

GETTLER-RYAN INC. PROTECT

TRANSMITTAL

99 MOV 15 PM 4: 25

October 27, 1999

G-R #:180225

TO:

Mr. David B. De Witt

Tosco Marketing Company

2000 Crow Canyon Place, Suite 400

San Ramon, California 94583

Mr. Glen Matteucci CC:

ERI, Inc.

73 Digital Drive, Suite 100

Novato, California

FROM:

Deanna L. Harding

Project Coordinator

Gettler-Ryan Inc.

6747 Sierra Court, Suite J

Dublin, California 94568

RE:

Tosco 76 Service Station #1156

4276 MacArthur Boulevard

Oakland, California

Res getanto to D Harting 2000 for MIBE.

just to 8020 for BUCK, MIBE.

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 25, 1999	Groundwater Monitoring and Sampling Report Fourth Quarter 1999 - Event of September 28, 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 November 9, 1999, this report will be distributed to the following:

Enclosure

Ms. Eva Chu, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502 Mr. Bob Hale, Alameda County Public Works Agency, Water Resources Section, 951 Turner CT, Suite 300, Hayward, CA 94545

October 25, 1999 G-R Job #180225

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

RE: Fourth Quarter 1999 Groundwater Monitoring & Sampling Report

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 28, 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 Tables 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

No. 8882

Sincerely.

Project Coordinator

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

Figure 1:

Potentiometric Map

Figure 2:

Concentration Map

Table 1:

Groundwater Monitoring Data and Analytical Results

Table 2:

Groundwater Analytical Results

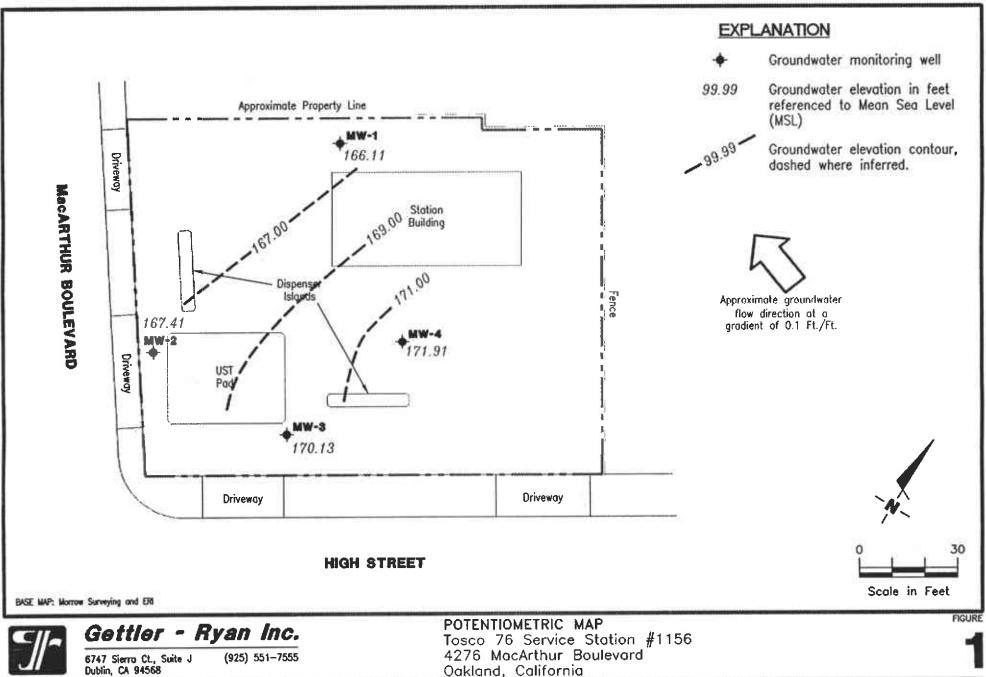
Attachments:

Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

1156.qml



JOB NUMBER 180225

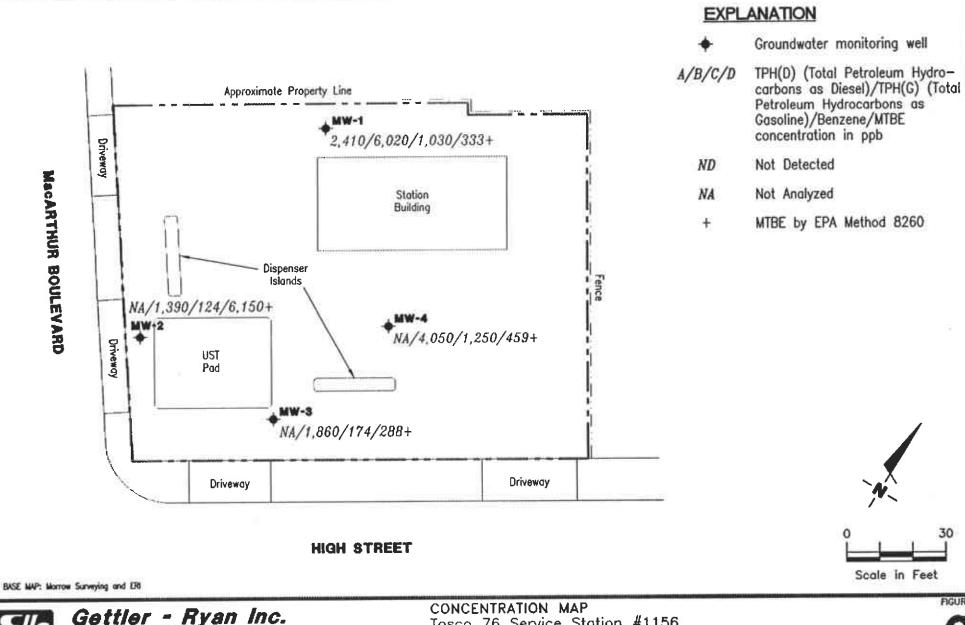
REVIEWED BY

Oakland, California

REVISED DATE

September 28, 1999

DATE





Gettler - Ryan Inc.

6747 Sierra Ct., Suite J **Dublin, CA 94568**

(925) 551-7555

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

DATE

September 28, 1999

JOB NUMBER 180225

REVIEWED BY

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

Well ID/	Date	DTW	GWE	Product Thickness	TPH(D)	TPH(G)	В	т	E	x	МТВЕ
TOC*		(ft.)	(msl)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-1											
174.86	07/20/99 ⁵	7.50	167.36		$16,000^2$	120,000	11,000	27,000	3,300	18,000	ND^1
	09/28/99	8.75	166.11	<0.01	2,410 ²	6,020 ⁶	1,030	1,040	68.5	412	321/3333
MW-2											
173.01	07/20/99	5.40	167.61			ND¹	NDI	ND ¹	ND ¹	ND^1	4,500/11,000 ^{3,}
	09/28/99	5.60	167.41	0.00	••	1,3906	124	ND ¹	62.9	43.1	5,280/6,150 ³
MW-3											
178.44	07/20/99	8.50	169.94		355	1,000	76	52	79	76	330
	09/28/99	8.31	170.13	0.00	-	1,8606	174	95.4	71.8	135	443/288 ³
MW-4											
179.10	07/20/99	7.40	171.70		***	69	2.7	0.77	ND	7.1	100
	09/28/99	7.19	171.91	0.00	320	4,050 ⁶	1,250	72.0	51.3	133	416/459 ³
Trip Blank											
TB-LB	07/20/99		#40	1	***	See 2	÷++	**	***	(44)	-
	09/28/99				-	ND	ND	ND	ND	ND	ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

TOC = Top of Casing elevation

B = Benzene

ppb = Parts per billion

DTW = Depth to Water

T = Toluene

ND = Not Detected

(ft.) = Feet

E = Ethylbenzene

-- = Not Measured/Not Analyzed

GWE = Groundwater Elevation

X = Xylenes

(msl) = Referenced relative to mean sea level

MTBE = Methyl tertiary butyl ether

TPH(D) = Total Petroleum Hydrocarbons as Diesel

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

- TOC elevations are based on City of Oakland Benchmark No. 3967, (Elevation = 174.40 feet msl).
- Detection limit raised. Refer to analytical reports.
- Laboratory report indicates unidentified hydrocarbons C9-C24.
- MTBE by EPA Method 8260.
- Laboratory analyzed sample past EPA recommended holding time.
- Total Recoverable Petroleum Oil was ND.
- Laboratory report indicates gasoline C6-C12.

Table 2
Groundwater Analytical Results

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

Date	Ethanol <i>(ppb)</i>	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	HVOCs (ppb)	SVOCs (ppb)
07/20/99 09/28/99		 ND ⁶	11,000 ³ 333	 ND ⁶	 ND ⁶	 ND ⁶	ND¹ ND⁴	ND ² ND⁵
09/28/99		ND ⁶	6,150	ND ⁶	ND ⁶	ND ⁶		-
09/28/99		ND ⁶	288	ND^6	ND ⁶	8.80		
09/28/99		ND ⁶	459	ND ⁶	ND^6	ND ⁶	_	
	07/20/99 09/28/99 09/28/99	(ppb) 07/20/99 09/28/99 09/28/99	(ppb) (ppb) 07/20/99 ND ⁶ 09/28/99 ND ⁶ 09/28/99 ND ⁶	(ppb) (ppb) (ppb) 07/20/99 11,000³ 09/28/99 ND6 333 09/28/99 ND6 6,150 09/28/99 ND6 288	(ppb) (ppb) (ppb) (ppb) 07/20/99 11,000³ 09/28/99 ND6 333 ND6 09/28/99 ND6 6,150 ND6 09/28/99 ND6 288 ND6	(ppb) (ppb) (ppb) (ppb) (ppb) 07/20/99 11,000³ 09/28/99 ND6 333 ND6 ND6 09/28/99 ND6 6,150 ND6 ND6 09/28/99 ND6 288 ND6 ND6	(ppb) (ppb) (ppb) (ppb) (ppb) (ppb) 07/20/99 11,000³ 09/28/99 ND6 333 ND6 ND6 ND6 09/28/99 ND6 6,150 ND6 ND6 ND6 09/28/99 ND6 288 ND6 ND6 8.80	(ppb) (ppb) <th< td=""></th<>

Table 2

Groundwater Analytical Results

Tosco 76 Service Station #1156 4276 MacArthur Boulevard Oakland, California

EXPLANATIONS:

Groundwater analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

TBA = Tertiary Butyl Alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl Tertiary Butyl Ether

TAME = Tertiary Amyl Methyl Ether

EDB = 1,2-Dibromoethane

HVOCs = Halogenated Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

ppb = Parts per billion

-- = Not Analyzed

ND = Not Detected

- All HVOCs were ND except for Chlorobenzene at 12 ppb; 1,2-Dichlorobenzene (1,2-DCB) at 3.9 ppb; 1,1-Dichloroethane (1,1-DCA) at 2.0 ppb; 1,2-Dichloroethane (1,2-DCA) at 20 ppb; cis-1,2-Dichloroethene (cis-1,2-DCE) at 3.6 ppb; and 1,2-Dichloropropane (1,2-DCP) at 0.92 ppb.
- ² All SVOCs were ND except for Benzyl alcohol at 37 ppb; 2,4-Dimethylphenol at 140 ppb; 2-Methylnaphthalene at 240 ppb; 4-Methylphenol at 27 ppb; and Naphthalene at 600 ppb.
- 3 Laboratory analyzed sample past EPA recommended holding time.
- All HVOCs were ND except for Benzene at 6,130 ppb; Ethylbenzene at 1,590 ppb; Naphthalene at 534 ppb; Toluene at 11,900 ppb; 1,2,4-Trimethylbenzene at 1,240 ppb; 1,3,5-Trimethylbenzene at 318 ppb; and Total Xylenes at 7,360 ppb.
- All SVOCs were ND (with a raised detection limit) except for 2,4-Dimethylphenol at 13.6 ppb; 2-Methylphenol at 87.4 ppb; 2-Methylphenol at 26.4; 4-Methylphenol at 35.6; and Naphthalene at 292 ppb.
- 6 Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds EPA Method 8010 for HVOCs EPA Method 8270 for SVOCs

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 flexidip 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

Facility #	,seo ,,6		Job	#: <u>/8</u>	30225		
	16 MacArthur	BIVE	Dat	e: <u>9</u> /	128/99)	
City:	alland		San	npler: <u></u>	larthy		
Well ID	_ nw - 1	Well	Condition:	OK	<u>,</u>		
Well Diameter	2in.	Hydr Thic	rocarbon kness:	.ව / _(feet)	Amount Ba	ailed er):	S (Gallons)
Total Depth	25.00 tt.	Voi	ume 2" =	: 0.17	3" = 0.38		= 0.66
Depth to Water	8.75 tt.	Fac	tor (VF)	6" = 1.	50	12* = 5.80	
	16.25 x	vf <u>3-1}</u>	- <u>2.76</u> x 3 (ca	se volume) =	Estimated Pu	rge Volume: <u>8</u>	7.78 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipme	ent: Dis Ba Pre Gr	sposable Ba ler essure Baile ab Sample her:	er	
Starting Time: Sampling Time:	12:25		Weather Condi	de		Odor: 4	
			Sediment Desc If yes: Time:				(gal.)
Did well de-wat	ter?		if yes; Time.		VOIGII		
Time 12:10	Volume pH (gal.) オイン	μm l		mperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:13	8.5 7.59			0.6			
SAMPLE ID	(#) - CONTAINER	LABOR REFRIG.	ATORY INFOR		RATORY	ANAL	YSES
	(#) - CONTAINER					TPH(G)/btex/	mtbe
MW-1		REFRIG.	PRESERV. TYPE	LABO		TPH(G)/btex/	oky 677.
MW-1	3 VoA	REFRIG.	PRESERV. TYPE	SEQUOIA		TPH(G)/btex/1 8260(5) HVOC's(2	oky 677.
MW_1	3 VOA 2 VOA	REFRIG.	PRESERV. TYPE	SEQUOIA		8260(5) HVOC's (3)	0 kg (470°.
MW-1 MW-1 MV-1	3 VOA 2 VO A 3 VOA	REFRIG.	PRESERV. TYPE HCl	SEQUOIA		TPH(G)/btex/1 8260(5) HVOC's(2	oxy (575. 8260)

WELL MONITORING/SAMPLING FIELD DATA SHEET

ient/ <i>てo</i> cility <u>非 リス</u>	,300 56	· · · · · · · · · · · · · · · · · · ·	Jobi		80225		
dress: 427	76 MacArth	er Blody	Date		128/99		<u> </u>
ty: <u>Oa</u>	kland		Sam	pler: _ <i>V</i>	not kn		
Well ID	HW-Z	Well C	Condition:	OL			
'ell Diameter	2in.	Hydro	carbon ness:	D [feet]	Amount Ba	711	(Gallons)
otal Depth	25.50 ft	Volum	ne 2" =	0.17		4"	= 0.66
epth to Water	5,60 t	Facto	r (VF)	0 = 1			
	19.90 ×	VFQ.1}-	_3.38 x 3 (cas	se volume) =	Estimated Pu	rge Volume: 🔼	0.14 (gal.)
Purge quipment:	Disposable Baile Bailer Stack Suction Grundfos Other:		Sampling Equipme	nt: Qi Ba Pr Gr	sposable Ba iller essure Baile rab Sample ther:	ır	
Starting Time:	10:00		Veather Condi	tions:	dear		
Sampling Time:	10:30		Vater Color: _)
	ite:	gpm. S	Sediment Desc				
	er? n O		f yes; Time:		Volun	ne:	<u>(qa</u>
Time 10:13	Volume pH (gal.) 7.77	$\frac{\mu mhc}{7 \cdot 2}$	s/cmX/00	nperature 9.4	D.O. (mg/L)	ORP (mV)	Alkalinit (ppm)
10:20	10.5 7.5	7.6	2	1.7			
SAMPLE ID	(#) - CONTAINER	LABORA REFRIG.	TORY INFORI		ORATORY	ANAL	YSES
HU-Z	3 VOA	Y	HCI	SEQUO	Α	TPH(G)/btex/	
MW- 2	2 VOA-	74	حر	~		8260 (5)	04/0-7
7,00					· · · · · · · · · · · · · · · · · · ·	-	
7,10		<u> </u>				<u>. </u>	
COMMENTS:						J	

WELL MONITORING/SAMPLING FIELD DATA SHEET

Address: 4476 MacAttur B)vd. Date: 9/28/49 City: Oakland Sampler: Varthy Well ID	lient/ 7o acility <u>非 11.</u> 5	sco 56			Job#:			<u>.</u>	· 	
Well ID Well Diameter Volume Purge Equipment: Bailer Stack Suction Grundfos Other: Starting Time: Starting Time: Did well de-water? Did well de-water? Did well Amount Bailed (product/water): Well Condition: Well Condition: Ok Amount Bailed (product/water): Volume Factor (VF) Sampling Equipment: Sampling Equipment: Disposable Bailer Bailer Fressure Bailer Grundfos Other: Weather Conditions: Water Color: Did well de-water? Weather Conditions: Water Color: Volume: If yes; Time: If yes; Time			ur Blue	de_	Date:	9.	28/97			
Well Diameter					Sampler: Varthy					
Thickness: Prest (product/water): Gallon (Sallon Pepth to Water Purge Notations: Pressure Bailer Stack Suction Grundfos Other: Weather Conditions: Purging Flow Rate: 1 gpm. Sediment Description: If yes; Time: Volume PH Conductivity Temperature D.O. ORP Alkalini (ppm.) 11:27 G. 3.50 G.	Well ID	_μω-3	Well	l Condition	n:	OK				
Volume	Vell Diameter				Þ				(Gallons)	
Purge Disposable Bailer Sampling Equipment: Disposable Bailer Bailer Stack Pressure Bailer Pressure Bailer Grundfos Grab Sample Other: Other: Odor: Pressure Bailer Grab Sample Other: Other: Odor: Pressure Bailer Grab Sample Other: Odor: Press			Vo	lume	2" = 0.1				1" = 0.66	
Other:	_	Disposable Bailer Bailer Stack Suction		Sar	mpling	Dis Bai Pre	posable B ler ssure Bail	ailer er	8. <u>5</u> (gal.)	
Time Volume pH Conductivity Temperature D.O. ORP Alkalini (gal.) 7.48 7.39 7.1.2 11:27 6 7.53 7.49 7.79 7.72 11:30 9 7.53 7.19 70.8 LABORATORY INFORMATION SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE / LABORATORY ANALYSES MW-3 3 VOA Y HC1 SEQUOIA TPH(G)/btex/mtbe	Sampling Time:	11:21		Water Co	lor:	ns:	el	Odor: 4		
11:27										
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE / LABORATORY ANALYSES NW-3 3 VOA Y HC SEQUOIA TPH(G)/btex/mtbe	11:27	/1 \	μ m	hos/cmx/00	<u>→</u> ; →1.	.) 2			Alkalinity (ppm)	
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE / LABORATORY ANALYSES NW-3 3 VOA Y HC1 SEQUOIA TPH(G)/btex/mtbe										
NW-7 3 VOA	SAMPLE ID	(#) - CONTAINER					RATORY	ANA	LYSES	
MW-3 2 V) A " " " " " " " " " " " " " " " " " "		· · · · · · · · · · · · · · · · · · ·	Y	HCI						
	NW-3	2014	<u> </u>	••		4		8260 (5	1064.00	
COMMENTS:	COMMENTS:									

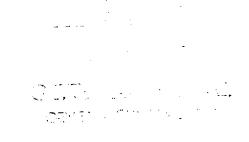
WELL MONITORING/SAMPLING FIELD DATA SHEET

lient/ To			•				,
acility #	5-6		Jol	o#:	180225		
	16 MacArt	tur BI	ud. Da	te: <u>'</u>	9/28/99	?	
ity: Oa				mnler:	Varth	•	
ity:	uluana				<u> </u>		······································
Well ID	MW-4	. Wel	l Condition:	Ok			
Vell Diameter	2 in		rocarbon ckness:	O (feet)	Amount B	<i>A</i>	(Gallons)
otal Depth	25.3%Of	v _c	lume 2"	= 0.17	3" = 0.38	3 4'	= 0.66
epth to Water	7.19	Fa	ctor (VF)	6" =	1.50	12" = 5.80	···-
	18.11	VF 0-17	= <u>3.07</u> x31c	ase volume) :	= Estimated Pu	urge Volume: _	9, 23 _(qal.)
Purge Equipment:	Disposable Baile Bailer Stack Suction Grundfos Other:		Samplir Equipm	ent: Ø B Pi G	sposable Ba ailer ressure Baile rab Sample ther:	er	·
Sampling Time:	11:05 e:		Weather Color: Water Color: Sediment Des	bo	<u>- </u>		2
Did well de-water	no no		If yes; Time:			ne:	igai
	olume pH	$\mu \pi$		mperature •F 72, 2	D.O. (mg/L)		Alkalinity (ppm)
10:51	6 740			72.5			
10:54	9.5 7.3	1	0.65	72,3	<u></u>		
		LABOR	RATORY INFOR				
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYP		ORATORY	ANAL' TPH(G)/btex/r	·
T	3 VoA	Y	HCI	SEQUO	A .	8260(5)	
MW-4	5 14 · A:		<u> </u>	٠.		10000(3)	7
MW-4 HW-4	2VOA						
	ZVOA						

9/97-fieldat.fm



October 19, 1999



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

RE: Tosco(4)/L909259

Dear Deanna Harding

Enclosed are the results of analyses for sample(s) received by the laboratory on September 28, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson Project Manager

CA ELAP Certificate Number 2245



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Project Number: TOSCO (76) SS#1156, 1802225
Project Manager: Deanna Harding

Sampled: 9/28/99 Received: 9/28/99

Reported: 10/19/99

ANALYTICAL REPORT FOR L909259

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
TB-LB	L909259-01	Water	9/28/99
MW-1	L909259-02	Water	9/28/99
MW-2	L909259-03	Water	9/28/99
MW-3	L909259-04	Water	9/28/99
MW-4	L909259-05	Water	9/28/99



6747 Sierra Court, Suite D Dublin, CA 94568	•	Deanna Harding		10/19/99
•		TOSCO (76) SS#1156, 180225.85	Received:	9/28/99
Gettler-Ryan/Geostrategies(1)	Project:	Tosco(4)	Sampled:	9/28/99

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

	Batch	Date	Date	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Analyte	Number	Prepared	Analyzed	Limits	Limit		Onto	110100
TOID			L90925	59-01			Water	•
TB-LB Purgeable Hydrocarbons as Gasoline	9100036	10/8/99	10/8/99		50.0	ND	ug/l	
Benzene)100050 II	n n	n		0.500	ND	н	
Poluene	н	H	н		0.500	ND	H	
Ethylbenzene	н		**		0.500	ND	III	
Xylenes (total)	н	н	17		0.500	ND	11	
Methyl tert-butyl ether	If	н	11		5.00	ND	11	
Surrogate: a,a,a-Trifluorotoluene	"		"	70.0-130		90.5	%	
Surrogate: a,a,a-1 rijiuorototuene				70.0 120				
MW-1			L9092	<u>59-02</u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	9100036	10/8/99	10/9/99		1000	6020	ug/l	
Benzene	"	**	"		10.0	1030	11	
Toluene	11	11	11		10.0	1040	**	
Ethylbenzene	If	н	If		10.0	68.5	**	
Xylenes (total)	If .	11	11		10.0	412	11	
Methyl tert-butyl ether	"	11	H		100	321	H	
Surrogate: a,a,a-Trifluorotoluene	_{''}	"	"	70.0-130		NR	%	
			T 0003	E0 02			Water	
<u>MW-2</u>	0100037	10/0/00	L9092	<u> </u>	250	1390	ug/l	
Purgeable Hydrocarbons as Gasoline	9100036	10/8/99	10/9/99 "		2.50	124	ug/t	
Benzene	"	**	" H		2.50	ND	11	
Toluene	r.	" Pr	"			62.9	11	
Ethylbenzene		" H	"		2.50	43.1	r1	
Xylenes (total)		"			2.50	5280	11	
Methyl tert-butyl ether	"	<u>"</u>	10/12/99	70.0.130	200	86.3	%	
Surrogate: a,a,a-Trifluorotoluene	"	,,	10/9/99	70.0-130		80.5	/0	
MW-3			L9092	59-04			Water	
Purgeable Hydrocarbons as Gasoline	9100046	10/11/99	10/12/99		500	1860	ug/l	1
Benzene)100040 ii	"	11		5.00	174	11	
Toluene	11	17	н		5.00	95.4	11	
Ethylbenzene	н	Ħ	#1		5.00	71.8	10	
Xylenes (total)	II.	11	IF.		5.00	135	71	
Methyl tert-butyl ether	,,	It	"		50.0	443	**	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		78.0	%	
- 3 ,				÷			***	
<u>MW-4</u>			<u>L9092</u>	<u> </u>			<u>Water</u>	
Purgeable Hydrocarbons as Gasoline	9100046	10/11/99	10/12/99		1250	4050	ug/l "	1
Benzene	(1	#	н		12.5	1250		
Toluene	**	D	**		12.5	72.0		
Ethylbenzene	Ħ	н	H		12.5	51.3	н	
Xylenes (total)	н	"	*1		12.5	133	#1	

Sequoia Analytical - San Carlos



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99

Project Manager: Deanna Harding

Reported: 10/19/99

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-4 (continued)			<u>L9092</u> :	<u>59-05</u>			<u>Water</u>	
Methyl tert-butyl ether	9100046	10/11/99	10/12/99		125	416	ug/l	
Surrogate: a,a,a-Trifluorotoluene	π	Ħ	n	70.0-130		90.1	%	



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

Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85
Project Manager: Deanna Harding

Sampled: 9/28/99 Received: 9/28/99 Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - San Carlos

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
			~ ~~~	- 0.00			Water	
<u>MW-1</u>			<u>L9092</u> :	<u>59-02</u>	200	£130	Water	
Benzene	9090135	9/29/99	9/29/99		200	6130	ug/l "	
Bromobenzene	11	H	Ħ		200	ND	TI	
Bromochloromethane	н	11	Ħ		200	ND	"	
Bromodichloromethane	er .	18	tt		200	ND		
Bromoform	D	rt .	n		200	ND	"	
Bromomethane	P	**	Iŧ		500	ND		
n-Butylbenzene	10	11	"		200	ND	ļī.	
sec-Butylbenzene	11	n	н		200	ND	**	
tert-Butylbenzene	11	11	н		200	ND	**	
Carbon tetrachloride	**	11	11		200	ND	н	
Chlorobenzene	11	H	19		200	ND	"	
Chloroethane	n	H	n		500	ND	**	
Chloroform	н	n	н		200	ND	II .	
Chloromethane	**	"	71		500	ND	II.	
2-Chlorotoluene	#1	н	н		200	ND	н	
	11	II	11		200	ND	**	
4-Chlorotoluene		н	ır		200	ND	**	
Dibromochloromethane	11	**	IF.		200	ND	H	
1,2-Dibromoethane	**	#			. 200	ND	11	
Dibromomethane	п	••	п		500	ND	lf.	
1,2-Dibromo-3-chloropropane	11	ır.	н		200	ND	н	
1,2-Dichlorobenzene	0	" It	11		200	ND	**	
1,3-Dichlorobenzene		11	"		200	ND	10	
1,4-Dichlorobenzene	n .		и		500	ND	н	
Dichlorodifluoromethane	**	**					я	
1,1-Dichloroethane	H	"			200	ND	lt.	
1,2-Dichloroethane	**	11	11		200	ND	D.	
1,1-Dichloroethene	11	ır	н		200	ND	 H	
cis-1,2-Dichloroethene	H	n	**		200	ND	"	
trans-1,2-Dichloroethene	*	H	II.		200	ND		
1,2-Dichloropropane	H	n	H		200	ND		
1,3-Dichloropropane	**	**	19		200	ND	ff 	
2,2-Dichloropropane	11	n	M		200	ND	19	
1,1-Dichloropropene	H	H	Ħ		200	ND	19	
Ethylbenzene	**	U	III		200	1590	11	
Hexachlorobutadiene	#	11	**	·	200	ND	н	
Isopropylbenzene	#	"	**		200	ND	11:	
p-Isopropyltoluene	11	11	*1		200	ND	19	
Methylene chloride	н	н	"		500	ND	10	
Naphthalene		10	H		500	534	**	
	11	11	10		200	ND	11	
n-Propylbenzene Styrene	u	11	н		200	ND	14	

Sequoia Analytical - San Carlos



Project: Tosco(4)
Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99 Reported: 10/19/99

Project Manager: Deanna Harding

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - San Carlos

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-1 (continued)			L9092	59-02			Water	
1,1,1,2-Tetrachloroethane	9090135	9/29/99	9/29/99		200	ND	ug/l	
1,1,2,2-Tetrachloroethane	n	н	H		200	ND	#	
Tetrachloroethene	Ħ	17	н		200	ND	PF .	
Toluene	n	19			200	11900	17	
1,2,3-Trichlorobenzene	11	н	11		200	ND	10	
	11	H	11		200	ND	π	
1,2,4-Trichlorobenzene	U	H	н		200	ND	n	
I,1,1-Trichloroethane		**	н		200	ND	ų	
1,1,2-Trichloroethane		**	pe .		200	ND	11	
Trichloroethene		н	.,		500	ND	11	
Trichlorofluoromethane	н	11	"		200	ND	D	
1,2,3-Trichloropropane		 It	" N				n	
1,2,4-Trimethylbenzene	**				200	1240	et .	
1,3,5-Trimethylbenzene	11	11	11		200	318	**	
Vinyl chloride	(I	**	11		200	ND		
Total Xylenes	10	**			200	7360		
Surrogate: 1,2-Dichloroethane-d4	"	"	rr ·	76.0-114		99.2	%	
Surrogate: Toluene-d8	"	•	"	88.0-110		98.8	n	
Surrogate: 4-BFB	"	n	n	86.0-115		98.6	Tr .	



Project: Tosco(4)

Project Manager: Deanna Harding

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99

Received: 9/28/99 Reported: 10/19/99

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

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
							WI-+	
<u>MW-1</u>			<u>L9092</u>	<u>59-02</u>	((70	NE	Water	
Tert-butyl alcohol	9090136	9/29/99	9/29/99		6670	ND	ug/l	
Methyl tert-butyl ether	71	**	11		66.7	333	 n	
Di-isopropyl ether	11	t)	#		66.7	ND		
Ethyl tert-butyl ether	**	п	n		66.7	ND	#I	
Tert-amyl methyl ether	11	17	н		66.7	ND	"	
Surrogate: 1,2-Dichloroethane-d4	н	n	н	76.0-114		98.0	%	
MW-2			L9092	<u>59-03</u>			Water	
Tert-butyl alcohol	9090136	9/29/99	9/29/99		10000	ND	ug/l	
Methyl tert-butyl ether	н	11	11		100	6150	10	
Di-isopropyl ether	11	1)	IT		100	ND	н	
Ethyl tert-butyl ether	II .	10	19		100	ND	71	
Tert-amyl methyl ether	If	tF			100	ND	м	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		105	%	
<u>MW-3</u>			L9092	59-04			Water	
Tert-butyl alcohol	9090143	9/29/99	10/4/99		500	ND	ug/l	
Methyl tert-butyl ether	11	II.	II.		5.00	288	11	
Di-isopropyl ether	D	н	D		5.00	ND	71	
Ethyl tert-butyl ether	H		**		5.00	ND	11	
Tert-amyl methyl ether	Ħ	Ħ	IF.		5.00	8.80	*1	
Surrogate: 1,2-Dichloroethane-d4	n	"	"	76.0-114		88.2	%	
MW-4			1.9092	159-05			Water	
Tert-butyl alcohol	9090136	9/29/99	9/29/99		1250	ND	ug/l	
Methyl tert-butyl ether	9090130	91 Z 21 7 7	1)		12.5	459	-5	
Di-isopropyl ether	н	14	н		12.5	ND	71	
Ethyl tert-butyl ether	W .	**			12.5	ND	*1	
Tert-arnyl methyl ether	n	11	••		12.5	ND	11	
Surrogate: 1,2-Dichloroethane-d4	н		"	76.0-114		97.6	%	
Surrogate. 1,2-Dichtoroethane-44				10.0 117				



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Project Manager: Deanna Harding

Sampled: 9/28/99 Received: 9/28/99

Reported:

10/19/99

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-1</u>	0100101	10/7/00	<u>L9092</u>	<u>59-02</u>	50.0	2410	Water ug/l	2
Diesel Range Hydrocarbons	9100191	10/7/99	10/12/99		50.0			
Surrogate: n-Pentacosane	n	Ħ	Ħ	50.0-150		93.1	%	



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85 Project Manager: Deanna Harding

Sampled: 9/28/99 Received: 9/28/99 Reported: 10/19/99

Semivolatile Organic Compounds by EPA Method 8270B Sequoia Analytical - Morgan Hill

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
A MARKET SW			<u> </u>					
MW-1			L9092	<u>59-02</u>			Water	_
Acenaphthene	9100145	10/5/99	10/11/99		10.0	ND	ug/l	D
Acenaphthylene	* * * #	7	17		10.0	ND		D
Anthracene	Ħ	п	17		10.0	ND	H	D
Benzoic acid	tt	11	Ħ		20.0	ND	••	D
Benzo (a) anthracene	•	D	tr		10.0	ND	**	D
Benzo (b) fluoranthene	11	n	19		10.0	ND	н	D
Benzo (k) fluoranthene	H	"	н		10.0	ND	**	D
Benzo (ghi) perylene	91	**			10.0	ND	"	D
Benzo[a]pyrene	11	н			10.0	ND	"	D
Benzyl alcohol	n	*1	51		10.0	ND	п	D
Bis(2-chloroethoxy)methane	17	11	17		10.0	ND	tF	D
Bis(2-chloroethyl)ether	ių .	D	ti .		10.0	ND	*	D
Bis(2-chloroisopropyl)ether	п	н	19		10.0	ND	**	D
Bis(2-ethylhexyl)phthalate	**	**	**		20.0	ND	71	D
4-Bromophenyl phenyl ether	u	พ	п		10.0	ND	*	D
Butyl benzyl phthalate	II.		"		10.0	ND	11	D
4-Chloroaniline	"	п	11		20.0	ND	II.	D
2-Chloronaphthalene	**	19	P		10.0	ND	н	Ð
4-Chloro-3-methylphenol	n,	**	H		10.0	ND		D
2-Chlorophenol	11	#	11		10.0	ND	#1	D
4-Chlorophenyl phenyl ether	н		71		10.0	ND	"	D
Chrysene	H	11	и		10.0	ND	10	D
Dibenz (a,h) anthracene	TI	H	it		10.0	ND	U	D
Dibenzofuran	M	n	17		10.0	ND	I¥	Ð
Di-n-butyl phthalate	†1	**	"		20.0	ND	n	D
1,2-Dichlorobenzene	II.	#	н		10.0	ND	п	D
1,3-Dichlorobenzene	**	11	74		10.0	ND	#1	D
1,4-Dichlorobenzene	••	н	11		10.0	ND	1f	D
3,3'-Dichlorobenzidine	н	H	D		20.0	ND	10	D
2,4-Dichlorophenol	11	11	ll.		10.0	ND	19	D
Diethyl phthalate	11		n		10.0	ND	•	D
2,4-Dimethylphenol	n	11	**		10.0	13.6	11	D
Dimethyl phthalate	**	н	11		10.0	ND	•	D
4,6-Dinitro-2-methylphenol	n	11	41		20.0	ND	87	D
2,4-Dinitrophenol	"	н)		20.0	ND	u	D
2,4-Dinitrotoluene	u		re		10.0	ND	10	D
2,6-Dinitrotoluene	H	*	**		10.0	ND	**	D
Di-n-octyl phthalate		ıı	11		10.0	ND	ii.	D
Fluoranthene	#1	19	11		10.0	ND	17	D
Fluorene	11	H	19		10.0	ND	11	D
1 1401010					10.0	ND	10	D

Sequoia Analytical - San Carlos



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Received: 9/28/99

Sampled: 9/28/99

Project Manager: Deanna Harding

Reported: 10/19/99

Semivolatile Organic Compounds by EPA Method 8270B Sequoia Analytical - Morgan Hill

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
	-		7 0000	.			Water	
MW-1 (continued)			<u>L9092:</u>	<u>59-02</u>	10.0	NTO		n
Hexachlorobutadiene	9100145	10/5/99	10/11/99		10.0	ND	ug/l	D
Hexachlorocyclopentadiene	*	H	11		20.0	ND		D
Hexachloroethane	#		Ħ		10.0	ND	"	D
Indeno (1,2,3-cd) pyrene	Ħ		n		10.0	ND		D
Isophorone	Ħ	17	H		10.0	ND	**	D
2-Methylnaphthalene	19	#1	,,,		10.0	87.4		D
2-Methylphenol	п	и	10		10.0	26.4	н	D
4-Methylphenol	19	н	Ħ		10.0	35.6	п	D
Naphthalene	*	11	П		10.0	292	11	D
2-Nitroaniline	•	II .	••		20.0	ND	н	D
3-Nitroaniline	Ħ	n	11		20.0	ND	11	Ð
4-Nitroaniline	н	n	П		20.0	ND	11	D
Nitrobenzene	11	**	If		10.0	ND	P	D
2-Nitrophenol	I I	**	u		10.0	ND	IF.	D
4-Nitrophenol	P	77	o o		20.0	ND	н	D
N-Nitrosodiphenylamine	"	n	"		10.0	ND	re .	D
N-Nitrosodi-n-propylamine	**	*	17		10.0	ND	••	D
Pentachlorophenol	W	h	19		20.0	ND	**	D
Phenanthrene	**	11	**		10.0	ND	11	D
Phenol	**	IP	*1		10.0	ND	н	D
Pyrene	ıt	#	11		10.0	ND	•	D
1,2,4-Trichlorobenzene	11	**	II;		10.0	ND	11	D
2,4,5-Trichlorophenol	R	11	IF.		20.0	ND	11	D
2,4,5-Trichlorophenol	ri	n	н		10.0	ND	10	D
Surrogate: 2-Fluorophenol	н	,,	"	21.0-110		61.0	%	D
Surrogate: Phenol-d6	"	n	н	10.0-110		45.2	"	D
Surrogate: Nitrobenzene-d5	,,	"	n	35.0-114		94.0	"	D
Surrogate: 2-Fluorobiphenyl	"	n	"	43.0-116		91.5	"	D
Surrogate: 2,4,6-Tribromophenol	n	"	n	10.0-123		89.5	"	D
	rt .	"	"	33.0-141		96.0	п	D
Surrogate: p-Terphenyl-d14				JJ.V-171		,		-



9/28/99 Sampled: Project: Tosco(4) Gettler-Ryan/Geostrategies(1) 9/28/99 Received: Project Number: TOSCO (76) SS#1156, 180225.85 6747 Sierra Court, Suite D 10/19/99 Reported: Project Manager: Deanna Harding Dublin, CA 94568

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

Analyte Analyzed Level Result Result Units Recov. Limits % Limit % Notes* Batch: 9100036 Blank Purgeable Hydrocarbons as Gasoline Benzene Toluene Ethylbenzene ND		Date	Spike	Sample	QC		Reporting Limit		RPD	RPD
Date Prepared: 10/8/99 ND Ug/l 50.0 F/T	Analyte	Analyzed		Result	Result	Units	Recov. Limits	%	Limit	% Notes*
Shark			_		•	- .		A 6020TD	ID/TI	
Description 10/8/99 ND	Batch: 9100036			<u>9</u>		Extra	ction Method: Er	A 3030B	1/1	
ND			<u>_K1</u>			л	50.0			
Benzene ND	Purgeable Hydrocarbons as Gasoline									
Column C	Benzene	н								
CS 100036-BS1	Toluene	It								
ND	Ethylbenzene	H								
Methyl tert-butyl ether		**								
CCS 910036-BS1 10/8/99 10.0 8.39 ug/l 70.0-130 83.9 10/8/99 10.0 8.34 " 70.0-130 83.4 10/8/99 10.0 8.34 " 70.0-130 83.4 10/8/99 10.0 8.34 " 70.0-130 84.2 " 70.0-130 84.2 10/8/99 10.0 8.64 " 70.0-130 84.2 10/8/99 10.0 8.64 " 70.0-130 86.4 10/8/99 10.0 10.		"								
Benzene		ri .	10.0		9.38	rt	70.0-130	93.8		
Benzene	LCS	9100036-B	<u>\$1</u>					02.0		
Toluene " 10.0 8.34 " 70.0-130 84.2 Fithylbenzene " 10.0 8.42 " 70.0-130 84.2 Fithylbenzene " 10.0 8.42 " 70.0-130 84.0 Fithylbenzene " 10.0 8.64 " 70.0-130 84.0 Fithylbenzene " 10.0 8.64 " 70.0-130 84.0 Fithylbenzene " 10.0 8.64 " 70.0-130 86.4 Fithylbenzene " 10.0 8.64 " 70.0-130 86.4 Fithylbenzene " 10.0 8.64 " 70.0-130 98.4 Fithylbenzene " 10.0 7.21 " 70.0-130 98.4 Fithylbenzene " 10.0 7.21 " 70.0-130 72.1 Fithylbenzene " 10.0 7.21 " 70.0-130 72.1 Fithylbenzene " 10.0 8.18 " 70.0-130 81.8 Fithylbenzene " 10.0 8.18 " 70.0-130 81.8 Fithylbenzene " 10.0 8.18 " 70.0-130 81.8 Fithylbenzene " 10.0 8.18 " 70.0-130 78.4 Fithylbenzene " 10.0 8.18 " 70.0-130 70.0	 :_	10/8/99	10.0							
Ethylbenzene		11	10.0							
Xylenes (total)		n	10.0							
LCS		**	30.0							
Purgeable Hydrocarbons as Gasoline 10/8/99 250 246 ug/l 70.0-130 98.4	Surrogate: a,a,a-Trifluorotoluene	н	10.0		8.64	"	70.0-130	86.4		
Purgeable Hydrocarbons as Gasoline 10/8/99 250 246 ug/l 70.0-130 72.1	LCS		<u>S2</u>					00.4		
Matrix Spike		10/8/99	250							
Purgeable Hydrocarbons as Gasoline 10/8/99 250 ND 250 ug/l 60.0-140 100	Surrogate: a,a,a-Trifluorotoluene	п	10.0		7.21	n	70.0-130	72.1		
No.							CO O 140	100		
Matrix Spike Dup 910036-MSD1 L909258-02 L909258-02 Purgeable Hydrocarbons as Gasoline 10/8/99 250 ND 246 ug/l 60.0-140 98.4 25.0 1.61 Surrogate: a,a,a-Trifluorotoluene " 10.0 7.84 " 70.0-130 78.4 Batch: 9100046 Blank 9100046-BLK1 Purgeable Hydrocarbons as Gasoline 10/11/99 ND ug/l 50.0 Ug/l 10/11/99 Ug/l 10	Purgeable Hydrocarbons as Gasoline			ND		ug/l_			··	
Purgeable Hydrocarbons as Gasoline 10/8/99 250 ND 246 ug/l 60.0-140 98.4 25.0 1.61		π	10.0		8.18	"	70. 0 -130	01.0		
Batch: 9100046 Date Prepared: 10/11/99 Extraction Method: EPA 5030B [P/T] Blank 9100046-BLK1 ND ug/l 50.0 Purgeable Hydrocarbons as Gasoline 10/11/99 ND ug/l 50.0 Benzene "ND" 0.500 0.500 Toluene "ND" 0.500 Ethylbenzene "ND" 0.500 Xylenes (total) "ND" 5.00 Methyl tert-butyl ether "ND" 5.00 Surrogate: a,a,a-Trifluorotoluene "10.0 9.14" 70.0-130 91.4 LCS 9100046-BS1 Benzene 10/11/99 10.0 7.97 ug/l 70.0-130 79.7 Toluene "10.0 7.93 "70.0-130 79.3 "70.0-130 79.3					246		60 O-140	084	25.0	1.61
Batch: 9100046 Date Prepared: 10/11/99 Extraction Method: EPA 5030B [P/T]				ND						
Blank 9100046-BLK1 Purgeable Hydrocarbons as Gasoline 10/11/99 ND ug/l 50.0	Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.84					
Purgeable Hydrocarbons as Gasoline Purgeable Hydrocarbons as Gasoline 10/11/99 ND ug/l 50.0 ND " 0.500 ND " 0.500 Ethylbenzene ND " 0.500 Xylenes (total) Methyl tert-butyl ether ND " 5.00 Surrogate: a,a,a-Trifluorotoluene 10/11/99 10.0 7.97 10.0 10.0 7.97 10.0-130 79.7 Toluene Toluene 10.0 7.93 70.0-130 79.3				<u>1/99</u>		Extr	action Method: El	PA 5030B	[P/T]	
Purgeable Hydrocarbons as Gasoline 10/11/99 ND 0.500			<u>slki</u>		ND	a/1	50.6	1		
ND	Purgeable Hydrocarbons as Gasoline									
ND	Benzene									
ND	Toluene									
ND	Ethylbenzene	**				**				
Methyl tert-butyl ether 10.0 9.14 70.0-130 91.4 Surrogate: a,a,a-Trifluorotoluene 9100046-BS1 9100046-BS1 91.0 7.97 ug/l 70.0-130 79.7 Benzene 10/1 1/99 10.0 7.93 70.0-130 79.3 Toluene 10.0 7.93 70.0-130 79.3						IF				
LCS 9100046-BS1 Benzene 10/11/99 10.0 7.97 ug/l 70.0-130 79.7 Toluene " 10.0 7.93 " 70.0-130 79.3										
Benzene 10/11/99 10.0 7.97 ug/l 70.0-130 79.7 Toluene 10.0 7.93 " 70.0-130 79.3	Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.14	,,	/0.0-130	, 31.4		
Toluene 10/11/99 10.0 7.93 70.0-130 79.3	LCS				7 07	ua/I	70.0-13	0 797	•	
Toluene 10.0 17.5										
	Toluene	71	10.0		1.93					

3



Gettler-Ryan/Geostrategies(1) Project: Tosco(4) Sampled: 9/28/99
6747 Sierra Court, Suite D Project Number: TOSCO (76) SS#1156, 180225.85 Received: 9/28/99
Dublin, CA 94568 Project Manager: Deanna Harding Reported: 10/19/99

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

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
LCS (continued)	9100046-BS	<u>51</u>								
Ethylbenzene	10/11/99	10.0		7.96	ug/l	70.0-130	79.6			
Xylenes (total)	#	30.0		23.9	#	70.0-130	79.7			
Surrogate: a,a,a-Trifluorotoluene	rr	10.0		8.65	н	70.0-130	86.5			
LCS	9100046-B	<u>52</u>								
Purgeable Hydrocarbons as Gasoline	10/11/99	250		250	ug/l	70.0-130	100			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.62	n	70.0-130	76.2			
Matrix Spike	9100046-M	<u> S1 L</u>	909248-03							
Purgeable Hydrocarbons as Gasoline	10/11/99	250	ND	244	ug/l	60.0-140	97.6			
Surrogate: a,a,a-Trifluorotoluene	II .	10.0		8.28	"	70.0-130	82.8			
Matrix Spike Dup	9100046-M	SD1 L	909248-03							
Purgeable Hydrocarbons as Gasoline	10/12/99	250	ND	235	ug/l	60.0-140		25.0	3.76	
Surrogate: a,a,a-Trifluorotoluene	,,	10.0		7.78	п	70.0-130	77.8			



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99

Project Manager: Deanna Harding Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 9090135	Date Prepa		<u>99</u>		Extrac	tion Method: EP.	A 5030B	[P/T]		
Blank	9090135-BI	<u>LK1</u>								
Benzene	9/29/99			ND	ug/l	2.00				
Bromobenzene	n			ND	19	2.00				
Bromochloromethane	u			ND	16	2.00				
Bromodichloromethane	"			ND	t r	2.00				
Bromoform	*			ND	**	2.00				
Bromomethane	14			ND	"	5.00				
n-Butylbenzene	Ħ			ND	17	2.00				
sec-Butylbenzene	71			ND	11	2.00				
tert-Butylbenzene	•			ND	14	2.00				
Carbon tetrachloride	"			ND	н	2.00				
Chlorobenzene	IT			ND	н	2.00				
Chloroethane	ır			ND	11	5.00				
Chloroform	n			ND	11	2.00				
Chloromethane	n			ND	11	5.00				
2-Chlorotoluene	n			ND	11	2.00				
4-Chlorotoluene	"			ND	If	2.00				
Dibromochloromethane	11			ND	10	2.00				
I,2-Dibromoethane	п			ND	M	2.00				
Dibromomethane	и			ND	"	2.00				
1,2-Dibromo-3-chloropropane	11			ND		5.00				
1,2-Dichlorobenzene	II .			ND	n	2.00				
1,3-Dichlorobenzene	II.			ND	н	2.00				
1,4-Dichlorobenzene	н			ND	#	2.00				
Dichlorodifluoromethane	**			ND	II	5.00				
1,1-Dichloroethane	н			ND	R	2.00				
1,2-Dichloroethane	tt.			ND	н	2.00				
I,1-Dichloroethene	н			ND	**	2.00				
cis-1,2-Dichloroethene	H			ND	17	2.00				
trans-1,2-Dichloroethene	n			ND	T	2.00				
1,2-Dichloropropane	0		4	ND	**	2.00				
1,3-Dichloropropane	11			ND	, и	2.00				
2,2-Dichloropropane	11			NĐ	"	2.00				
1,1-Dichloropropene	n			ND	11	2.00				
Ethylbenzene	п			ND	n .	2.00				
Hexachlorobutadiene	n			ND	II .	2.00				
Isopropylbenzene	It			ND	0	2.00				
p-Isopropyltoluene	H			ND		2.00				
Methylene chloride	**			ND	**	5.00				
Naphthalene				ND	Ħ	5.00				
n-Propylbenzene	n			ND	11	2.00				

Sequoia Analytical - San Carlos



Project: Tosco(4)

Project Manager:

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99

Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

Deanna Harding

Analyte	Date Analyzed	Spike Level	Sample	QC		Reporting Limit		RPD	RPD	
Line Control of the C		100 401	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
		-	•	 .						
Blank (continued)	9090135-BI	LK1								
Styrene	9/29/99		•	ND	ug/l	2.00				
1,1,1,2-Tetrachloroethane	n			ND	н	2.00				
1,1,2,2-Tetrachloroethane	Ħ			ND	Ħ	2.00				
Tetrachloroethene				ND	37	2.00				
Toluene				ND	11	2.00				
1,2,3-Trichlorobenzene	**			ND	IT	2.00				
1,2,4-Trichlorobenzene	н			ND	17	2.00				
1,1,1-Trichloroethane	н			ND	117	2.00				
1,1,2-Trichloroethane	n			ND	H	2.00				
Trichloroethene	н			ND	10	2.00				
Trichlorofluoromethane	**			ND	H	5.00				
1,2,3-Trichloropropane	"			ND	11	2.00				
1,2,4-Trimethylbenzene	11			ND	ti.	2.00				
1,3,5-Trimethylbenzene	R			ND	н	2.00				
Vinyl chloride	R			ND	17	2.00				
Total Xylenes	II.			ND	17	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		49.5	"	76.0-114	99.0			
Surrogate: Toluene-d8	"	50.0		49.2	n	88.0-110	98.4			
Surrogate: 4-BFB	"	50.0		48.8	,,,	86.0-115	97.6			
-										
<u>Blank</u>	9090135-B	LK2								
Benzene	9/30/99			ND	ug/l	2.00				
Bromobenzene	11			ND	II.	2.00				
Bromochloromethane	IT			ND	"	2.00				
Bromodichloromethane	Ħ			ND	n	2.00				
Bromoform	n			ND	11	2.00				
Bromomethane	"			ND	**	5.00				
n-Butylbenzene	rr .			ND	**	2.00				
sec-Butylbenzene	**			ND	**	2.00				
tert-Butylbenzene	11			ND	**	2.00				
Carbon tetrachloride	**			ND	н	2.00				
Chlorobenzene	я			ND ₁	19	2.00				
Chloroethane	11			ND	11	5.00				
Chioroform				ND	11	2.00				
Chloromethane	n			ND	11	5.00				
2-Chlorotoluene	н			ND		2.00				
4-Chlorotoluene	**			ND	H	2.00				
Dibromochloromethane	10			ND	**	2.00				
1,2-Dibromoethane	н			ND	**	2.00				
Dibromomethane	II .			ND	71	2.00				
1,2-Dibromo-3-chloropropane	11			ND	"	5.00				

Sequoia Analytical - San Carlos



Project: Tosc Project Number: TOS

Project Manager:

Tosco(4)

TOSCO (76) SS#1156, 180225.85

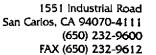
Sampled: 9/28/99
Received: 9/28/99

Received: 9/28/99 Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

Deanna Harding

Analyte Blank (continued) 1,2-Dichlorobenzene 1,3-Dichlorobenzene	Analyzed 9090135-BI 9/30/99 "	Level	Result	Result	Units	Recov. Limits	<u>%</u>	Limit	<u>%</u>	Notes*
Blank (continued) 1,2-Dichlorobenzene	9/30/99	_K2								
1,2-Dichlorobenzene	9/30/99	<u>_K2</u>								
•				> 700	. A	2.00				
1.2 Dichlorohenzene	π			ND	ug/l "	2.00				
				ND	n					
1,4-Dichlorobenzene	**			ND	W	2.00				
Dichlorodifluoromethane	I I			ND	n	5.00				
1,1-Dichloroethane	10			ND	н	2.00				
1,2-Dichloroethane	10			ND	"	2.00				
1,1-Dichloroethene	н			ND		2.00				
cis-1,2-Dichloroethene	"			ND		2.00				
trans-1,2-Dichloroethene	11			ND	rt	2.00				
1,2-Dichloropropane	PI .			ND		2.00				
1,3-Dichloropropane	**			ND	17	2.00				
2,2-Dichloropropane	11			ND	71	2.00				
1,1-Dichloropropene	H			ND	**	2.00				
Ethylbenzene	11			ND	II	2.00				
Hexachlorobutadiene	11			ND	11	2.00				
Isopropylbenzene	u .			ND	n	2.00				
p-Isopropyltoluene	IT			ND	17	2.00				
Methylene chloride	n			ND	11	5.00				
Naphthalene	11			ND	"	5.00				
n-Propylbenzene	**			ND	It	2.00				
Styrene	H			ND	11	2.00				
1,1,1,2-Tetrachloroethane	17			ND	17	2.00				
1,1,2,2-Tetrachloroethane	**			ND	**	2.00				
Tetrachloroethene	71			ND	**	2.00				
Toluene	11			ND	44	2.00				
1,2,3-Trichlorobenzene	н			ND	11	2.00				
1,2,4-Trichlorobenzene	19			ND	"	2.00				
1,1,1-Trichloroethane	11			ND		2.00				
1,1,2-Trichloroethane	н			ND	п	2.00				
Trichloroethene	II			ND	н	2.00				
Trichlorofluoromethane	IF			ND	11	5.00				
1,2,3-Trichloropropane	IT			ND	Iŧ	2.00				
1,2,4-Trimethylbenzene	71			ND	**	2.00				
1,3,5-Trimethylbenzene	н			ND	10	2.00				
Vinyl chloride	11			(ND		2.00				
Total Xylenes	U			ND	H	2.00				
Surrogate: 1,2-Dichloroethane-d4		50.0		47.4	"	76.0-114				
Surrogate: Toluene-d8	#	50.0		47.2	"	88.0-110				
Surrogate: 4-BFB	17	50.0		48.6	"	86.0-115	97.2			





Gettler-Ryan/Geostrategies(1)

6747 Sierra Court, Suite D

Dublin, CA 94568

Project: Tosco(4) Sampled: 9/28/99
Project Number: TOSCO (76) SS#1156, 180225.85 Received: 9/28/99
Project Manager: Deanna Harding Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
					-					
Blank	9090135-Bl	<u>LK3</u>								
Benzene	10/4/99			ND	ug/l	2.00				
Bromobenzene	tt .			ND	"	2.00				
Bromochloromethane	# .			ND	H	2.00				
Bromodichloromethane	H			ND	77	2.00				
Bromoform	Ħ			ND	8	2.00				
Bromomethane	10			ND	н	5.00				
n-Butylbenzene	19			ND	*1	2.00				
sec-Butylbenzene	Ħ			ND	17	2.00				
tert-Butylbenzene	Ħ			ND	If	2.00				
Carbon tetrachloride	11			ND	17	2.00				
Chlorobenzene	11			ND	n	2.00				
Chloroethane	jŧ.			ND	11	5.00				
Chloroform	II.			ND	11	2.00				
Chloromethane	H			ND	**	5.00				
2-Chlorotoluene				ND	**	2.00				
4-Chlorotoluene	n			ND	Ħ	2.00				
Dibromochloromethane	"			ND	11	2.00				
1,2-Dibromoethane	11			ND	If	2.00				
Dibromomethane	10			ND	H	2.00				
1,2-Dibromo-3-chloropropane	н			ND	#	5.00				
1,2-Dichlorobenzene	"			ND	**	2.00				
1,3-Dichlorobenzene	"			ND	**	2.00				
1,4-Dichlorobenzene	rt			ND	*1	2.00				
Dichlorodifluoromethane	**			ND	11	5.00				
1,1-Dichloroethane	11			ND	IP	2.00				
1,2-Dichloroethane	If .			ND	t i	2.00				
1,1-Dichloroethene	n			ND	17	2.00				
cis-I,2-Dichloroethene	**			ND	11	2.00				
trans-1,2-Dichloroethene	**			ND	**	2.00				
1,2-Dichloropropane	11			ND	н	2.00				
1,3-Dichloropropane	11			ND	*1	2.00				
2,2-Dichloropropane	ņ			ND	11	2.00				
1,1-Dichloropropene	II			ND	17	2.00				
Ethylbenzene	n			ND	11	2.00				
Hexachlorobutadiene	и			ND	*	2.00				
Isopropyibenzene	11			ND	11	2.00				
p-Isopropyltoluene	н			ND	н	2.00				
Methylene chloride	11			ND	и	5.00				
Naphthalene	11			ND	11	5.00				
n-Propylbenzene	н			ND	D	2.00				
Styrene	n.			ND	**	2.00				

Sequoia Analytical - San Carlos



Project: Tosco(4)

Project Manager: Deanna Harding

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99 Received: 9/28/99

Reported: 9/28/99

Reported: 10/19/99

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequois Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	\Box
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
(
Blank (continued)	9090135-BI	LK3								
1,1,1,2-Tetrachloroethane	10/4/99			ND	ug/l	2.00				
1,1,2,2-Tetrachloroethane	н			ND	H	2.00				
Tetrachloroethene	н			ND	19	2.00				
Toluene	н			ND	Ħ	2.00				
1,2,3-Trichlorobenzene	#			ND	Ħ	2.00				
1,2,4-Trichlorobenzene	11			ND	41	2.00				
1,1,1-Trichloroethane	Ħ			ND	**	2.00				
1,1,2-Trichloroethane	tr			ND	14	2.00				
Trichloroethene				ND	н	2.00				
Trichlorofluoromethane	11			ND	II	5.00				
1,2,3-Trichloropropane	н			ND	17	2.00				
1,2,4-Trimethylbenzene	#			ND	ıı.	2.00				
1,3,5-Trimethylbenzene	н			ND	"	2.00				
Vinyl chloride	*1			ND	n	2.00				
Total Xylenes	11			ND	rs	2.00				
Surrogate: 1,2-Dichloroethane-d4	<u>"</u>	50.0		53.0	"	76.0-114	106			
Surrogate: Toluene-d8	"	50.0		50.6	"	88.0-110	101			
Surrogate: 4-BFB	#	50.0		49.0	H	86.0-115	98.0			
Surveyare. 1 S. S.										
LCS	9090135-B	<u>S1</u>								
Benzene	9/29/99	50.0		48.5	ug/l	70.0-130	97.0			
Chlorobenzene	н	50.0		47.5	IT.	70.0-130	95.0			
1,1-Dichloroethene	**	50.0		46.6	IF.	70.0-130	93.2			
Toluene	#	50.0		46.7	f†	70.0-130	93.4			
Trichloroethene	D	50.0		47.3	11	70.0-130	94.6			
Surrogate: 1,2-Dichloroethane-d4	Ħ	50.0		50.1	"	76.0-114	100			
Surrogate: Toluene-d8	"	50.0		49.2	*	88.0-110	98.4			
Surrogate: 4-BFB	"	50.0		46.8	"	86.0-115	93.6			
<u>.</u>										
<u>LCS</u>	9090135-B	<u>\$2</u>								
Benzene	9/30/99	50.0		54.7	ug/l	70.0-130				
Chlorobenzene	II .	50.0		60.8	11	70.0-130				
1,1-Dichloroethene	n	50 .0		50.2	18	70.0-130				
Toluene	**	50.0		55.7	н	70.0-130	111			
Trichloroethene	67	50.0		55.6	••	70.0-130	111			
Surrogate: 1,2-Dichloroethane-d4	и	50.0		48.4 "		76.0-114	96.8	,		
Surrogate: Toluene-d8	H	50.0		48.4	u	88.0-110	96.8			
Surrogate: 4-BFB	If	50.0		48.6	"	86.0-115	97.2			
ics	9090135-B	51								
<u>LCS</u> Benzene	10/4/99	<u>50.</u> 0		45.5	ug/l	70.0-130	91.0			

Sequoia Analytical - San Carlos



Project: Tosco(4)

TOSCO (76) SS#1156, 180225.85 Project Number:

9/28/99 Sampled:

Project Manager: Deanna Harding

Received: 9/28/99 10/19/99 Reported:

Volatile Organic Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

	Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
				•						
LCS (continued)	9090135-BS				_		0.0			
Chlorobenzene	10/4/99	50.0		48.1	ug/l	70.0-130	96.2			
1, I-Dichloroethene	"	50.0		44.2	н	70.0-130	88.4			
Toluene	н	50.0		42.8	Ħ	70.0-130	85.6			
Trichloroethene	#	50.0		46.5	11	70.0-130	93.0			
Surrogate: 1,2-Dichloroethane-d4	H	50.0		48.3	n	76.0-114	96.6			
Surrogate: Toluene-d8	Ħ	50.0		46.6	Ħ	88.0-110	93.2			
Surrogate: 4-BFB	nt .	50.0		47.0	tt .	86.0-115	94.0			
Matrix Spike	9090135-M	S1 L	909254-02							
Benzene	9/29/99	50.0	ND	48.1	ug/l	60.0-140	96.2			
Chlorobenzene	"	50.0	ND	46.8	"	60.0-140	93.6			
1,1-Dichloroethene		50.0	ND	45.5	tf	60.0-140	91.0			
Toluene	77	50.0 ND		46.5	**	60.0-140	93.0			
Trichloroethene	Ħ	50.0	ND	46.6	11	60.0-140	93.2			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		48.2	"	76.0-114	96.4			
Surrogate: Toluene-d8	п	50.0		48.7	н	88.0-110	97.4			
Surrogate: 4-BFB	17	50.0		48.2	n	86.0-115	96.4			
Matrix Spike Dup	9090135-M	SD1 L	909254-02							
Benzene	9/29/99	50.0	ND	47.6	ug/l	60.0-140	95.2	25.0	1.04	
Chlorobenzene	n	50.0	ND	46.6	н	60.0-140	93.2	25.0	0.428	
1.1-Dichloroethene	n	50.0	ND	46.9	**	60.0-140	93.8	25.0	3.03	
Toluene	н	50.0	ND	46.0	**	60.0-140	92.0	25.0	1.08	
Trichloroethene	н	50.0	ND	46.5	H	60.0-140		25.0	0.215	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		48.2	μ	76.0-114	96.4			
Surrogate: Toluene-d8	"	50.0		49.0	,,	88.0-110	98.0			
Surrogate: 4-BFB	"	50.0		47.3	"	86.0-115	94.6			
Julioguic. T-DI D		50.0								

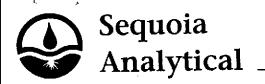


Gettler-Ryan/Geostrategies(1)
Project: Tosco(4)
Sampled: 9/28/99
6747 Sierra Court, Suite D
Project Number: TOSCO (76) SS#1156, 180225.85
Received: 9/28/99
Dublin, CA 94568
Project Manager: Deanna Harding
Reported: 10/19/99

Volatile Organic Oxygenated Compounds by EPA Method 8260A/Quality Control Sequoia Analytical - San Carlos

Batch: 9090136 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether "" Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether "" Surrogate: 1,2-Dichloroethane-d4 "" Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether "" Surrogate: 1,2-Dichloroethane-d4	090136-BL /29/99	Spike Level red: 9/29/9 JK1	Sample Result	QC Result ND ND ND ND	Units Extrac	Recov. Limits tion Method: EPA	% A 5030B	Limit P/T]	<u>%</u>	Notes*
Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Ethyl tert-butyl ether "" Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Ethyl tert-butyl ether Ethyl tert-butyl ether Tert-amyl methyl ether "" Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol ""	090136-BL /29/99	<u>.K1</u>	<u>9</u>	ND ND ND	ug/l	1000	4 5030B	[P/T]		
Blank 9 Ethanol 9 Tert-butyl alcohol " Methyl tert-butyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 9 Tert-butyl alcohol " Methyl tert-butyl ether " Ethyl tert-butyl ether " Ethyl tert-butyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 9 Tert-butyl alcohol "	090136-BL /29/99	<u>.K1</u>	-	ND ND ND	ug/l	1000				
Ethanol 9. Tert-butyl alcohol " Methyl tert-butyl ether " Di-isopropyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9. Ethanol 9. Tert-butyl alcohol " Methyl tert-butyl ether " Di-isopropyl ether " Ethyl tert-butyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9. Ethanol 9. Tert-butyl alcohol " Tert-butyl alcohol "	/29/99			ND ND ND	•					
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Blank Ethanol Tert-butyl alcohol		50.0		ND ND ND	•					
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Blank Ethanol Tert-butyl alcohol		50.0		ND ND	H	200				
Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether "" Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether "" Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Blank 9 Ethanol Tert-butyl alcohol ""		50.0		ND		2.00				
Ethyl tert-butyl ether Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Brank 9 Ethanol Tert-butyl alcohol		50.0			11	2.00				
Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Tert-butyl alcohol		50.0		ND	и	2.00				
Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol "		50.0		ND	et .	2.00				
Ethanol 99. Tert-butyl alcohol " Methyl tert-butyl ether " Di-isopropyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 99. Tert-butyl alcohol "	090136-BI			47.8	n	76.0-114	95.6			
Ethanol 99. Tert-butyl alcohol " Methyl tert-butyl ether " Di-isopropyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 99. Ethanol 99. Tert-butyl alcohol "		.K2								
Tert-butyl alcohol " Methyl tert-butyl ether " Di-isopropyl ether " Ethyl tert-butyl ether " Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 9 Tert-butyl alcohol "	/29/99			ND	ug/l	1000				
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol	/ 1 / /			ND	11	200				
Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether " Surrogate: I,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol "				ND	10	2.00				
Ethyl tert-butyl ether Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 Blank Ethanol Tert-butyl alcohol "				ND	.,	2.00				
Tert-amyl methyl ether " Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 9 Tert-butyl alcohol "				ND	11	2.00				
Surrogate: 1,2-Dichloroethane-d4 " Blank 9 Ethanol 9 Tert-butyl alcohol "				ND	н	2.00				
Ethanol 9. Tert-butyl alcohol "		50.0		53.8	"	76.0-114	108			,
Ethanol 9. Tert-butyl alcohol "	090136-BL	.K3								
Tert-butyl alcohol "	/30/99			ND	ug/l	1000				
	,,,,,			ND	#	200				
				ND	н	2.00				
Di-isopropyl ether				ND	н	2.00				
Ethyl tert-butyl ether "				ND	11	2.00				
Tert-amyl methyl ether				ND	It	2.00				
Surrogate: 1,2-Dichloroethane-d4 "	•	50.0	_	51.4	n	76.0-114	103			
LCS 9	090136-BS	51								
	/29/99	50.0		40.3	ug/l	70.0-130	80.6			
Surrogate: 1,2-Dichloroethane-d4 "		50.0		49.9	"	76.0-114	99.8			
LCS 9	090136-BS	<u>52</u>								
	/29/99	50.0		44.1	ug/l	70.0-130	88.2			
Surrogate: 1,2-Dichloroethane-d4 "	,	50.0		53,7	н	76.0-114	107			
LCS 9	090136-BS	<u>53</u>								
)/30/99	50.0		48.3	ug/l	70.0-130	96.6			
	*	50.0		55.5	IT	76.0-114	111			
Matrix Spike 9	090136-M		909253-02				_			
Methyl tert-butyl ether	7/29/99	50.0	ND	38.9	ug/l	60.0-140	77.8			

Sequoia Analytical - San Carlos

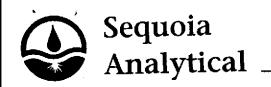


Gettler-Ryan/Geostrategies(1)
Project: Tosco(4)
Sampled: 9/28/99
6747 Sierra Court, Suite D
Project Number: TOSCO (76) SS#1156, 180225.85
Received: 9/28/99
Dublin, CA 94568
Project Manager: Deanna Harding
Reported: 10/19/99

Volatile Organic Oxygenated Compounds by EPA Method 8260A/Quality Control Sequola Analytical - San Carlos

Analyzed Level Result Units Recov. Limits % Limit % Notes*		Date	Sample	QC		Reporting Limit		RPD	RPD	
Matrix Spike Dup 2090136-MSD1 1.009253-02 1.000 1.00	Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	<u>%</u>	Limit	% Notes*
Matrix Spike Dup 9090136-MSD1 L909253-02 Methyl tert-butyl ether 9729/99 50.0 ND 41.2 ug/l 60.0-140 82.4 25.0 5.74		0000126 34	C1 1	000262 02						
Matrix Spike Dup 2990136-MSD1 L909253-02 Mothyl tert-butyl ether 9729/99 50.0 ND 41.2 ug/l 60.0-140 82.4 25.0 5.74				909233-02	52.2	/	76.0-114	104		
Methyl tert-butyl ether 9/29/99 50.0 ND 41.2 ug/l 60.0-140 82.4 25.0 5.74	Surrogate: 1,2-Dichloroethane-d4	9/29/99	30.0		32.2	ugn	70.0-114	104		
Starty Service Star	Matrix Spike Dup			909253-02						
Batch: 9090143 Date Prepared: 9/30/99 Da	Methyl tert-butyl ether			ND					25.0	5.74
Blank 909143-BLK1 Ethanol 9/30/99 ND ug/l 1000 Tert-butyl alcohol " ND " 2.00 ND " 2.00	Surrogate: 1,2-Dichloroethane-d4	π	50.0		51.8	"	76.0-114	104		
Blank 909143-BLK1 Ethanol 9/30/99 ND ug/l 1000 Fert-butyl alcohol "	Batch: 9090143	Date Prepa	red: 9/30/9	99		Extra	ction Method: EP	A 5030B	[P/T]	
Ethanol 9/30/99 ND ug/l 1000	-									
Tert-butyl alcohol "					ND	ug/I				
Methyl tert-butyl ether		π			ND	H	200			
Di-isopropyl ether	•	"			ND	IF	2.00			
Ethyl tert-butyl ether " 50.0	•	н			ND	Ħ	2.00			
Tert-amyl methyl ether		11			ND	n	2.00			
Surrogate: 1,2-Dichloroethane-d4		II			ND	н				
Ethanol 10/4/99 ND ug/l 1000 Tert-butyl alcohol " 200 Methyl tert-butyl ether " ND " 2.00 Di-isopropyl ether " ND " 2.00 Ethyl tert-butyl ether " ND " 2.00 Ethyl tert-butyl ether " ND " 2.00 Tert-amyl methyl ether " ND " 2.00 Surrogate: 1,2-Dichloroethane-d4 " 50.0 46.9 " 76.0-114 93.8 LCS 9090143-BS1		r	50.0		51.4	"	76.0-114	103		
Ethanol 10/4/99 ND ug/l 1000 Tert-butyl alcohol " 200 Methyl tert-butyl ether " ND " 2.00 Di-isopropyl ether " ND " 2.00 Ethyl tert-butyl ether " ND " 2.00 Ethyl tert-butyl ether " ND " 2.00 Tert-amyl methyl ether " ND " 2.00 Surrogate: 1,2-Dichloroethane-d4 " 50.0 46.9 " 76.0-114 93.8 LCS 9090143-BS1	Blank	9090143-B	LK2							
Tert-butyl alcohol "					ND	ug/l	1000			
ND		Ħ			ND		200			
Di-isopropyl ether		**			ND	11	2.00			
Ethyl tert-butyl ether " ND " 2.00 Tert-amyl methyl ether " 50.0 46.9 " 76.0-114 93.8 LCS 9090143-BS1		11			ND	IF.	2.00			
ND		117			ND	D	2.00			
Surrogate: 1,2-Dichloroethane-d4 " 76.0-114 93.8 LCS 9090143-BS1 Methyl tert-butyl ether 9/30/99 50.0 48.3 ug/l 70.0-130 96.6 Surrogate: 1,2-Dichloroethane-d4 " 50.0 55.5 " 76.0-114 111 LCS 9090143-BS2 Wethyl tert-butyl ether 10/4/99 50.0 41.2 ug/l 70.0-130 82.4 Surrogate: 1,2-Dichloroethane-d4 " 50.0 48.1 " 76.0-114 96.2 Matrix Spike 9090143-MSD1 L909273-02 44.7 ug/l 60.0-140 83.0 Surrogate: 1,2-Dichloroethane-d4 " 50.0 53.6 " 76.0-114 107 Matrix Spike Dup 9090143-MSD1 L909273-02 44.48 44.48 Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48	•	u			ND	Ħ	2.00			
Methyl tert-butyl ether 9/30/99 50.0 48.3 ug/l 70.0-130 96.6 Surrogate: 1,2-Dichloroethane-d4 " 50.0 55.5 " 76.0-114 111 LCS 9090143-BS2		"	50.0		46.9	"	76.0-114	93.8		
Methyl tert-butyl ether 9/30/99 50.0 48.3 ug/l 70.0-130 96.6 Surrogate: 1,2-Dichloroethane-d4 " 50.0 55.5 " 76.0-114 111 LCS 9090143-BS2	LCS	9090143-B	SI							
Surrogate: 1,2-Dichloroethane-d4 " 50.0 55.5 " 76.0-114 111 LCS 9090143-BS2					48.3	ug/l	70.0-130			
Methyl tert-butyl ether 10/4/99 50.0 41.2 ug/l 70.0-130 82.4 Surrogate: 1,2-Dichloroethane-d4 " 50.0 48.1 " 76.0-114 96.2 Matrix Spike 9090143-MS1 L909273-02 L909273-02 <t< td=""><td></td><td></td><td>50.0</td><td></td><td>55.5</td><td>,,,</td><td>76.0-114</td><td>111</td><td></td><td></td></t<>			50.0		55.5	,,,	76.0-114	111		
Methyl tert-butyl ether 10/4/99 50.0 41.2 ug/l 70.0-130 82.4 Surrogate: 1,2-Dichloroethane-d4 " 50.0 48.1 " 76.0-114 96.2 Matrix Spike 9090143-MS1 L909273-02 L909273-02 <t< td=""><td>LCS</td><td>9090143-B</td><td>S2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	LCS	9090143-B	S2							
Matrix Spike 9090143-MS1 L909273-02 Methyl tert-butyl ether 9/30/99 50.0 23.2 64.7 ug/l 60.0-140 83.0 Surrogate: 1,2-Dichloroethane-d4 " 50.0 53.6 " 76.0-114 107 Matrix Spike Dup Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48					41.2	ug/l	70.0-130	82.4		
Methyl tert-butyl ether 9/30/99 50.0 23.2 64.7 ug/l 60.0-140 83.0 Surrogate: 1,2-Dichloroethane-d4 " 50.0 53.6 " 76.0-114 107 Matrix Spike Dup Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48						"	76.0-114	96.2		
Methyl tert-butyl ether 9/30/99 50.0 23.2 64.7 ug/l 60.0-140 83.0 Surrogate: 1,2-Dichloroethane-d4 " 50.0 53.6 " 76.0-114 107 Matrix Spike Dup Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48	Matrix Snike	9090143-N	1S1 L	.909273-02						
Surrogate: 1,2-Dichloroethane-d4 50.0 53.6 " 76.0-114 107 Matrix Spike Dup 9090143-MSD1 L909273-02 Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48					64.7	ug/l	60.0-140	83.0		
Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48						,, ~				
Methyl tert-butyl ether 9/30/99 50.0 23.2 66.6 ug/l 60.0-140 86.8 25.0 4.48	Matrix Snike Dun	9090143-M	1SD1 1	.909273-02						
					66.6	ug/l	60.0-140	86.8	25.0	4.48
	Surrogate: 1,2-Dichloroethane-d4					"	76.0-114	108		

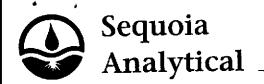
Sequoia Analytical - San Carlos



Gettler-Ryan/Geostrategies(1)
Project: Tosco(4)
Sampled: 9/28/99
6747 Sierra Court, Suite D
Project Number: TOSCO (76) SS#1156, 180225.85
Received: 9/28/99
Dublin, CA 94568
Project Manager: Deanna Harding
Reported: 10/19/99

	CO CANKE DUCT I	JFT/Quality Control
Diesel Hadlocaldons (Cy-C24) by DDS DC	14 I. Grant's Court of ""
>eanai	Analytical - Morga	

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov.	RPD Limit	RPD % Notes*
Batch: 9100191	Date Prepa		9		Extrac	tion Method: EP	A 3510B		
Blank Diesel Range Hydrocarbons	<u>9100191-B1</u> 10/12/99	<u> </u>		ND	mg/l	0.0500			
Surrogate: n-Pentacosane	n	0.100		0.0926	H	50.0-150	92.6		
LCS Diesel Range Hydrocarbons	9100191-B3 10/12/99	1.00 0.100		0.870	mg/l	60.0-140 50.0-150	87.0 99.9	· .	
Surrogate: n-Pentacosane LCS Dup	9100191-B			0.823	mg/l	60.0-140	82.3	50.0	5.55
Diesel Range Hydrocarbons Surrogate: n-Pentacosane	10/12/99	0.100		0.103	"	50.0-150	103		



Project: Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

Sampled: 9/28/99

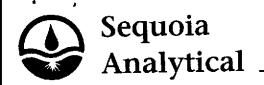
Received: 9/28/99 Reported: 10/19/99

Project Manager: Deanna Harding

Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Morgan Hill

	Date	Spike	Sample	QC		RPD			
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits %	Limit	<u>%</u>	Notes*
Batch: 9100145	Date Prepa	red: 10/5/9	99		Extrac	tion Method: EPA 35101	3		
Blank	9100145-B		<u> </u>		2211		-		
Acenaphthene	10/9/99	<u>JAKA</u>		ND	ug/l	5.00			
Аселарhthylene	4			ND	н —	5.00			
Anthracene	Ħ			ND	#	5.00			
Benzoic acid	n			ND	17	10.0			
Benzo (a) anthracene	11			ND	17	5.00			
Benzo (b) fluoranthene	11			ND	n	5.00			
Benzo (k) fluoranthene	tt.			ND	"	5.00			
• /	H			ND	17	5.00			
Benzo (ghi) perylene	n			ND	19	5.00			
Benzo[a]pyrene	**			ND	#	5.00			
Benzyl alcohol	11			ND	н	5.00			
Bis(2-chloroethoxy)methane	н			ND ND	"	5.00			
Bis(2-chloroethyl)ether				ND	n	5.00			
Bis(2-chloroisopropyl)ether	#1			ND	н	10.0			
Bis(2-ethylhexyl)phthalate	1f			ND		5.00			
4-Bromophenyl phenyl ether	 It			ND	H	5.00			
Butyl benzyl phthalate			•	ND ND		10.0			
4-Chloroaniline				ND	**	5.00			
2-Chloronaphthalene					Ħ	5.00			
4-Chloro-3-methylphenol	 H			ND	91	5.00			
2-Chlorophenol	.,			ND	11	5.00			
4-Chlorophenyl phenyl ether	**			ND	ıt	5.00			
Chrysene	 H			ND	It	5.00			
Dibenz (a,h) anthracene				ND	H	5.00			
Dibenzofuran	"			ND		10.0			
Di-n-butyl phthalate	"			ND	19				
1,2-Dichlorobenzene	,			ND	н	5.00 5.00			
1,3-Dichlorobenzene	"			ND	4				
1,4-Dichlorobenzene	ır			ND	4	5.00			
3,3'-Dichlorobenzidine				ND	n n	10.0			
2,4-Dichlorophenol	ri 			ND	n.	5.00			
Diethyl phthalate	*			ND	"	5.00			
2,4-Dimethylphenol	14			ND		5.00			
Dimethyl phthalate	n			ND	## 	5.00			
4,6-Dinitro-2-methylphenol	"			ND	π 	10.0			
2,4-Dinitrophenol	#1			ND		10.0			
2,4-Dinitrotoluene	II.			ND	**	5.00			
2,6-Dinitrotoluene	II			ND	11	5.00			
Di-n-octyl phthalate	"			ND	H	5.00			
Fluoranthene	11			ND	**	5.00			
Fluorene	Ħ			ND	11	5.00			

Sequoia Analytical - San Carlos



Project: Tosco(4)

l'osco(4)

Sampled: 9/28/99
Received: 9/28/99

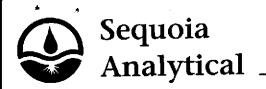
Project Number: TOSCO (76) SS#1156, 180225.85
Project Manager: Deanna Harding

Received: 9/28/99 Reported: 10/19/99

Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Morgan Hill

	Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Blank (continued)	9100145-BI	<u>.K1</u>		M		5.00				
Hexachlorobenzene	10/9/99			ND	ug/l "					
Hexachlorobutadiene	10			ND		5.00				
Hexachlorocyclopentadiene	н			ND	17	10.0				
Hexachloroethane	**			ND		5.00				
Indeno (1,2,3-cd) pyrene	Ħ			ND	н	5.00				
Isophorone	"			ND	H	5.00				
2-Methylnaphthalene	11.			ND	it .	5.00				
2-Methylphenol	If			ND	**	5.00				
4-Methylphenol	Ħ			ND	n	5.00				
Naphthalene	H			ND	n	5.00				
2-Nitroaniline	**			ND	**	10.0				
3-Nitroaniline	10			ND	"	10.0				
4-Nitroaniline	n			ND	11	10.0				
Nitrobenzene	"			ND	10	5.00				
2-Nitrophenol	И			ND	11	5.00				
4-Nitrophenol	IT			ND	н	10.0				
N-Nitrosodiphenylamine	U			ND	10	5.00				
N-Nitrosodi-n-propylamine				ND	19	5.00				
	10			ND	.,	10.0				
Pentachlorophenol	n			ND	**	5.00				
Phenanthrene	**			ND	19	5.00				
Phenol	11			ND	II.	5.00				
Pyrene					ri	5.00				
1,2,4-Trichlorobenzene				ND ND	,,	10.0				
2,4,5-Trichlorophenol	 			ND	**	5.00				
2,4,6-Trichlorophenol				ND	"	21.0-110	64.0			-
Surrogate: 2-Fluorophenol	"	200		128	n					
Surrogate: Phenol-d6	**	200		104		10.0-110	52.0			
Surrogate: Nitrobenzene-d5	"	200		180		35.0-114	90.0			
Surrogate: 2-Fluorobiphenyl	"	200		172	"	43.0-116	86.0			
Surrogate: 2,4,6-Tribromophenol	ri	200		135	n	10.0-123	67.5			
Surrogate: p-Terphenyl-d14	r)	200		117	*	33.0-141	58.5			
LCS	9100145-B									
Acenaphthene	10/9/99	200		159	ug/l	46.0-118				
4-Chloro-3-methylphenol	11	200		182	**	23.0-97.0				
2-Chlorophenol	I I	200		161	н	27.0-123				
1,4-Dichlorobenzene	U	200		150	10	36.0-97.0				
2,4-Dinitrotoluene	II.	200		145	17	24.0-96.0				
4-Nitrophenol " 200				77.6	H	10.0-80.0				
N-Nitrosodi-n-propylamine	ri	200		200	"	41.0-116	001			
Pentachlorophenoi	Ħ	200		128	n	9.00-103	64.0			

Sequoia Analytical - San Carlos



Project:

Tosco(4)

Project Number: TOSCO (76) SS#1156, 180225.85

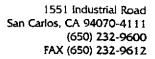
Sampled:

9/28/99 Received: 9/28/99

Project Manager: Deanna Harding Reported: 10/19/99

Semivolatile Organic Compounds by EPA Method 8270B/Quality Control Sequoia Analytical - Morgan Hill

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
-										
LCS (continued)	<u>9100145-BS</u>	_	-		_		40.0			
Phenol	10/9/99	200		116	ug/l	12.0-110	58.0			
Pyrene	*	200		175	10	26.0-127	87.5			
1,2,4-Trichlorobenzene	D	200		177		39.0-98.0	88.5			
Surrogate: 2-Fluorophenol	#	200		138	H	21.0-110	69.0			
Surrogate: Phenol-d6	H	200		112	"	10.0-110	<i>56.0</i>			
Surrogate: Nitrobenzene-d5	H	200		198	"	35.0-114	99.0			
Surrogate: 2-Fluorobiphenyl	#	200		171	"	43.0-116	85.5			
Surrogate: 2,4,6-Tribromophenol	II .	200		163	Ħ	10.0-123	81.5			
Surrogate: p-Terphenyl-d14	n	200		103	"	33.0-141	51.5			
LCS Dup	9100145-B	<u>SD1</u>								
Acenaphthene	10/9/99	200		150	ug/l	46.0-118	75.0	30.0	5.83	
4-Chloro-3-methylphenol	н	200		178	н	23.0-97.0	89.0	30.0	2.22	
2-Chiorophenol	10	200		157	н	27.0-123	78.5	30.0	2.52	
1,4-Dichlorobenzene	"	200		146	**	36.0-97.0	73.0	30.0	2.70	
2,4-Dinitrotoluene	**	200		139	17	24.0-96.0	69.5	30.0	4.23	
4-Nitrophenol	Ħ	200		80.7	ti	10.0-80.0	40.3	30.0	3.79	
N-Nitrosodi-n-propylamine	н	200		194		41.0-116	97.0	30.0	3.05	
Pentachlorophenol	#1	200		123	31	9.00-103	61.5	30.0	3.98	
PhenoI	11	200		115	11	12.0-110	57.5	30.0	0.866	
Рутеле	D	200		163	IF	26.0-127	81.5	30.0	7.10	
1,2,4-Trichlorobenzene	11	200		166	10	39.0-98.0	83.0	30.0	6.41	
Surrogate: 2-Fluorophenol	"	200		125	"	21.0-110	62.5			
Surrogate: Phenol-d6	"	200		106	"	10.0-110	53.0			
Surrogate: Nitrobenzene-d5	at a	200		180	n	35.0-114	90.0			
Surrogate: 2-Fluorobiphenyl	"	200		158	"	43.0-116	79.0			
Surrogate: 2,4,6-Tribromophenol	n	200		153	"	10.0-123	76.5			
Surrogate: p-Terphenyl-d14	n	200		91.0	"	33.0-141	45.5			
22 40 acc. b . c. b										





Gettler-Ryan/Geostrategies(1) Project: Tosco(4) Sampled: 9/28/99
6747 Sierra Court, Suite D Project Number: TOSCO (76) SS#1156, 180225.85 Received: 9/28/99
Dublin, CA 94568 Project Manager: Deanna Harding Reported: 10/19/99

Notes and Definitions

#	1	Note
D)	Data reported from a dilution.
1		Chromatogram Pattern: Gasoline C6-C12
2	:	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
D	DET	Analyte DETECTED
N	1D	Analyte NOT DETECTED at or above the reporting limit
N	√R	Not Reported
d	lry	Sample results reported on a dry weight basis
R	Recov.	Recovery
R	U PD	Relative Percent Difference

	•										1 44				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U	nali	7-0	1-1	JUSĮ	ody-Kecol
الانتقار المستبينيين المست ^ا ت					T	osco (76)	SS#1	156					(Conlact (Hom+)			AVID			 ;
	1		Facilit	n Yaquas Mumba	4270	MACARTI	<u>lur, </u>	OAKL	AND	CA		_			(Phone)		(925)	277-	-2384		
	ŀ	Coneu	itant Pro	olact Nun	nb • C	180225.8	35					-	Loboralar	y Hame.	Sec	<u>uoia</u>	Ana.	lytic	al		
TOSCO	1	Consu	iKant Hai	ma Ge	ttler	-Ryan In	c. (G:	-IL_In	حب_			-	Loborator	y Rolsos	• Humb	· · · · ·		<u> </u>	7-1	7	<u> </u>
Taxa Makaling Compa						Court			սեԼԱ	ıt,_CA	_9456	TIT	Samples	Collected	by (H	ا۔(•m•	Vari	<u> </u>	دب	<u> </u>	
Tanks Marketing Compa 2003 Com Caryon PL, Sid San Parrion, California Bit	777) 7 103	P	roject Co	nlact (H	om•) <u>D</u>	eanna L.	<u>llard</u> :	lng					Loberator Samples Collection Signature	Dole	1120	R	2_1_	-			
919259				(P	10ne).12	<u>5-551-75</u>	55_(Fox	Humb e	1) 5 2 5	<u>-551-</u>	7888		Signature			(190	9				
			7					<u>:</u>			1	·	Analyee	To Be	Perfor	m+d		·		ı ———	DO NOT BILL
]	y	ç	Air Charceal	Grab Composite Decrete		s		36			Į į	15 1:	8	ا . يا.		4VOCS by Babo	8,40	ء ۾			TB-LB ANALYSIS
	Ē I	Containen	11	5 g g g		بموثر	() %	X w.h.(13)		8	Puryectie Halocarbox (2010)	Aometic	Purgeable Organica (8240)	Estroctoble Organic (8270)	¥ _	şγ	40	F.	<u> </u>		NO Ether 10/
Ĕ	Sample Numb	8	≺ט 'צ	1 1 1		Į.	১	XII.	-2	Oil and Graces (5520)	圣	ig V	٥	岩	Watob CACT.Pb.Zn.Ni (ICVP or AA)	ا کی	<u>ئ</u> ر م	03			NO Etty 101
	E S	ž	r So⊒ ¥αte sete	υυΔ		. भेवताव्य	احمر زرمه	3 13	174 Dissal (80:5)	and (025	300 C	Purgedble (8020)	, 186 854 186	2275 (2775)	월다 첫	700	Š	60 . 47	,	1	1
Sampie Kumbe	3	Number	× S Koth	\$	흕	. %	<u> 7</u>	17H G.	F. 5	\ 2 °°	\ \frac{1}{2} \text{\$\infty} \cdot \text{\$\infty} \	1 2 2	1 2 2	H =	3 2 E	Ŧ	SVOCS	82 0×			Remorks
			. 1	Ce		HC.	4	7					- 								
TB-LB	<u>}</u>		<u> W</u>	-	15		 		<u> </u>							×	×	X			
	/ }-	11	1 122pin 2 T X X									ļ		{	 -			X		 	
MU-2 1	<u>B</u>	5		<u>-</u>	WAM Y T X								-				 	X	 	 	
HW-3 (14	5	٠.										_					1			
HW-4	05	5	••	-	1103/22	-7	<u> </u>	X	.		.		_					X	 	 -	<u> </u>
				, ,					.]								.	 	<u> </u>	<u> </u>	
						١										•	<u> </u>	<u> </u>			
											<u> </u>						<u> </u>	<u> </u>	<u> </u>	<u> </u>	
							-			"										ļ	
				<u></u> .				-			-							1			
					 			-	-	··											
				<u> </u>			-	-	-	-	\- 	<u> </u>	-	-			ļ — — —	 			
				<u></u>			-	-	-	-		-								1	
						 	-		-	-	·	-	- 	<u> </u>				-	 		
			<u> </u>	<u> </u>	<u> </u>		<u> </u>	1	1		ــــــــــــــــــــــــــــــــــــــ		Organizal	llon.	Dat	 •∕Ilm•		I ¹	Tum Ar	J	me (Circle Cholce)
italingulahed By (Signature) Organization Date/Time						ode/Ilme 24		lbeγisα ∩ A	yy (Slon YCi.	iature) -	2:40(28(9	ر ا	SEE CO		1	-	2:40				Hre
yls Oblo				1-175	<u>ليلا</u> ۱ موراه			105	7-	Organizat			•/Tim•	·			48	l Hr≠•			
Aquiahed By (Sig	gnátur»)		Orgo	antzation		Date/fime	"		A. A.A.	,			-								Doys Doys
			-	حمالمدامم		Dot+/Ilm+		uleved (For Lab	oralory	Dy (Sign	atur•)			Dal	•/11m•					ntrooled
'shed By (Sle	gnature)		nig	onlesino	ļ	MAJAY IIIITA		•		•											
			. [end to the second				'	•		•							