



# GETTLER-RYAN INC.

November 2, 1999  
G-R Job #180203

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

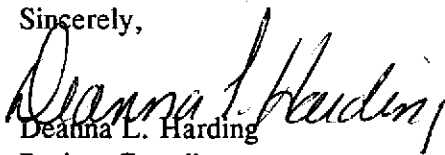
RE: Addendum to the Third Quarter 1999 Groundwater Monitoring & Sampling Report  
Former Tosco 76 Service Station #0843  
1629 Webster Street  
Alameda, California

Dear Mr. De Witt:

Pursuant to the verbal request from Eva Chu of the Alameda County Department of Environmental Health, I have asked Sequoia Analytical to quantify the additional oxygenate compounds from the original samples run for MTBE by 8260, sampled on September 2, 1999.

Attached please find the updated Table 2 and the laboratory analytical results. If you have any questions, please do not hesitate to contact me at (925) 551-7555. Thank you.

Sincerely,

  
Deanna L. Harding  
Project Coordinator

Attachments: Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Laboratory Analytical Reports

cc: Ms. Eva Chu, Alameda County Department of Environmental Health  
Mr. Glen Matteucci, ERI, Inc.

0843.mic

99 NOV -3 PM 3:43

ENVIRONMENTAL  
PROTECTION

## QUARTERLY SUMMARY REPORT

First Quarter 1999

(January - March)

### 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. 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 Work Plan for and performed an evaluation of soil and groundwater beneath the site.

### NEXT QUARTER ACTIVITIES

Submit a soil and groundwater evaluation report. Perform quarterly groundwater monitoring and sampling.

### CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated?	<u>No</u>
Dissolved groundwater delineated?	<u>No</u>
Free Product delineated?	<u>NA</u>
Amount of gw contaminant recovered this quarter?	<u>NA</u>
Amount of soil contamination recovered this quarter?	<u>NA</u>
Cumulative contamination recovered since system startup?	<u>NA</u>
Soil remediation in progress?	<u>338 tons</u>
Dissolved/free product remediation in progress?	<u>No</u>

CONSULTANT: Environmental Resolutions, Inc. (224899.lqs)

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Former Tosco 76 Service Station #0843  
 1629 Webster Street  
 Alameda, California

Well ID	Date	Ethanol (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	09/02/99	ND	ND	ND	ND	ND	ND
MW-2	09/02/99	ND <sup>1</sup>	ND <sup>1</sup>	3,720	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>
MW-3	09/02/99	ND	ND	11.0	ND	ND	ND
MW-4	09/02/99	ND	ND	27.0	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  
 ppb = Parts per billion  
 ND = Not Detected

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

<sup>1</sup> Detection limit raised. Refer to analytical reports.



TOSCO

Tosco Marketing Company  
2000 East Canyon Rd. Ste. 200  
San Antonio, California 78241

Facility Number: \_\_\_\_\_  
Facility Address: 1629 Webster Street, ALAMEDA CA  
180023.85  
Consultant Project Number: \_\_\_\_\_  
Consultant Name: Gertler-Ryan Inc. (G-R Inc.)  
Address: 6747 Sierra Court, Suite L, Dublin, CA 94568  
Project Contact (Name): Deanna L. Harding  
(Phone) 925-551-7555 (Fax Number) 925-551-7000

(Phone) (916) 774-2910

Laboratory Name: Sequoia Analytical  
Laboratory Release Number: W/9029125  
Sample Collected by (Name): Vafkes Tashjian  
Collection Date: 9/2/99  
Signature: North Oshojin

DO NOT BILL  
TB-LB ANALYSIS

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Load (Yes or No)	Analysis To Be Performed											Remarks						
								TPH Gas - STEK w/MTBE (8016)	TPH Dissol (8015)	Oil and Grease (5520)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	MTBE (8260)									
TB-LB	01A	1	W	G		HCl	Y	X																	
MW-1	02A-D	4	W	G	12:20 PM		Y	X																	
MW-2	03A-D	4	W	G	1:45 PM		Y	X																	
MW-3	04A-D	4	W	G	1:55 PM		Y	X																	
MW-4	05A-D	4	W	G	12:50 PM		Y	X																	

Relinquished By (Signature) <u>North Oshojin</u>	Organization G-R Inc.	Date/Time <u>9/2/99</u>	Received By (Signature) <u>SC</u>	Organization Sequoia Sci.	Date/Time <u>9/2/99 14:50</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days <u>As Contracted</u>
	Organization	Date/Time <u>9/3/99 12:20</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature) <u>North Oshojin</u>	Organization	Date/Time	Received For Laboratory By (Signature) <u>North Oshojin</u>	Organization	Date/Time <u>9/3/99 17:00</u>	



Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Julianne Fegley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

**ANALYTICAL REPORT FOR S909197**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
W909125-02/MW-1	S909197-01	Water	9/2/99
W909125-03/MW-2	S909197-02	Water	9/2/99
W909125-04/MW-3	S909197-03	Water	9/2/99
W909125-05/MW-4	S909197-04	Water	9/2/99



Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Julianne Fogley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

**Volatile Oxygenate Compounds by EPA Method 8260A  
 Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>S909197-01</u>								<u>Water</u>
W909125-02/MW-1							ug/l	
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		128	%	
<u>S909197-02</u>								<u>Water</u>
W909125-03/MW-2							ug/l	
Tert-butyl alcohol	9090151	9/16/99	9/16/99		2000	ND	"	D
Methyl tert-butyl ether	"	"	"		20.0	3720	"	D
Di-isopropyl ether	"	"	"		20.0	ND	"	D
Ethyl tert-butyl ether	"	"	"		20.0	ND	"	D
Tert-amyl methyl ether	"	"	"		20.0	ND	"	D
Ethanol	"	"	"		30000	ND	"	D
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		115	%	
<u>S909197-03</u>								<u>Water</u>
W909125-04/MW-3							ug/l	
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	11.0	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		117	%	
<u>S909197-04</u>								<u>Water</u>
W909125-05/MW-4							ug/l	
Tert-butyl alcohol	9090151	9/16/99	9/16/99		200	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	27.0	"	
Di-isopropyl ether	"	"	"		2.00	ND	"	
Ethyl tert-butyl ether	"	"	"		2.00	ND	"	
Tert-amyl methyl ether	"	"	"		2.00	ND	"	
Ethanol	"	"	"		3000	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	60.0-140		122	%	



Sequoia Analytical - Walnut Creek 404 N Wiger Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Julianne Fegley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

**MTBE by EPA Method 8260A  
Sequoia Analytical - Sacramento**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>W909125-02/MW-1</u> Methyl tert-butyl ether <i>Surrogate: 1,2-DCA-d4</i>	9090151	9/16/99	9/16/99	<u>S909197-01</u> 60.0-140	2.00	ND 128	Water ug/l %	
<u>W909125-03/MW-2</u> Methyl tert-butyl ether <i>Surrogate: 1,2-DCA-d4</i>	9090151	9/16/99	9/16/99	<u>S909197-02</u> 60.0-140	20.0	3720 115	Water ug/l %	D
<u>W909125-04/MW-3</u> Methyl tert-butyl ether <i>Surrogate: 1,2-DCA-d4</i>	9090151	9/16/99	9/16/99	<u>S909197-03</u> 60.0-140	2.00	11.0 117	Water ug/l %	
<u>W909125-05/MW-4</u> Methyl tert-butyl ether <i>Surrogate: 1,2-DCA-d4</i>	9090151	9/16/99	9/16/99	<u>S909197-04</u> 60.0-140	2.00	27.0 122	Water ug/l %	



Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Julianne Fegley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

**MTBE by EPA Method 8260A/Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9090151</b>		<b>Date Prepared: 9/16/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>						
<b>Blank</b>	<b>9090151-BLK1</b>									
Methyl tert-butyl ether	9/16/99			ND	ug/l	2.00				
Surrogate: 1,2-DCA-d4	"	50.0		59.2	"	60.0-140	118			
<b>Blank</b>	<b>9090151-BLK2</b>									
Methyl tert-butyl ether	9/17/99			ND	ug/l	2.00				
Surrogate: 1,2-DCA-d4	"	50.0		56.8	"	60.0-140	114			
<b>LCS</b>	<b>9090151-BS1</b>									
Methyl tert-butyl ether	9/16/99	50.0		47.4	ug/l	70.0-130	94.8			
Surrogate: 1,2-DCA-d4	"	50.0		58.8	"	60.0-140	118			
<b>LCS Dup</b>	<b>9090151-BSD1</b>									
Methyl tert-butyl ether	9/16/99	50.0		47.2	ug/l	70.0-130	94.4	25.0	0.423	
Surrogate: 1,2-DCA-d4	"	50.0		57.2	"	60.0-140	114			
<b>Matrix Spike</b>	<b>9090151-MS1</b>		<b>S909193-01</b>							
Methyl tert-butyl ether	9/16/99	50.0	2.74	47.4	ug/l	60.0-140	89.3			
Surrogate: 1,2-DCA-d4	"	50.0		58.4	"	60.0-140	117			
<b>Matrix Spike Dup</b>	<b>9090151-MSD1</b>		<b>S909193-01</b>							
Methyl tert-butyl ether	9/16/99	50.0	2.74	49.4	ug/l	60.0-140	93.3	25.0	4.38	
Surrogate: 1,2-DCA-d4	"	50.0		61.0	"	60.0-140	122			





Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Julianne Fegley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

**Volatile Oxygenate Compounds by EPA Method 8260A/Quality Control**  
**Sequoia Analytical - Sacramento**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9090151</b>		<b>Date Prepared: 9/16/99</b>		<b>Extraction Method: EPA 5030B (P/T)</b>						
<b>Blank</b>	<b>9090151-BLK1</b>									
Tert-butyl alcohol	9/16/99			ND	ug/l	200				
Methyl tert-butyl ether	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Ethanol	"			ND	"	3000				
Surrogate: 1,2-DCA-d4	"	50.0		59.2	"	60.0-140	118			
<b>Blank</b>	<b>9090151-BLK2</b>									
Tert-butyl alcohol	9/17/99			ND	ug/l	200				
Methyl tert-butyl ether	"			ND	"	2.00				
Di-isopropyl ether	"			ND	"	2.00				
Ethyl tert-butyl ether	"			ND	"	2.00				
Tert-amyl methyl ether	"			ND	"	2.00				
Ethanol	"			ND	"	3000				
Surrogate: 1,2-DCA-d4	"	50.0		56.8	"	60.0-140	114			
<b>LCS</b>	<b>9090151-BS1</b>									
Methyl tert-butyl ether	9/16/99	50.0		47.4	ug/l	70.0-130	94.8			
Surrogate: 1,2-DCA-d4	"	50.0		58.8	"	60.0-140	118			
<b>LCS Dup</b>	<b>9090151-BSD1</b>									
Methyl tert-butyl ether	9/16/99	50.0		47.2	ug/l	70.0-130	94.4	25.0	0.423	
Surrogate: 1,2-DCA-d4	"	50.0		57.2	"	60.0-140	114			
<b>Matrix Spike</b>	<b>9090151-MS1 S909193-01</b>									
Methyl tert-butyl ether	9/16/99	50.0	2.74	47.4	ug/l	60.0-140	89.3			
Surrogate: 1,2-DCA-d4	"	50.0		58.4	"	60.0-140	117			
<b>Matrix Spike Dup</b>	<b>9090151-MSD1 S909193-01</b>									
Methyl tert-butyl ether	9/16/99	50.0	2.74	49.4	ug/l	60.0-140	93.3	25.0	4.38	
Surrogate: 1,2-DCA-d4	"	50.0		61.0	"	60.0-140	122			



Sequoia Analytical - Walnut Creek 404 N Wiget Lane Walnut Creek, CA 94598	Project: N/A Project Number: (WO#W909125) Project Manager: Juliannc Fegley	Sampled: 9/2/99 Received: 9/3/99 Reported: 11/1/99
---	--	--

Notes and Definitions

#	Note
---	------

- D Data reported from a dilution.
- 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