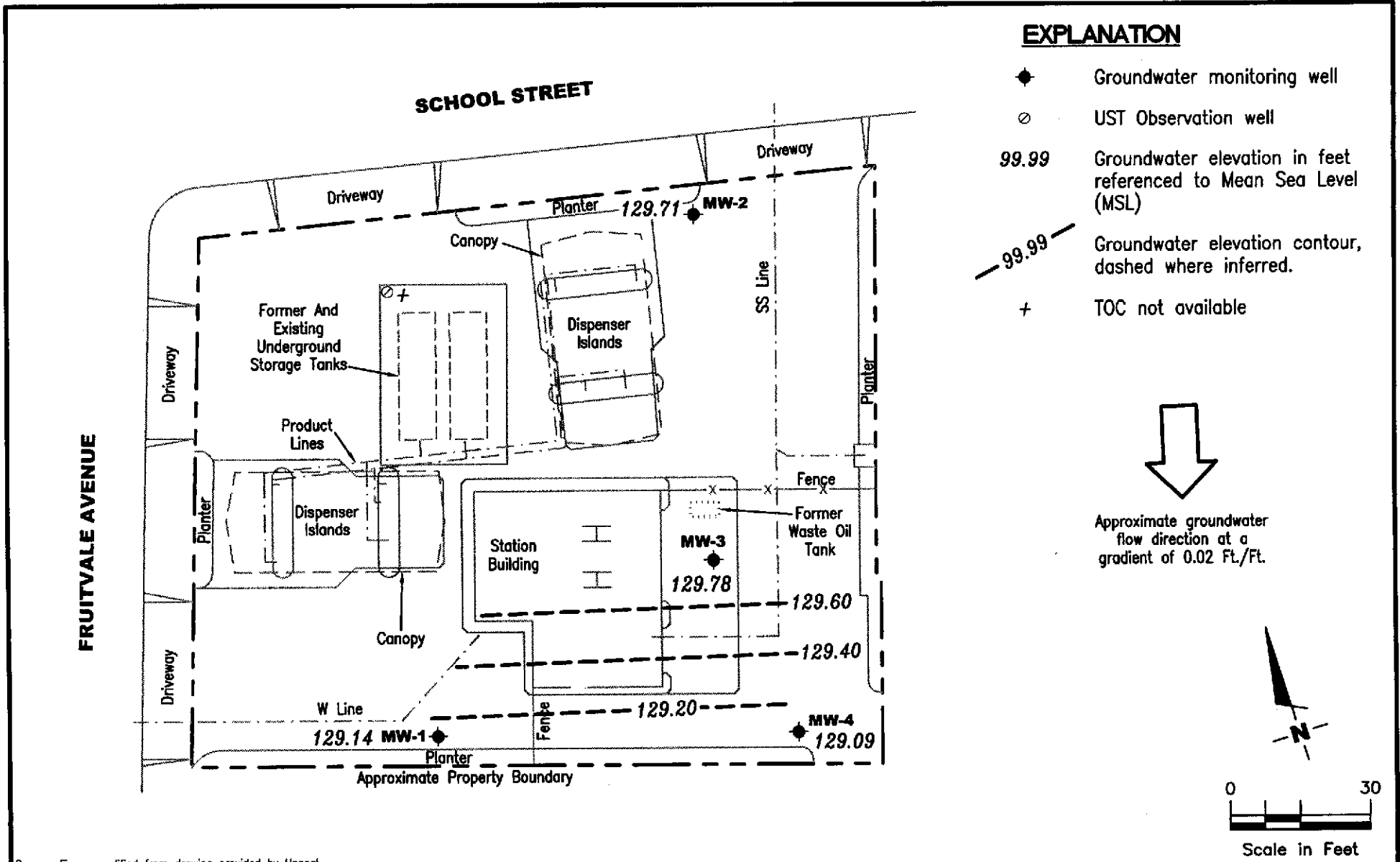


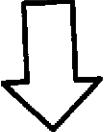
Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets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

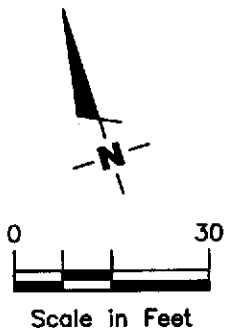
4625.qml



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 0.02 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
180255

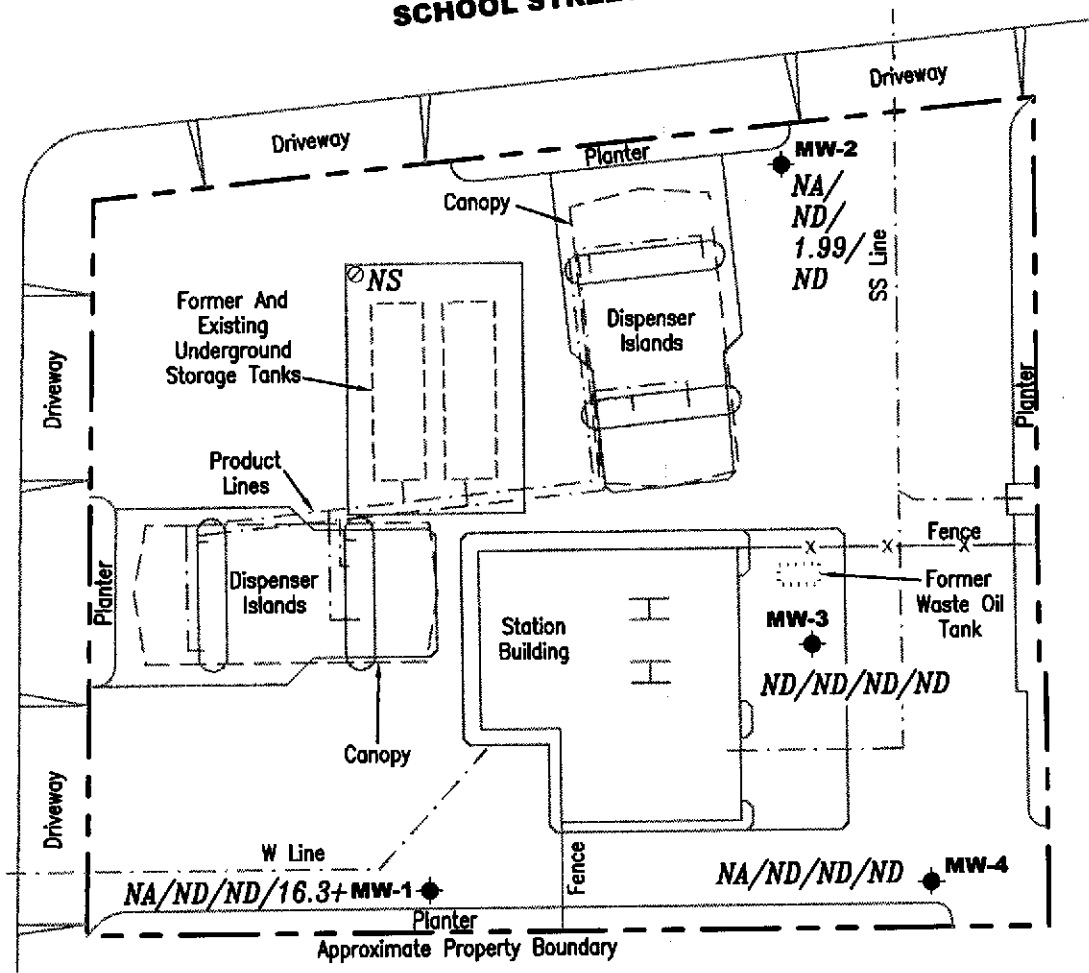
REVIEWED BY

DATE
May 11, 2001

REVISED DATE

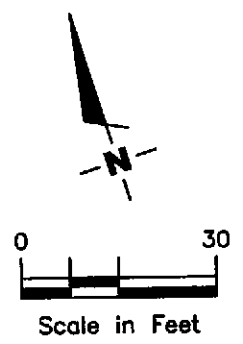
SCHOOL STREET

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
- ND Not Detected
- NA Not Analyzed
- + MTBE by EPA Method 8260
- NS Not Sampled



Source: Figure modified from drawing provided by Unocal.

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

FIGURE
2

PROJECT NUMBER 180255	REVIEWED BY	DATE May 11, 2001	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*	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)
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
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
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
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

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.L. (ft. bgs.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
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		--	--	--	--	--	--	--	--
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

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.

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

WELL ID	DATE	VOCs (ppb)	SVOCs (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

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

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

ANALYTICAL METHODS:

EPA Method 8240B for VOCs

EPA Method 8270B for SVOCs

EPA 200 Series Methods for Chromium

All EPA Method 8240 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
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 or 1,2-Dibromoethane
 (ppb) = Parts per billion
 -- = Not Analyzed
 ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, 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: 5-11-01
Sampler: Joe

Well ID MW-1
Well Diameter 2 in.
Total Depth 25.06 ft
Depth to Water 7.22 ft

Well Condition: O.k.

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

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

17.84 x VF 0.17 = 3.03 x 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

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

Starting Time: 9:15
Sampling Time: 9:35 A.M. (9:35)
Purging Flow Rate: 1 gpm.
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}^\circ\text{K}$	Temperature $^\circ\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:22</u>	<u>3</u>	<u>7.38</u>	<u>5.58</u>	<u>73.1</u>	_____	_____	_____
<u>9:24</u>	<u>6</u>	<u>7.48</u>	<u>5.51</u>	<u>73.2</u>	_____	_____	_____
<u>9:26</u>	<u>9.5</u>	<u>7.42</u>	<u>5.54</u>	<u>72.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3YOA</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
Address: 3070 Fruitvale Ave.
City: Oakland, CA

Job#: 180255
Date: 5-11-01
Sampler: Joe

Well ID MW-2

Well Condition: O.k.

Well Diameter 2 in

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

Total Depth 24.28 ft

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

Depth to Water 8.93 ft

15.35 x VF 0.17 = 2.61 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: 9:42
Sampling Time: 10:07 A.M. (10:07)
Purging Flow Rate: 1 gpm
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity 10^2 μ mhos/cm K	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:53</u>	<u>2.5</u>	<u>7.95</u>	<u>10.64</u>	<u>73.2</u>	_____	_____	_____
<u>9:55</u>	<u>5.5</u>	<u>7.50</u>	<u>10.68</u>	<u>73.5</u>	_____	_____	_____
<u>9:57</u>	<u>8</u>	<u>7.43</u>	<u>10.62</u>	<u>73.1</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3Y0A</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
Address: 3070 Fruitvale Ave.
City: Oakland, CA.

Job#: 180255
Date: 5-11-01
Sampler: Joe

Well ID: MW-3
Well Diameter: 2 in.
Total Depth: 24.73 ft
Depth to Water: 7.90 ft

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

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

16.83 x VF 0.17 = 2.86 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: 10:15
Sampling Time: 10:40 a.m. (10:40)
Purging Flow Rate: 1 gpm
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times$	Temperature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:22</u>	<u>3</u>	<u>7.10</u>	<u>9.52</u>	<u>72.8</u>	_____	_____	_____
<u>10:24</u>	<u>6</u>	<u>7.12</u>	<u>9.53</u>	<u>73.0</u>	_____	_____	_____
<u>10:26</u>	<u>9</u>	<u>7.19</u>	<u>9.55</u>	<u>72.9</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</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>VOC's / 8240</u>
	<u>1 AmB</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>SVOC's / 8270</u>
	<u>1 AmB</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>TPHD</u>
	<u>1 AmB</u>	<u>"</u>	<u>HCL</u>	<u>"</u>	<u>Oil & Grease</u>
	<u>1 plastic</u>	<u>"</u>	<u>HNO₃</u>	<u>"</u>	<u>Total Chromium</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility # 4625 Job#: 180255
 Address: 3070 Fruitvale Ave. Date: 5-11-01
 City: Oakland, CA. Sampler: Joe

Well ID MW-4 Well Condition: O.k.
 Well Diameter 2 in Hydrocarbon Amount Bailed
 Thickness: 0 in (product/water): 0 (gal.)
 Total Depth 24.65 ft
 Depth to Water 7.51 ft

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

17.14 x VF 0.17 = 2.91 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: 8:30 Weather Conditions: Hot
 Sampling Time: 8:55 A.M. (8:55) Water Color: clear Odor: none
 Purging Flow Rate: _____ (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)
<u>8:40</u>	<u>3</u>	<u>7.56</u>	<u>10.33</u>	<u>71.6</u>			
<u>8:42</u>	<u>6</u>	<u>7.50</u>	<u>10.51</u>	<u>71.8</u>			
<u>8:44</u>	<u>9</u>	<u>7.41</u>	<u>10.58</u>	<u>72.0</u>			

LABORATORY INFORMATION

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

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 4625

Job#: 180255

Address: 3070 Fruitvale Ave.

Date: 5-11-01

City: Oakland, CA.

Sampler: Joe

Well ID UST Observation well Well Condition: O.k.

Well Diameter 8 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 0 ft

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

Depth to Water 7.96 ft

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: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm
Did well de-water? _____

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

Time	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

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

COMMENTS: M - only



Facility Number TOSCO SS #4625
Facility Address 3070 FRUITVALE AVE., OAKLAND, CA 180255
Consultant Project Number 180255
Consultant Name Gettler-Ryan Inc. (G-R Inc.)
Address 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone) (925) 551-7555 (Fax Number) (925) 551-7888

Contact (Name) Mr. David De Witt
(Phone) (925) 277-2384
Laboratory Name Sequoia Analytical
Laboratory Release Number _____
Samples Collected by (Name) JOE ASEMIAN
Collection Date 5-11-01
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charnood	Type G = Grab C = Composite D = Dissolve	Time	Sample Preservation	Leak (Yes or No)	Analytes To Be Performed											DO NOT BILL TB-LB ANALYSIS				
								TPH Gas + STEK WATBE (8018)	TPH Diesel (8015)	Oil and Grease (3520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Hg (828 or 83)	VOCs by 8240	SVOCs by 8270	Total Chromium		Remarks			
TB-LB	01	VIA	W	G	-	HCC	Y	<input checked="" type="checkbox"/>														X confirm tube hits by running M+D by 0260.	
MW-1	02	VIA	W	G	9:55			<input checked="" type="checkbox"/>															
MW-2	03	VIA	W	G	10:07			<input checked="" type="checkbox"/>															
MW-3	04	VIA	W	G	10:40			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
MW-4	05	VIA	W	G	8:55			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<p style="text-align: center;">Amend CAC to Run 6 Oxid + L&DCA + 3 DB by 8/260 on all 8000-MTB H+D</p> <p style="text-align: right;">[Signature] 5/11/01</p>																							

Relinquished By (Signature) [Signature]	Organization G-R Inc.	Date/Time 5-11-01	Received By (Signature) [Signature]	Organization SEQUOIA	Date/Time 5/11/01 4:20:23 pm	Turn Around Time (Circle Choice), 24 Hrs. 48 Hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	



Sequoia Analytical

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

June 01 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L105108

Enclosed are the results of analyses for samples received by the laboratory on 05/11/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360



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

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

Reported:
06/01/01 12:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L105108-01	Water	05/11/01 00:00	05/11/01 16:00
MW-1	L105108-02	Water	05/11/01 09:35	05/11/01 16:00
MW-2	L105108-03	Water	05/11/01 10:07	05/11/01 16:00
MW-3	L105108-04	Water	05/11/01 10:40	05/11/01 16:00
MW-4	L105108-05	Water	05/11/01 08:55	05/11/01 16:00

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

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

Reported:
 06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L105108-01) Water Sampled: 05/11/01 00:00 Received: 05/11/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050100	05/23/01	05/23/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.8 %	70-130		"	"	"	"	
MW-1 (L105108-02) Water Sampled: 05/11/01 09:35 Received: 05/11/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050099	05/23/01	05/23/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	12.7	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.0 %	70-130		"	"	"	"	
MW-2 (L105108-03) Water Sampled: 05/11/01 10:07 Received: 05/11/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050099	05/23/01	05/23/01	DHS LUFT	
Benzene	1.99	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.6 %	70-130		"	"	"	"	

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

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

Reported:
 06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050099	05/23/01	05/23/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		78.7 %	70-130		"	"	"	"	
MW-4 (L105108-05) Water Sampled: 05/11/01 08:55 Received: 05/11/01 16:00									
Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l	1	1050099	05/23/01	05/23/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.6 %	70-130		"	"	"	"	

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Acetone	ND	20.0	ug/l	1	1050096	05/22/01	05/22/01	EPA Method 8240	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
Dibromochloromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	20.0	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	20.0	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	5.00	"	"	"	"	"	"	
Vinyl chloride	ND	2.00	"	"	"	"	"	"	
Total Xylenes	ND	2.00	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %		76-114	"	"	"	"	
Surrogate: Toluene-d8		98.8 %		88-110	"	"	"	"	

Sequoia Analytical - San Carlos

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

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
<i>Surrogate: 4-BFB</i>		98.8 %	86-115		1050096	05/22/01	05/22/01	EPA Method 8240	

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Bromodichloromethane	ND	0.500	ug/l	1	1050034	05/15/01	05/15/01	EPA 8021B	
Bromoform	ND	0.500	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>		92.7 %		70-130	"	"	"	"	

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

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

Reported:
 06/01/01 12:01

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (L105108-02) Water Sampled: 05/11/01 09:35 Received: 05/11/01 16:00										
Ethanol	ND	1000		ug/l	1	1050101	05/24/01	05/24/01	EPA 8260B	
1,2-Dibromoethane	ND	2.00		"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00		"	"	"	"	"	"	
Di-isopropyl ether	ND	2.00		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00		"	"	"	"	"	"	
Methyl tert-butyl ether	16.3	2.00		"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.00		"	"	"	"	"	"	
Tert-butyl alcohol	ND	100		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %			76-114	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %			88-110	"	"	"	"	

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

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

Reported:
06/01/01 12:01

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Diesel Range Hydrocarbons	ND	50.0	ug/l	1	1E22016	05/22/01	05/24/01	DHS LUFT	
Surrogate: n-Pentacosane		78.2 %	50-150		"	"	"	"	

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

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

Reported:
06/01/01 12:01

Total Metals by EPA 200 Series Methods
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Chromium	ND	0.0100	mg/l	1	1E18013	05/18/01	05/25/01	EPA 200.7	

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

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

Reported:
06/01/01 12:01

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Oil & Grease	ND	6.25	mg/l	1	1E24001	05/24/01	05/24/01	SM 5520B	

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Acenaphthene	ND	5.0	ug/l	1	1E16006	05/16/01	05/31/01	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	"	"	"	"	"	"	

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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
MW-3 (L105108-04) Water Sampled: 05/11/01 10:40 Received: 05/11/01 16:00									
Fluorene	ND	5.0	ug/l	1	1E16006	05/16/01	05/31/01	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	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		38.8 %		21-110	"	"	"	"	
Surrogate: Phenol-d6		23.2 %		10-110	"	"	"	"	
Surrogate: Nitrobenzene-d5		75.4 %		35-114	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		80.1 %		43-116	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		70.7 %		10-123	"	"	"	"	
Surrogate: p-Terphenyl-d14		59.9 %		33-141	"	"	"	"	

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050099 - EPA 5030B (P/T)

Prepared & Analyzed: 05/23/01

Blank (1050099-BLK1)

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	7.36		"	10.0		73.6	70-130			

LCS (1050099-BS1)

Prepared & Analyzed: 05/23/01

Benzene	9.74	0.500	ug/l	10.0		97.4	70-130			
Toluene	10.1	0.500	"	10.0		101	70-130			
Ethylbenzene	10.6	0.500	"	10.0		106	70-130			
Xylenes (total)	31.6	0.500	"	30.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.21		"	10.0		92.1	70-130			

LCS (1050099-BS2)

Prepared & Analyzed: 05/23/01

Purgeable Hydrocarbons as Gasoline	244	50.0	ug/l	250		97.6	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.06		"	10.0		80.6	70-130			

Matrix Spike (1050099-MS1)

Source: L105109-04

Prepared & Analyzed: 05/23/01

Benzene	8.88	0.500	ug/l	10.0	ND	88.8	60-140			
Toluene	8.96	0.500	"	10.0	ND	89.6	60-140			
Ethylbenzene	8.87	0.500	"	10.0	ND	88.7	60-140			
Xylenes (total)	26.8	0.500	"	30.0	ND	89.3	60-140			
Surrogate: a,a,a-Trifluorotoluene	8.69		"	10.0		86.9	70-130			

Matrix Spike Dup (1050099-MSD1)

Source: L105109-04

Prepared & Analyzed: 05/23/01

Benzene	8.97	0.500	ug/l	10.0	ND	89.7	60-140	1.01	25	
Toluene	8.98	0.500	"	10.0	ND	89.8	60-140	0.223	25	
Ethylbenzene	8.92	0.500	"	10.0	ND	89.2	60-140	0.562	25	
Xylenes (total)	26.9	0.500	"	30.0	ND	89.7	60-140	0.372	25	
Surrogate: a,a,a-Trifluorotoluene	8.62		"	10.0		86.2	70-130			

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050100 - EPA 5030B (P/T)

Prepared & Analyzed: 05/23/01

Blank (1050100-BLK1)

Purgeable Hydrocarbons as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: a,a,a-Trifluorotoluene	9.12		"	10.0		91.2	70-130			

Prepared & Analyzed: 05/23/01

LCS (1050100-BS1)

Benzene	9.67	0.500	ug/l	10.0		96.7	70-130			
Toluene	10.1	0.500	"	10.0		101	70-130			
Ethylbenzene	10.9	0.500	"	10.0		109	70-130			
Xylenes (total)	32.6	0.500	"	30.0		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.93		"	10.0		99.3	70-130			

Prepared & Analyzed: 05/23/01

LCS (1050100-BS2)

Purgeable Hydrocarbons as Gasoline	237	50.0	ug/l	250		94.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	10.0		"	10.0		100	70-130			

Matrix Spike (1050100-MS1)

Source: L105115-01

Prepared: 05/23/01 Analyzed: 05/24/01

Benzene	8.55	0.500	ug/l	10.0	ND	85.5	60-140			
Toluene	8.42	0.500	"	10.0	ND	84.2	60-140			
Ethylbenzene	8.63	0.500	"	10.0	ND	86.3	60-140			
Xylenes (total)	25.7	0.500	"	30.0	ND	85.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	8.59		"	10.0		85.9	70-130			

Matrix Spike Dup (1050100-MSD1)

Source: L105115-01

Prepared: 05/23/01 Analyzed: 05/24/01

Benzene	8.28	0.500	ug/l	10.0	ND	82.8	60-140	3.21	25	
Toluene	8.18	0.500	"	10.0	ND	81.8	60-140	2.89	25	
Ethylbenzene	8.38	0.500	"	10.0	ND	83.8	60-140	2.94	25	
Xylenes (total)	24.9	0.500	"	30.0	ND	83.0	60-140	3.16	25	
Surrogate: a,a,a-Trifluorotoluene	8.39		"	10.0		83.9	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 SS#4625, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 06/01/01 12:01

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 1050096 - EPA 5030B [P/T]

Blank (1050096-BLK1)

Prepared & Analyzed: 05/22/01

Acetone	ND	20.0	ug/l
Benzene	ND	2.00	"
Bromodichloromethane	ND	2.00	"
Bromoform	ND	2.00	"
Bromomethane	ND	2.00	"
2-Butanone	ND	20.0	"
Carbon disulfide	ND	2.00	"
Carbon tetrachloride	ND	2.00	"
Chlorobenzene	ND	2.00	"
Chloroethane	ND	2.00	"
2-Chloroethylvinyl ether	ND	20.0	"
Chloroform	ND	2.00	"
Chloromethane	ND	2.00	"
Dibromochloromethane	ND	2.00	"
1,1-Dichloroethane	ND	2.00	"
1,2-Dichloroethane	ND	2.00	"
1,1-Dichloroethene	ND	2.00	"
cis-1,2-Dichloroethene	ND	2.00	"
trans-1,2-Dichloroethene	ND	2.00	"
1,2-Dichloropropane	ND	2.00	"
cis-1,3-Dichloropropene	ND	2.00	"
trans-1,3-Dichloropropene	ND	2.00	"
Ethylbenzene	ND	2.00	"
2-Hexanone	ND	20.0	"
Methylene chloride	ND	5.00	"
4-Methyl-2-pentanone	ND	20.0	"
Styrene	ND	2.00	"
1,1,2,2-Tetrachloroethane	ND	2.00	"
Tetrachloroethene	ND	2.00	"
Toluene	ND	2.00	"
1,1,1-Trichloroethane	ND	2.00	"
1,1,2-Trichloroethane	ND	2.00	"
Trichloroethene	ND	2.00	"
Trichlorofluoromethane	ND	2.00	"
Vinyl acetate	ND	5.00	"
Vinyl chloride	ND	2.00	"

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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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 1050096 - EPA 5030B [P/T]

Blank (1050096-BLK1)

Prepared & Analyzed: 05/22/01

Total Xylenes	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	50.8		"	50.0		102	76-114			
Surrogate: Toluene-d8	49.2		"	50.0		98.4	88-110			
Surrogate: 4-BFB	49.3		"	50.0		98.6	86-115			

LCS (1050096-BS1)

Prepared & Analyzed: 05/22/01

Benzene	20.2	2.00	ug/l	20.0		101	65-135			
Chlorobenzene	20.2	2.00	"	20.0		101	70-130			
1,1-Dichloroethene	19.9	2.00	"	20.0		99.5	70-130			
Toluene	19.4	2.00	"	20.0		97.0	70-130			
Trichloroethene	20.0	2.00	"	20.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	51.6		"	50.0		103	76-114			
Surrogate: Toluene-d8	50.3		"	50.0		101	88-110			
Surrogate: 4-BFB	48.6		"	50.0		97.2	86-115			

Matrix Spike (1050096-MS1)

Source: L105108-04

Prepared & Analyzed: 05/22/01

Benzene	20.9	2.00	ug/l	20.0	ND	104	60-140			
Chlorobenzene	21.2	2.00	"	20.0	ND	106	60-140			
1,1-Dichloroethene	21.0	2.00	"	20.0	ND	105	60-140			
Toluene	19.9	2.00	"	20.0	ND	99.5	60-140			
Trichloroethene	20.4	2.00	"	20.0	ND	102	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.9		"	50.0		104	76-114			
Surrogate: Toluene-d8	49.3		"	50.0		98.6	88-110			
Surrogate: 4-BFB	50.1		"	50.0		100	86-115			

Matrix Spike Dup (1050096-MSD1)

Source: L105108-04

Prepared & Analyzed: 05/22/01

Benzene	18.9	2.00	ug/l	20.0	ND	94.5	60-140	10.1	25	
Chlorobenzene	19.3	2.00	"	20.0	ND	96.5	60-140	9.38	25	
1,1-Dichloroethene	18.6	2.00	"	20.0	ND	93.0	60-140	12.1	25	
Toluene	18.4	2.00	"	20.0	ND	92.0	60-140	7.83	25	
Trichloroethene	19.2	2.00	"	20.0	ND	96.0	60-140	6.06	25	
Surrogate: 1,2-Dichloroethane-d4	50.2		"	50.0		100	76-114			
Surrogate: Toluene-d8	48.7		"	50.0		97.4	88-110			
Surrogate: 4-BFB	50.1		"	50.0		100	86-115			

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 SS#4625, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 06/01/01 12:01

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 1050034 - EPA 5030B (P/T)

Blank (1050034-BLK3)

Prepared & Analyzed: 05/11/01

Bromodichloromethane	ND	0.500	ug/l							
Bromoform	ND	0.500	"							
Bromomethane	ND	1.00	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.500	"							
Chloromethane	ND	1.00	"							
Dibromochloromethane	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
cis-1,3-Dichloropropene	ND	0.500	"							
trans-1,3-Dichloropropene	ND	0.500	"							
Methylene chloride	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.500	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.500	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	1.00	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Toluene	ND	0.500	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Chloro-2-fluorobenzene	8.33		"	10.0		83.3	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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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 1050034 - EPA 5030B (P/T)

Prepared & Analyzed: 05/15/01

Blank (1050034-BLK5)

1,2-Dibromoethane	ND	0.500	ug/l							
Bromodichloromethane	ND	0.500	"							
Bromoform	ND	0.500	"							
Bromomethane	ND	1.00	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	0.500	"							
Chloromethane	ND	1.00	"							
Dibromochloromethane	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
cis-1,3-Dichloropropene	ND	0.500	"							
trans-1,3-Dichloropropene	ND	0.500	"							
Methylene chloride	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.500	"							
Tetrachloroethene	ND	0.500	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.500	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
Vinyl chloride	ND	1.00	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Toluene	ND	0.500	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Chloro-2-fluorobenzene	9.42		"	10.0		94.2	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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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 1050034 - EPA 5030B (P/T)

LCS (1050034-BS3)										
Prepared & Analyzed: 05/11/01										
Chlorobenzene	10.7	0.500	ug/l	10.0		107	70-130			
1,1-Dichloroethene	10.5	0.500	"	10.0		105	70-130			
Trichloroethene	9.87	0.500	"	10.0		98.7	70-130			
Benzene	10.1	0.500	"	10.0		101	70-130			
Toluene	10.1	0.500	"	10.0		101	70-130			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>10.9</i>		<i>"</i>	<i>10.0</i>		<i>109</i>	<i>70-130</i>			

LCS (1050034-BS5)										
Prepared & Analyzed: 05/15/01										
Chlorobenzene	8.88	0.500	ug/l	10.0		88.8	70-130			
1,1-Dichloroethene	9.90	0.500	"	10.0		99.0	70-130			
Trichloroethene	9.45	0.500	"	10.0		94.5	70-130			
Benzene	9.85	0.500	"	10.0		98.5	70-130			
Toluene	9.84	0.500	"	10.0		98.4	70-130			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>11.7</i>		<i>"</i>	<i>10.0</i>		<i>117</i>	<i>70-130</i>			

Matrix Spike (1050034-MS1)										
Source: L105095-01 Prepared & Analyzed: 05/11/01										
Chlorobenzene	9.25	0.500	ug/l	10.0	ND	92.5	60-140			
1,1-Dichloroethene	9.34	0.500	"	10.0	ND	93.4	60-140			
Trichloroethene	8.83	0.500	"	10.0	ND	88.3	60-140			
Benzene	9.40	0.500	"	10.0	ND	94.0	60-140			
Toluene	9.56	0.500	"	10.0	ND	95.6	60-140			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>8.94</i>		<i>"</i>	<i>10.0</i>		<i>89.4</i>	<i>70-130</i>			

Matrix Spike Dup (1050034-MSD1)										
Source: L105095-01 Prepared & Analyzed: 05/11/01										
Chlorobenzene	9.51	0.500	ug/l	10.0	ND	95.1	60-140	2.77	25	
1,1-Dichloroethene	9.77	0.500	"	10.0	ND	97.7	60-140	4.50	25	
Trichloroethene	8.68	0.500	"	10.0	ND	86.8	60-140	1.71	25	
Benzene	9.72	0.500	"	10.0	ND	97.2	60-140	3.35	25	
Toluene	9.86	0.500	"	10.0	ND	98.6	60-140	3.09	25	
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	<i>9.14</i>		<i>"</i>	<i>10.0</i>		<i>91.4</i>	<i>70-130</i>			

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050101 - EPA 5030B [P/T]

Prepared & Analyzed: 05/23/01

Blank (1050101-BLK1)

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

Prepared & Analyzed: 05/24/01

Blank (1050101-BLK2)

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

Prepared & Analyzed: 05/25/01

Blank (1050101-BLK3)

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

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

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

Reported:
06/01/01 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1050101 - EPA 5030B [P/T]

LCS (1050101-BS1)

Prepared & Analyzed: 05/23/01

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

LCS (1050101-BS2)

Prepared & Analyzed: 05/24/01

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

LCS (1050101-BS3)

Prepared & Analyzed: 05/25/01

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

Matrix Spike (1050101-MS1)

Source: L105146-06

Prepared & Analyzed: 05/23/01

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

Matrix Spike Dup (1050101-MSD1)

Source: L105146-06

Prepared & Analyzed: 05/23/01

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

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

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

Reported:
 06/01/01 12:01

**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E22016 - EPA 3510B										
Blank (1E22016-BLK1) Prepared: 05/22/01 Analyzed: 05/24/01										
Diesel Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: n-Pentacosane	74.4		"	100		74.4	50-150			
LCS (1E22016-BS1) Prepared: 05/22/01 Analyzed: 05/24/01										
Diesel Range Hydrocarbons	727	50.0	ug/l	1000		72.7	60-140			
Surrogate: n-Pentacosane	81.0		"	100		81.0	50-150			
Matrix Spike (1E22016-MS1) Source: MKE0330-01 Prepared: 05/22/01 Analyzed: 05/24/01										
Diesel Range Hydrocarbons	736	50.0	ug/l	1000	ND	73.6	50-150			
Surrogate: n-Pentacosane	78.4		"	100		78.4	50-150			
Matrix Spike Dup (1E22016-MSD1) Source: MKE0330-01 Prepared: 05/22/01 Analyzed: 05/24/01										
Diesel Range Hydrocarbons	777	50.0	ug/l	1000	ND	77.7	50-150	5.42	50	
Surrogate: n-Pentacosane	81.4		"	100		81.4	50-150			

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

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

Reported:
 06/01/01 12:01

Total Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E18013 - EPA 3005A										
Blank (1E18013-BLK1)										
				Prepared & Analyzed: 05/18/01						
Chromium	ND	0.0100	mg/l							
LCS (1E18013-BS1)										
				Prepared & Analyzed: 05/18/01						
Chromium	1.08	0.0100	mg/l	1.00		108	80-120			
Matrix Spike (1E18013-MS1)										
				Source: MKE0403-01		Prepared & Analyzed: 05/18/01				
Chromium	1.04	0.0100	mg/l	1.00	ND	104	80-120			
Matrix Spike Dup (1E18013-MSD1)										
				Source: MKE0403-01		Prepared & Analyzed: 05/18/01				
Chromium	1.04	0.0100	mg/l	1.00	ND	104	80-120	0	20	

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

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

Reported:
 06/01/01 12:01

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E24001 - General Prep										
Prepared & Analyzed: 05/24/01										
Blank (1E24001-BLK1)										
Oil & Grease	ND	5.00	mg/l							
Prepared & Analyzed: 05/24/01										
LCS (1E24001-BS1)										
Oil & Grease	19.1	5.00	mg/l	20.0		95.5	70-130			
Prepared & Analyzed: 05/24/01										
LCS Dup (1E24001-BSD1)										
Oil & Grease	20.9	5.00	mg/l	20.0		104	70-130	9.00	30	

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

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

Reported:
 06/01/01 12:01

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 1E16006 - EPA 3510B Sep Funnel

Blank (1E16006-BLK1)

Prepared: 05/16/01 Analyzed: 05/25/01

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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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 1E16006 - EPA 3510B Sep Funnel

Prepared: 05/16/01 Analyzed: 05/25/01

Blank (1E16006-BLK1)

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	"							
Surrogate: 2-Fluorophenol	37.0		"	150		24.7	21-110			
Surrogate: Phenol-d6	21.6		"	150		14.4	10-110			
Surrogate: Nitrobenzene-d5	49.8		"	100		49.8	35-114			
Surrogate: 2-Fluorobiphenyl	49.8		"	100		49.8	43-116			

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 SS#4625, Oakland, CA
Project Manager: Deanna Harding

Reported:
06/01/01 12:01

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 1E16006 - EPA 3510B Sep Funnel

Blank (1E16006-BLK1)

Prepared: 05/16/01 Analyzed: 05/25/01

Surrogate: 2,4,6-Tribromophenol	68.6		ug/l	150		45.7	10-123			
Surrogate: p-Terphenyl-d14	50.3		"	100		50.3	33-141			

LCS (1E16006-BS1)

Prepared: 05/16/01 Analyzed: 05/25/01

Acenaphthene	53.0	5.0	ug/l	100		53.0	46-118			
4-Chloro-3-methylphenol	80.3	5.0	"	150		53.5	23-97			
2-Chlorophenol	74.0	5.0	"	150		49.3	27-123			
1,4-Dichlorobenzene	49.1	10	"	100		49.1	36-97			
2,4-Dinitrotoluene	54.9	10	"	100		54.9	24-96			
4-Nitrophenol	22.8	10	"	150		15.2	10-80			
N-Nitrosodi-n-propylamine	59.5	5.0	"	100		59.5	41-116			
Pentachlorophenol	77.7	10	"	150		51.8	9-103			
Phenol	30.1	5.0	"	150		20.1	12-110			
Pyrene	54.8	5.0	"	100		54.8	26-127			
1,2,4-Trichlorobenzene	52.6	5.0	"	100		52.6	39-98			
Surrogate: 2-Fluorophenol	48.4		"	150		32.3	21-110			
Surrogate: Phenol-d6	29.2		"	150		19.5	10-110			
Surrogate: Nitrobenzene-d5	58.0		"	100		58.0	35-114			
Surrogate: 2-Fluorobiphenyl	55.3		"	100		55.3	43-116			
Surrogate: 2,4,6-Tribromophenol	84.5		"	150		56.3	10-123			
Surrogate: p-Terphenyl-d14	53.2		"	100		53.2	33-141			

LCS Dup (1E16006-BSD1)

Prepared: 05/16/01 Analyzed: 05/25/01

Acenaphthene	50.6	5.0	ug/l	100		50.6	46-118	4.63	30	
4-Chloro-3-methylphenol	69.8	5.0	"	150		46.5	23-97	14.0	30	
2-Chlorophenol	63.7	5.0	"	150		42.5	27-123	15.0	30	
1,4-Dichlorobenzene	46.3	10	"	100		46.3	36-97	5.87	30	
2,4-Dinitrotoluene	51.4	10	"	100		51.4	24-96	6.59	30	
4-Nitrophenol	13.8	10	"	150		9.20	10-80	49.2	30	Q-01,Q-07
N-Nitrosodi-n-propylamine	56.1	5.0	"	100		56.1	41-116	5.88	30	
Pentachlorophenol	74.7	10	"	150		49.8	9-103	3.94	30	
Phenol	19.9	5.0	"	150		13.3	12-110	40.8	30	Q-07
Pyrene	52.9	5.0	"	100		52.9	26-127	3.53	30	
1,2,4-Trichlorobenzene	49.9	5.0	"	100		49.9	39-98	5.27	30	
Surrogate: 2-Fluorophenol	35.0		"	150		23.3	21-110			
Surrogate: Phenol-d6	19.1		"	150		12.7	10-110			

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 SS#4625, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 06/01/01 12:01

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 1E16006 - EPA 3510B Sep Funnel

LCS Dup (1E16006-BSD1)

Prepared: 05/16/01 Analyzed: 05/25/01

Surrogate: Nitrobenzene-d5	55.2		ug/l	100		55.2	35-114			
Surrogate: 2-Fluorobiphenyl	55.2		"	100		55.2	43-116			
Surrogate: 2,4,6-Tribromophenol	80.8		"	150		53.9	10-123			
Surrogate: p-Terphenyl-d14	53.8		"	100		53.8	33-141			

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

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

Reported:
06/01/01 12:01

Notes and Definitions

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- 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