GETTLER-RYAN INC.

TRANSMITTAL

July 15, 1999
G-R #:180203

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

CC: Mr. Glen Matteucci
ERI, Inc.
73 Digital Drive, Suite 100
Novato, California 94949

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

RE: Former Tosco 76 SS #0843
1629 Webster Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 9, 1999	Groundwater Monitoring and Sampling Report Second Quarter 1999 - Event of June 3, 1999

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 27, 1999***, this report will be distributed to the following:

Enclosure

cc: Ms. Eva Chu, Alameda County Dept., of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502

99 JUL 28 PM 1:13
ENVIRONMENTAL
PROTECTION

agency/0843dbd.qmt

QUARTERLY SUMMARY REPORT

Second Quarter 1999
(April - June)

TOSCO SERVICE STATION 0843
1629 Webster Street
Alameda, California

City/County ID: Alameda/Alameda County Department of Environmental Health Services

County: Alameda County

BACKGROUND

During June 1998, Tosco Marketing Company (Tosco) removed two 10,000-gallon gasoline underground storage tanks (USTs), one 550-gallon used-oil UST, product lines, and dispensers, and excavated and removed 388 tons of soil and backfill. Concentrations of residual total purgeable petroleum hydrocarbons as gasoline (TPPHg) and methyl tertiary butyl ether (MTBE) were detected in soil up to 44 parts per million (ppm) and 280 ppm, respectively, in soil samples collected from the sidewalls of the gasoline UST cavity. Concentrations of dissolved TPPHg, MTBE, and benzene were detected in a groundwater sample collected from the gasoline UST cavity up to 19,000 parts per billion (ppb), 1,300 ppb, and 880 ppb, respectively.

RECENT QUARTER ACTIVITIES

ERI submitted a soil and groundwater evaluation.

NEXT QUARTER ACTIVITIES

Perform quarterly groundwater monitoring, sampling, and reporting.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated?	Yes
Dissolved groundwater delineated?	No
Free Product delineated?	NA
Amount of gw contaminant recovered?	NA
Amount of soil contamination recovered?	344
Soil remediation in progress?	No
Dissolved/free product remediation in progress?	No

CONSULTANT: Environmental Resolutions, Inc.

GETTLER-RYAN INC.

July 9, 1999
G-R Job #180203

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

RE: Second Quarter 1999 Groundwater Monitoring & Sampling Report
Former Tosco 76 Service Station #0843
1629 Webster Street
Alameda, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On June 3, 1999, field personnel monitored and sampled four wells (MW-1 through MW-4) at the above referenced site.

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

Groundwater samples were collected from the monitoring wells 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 Table 1, and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

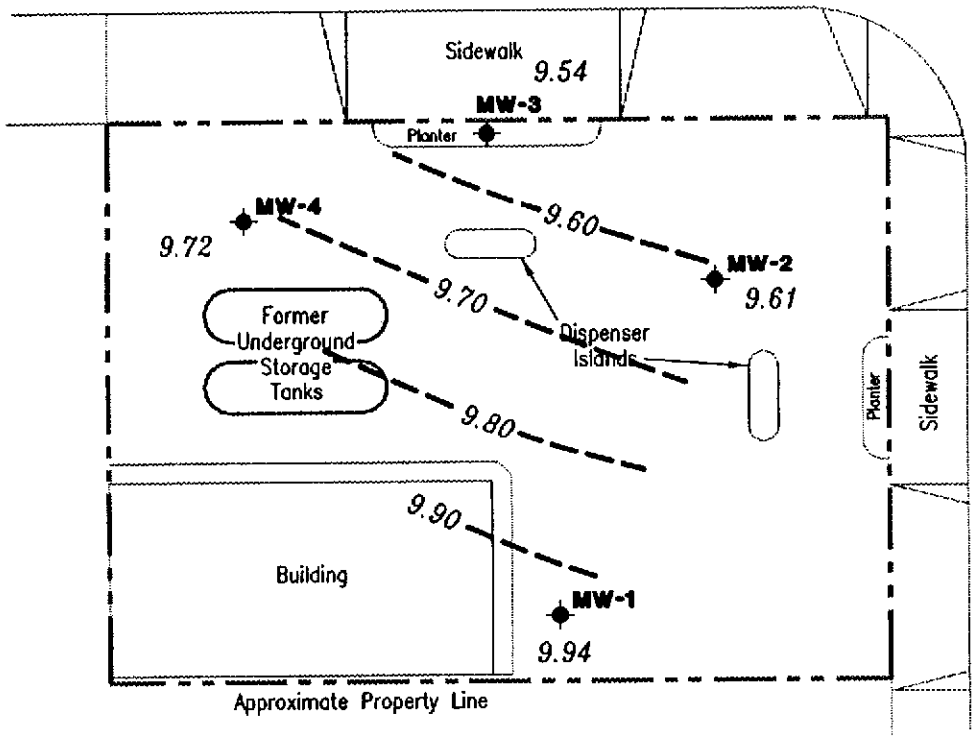
Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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

0843.qml



WEBSTER STREET

EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.006 Ft./Ft.

N

0 30

Scale in Feet

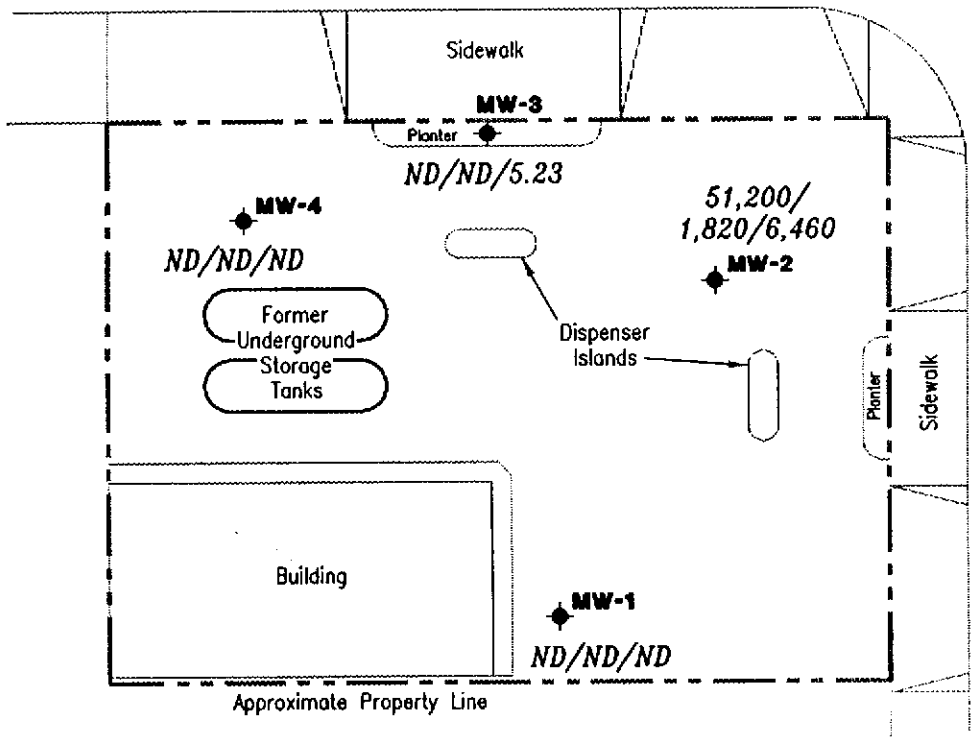
Base Map: ERI, Generalized Site Plan

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Tosco 76 Service Station No. 0843
1629 Webster Street
Alameda, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
180203		June 3, 1999	



EXPLANATION

✦	Groundwater monitoring well
A/B/C	TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
ND	Not Detected

N

0 30

Scale in Feet

Base Map: ERI, Generalized Site Plan

Gettler - Ryan Inc.

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Dublin, CA 94568

CONCENTRATION MAP
Former Tosco 76 Service Station No. 0843
1629 Webster Street
Alameda, California

FIGURE
2

JOB NUMBER
180203

REVIEWED BY

DATE
June 3, 1999

REVISED DATE

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
16.18	03/05/99[1]	--	--	86.6[3]	ND	2.04	ND	4.06	23.9[2]
	06/03/99	**6.24**	**9.94**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/ND[2]**
MW-2									
15.57	03/05/99[1]	--	--	34,400	2,070	7,710	2,340	8,240	8,460[2]
	06/03/99	**5.96**	**9.61**	**51,200[4]**	**1,820**	**7,570**	**2,510**	**7,320**	**6,460/8,800[2]**
MW-3									
15.11	03/05/99[1]	--	--	135[3]	ND	ND	ND	4.84	2.46[2]
	06/03/99	**5.57**	**9.54**	**ND**	**ND**	**ND**	**ND**	**ND**	**5.23/12.7[2]**
MW-4									
15.17	03/05/99[1]	--	--	ND	ND	ND	ND	2.44	25.2[2]
	06/03/99	**5.45**	**9.72**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND/3.96[2]**
Trip Blank									
TB-LB	03/05/99[1]	--	--	ND	ND	ND	ND	ND	ND[2]
	06/03/99	**--**	**--**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Tosco 76 Service Station #0843

1629 Webster Street

Alameda, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 3, 1999, were compiled from reports prepared by ERI, Inc.

TOC = Top of Casing elevation
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
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 are based on USC&GS Benchmark WEB PAC - 1947 - R 1951; (Elevation = 14.054 feet).

[1] Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8260A.

[2] MTBE by EPA Method 8260A.

[3] Laboratory report indicates weathered gasoline C6-C12.

[4] Laboratory report indicates chromatogram pattern C6-C12.

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 a MMC flexi-dip 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, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured 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 # Tosco 0843 — Job#: 180203

Address: 1629 Webster st — Date: 6/3/99

City: Alameda — Sampler: Vaithes

Well ID: MW-1 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 6.24 ft.

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

14.26 x VF 0.17 = 2.42 X 3 (case volume) = Estimated Purge Volume: 7.27 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 11:03 — Weather Conditions: cldy

Sampling Time: 11:20 — Water Color: brn — Odor: _____

Purging Flow Rate: 1 gpm. — Sediment Description: Sand

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:06	2.5	8.11	3.36	66.0			
11:08	5	8.01	3.28	65.2			
11:10	7.5	7.95	3.24	65.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-1	1 VOA	"	"	"	MTBE (8260)

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster St. — Date: 6/3/99

City: Alameda — Sampler: Vartkes

Well ID: MW-2 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: Ø (feet) — Amount Bailed (product/water): Ø (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 5.96 ft.

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

14.54 X VF 0.17 = 2.47 X 3 (case volume) = Estimated Purge Volume: 7.42 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 11:55 — Weather Conditions: cldy

Sampling Time: 12:10 — Water Color: grayish — Odor: Y

Purging Flow Rate: 1 gpm. — Sediment Description: sand

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:57	2.5	7.81	3.45	67.1			
12:00	5	7.62	3.53	66.5			
12:03	7.5	7.54	3.64	66.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-2	1 VOA	"	"	"	MTBE (8260)

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster St. — Date: 6/3/99

City: Alameda — Sampler: Vartkes

Well ID: MW-3 — Well Condition: ok

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 5.57 ft.

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

14.93 X VF 0.17 = 2.54 X 3 (case volume) = Estimated Purge Volume: 7.61 (gal.)

Purge Equipment:		Sampling Equipment:	
	Disposable Bailer		(Disposable Bailer)
	Bailer		Bailer
	Stack		Pressure Bailer
	(Suction)		Grab Sample
	Grundfos		Other:
	Other:		

Starting Time: 11:30 — Weather Conditions: cldy

Sampling Time: 11:45 — Water Color: brn — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: Sand

Did well de-water? no — If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:32	2.5	7.96	3.32	66.3			
11:35	5	7.88	3.29	66.3			
11:38	8	7.83	3.38	66.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-3	1 VOA	〃	〃	〃	MTBE (8260)

COMMENTS: ____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 0843 — Job#: 180203

Address: 1629 Webster St. — Date: 6/3/99

City: Alameda — Sampler: Vertkin

Well ID: MW-4 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 20.50 ft.

Depth to Water: 5.45 ft.

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

15.05 X VF 0.17 = 2.56 X 3 (case volume) = Estimated Purge Volume: 7.67 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 10:13 — Weather Conditions: cloudy

Sampling Time: 10:45 — Water Color: brn — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: sand

Did well de-water? Y — If yes; Time: 10:38 — Volume: 5 (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:15	2.5	8.03	5.93	66.4			
10:18	5	7.88	6.06	67.7			
10:30	8	7.83	5.99	67.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-4	1 VOA	〃	〃	〃	MTBE (8260)

COMMENTS: _____

Chain-of-Custody-Record

TOSCO

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

Facility Number: TOSCO (Former 76) SS #0843
Facility Address: 1629 Webster Street, ALAMEDA CA
Consultant Project Number: 180023.85
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. Ed Ralston
(Phone): (916) 774-2910
Laboratory Name: Sequoia Analytical
Laboratory Release Number:
Samples Collected by (Name): Vartkes Tashjian
Collection Date: 6/3/99
Signature: Vartkes Tashjian

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	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE (8260)					DO NOT BILL TB-LB ANALYSIS: Remarks
TB-LB		1	W	G		HCl	Y	X													
MW-1		4	"	"	1125/A	"	"	X								X					
MW-2		4	"	"	1210/P	"	"	X								X					
MW-3		4	"	"	1145/P	"	"	X								X					
MW-4		4	"	"	1045/A	"	"	X								X					

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Vartkes Tashjian	G-R Inc.	6/3/99 1745			
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
			Nallela		6/3/99 1645

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

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

Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

ANALYTICAL REPORT FOR L906066

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L906066-01	Water	6/3/99
MW-1	L906066-02	Water	6/3/99
MW-2	L906066-03	Water	6/3/99
MW-3	L906066-04	Water	6/3/99
MW-4	L906066-05	Water	6/3/99

Sequoia Analytical

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

Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

Sample Description: **TB-LB**
Laboratory Sample Number: **L906066-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060096	6/16/99	6/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*82.8*	%	

Sequoia Analytical

1551 Industrial Road
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(650) 232-9600
FAX (650) 232-9612

Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

Sample Description: **MW-1**
Laboratory Sample Number: **L906066-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060096	6/16/99	6/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*77.6*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060068	6/11/99	6/11/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*109*	%	

Sequoia Analytical

1551 Industrial Road
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(650) 232-9600
FAX (650) 232-9612

Gettler-Ryan/Geostrategies(I)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

Sample Description: **MW-2**
Laboratory Sample Number: **L906066-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060102	6/17/99	6/17/99		10000	**51200**	ug/l	1
Benzene	"	"	"		100	**1820**	"	
Toluene	"	"	"		100	**7570**	"	
Ethylbenzene	"	"	"		100	**2510**	"	
Xylenes (total)	"	"	"		100	**7320**	"	
Methyl tert-butyl ether	"	"	"		1000	**6460**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*89.6*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060068	6/11/99	6/11/99		100	**8800**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*104*	%	

Sequoia Analytical

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

Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

Sample Description: **MW-3**
Laboratory Sample Number: **L906066-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060103	6/17/99	6/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**5.23**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.7*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060077	6/13/99	6/13/99		2.00	**12.7**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*104*	%	

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

Sample Description: **MW-4**
Laboratory Sample Number: **L906066-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060103	6/17/99	6/17/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*88.8*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060068	6/11/99	6/11/99		2.00	**3.96**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

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Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number: Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 6/29/99

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060096	**Date Prepared: 6/16/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060096-BLK1**									
Benzene	6/16/99			**ND**	ug/l	**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	"	*10.0*		*8.85*	"	*70.0-130*	*88.5*			
LCS	**9060096-BS1**									
Benzene	6/16/99	10.0		8.96	ug/l	70.0-130	89.6			
Toluene	"	10.0		8.85	"	70.0-130	88.5			
Ethylbenzene	"	10.0		9.60	"	70.0-130	96.0			
Xylenes (total)	"	30.0		28.2	"	70.0-130	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.83*	"	*70.0-130*	*88.3*			
Matrix Spike	**9060096-MS1**		**L906090-07**							
Benzene	6/17/99	10.0	ND	8.45	ug/l	60.0-140	**84.5**			
Toluene	"	10.0	ND	8.68	"	60.0-140	**86.8**			
Ethylbenzene	"	10.0	ND	8.88	"	60.0-140	**88.8**			
Xylenes (total)	"	30.0	ND	26.5	"	60.0-140	**88.3**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.18*	"	*70.0-130*	*81.8*			
Matrix Spike Dup	**9060096-MSD1**		**L906090-07**							
Benzene	6/17/99	10.0	ND	8.82	ug/l	60.0-140	**88.2**	25.0	**4.28**	
Toluene	"	10.0	ND	9.01	"	60.0-140	**90.1**	25.0	**3.73**	
Ethylbenzene	"	10.0	ND	9.30	"	60.0-140	**93.0**	25.0	**4.62**	
Xylenes (total)	"	30.0	ND	27.8	"	60.0-140	**92.7**	25.0	**4.86**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.99*	"	*70.0-130*	*79.9*			
Batch: 9060103	**Date Prepared: 6/17/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060103-BLK1**									
Purgeable Hydrocarbons as Gasoline	6/17/99			**ND**	ug/l	**50.0**				
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	"	*10.0*		*9.83*	"	*70.0-130*	*98.3*			
LCS	**9060103-BS1**									
Purgeable Hydrocarbons as Gasoline	6/17/99	250		281	ug/l	70.0-130	112			

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Gettler-Ryan/Geostrategies(1)	Project: Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number: Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager: Deanna Harding	Reported: 6/29/99

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**9060103-BS1**									
Surrogate: a,a,a-Trifluorotoluene	*6/17/99*	*10.0*		*11.0*	*ug/l*	*70.0-130*	*110*			
Matrix Spike	**9060103-MS1**		**L906172-05**							
Purgeable Hydrocarbons as Gasoline	6/17/99	250	ND	320	ug/l	60.0-140	**128**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.22*	"	*70.0-130*	*92.2*			
Matrix Spike Dup	**9060103-MSD1**		**L906172-05**							
Purgeable Hydrocarbons as Gasoline	6/17/99	250	ND	319	ug/l	60.0-140	**128**	25.0	**0**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.85*	"	*70.0-130*	*98.5*			

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled: 6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received: 6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported: 6/29/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060068	**Date Prepared: 6/11/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060068-BLK1**									
Methyl tert-butyl ether	6/11/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.1*	"	*76.0-114*	*108*			
LCS	**9060068-BS1**									
Methyl tert-butyl ether	6/11/99	50.0		60.0	ug/l	70.0-130	120			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*56.0*	"	*76.0-114*	*112*			
Matrix Spike	**9060068-MS1**		**L906024-01**							
Methyl tert-butyl ether	6/11/99	50.0	ND	45.4	ug/l	60.0-140	**90.8**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.7*	"	*76.0-114*	*95.4*			
Matrix Spike Dup	**9060068-MSD1**		**L906024-01**							
Methyl tert-butyl ether	6/11/99	50.0	ND	53.3	ug/l	60.0-140	**107**	25.0	**16.4**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.8*	"	*76.0-114*	*102*			
Batch: 9060077	**Date Prepared: 6/13/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060077-BLK1**									
Methyl tert-butyl ether	6/13/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.2*	"	*76.0-114*	*98.4*			
LCS	**9060077-BS1**									
Methyl tert-butyl ether	6/13/99	50.0		58.2	ug/l	70.0-130	116			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.2*	"	*76.0-114*	*100*			
Matrix Spike	**9060077-MS1**		**L906175-04**							
Methyl tert-butyl ether	6/13/99	50.0	ND	54.3	ug/l	60.0-140	**109**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.3*	"	*76.0-114*	*96.6*			
Matrix Spike Dup	**9060077-MSD1**		**L906175-04**							
Methyl tert-butyl ether	6/13/99	50.0	ND	56.8	ug/l	60.0-140	**114**	25.0	**4.48**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.6*	"	*76.0-114*	*99.2*			

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Gettler-Ryan/Geostrategies(1)	Project:	Tosco(1)	Sampled:	6/3/99
6747 Sierra Court, Suite D	Project Number:	Tosco SS#0843	Received:	6/3/99
Dublin, CA 94568	Project Manager:	Deanna Harding	Reported:	6/29/99

Notes and Definitions

#	Note
1	Chromatogram pattern: Gasoline C6-C12
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
Recov.	Recovery
RPD	Relative Percent Difference