G-R #:180075

TO:

Mr. David B. De Witt

Tosco Marketing Company

2000 Crow Canyon Place, Suite 400

San Ramon, California 94583

CC:

Mr. David Vossler

Gettler-Ryan Inc.

Novato, California

FROM:

Deanna L. Harding

**Project Coordinator** 

Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568

RE:

Tosco (Unocal) SS #7376

4191 First Street

Pleasanton, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	February 26, 1999	Groundwater Monitoring and Sampling Report Fourth Quarter 1998 - December Event

#### 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 March 22, 1999, this report will be distributed to the following:

#### Enclosure

Mr. Scott Spery

Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, California 94502

agency/7376dbd.qmt

February 26, 1999 G-R Job #180075

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

RE:

Fourth Quarter 1998 Groundwater Monitoring & Sampling Report

Tosco (Unocal) Service Station #7376

4191 First Street Pleasanton, California

\_ \_\_, \_\_\_, \_\_\_, \_\_\_, \_\_\_\_,

Dear Mr. De Witt:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On December 15, 1998, field personnel monitored seven wells (MW-1, MW-2B, MW-3, MW-4, MW-5, MW-7, and MW-8) and sampled six wells (MW-1, MW-2B, MW-3, MW-4, MW-7, and MW-8) at the above referenced site. One well (MW-6) was not located. On December 23, 1998, field personnel monitored eight wells (MW-1, MW-2B and MW-3 through MW-8) and sampled one well (MW-6). In addition on January 23, 1999, field personnel returned to the site to monitor and sample one well (MW-6) for additional analysis.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in one well (MW-5) during both visits. Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 2. 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.

Singerely,

Deanna L. Harding

Project Coordinator

Stephen J. Carter

Senior Geologist, R.G. No. 5577

No. 5577

FOF CALIFOR

Figure 1:

Potentiometric Map - December 23, 1998

Figure 2:

Concentration Map - December 15, 1998

Table 1:

Groundwater Monitoring Data and Analytical Results

Table 2:

Product Thickness/Removal Data

rding

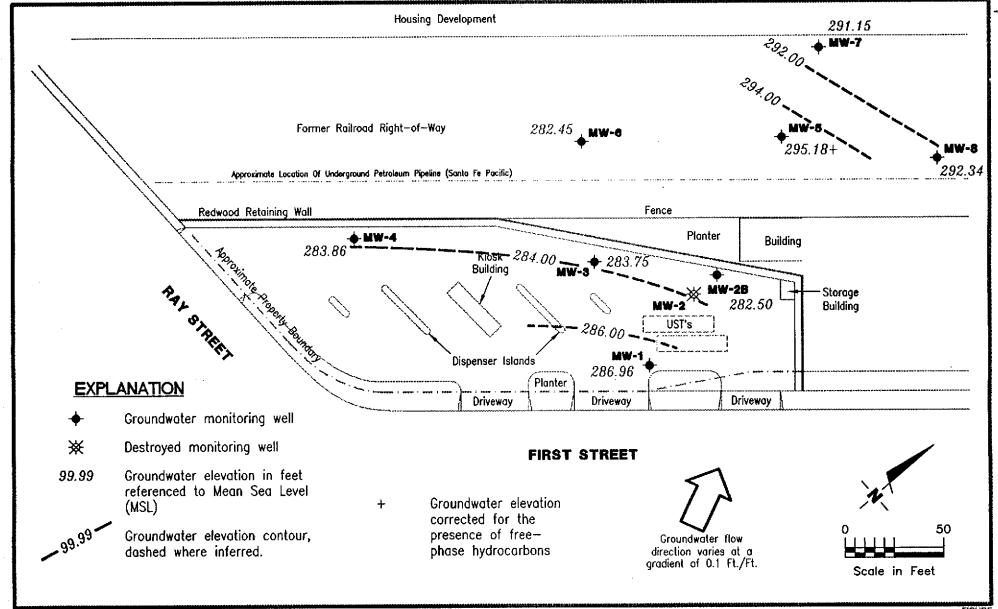
Attachments:

Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

7376.qml

Chain of Custody Document and Laboratory Analytical Reports





## Gettler - Ryan Inc.

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

(925) 551-7555

POTENTIOMETRIC MAP

Tosco (Unocal) Service Station No. 7376 4191 First Street

Pleasanton, California DATE

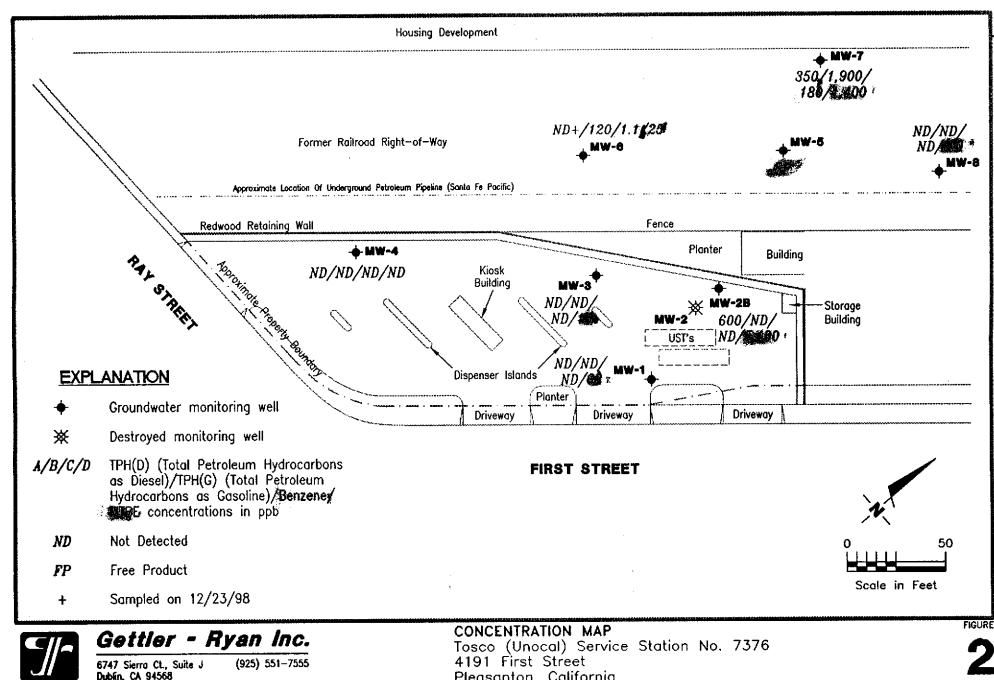
December 23, 1998

FIGURE

JOB NUMBER 180075

REVIEWED BY

REVISED DATE



JOB NUMBER 180075

REVIEWED BY

Pleasanton, California

DATE December 15, 4998 REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

				Product	Ficasamon	, Camorma					
Well ID/	Date	DTW	GWE	Product Thickness	TPH(D)	TPH(G)	В	T	E	x	MTBE
TOC*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
	10 (00 (07)				$2,100^2$	50 <sup>3</sup>	58	8	ND	10	
MW-1	12/08/871		205.05	0.00	2,100	ND	ND	ND	ND	ND	
366.99	12/07/94	81.04	285.95	0.00	120	ND	ND	1.1	ND	1.3	
	03/01/95	80.09	286.90		54 <sup>5</sup>	130	1.0	2.9	0.79	4.5	
	06/01/95	77.53	289.46	0.00	690	ND	ND	ND	ND	ND	6
	09/06/95	79.00	287.99	0.00	190 <sup>5</sup>	ND ND	ND	ND	ND	ND	
	12/12/95	77.55	289.44	0.00			ND ND	ND	ND	ND	370
	03/01/96	75.09	291.90	0.00	56	ND			ND	ND	270
	06/15/96	75.07	291.92	0.00	ND	ND	ND	ND			590
	09/18/96	79.90	287.09	0.00	130 <sup>5</sup>	ND	ND	ND	ND	ND	150
	12/21/96	78.96	288.03	0.00	ND	ND	ND	ND	ND	ND	
	03/07/97	71.49	295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05	286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04	286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07	286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00	295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29	287.69	0.00	ND	59 <sup>13</sup>	0.90	ND	ND	ND	570
	08/18/98	79.93	287.05	0.00							
	09/22/98	79.99	286.99	0.00	240 <sup>20</sup>	ND	ND	ND	ND	ND	170
	12/15/98	80.02	286.96	0.00	ND	ND	ND	ND	ND	ND	63
	12/23/98	80.02	286.96	0.00					-		
					620 <sup>2</sup>	1,800 <sup>3</sup>	910	800	260	1,200	
MW-2	12/08/87	D 13 (1 GED									
	12/07/94	DAMAGED						<u></u>			
	02/07/95	DESTROYED						<b></b>			
MW-2B										. I To	
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	<sup>6</sup>
	12/12/95	75.96	289.09	0.00	850 <sup>4</sup>	1,200	630	ND	15	57	7
	03/01/96	73.27	291.78	0.00	870 <sup>4</sup>	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200

Table 1
Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

<u> </u>				Product							
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	B	X	MTBE
roc*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
WW OD	10/01/06	77.25	207 70	0.00	470	330 <sup>8</sup>	57	ND	ND	ND	2,900
MW-2B	12/21/96	77.35	287.70	0.00	870 <sup>4</sup>	190	28	0.64	ND	1.5	4,300
(cont)	03/07/97	69.67	295.38	Sheen	680 <sup>4</sup>	98	3.4	1.0	0.53	ND	3,100
	06/27/97	82.40	282.65	0.00					ND	ND ND	3,000
	09/29/97	82.72	282.33	0.00	430	ND 54 <sup>9</sup>	ND	ND ND	ND	ND ND	4,100
	12/15/97	82.57	282.48	0.00	490	ND <sup>11</sup>	ND	ND <sup>11</sup>	ND <sup>11</sup>	$ND^{11}$	4,100
	03/16/98	69.13	295.92	Sheen	4,000 <sup>10</sup> 790 <sup>14</sup>		17		ND		4,400
365.05	06/26/98	77.78	287.27	0.00		ND	ND	ND		ND	
	08/18/98	83.99	281.06	0.00		ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>	ND <sup>11</sup>		
	09/22/98	83.89	281.16	0.00	930 <sup>20</sup>					21	4,600
	12/15/98	82.84	282.21	0.00	600	ND	ND	ND	ND	ND	5,100
	12/23/98	82.55	282.50	0.00	<del></del>		B#1				
MW-3	12/08/87		<del></del>	<u></u>	2,300 <sup>2</sup>	24,000 <sup>3</sup>	2,600	1,300	160	660	
367.01	12/07/94	85.54	281.47	0.00		ND	ND	ND	ND	ND	
,07.01	03/01/95	83.20	283.81	0.00	140 <sup>4</sup>	ND	ND	1.1	ND	1.1	
	06/01/95	77.60	289.41	0.00	140 <sup>5</sup>	62	7.8	0.90	ND	1.6	
	09/06/95	79.28	287,73	0.00	880 <sup>5</sup>	4,100	380	490	130	710	6
	12/12/95	77.73	289.28	0.00	$3,100^4$	19,000	600	380	2,100	5,300	7
	03/01/96	75.18	291.83	0.00	1,500 <sup>5</sup>	3,400	950	3,2	1,900	290	59
	06/15/96	75.13	291.88	0.00	400 <sup>4</sup>	780	190	8.8	3.8	4.0	630
	09/18/96	82.84	284.17	0.00	170	2,800	- 340	12	11	110	2,500
	12/21/96	79.29	287.72	0.00	64 <sup>4</sup>	51	1.3	ND	ND	0.53	20
	03/07/97	71.58	295.43	0.00	570 <sup>4</sup>	1,400	53	14	29	68	220
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11
	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19
	03/16/98	71.07	295.94	0.00	670 <sup>10</sup>	130 <sup>12</sup>	6.5	1.9	1.5	1.6	210
367.03	06/26/98	79.65	287.38	0.00	63 <sup>13</sup>	400 <sup>15</sup>	15	ND <sup>11</sup>	$ND^{11}$	1.9	490
101.103	08/18/98	83.29	283.74	0.00					- · <del></del>		
	09/22/98	83.33	283.79	0.00	9520	ND	ND	ND	ND	ND	24
	12/15/98	83.29	283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/15/98 12/23/98	83.29 83.28	283.75	0.00							

Table 1
Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

				erestori Torrisation reserv	Picasainon,	Camorina					1000 1000 1000 1000 1000 1000 1000 100
				Product		PROPERTY CON			E	X	MTBE
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	<ul> <li>** ** ** ** ** ** ** ** ** ** ** ** **</li></ul>		
TOC*		(ft.)	(msl)	(ft. <u>)</u>	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
			•								
MW-4	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND
369.03	12/21/96	73.67 77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND
		79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	06/27/97	79.0 <del>0</del> 85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	83.83 87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97		293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND
	03/16/98	75.09		0.00	630 <sup>16</sup>	100 <sup>13</sup>	62	ND	ND	ND	ND
368.81	06/26/98	73.81	295.00	0.00							
	08/18/98	78.75	290.06		74 <sup>20</sup>	ND	ND	ND	ND	ND	2.8
	09/22/98	83.95	284.86	0.00		ND ND	ND	ND	ND	ND	ND
	12/15/98	85.41	283.40	0.00	ND 	 N1)					
	12/23/98	84.95	283.86	0.00		_					
MW-5					c						4 100
363.23	09/18/96	64.20	299.03	0.00	4,700 <sup>5</sup>	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77	301.46	Sheen	4,7004	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30	306.93	Sheen	$2,100^4$	14,000	1,300	120	410	1,200	1,700
	06/27/97	68.88	295.03**	0.90	NOT SAMPLE					<del></del>	
	09/29/97	69.47	294.02**	0.35	NOT SAMPLE						
	12/15/97	64.92	298.53**	0.30	NOT SAMPLE						
	03/16/98	49.63	313.67**	0.09	NOT SAMPLE						
363.21	06/26/98	64.13	299.08	Sheen	230,000 <sup>17</sup>	49018	6.3	2.8	4.2	5.1	10
	08/18/98	70.40	292.81**	0.005							
	09/22/98	69.10	294.16**	0.06	NOT SAMPLE	D DUE TO TH	HE PRESENCE	OF FREE PRO	DDUCT		
	12/15/98	68.84	294.50**	0.17	NOT SAMPLE	ED DUE TO T	HE PRESENC	CE OF FREE P	RODUCT		
	12/23/98	68.42	295.18**	0.50					-		
MW-6						1/0	e 1	MD	ND	ND	ND
363.12	09/18/96	79.07	284.05	0.00	ND	160 300 <sup>8</sup>	5.4	ND	ND ND	1.7	21
	12/21/96	75.40	287.72	0.00	ND		96	1.3		31	290
	03/07/97	67.61	295.51	0.00	190 <sup>4</sup>	1,800 <sup>8</sup>	920	18	ND		38
	06/27/97	80.45	282.67	0.00	73 <sup>5</sup>	ND	0.73	ND	ND	38	38

Table 1
Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376 4191 First Street

				Product							
Well ID/	Date	DTW	GWE	Thickness	TPH(D)	TPH(G)	В	T	E	X	MTBE
TOC*		(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
						. 0					
MW-6	09/29/97	86.02	277.10	0.00	ND	62 <sup>9</sup>	ND	ND	ND	ND	43
(cont)	12/15/97	84.03	279.09	0.00	ND	789	ND	ND	ND	ND	39
	03/16/98	67.15	295.97	0.00	10010	$210^{12}$	36	2.5	ND	3.0	64
363.13	06/26/98	75.71	287.42	0.00	18014	530	300	8.3	2.8	8.7	81
	08/18/98	74.86	288.27	0.00							
	09/22/98	UNABLE TO LOG	CATE								
	12/15/98	UNABLE TO LO	CATE								
	12/23/98	80.80	282.33	0.00		$120^{23}$	1.1	ND	ND	0.78	25
	01/23/99	80.68	282.45	0.00	ND		••				
MW-7											
355.97	06/26/98										
	08/18/98	68.75	287.22	0.00	$1,400^{20}$	4,000	1,900	48	160	ND <sup>11</sup>	1,700
	09/22/98	66.35	289.62	0.00	780 <sup>20</sup>	3,200	1,100	ND	22	ND	1,500
	12/15/98	65.03	290.94	0.00	350 <sup>21</sup>	1,900 <sup>22</sup>	180	2.7	2.9	3.8	1,400
	12/23/98	64.82	291.15	0.00				2./ 	<i>2.7</i>	J.0	1,400
	12/23/70	04.02	271.13	0.00						<u></u>	
MW-8											
362.37	06/26/98	63.00	299.37	0.00	80 <sup>19</sup>	ND	6.0	ND	ND	ND	150
	08/18/98	73.38	288.99	0.00							
	09/22/98	70.89	291.48	0.00	120 <sup>20</sup>	ND	ND	ND	ND	ND	9.5
	12/15/98	70.29	292.08	0.00	ND	ND	ND	ND	ND	ND	3.0
	12/23/98	70.03	292.34	0.00							
Trip Blank											
TB-LB	03/16/98					ND	ND	ND	ND	ND	ND
	06/26/98					ND	ND	ND	ND	ND	ND
	08/18/98					ND	ND	ND	ND	ND	ND
	09/22/98					ND	ND	ND	ND	ND	ND
	12/15/98	-		-	<del>-</del>	ND	ND	ND	ND	ND	ND
	12/23/98					ND	ND	ND	ND	ND	ND

#### Table 1

#### Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376 4191 First Street Pleasanton, California

#### **EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

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 = Relative to mean sea level

MTBE = Methyl tertiary butyl ether

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

- \* TOC elevations have been surveyed relative to mean sea level (msl) per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl).
- \*\* Groundwater elevation corrected for the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].
- 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
- <sup>2</sup> Reported as Total Extractable Hydrocarbons (TEH).
- Reported as Total Petroleum Hydrocarbons (TPH).
- Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
- Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- Laboratory report indicates diesel and unidentified hydrocarbons > C16.
- Detection limit raised. Refer to analytical results.
- Laboratory report indicates gasoline and unidentified hydrocarbons < C7.
- <sup>13</sup> Laboratory report indicates discrete peaks.
- Laboratory report indicates diesel and unidentified hydrocarbons > C20.
- Laboratory report indicates discrete peaks and unidentified hydrocarbons < C7.
- <sup>16</sup> Laboratory report indicates diesel and unidentified hydrocarbons < C15.
- Laboratory report indicates diesel and unidentified hydrocarbons < C15 and > C20.
- Laboratory report indicates gasoline and unidentified hydrocarbons > C8.
- <sup>19</sup> Laboratory report indicates unidentified hydrocarbons > C16.
- Laboratory report indicates unidentified hydrocarbons C9-C24.
- Laboratory report indicates diesel and unidentified hydrocarbons < C12.
- Laboratory report indicates unidentified hydrocarbons C6-C12.
- Laboratory report indicates unidentified hydrocarbons C6-C9.

# Table 2 Product Thickness/Removal Data

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

			Product	Amount Bailed
Well ID	Date	DTW	Thickness	(Product + Water)
		(ft.)	(ft.)	gallons
MW-5	03/07/97	56.30	Sheen	-*
	06/27/97	68.88	0.90	
	09/29/97	69.47	0.35	
	12/15/97	64.92	0.30	· <del></del>
	03/16/98	49.63	0.09	0.25
	06/26/98	63.00	Sheen	
	08/18/98	70.40	0.005	
	09/22/98	69.10	0.06	
	12/15/98	68.84	0.17	
	12/23/98	68.42	0.50	<del></del>

#### **EXPLANATIONS:**

Product thickness/removal data prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to water

(ft.) = Feet

-- = Not Measured/Not Available

Amount Bailed history will be updated in future reports.

# 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.

# TOSCO (UNOCAL) SS#7376 PLEASANTON, CA

MONITORING & SAMPLING EVENT OF DECEMBER 15, 1998

Client/ Tos Facility#73	00 76			Job#: _	180075		
	1) First st.		<b>[</b>	Date: _	12/15/9	8	
,	asanton		<del></del>	Sampler: _			· · · · · · · · · · · · · · · · · · ·
Well ID	MW-1	, W	ell Condition:	06			
Well Diameter	2 in		drocarbon	<b>.</b>	Amount E	7	
Total Depth	86.43 ft				) (product/wa		" = 0.66
Depth to Water	80.02		actor (VF)		1.50	12* = 5.80	- 0.00
Purge Equipment:	L.4/ x Disposable Baile Bailer		₹ = <u>1.69</u> x 3 Samp Equip	lling	= Estimated Policy		3.27 <sub>(gal.)</sub>
	Stack Suction Grundfos Other:		-46	E F	lailer ressure Baile Grab Sample Other:	er	
Starting Time:	10:45		Weather Co	nditions:	elan	~	
Sampling Time:	12:63	····-	Water Color	:	bour	Odor: K	ર
Purging Flow Ra	te:	gpm.	Sediment De	escription: _	554		
Did well de-wate	er?		If yes; Tim	e:	Volun	ne:	(gal.)
11:47	Volume pH (gal.)	μπ	thos/cmx/00 5.54	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:49	2 7.38		5.43	69.5			
11:50	3,5 7.29	<u> </u>	5-40	69.8			
		<u> </u>					
SAMPLE ID	(#) - CONTAINER	LABOI	RATORY INFO		DRATORY	ANAL	YSES
HW-1	3 VOA	Y	HC1	SEQUOI		TPH(G)/btex/m	
',	1 Auber	41	NONE	4		TPHD	
						<u> </u>	
COMMENTS: _							

Client/ Tos Facility <u># 73</u>	c0 76		Jo	b#:	180075		
Address: 49	11 First st.		D:	ate:	12/15/9	8	
City: Ple					: Varti		7T
Well ID	MW- 2B	_ w	ell Condition:		OL		
Well Diameter	2ir		/drocarbon	ф	Amount	-	
Total Depth	85,25,		nickness:		$\frac{\text{(feet)}  \text{(product/w})}{3" = 0}$		(Gallons)
Depth to Water	82.84 f		Factor (VF)		6" = 1.50		
Purge Equipment:	Disposable Bailer Bailer Stack Suction Other:		<i>⊋ _0.4]</i> x 3 (c Sampli Equipm	ng	Disposable I Bailer Pressure Bai Grab Sample Other:	Bailer iler e	<u>がころ (gal.)</u>
Sampling Time:	12'20 12'40 ite:		Water Color:		du dez n: nen	Odor: re-	<u></u>
Did well de-wate	er? <b>~</b> _		If yes; Time	·	Volu	me:	(gal.
	Volume pH (gal.) 2.21	μ <u>ι</u>	nhos/cmx/00	mperatu 68.3			Alkalinity (ppm)
	1.5 6.9	<u> </u>	6.93 ———————	68.7 68.9			
SAMPLE ID  HW-2B	(#) - CONTAINER	LABO REFRIG.	RATORY INFOR	/.		ANAL'	
"	1 Auber	41	NONE		4	TPHD	
COMMENTS:			·- TT				

,	76 91 First st.		D:	Job#: <u>180075</u> Date: <u>12/15/98</u> Sampler: <u>Vartkes</u>
Well ID	HW-3	_ W	ell Condition:	0 K
Well Diameter  Total Depth  Depth to Water	2 in 94.1/ + 83.29 +	Th	rdrocarbon ickness:  /olume 2* factor (VF)	Amount Bailed (feet) (product/water): (Gallon 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.50 12" = 5.80
Purge Equipment:	Disposable Baile Bailer Stack Suction Grundfos Other:		Sampli	Clase volume) = Estimated Purge Volume: SSZ (galloling oment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other:
			Water Color: Sediment Des	escription:
<b>-</b> . ·	er?	Cor	•	Temperature D.O. ORP Alkalinin (mg/L) (mV) (ppm)
SAMPLE ID	(#) - CONTAINER	LABOI REFRIG.	RATORY INFOR	ORMATION  /PE / LABORATORY ANALYSES  / SEQUOIA TPH(G)/btex/mtbe
HW-3	3 VOA 1 Au ber	41	NONE	TPHD
COMMENTS: _		1	J	

Rient/ 705 acility_# 73	76		Job		80075		
\ddress: <u>419</u>	1) First st.	· · · · · · · · · · · · · · · · · · ·	Dat	e: <u>/</u>	2/15/98	8	
City: <u>Ple</u>	asanton		Sar	npler:	Varth	25	······
Well ID	MW- 4	W€	ell Condition:	ok			
Vell Diameter	2 ir		drocarbon	Ъ	Amount E		
Total Depth	93.01 +		ickness:		$3^n = 0.33$		(Gallons) " = 0.66
Depth to Water	85.41	F	actor (VF)			12* = 5.80	
			= <u>/.29</u>		= Estimated Pr	urge Volume: _	3.88 <sub>(gal.)</sub>
Purge Equipment:	Disposable Baile Bailer Stack Suction Grundfos Other:		Sampling Equipme	nt: Di Ba Pr Gi	sposable Bailer essure Bailer rab Sample ther:	er	
Starting Time:	9:33		Weather Condi	tions: _	dier		
Sampling Time:	9:56	<del></del>	Water Color: _	0	172	Odor: <del>~</del>	·
	ite:/		Sediment Desc				
Did well de-wate	er?		If yes; Time:	<del></del>	Volun	ne:	<u>(gal</u>
Time \\ \( \frac{9;3,1}{9:36} \)	Volume pH  (gal.)  7.3  7.3	γ <u>μη</u>	nhos/gmX/00 4.776 4.596	perature <del>7.5</del> 8.1	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9;38	4 7.15		4.62 6	3.3	-		
						<del></del>	
		LABOI	RATORY INFORM	IATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	// LABO		ANAL	
HW-4	3 VOA	Y	HCI	SEQUOIA	١	TPH(G)/btex/r	ntbe
- "	1 Au ber	-1	NONE			7 PHD	
-							
		<u> </u>					
COMMENTS: _		<del></del>				_	
	•						

### WELL WONLLOKING/SAMPLING

### FIELD DATA SHEET

acility # 73	<u>16</u>	<del></del>	Job#:	180075	·
ddress: 49	I First st.		Date:	12/15/98	
city: Ple			Sampler:	Varthe	2.
Well ID	MW-5	Well Conditi	on:	ol	
Well Diameter	Z in.	Hydrocarbo	1 0.17 (fe	Amount Ba	
Total Depth	72.52tt. 68.84 tt.	Volume Factor (VF)	2" = 0.17		4" = 0.66
Depth to Water		VF=	X 3 (case volum	e) = Estimated Pu	rge Volume:(aal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	E	ampling quipment:	Disposable Ba Bailer Pressure Baile Grab Sample Other:	r
Starting Time:		Weathe	r Conditions:		
Sampling Time:			Color:		Odor:
Purging Flow Rat	/	<del></del>	nt Description:	/	
Did well de-wate	#?	If yes;	Time:	/volum	e:
Time V	/olume pH	Conductivity		D.O. (mg/L)	ORP Alkalinity (mV) (ppm)
	(#) - CONTAINER	LABORATORY REFRIG. PRESER	INFORMATION		ANALYSES
CAMPLEID		Y HE			TPH(G)/btex/mtbe
SAMPLE ID	<del>-3 /04  </del>				<del></del>
SAMPLE ID	1 Augus	"I NOW	· C	•	TPHD?

Client/ <i>Toよく</i> Facility <u># <del>オ</del>3ティ</u>		_		Job#:	18007		
Address: <u>419</u>	1 First st			Date: _	12/15/9	8	
City: Plea				Sampler: _	varthe	<del>(</del>	
Well JD	MW-6	We	II Condition:	* Cove	red wi	th gro	vel.
Well Diameter	in.	-	irocarbon ckness:	(feet)	Amount E		(Gallons)
Total Depth	ft.	V		2" = 0.17		8 4'	' = 0.66
Depth to Water	ft.	L			· <del></del>	,	
	x ,	√F	X :	(case volume)	= Estimated P	urge Volume:	(qal.)
Purge Equipment:	Disposable Bailer Bailer Stack		Sam Equip	ment: D	risposable B	ailer	
	Suction Grundfos				ressure Baile Grab Sample		
	Other:	_			ther:		
Starting Time:			Weather Co	nditions:		1	
Sampling Time:			Water Colo	r:		/ Odor:	
Purging Flow Rat	e:	<u>ıpm.</u>		escription: _	1		
Did well de-wate	r?	<del></del>	If yes; Tir	ne:	Volur	ne:	(gal.
	olume pH (gal.)		ductivity hos/cm <b>X/00</b>	Temperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					/		<u> </u>
				/	·		
	<u> </u>	<u> </u>	<del></del> -				
		LABOR	RATORY INF		<del></del>		
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. T	<del></del>	ORATORY	ANAL	
	3 VOA	<u> </u>	HC-	SEQUO	IA	TPH(G)/btex/n	ntoe
<u></u>	k		<u> </u>				
COMMENTS:	Kunable -	to 1	ocate				·
				<del>-</del>		· · · · · · · · · · · · · · · · · · ·	

Client/ 70Sc Facility # 737	0 26		<del></del>	Job#	· _	180075				
	11 First st.		<del></del>	Date		12/15/98	8			
City: Plea			Sampler: Vartly							
Well ID	_MW-7	We	II Condition:		oh					
Well Diameter	2in		drocarbon	Æ	i for a s	Amount B		(Gallons)		
Total Depth	76.90 ft		ckness:	2" = 0		3" = 0.38		" = 0.66		
Depth to Water	65.03 ft	F.	ictor (VF)			1.50				
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sam	3 (case	:: (I E F	= Estimated Polisposable Baller Pressure Baile Grab Sample Other:	ailer	605 (cal.)		
Sampling Time:	12:55 1;20		Water Cold	or: Descri	otion:	elver set	Odor: 4	-		
Did well de-water	er?	<del></del>	If yes; Ti	me: _		Volun	ne:	(gal.)		
Time 1:01	Volume pH  (gal.)  7.19  4  7.02  6.5  6.91	μπ	ductivity thos/cmx///o S. 44 5.39	•]	erature .0 .5	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)		
**************************************	AN CONTAINED		RATORY INF			ORATORY	ANAL	vete		
SAMPLE ID  MW-7	(#) - CONTAINER	REFRIG.	PRESERV.	TPE /	SEQUO	-	TPH(G)/btex/r			
11	1 Amber	- M	NON	-	-1		TPHD			
COMMENTS:			··					. <u> </u>		
								·····		

Client/ <i>Tose</i> Facility# <i>7</i> 37	6 		Jo	ob#:
	1 First Q.		Da	ate: 12/15/98
	asanton		Sa	ampler: Vorthy
Well ID	HW-8	We	II Condition:	oh
Well Diameter	<u> </u>	•	drocarbon ckness:	Amount Bailed    Gallons
Total Depth	86.40 ft			" = 0.17 3" = 0.38 4" = 0.66
Depth to Water	70.29 tt	-	actor (VF)	6" = 1.50 12" = 5.80
Purge Equipment:	Disposable Baile Bailer Stack Suction Grundfos Other:	•	<i>2.74</i> × 3 (d Samplii Equipm	
Starting Time: Sampling Time: Purging Flow Rate Did well de-water		apm.	Sediment Des	
10:58	/olume pH (gal.) 2.57	. un	thos/cmx/00	Temperature         D.O.         ORP         Alkalinit           oF         (mg/L)         (mV)         (ppm)           G5.1
11:04	8.5 7.35 7.30		<u>5.88</u> _	68.5 68.7
		LABOR	RATORY INFOR	
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYP	
HW-8	3 VOA	Y	HOL	SEQUOIA TPH(G)/btex/mtbe
£ .	1 Auber		NUIVE	17/10
COMMENTS: _				

-	
	1
т	OSCO
Teac	, Kadadag Campu

Toose Marketing Company 2000 Case Conyon Pt., Sac. 400 San Ramon, Caldonia 94583

Relinquished By (Signature)

Focility Number TOSCO (UNOCAL) SS#7376
Foolity Address 4191 First Street, Pleasanton, CA
Consultant Project Number 180075,85
Consultant Home Gettler-Ryan Inc. (G-R Inc.)
Address 6747 Sierra Court, Suite J. Dublin, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone)510-551-7555 (Fox Humber)510-551-7888

(Phone) (510) 277-2321
Laboratory Name Sequoia Analytical 9812382
Samples Collected by (Hame) Varthes Tashia
Collection Date 12/15/28, 4 Signature Varte alange

		<u> </u>		· ·	(10114)===		22-(140	· · · · · · · · · · · · · · · · · · ·	- /												
			8					\ 					Analy•	•• To B	e Perfor	med	<del>,</del>	,			DO NOT BIL
Sample Number	Lab Sample Number	Number of Containers	Martiti S = Soil A # Ar W = Water C = Charcool	Type G m Grab C m Composite D m Clacrate	Tim•	Sample Preservation	load (Yes or No.)	TPH Gat - STEX WANTBE	7PH Diesed (8015)	Oil and Graces (5520)	Purgeable Halocarbons (8010)	Purpeable Arometics (8020)	Purpeable Organica (8240)	Extractable Organics (8270)	Metals Cd.Cr.Pb.Zn.Ni (ICAP or AA)	•					TB-LB ANALY
TB-LB		1	W	6		HU	4	X										L	384		
MW-1		4	٠,		11:45 A14	4	4	X	X								8	121	385	A-I	>
4W-2B		4	بر	<u> </u>	12:40	4	4	X	×								8	121	386		
40-20 Hut-3		4	и		10;39	વ	4	X	X		ļ.——·						8	121	387		
4w-3 4w- <b>\$</b> 4		4	a.	•	10,39 AU 9:50 7:50	Ł	4	X	×								8	121	388		
yw-7		4	٧.	- 1	1:20	4	2	X	X									21			
HW-8		4	પ	-	11:23	L	-	X	×								8	121	390	V	
			<del></del>																		
																<del></del>			-		
		·																			
							· .		<u> </u>		 			_							
inquished by	(Signature)	I		nization R Inc	0	ote/Time2;3	Reo	lelyed B	y (Sign	olure)	<u>                                     </u>	0	rganizal			/Tlm•	, v	·	Sum Are		ne (Circle Cholce) Hre.
linguished By	(Signature)	<u> </u>	Orgo	onization	0	//3/78 ] ole/Time (L-16 (		refyed B	y (Sign	ature)		o	rganizal			/Time				46 5 (	Hre. Daye Daye
			<del> '</del>			· •	<del>''  </del>			1 7	. /01	dara)			Do.	/Time			-		L 414

Realeved For Laboratory By (Signature)

1000 Ann

1000 A

Dote/Time

Organization

Date/Time 12/N/98 143N ( 12/16/76/1900)

As Contracted



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568

Attention: Deanna Harding

Client Project ID: Sample Matrix: Analysis Method: Tosco (Unocal) SS#7376, Pleasanto

Water

EPA 5030/8015 Mod./8020

Sampled: Dec Received: Dec

Dec 15, 1998 Dec 16, 1998

First Sample #:

812-1384

Reported: Jan 4, 1999

### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

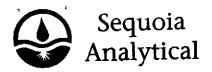
Analyte	Reporting Limit μg/L	Sample I.D. 812-1384 TB-LB	Sample I.D. 812-1385 MW-1	<b>Sample I.D.</b> 812-1386 MW-2B	Sample I.D. 812-1387 MW-3	Sample I.D. 812-1388 MW-4	Sample I.D. 812-1389 MW-7
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	N.D.	N.D.	1,900
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	180
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	2.7
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	2.9
Total Xylenes	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	3.8
MTBE	2.5	N.D.	63	5,100	18	N.D.	1,400
Chromatogram Pa	ttern:					<del></del> ,	Unidentified Hydrocarbons C6 - C12
Quality Control Da	ata						
Report Limit Multip	lication Factor:	1.0	1.0	1.0	1.0	1.0	5.0
Date Analyzed:		12/21/98	12/21/98	12/22/98	12/21/98	12/21/98	12/21/98
Instrument Identific	cation:	HP-9	HP-9	HP-9	HP-9	HP-9	HP-9
Surrogate Recover (QC Limits = 70-13		97	97	97	98	97	125

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Willianne Fegley Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J

Dublin, CA 94568

Attention: Deanna Harding

Client Project ID: Sample Matrix:

Analysis Method: First Sample #:

Tosco (Unocal) SS#7376, Pleasanto

Water EPA 5030/8015 Mod./8020

812-1390

Sampled: Dec 15, 1998 Received:

Dec 16, 1998 Reported: Jan 4, 1999®

### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit μg/L	Sample I.D. 812-1390 MW-8	
Purgeable Hydrocarbons	50	N.D.	
Benzene	0.50	N.D.	
Toluene	0.50	N.D.	
Ethyl Benzene	0.50	N.D.	
Total Xylenes	0.50	N.D.	
MTBE	2.5	3.0	
Chromatogram Pa	ttern:		

#### **Quality Control Data**

Report Limit Multiplication Factor: 1.0

12/21/98

Date Analyzed:

HP-9 Instrument Identification:

Surrogate Recovery, %: 100

(QC Limits = 70-130%)

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

kulianne Fegley Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Sulte 8 1455 McDowell Bivd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Client Project ID: Sample Matrix: Analysis Method: Tosco (Unocal) SS#7376, Pleasanto Water

EPA 3510/8015 Mod.

Sampled: Received: Dec 15, 1998 Dec 16, 1998

Attention: Deanna Harding

First Sample #:

Reported:

Jan 4, 1999

### TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

812-1385

Analyte	Reporting Limit μg/L	<b>Sample</b> I.D. 812-1385 MW-1	Sample I.D. 812-1386 MW-2B	Sample I.D. 812-1387 MW-3	Sample I.D. 812-1388 MW-4	Sample I.D. 812-1389 MW-7	Sample I.D. 812-1390 MW-8
Extractable Hydrocarbons	50	N.D.	600	N.D.	N.D.	350	N.D.
Chromatogram Pa	ittern:		Diesel			Diesel & Unidentified Hydrocarbons < C12	

**Quality Control Data** 

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	12/21/98	12/21/98	12/21/98	12/21/98	12/21/98	12/21/98
Date Analyzed:	12/22/98	12/22/98	12/22/98	12/22/98	12/22/98	12/22/98
Instrument Identification:	HP-3A	HP-3A	НР-ЗА	HP-3A	HP-3A	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

الكل lianne Fegley Project Manager

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568

Attention: Deanna Harding

Client Project ID:

Tosco (Unocal) SS#7376, Pleasanton

Matrix: Liquid

QC Sample Group: 8121384-390

Reported:

Jan 4, 1999

#### **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Diesel
			Benzene	•	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M.
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	K. Grubb
MS/MSD					
Batch#:	8121388	8121388	8121388	8121388	BLK122198
			0.21000	********	
Date Prepared:	12/21/98	12/21/98	12/21/98	12/21/98	12/21/98
Date Analyzed:	12/21/98	12/21/98	12/21/98	12/21/98	12/22/98
Instrument i.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3A
Conc. Spiked:	20 μg/L	$20\mu\mathrm{g/L}$	20 μg/L	60 µg/L	500 μg/L
Matrix Spike					
% Recovery:	105	115	120	122	74
Matrix Spike					
Duplicate %					
Recovery:	100	110	115	118	54
7100070.31	100	110	713	,,,,	•
Relative %					
Difference:	4.9	4.4	4.3	2.8	31
LCS Batch#:	9LCS122198	9LCS122198	9LCS122198	9LCS122198	<u>-</u>
Date Prepared:	12/21/98	12/21/98	12/21/98	12/21/98	_
Date Analyzed:	12/21/98				-
Instrument I.D.#:	12/21/96 HP-9	· 12/21/98 HP-9	12/21/98 HP-9	12/21/98 HP-9	-
msu umem n.b.#.	∩ <b>r-</b> 3	nr-y	HF-9	mr-9	•
LCS %					
Recovery:	95	105	110	115	<del>-</del>
% Recovery			<del></del> .		
Control Limits:	70-130	70-130	70-130	70-130	60-140

SEQUOIA ANALYTICAL, #1271

اللو lianne Fegley Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Bivd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Client Project ID: Matrix: Tosco (Unocal) SS#7376, Pleasanton

Attention: Deanna Harding

QC Sample Group: 8121384-390

Reported:

Jan 4, 1999

#### **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	
MS/MSD					
Batch#:	8121403	8121403	8121403	8121403	
Date Prepared:	12/22/98	12/22/98	12/22/98	12/22/98	
Date Analyzed:	12/22/98	12/22/98	12/22/98	12/22/98	
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	
Matrix Spike					
% Recovery:	115	115	115	122	
Matrix Spike					
Duplicate %					
Recovery:	110	115	115	118	
Relative %					
Difference:	4.4	0.0	0.0	2.8	
LCS Batch#:	9LCS122298	9LCS122298	9LCS122298	9LCS122298	
Date Prepared:	12/22/98	12/22/98	12/22/98	12/22/98	
Date Analyzed:	12/22/98	12/22/98	12/22/98	12/22/98	
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	
LCS %					
Recovery:	105	110	110	. 117	
% Recovery				<u> </u>	
Control Limits:	70-130	70-130	70-130	70-130	

**SEQUOIA ANALYTICAL, #1271** 

ulianne Fegley Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

# TOSCO (UNOCAL) SS#7376 PLEASANTON, CA

MONITORING & SAMPLING EVENT OF DECEMBER 23, 1998

Client/ Facility #	sco #73	75		Job#:		1800	75	
•	191 First	- Stre	<u>et</u>	Date:		12-23	3-98	
	leasanton, C	Α		Sample	er:	Frank	e clir	<u> </u>
Well ID	mw-1	Wel	l Condition	:	Oka	<del>}</del>	<del></del>	
Well Diameter	<u> 2''</u>	•	rocarbon	a		Amount Bai		(gai.)
Total Depth	86.43	Vo	kness: _	2" = 0.17		product/wate 3" = 0.38		" = 0.66
Depth to Water	86.02 #	Fa	tor (VF)		6" = 1.5	<del></del>		
	>	VF	=	X 3 (case vol	luma) = E	stimated Pur	ge Volume:	<u>[gal ]</u>
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:			mpling uipment: Of	Baile Pres Grat	osable Bail er sure Bailer o Sample		
Starting Time:			Weather	Conditions	:			
Sampling Time:							Odor:	
<del>-</del> -	e:							
Did well de-wate	r?		If yes; T	îme:		volume	:	1081
Time \	/olume pH (gal.)		ductivity hos/cm	Tempera		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		_/_			<u> </u>			
	/_				 			
CAMBICIB	(#) CONTAINED	LABOI	RATORY IN	IFORMATI	ON LABOR	ATORY	ANAL	YSES
SAMPLE ID	(#) - CONTAINER	REFRIG.	He		SEQUE			
MW-	YUR							
			<u> </u>				· · · · · · · · · · · · · · · · · · ·	
001115170	Ma	MITOR	L 04	د ۲				
COMMENTS: _		17. 10.						

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(44,455)	91 Fin							_	
0 1	<del></del> -		tree	<u>t</u>	Date:		12-2	3-98	
	<u>casanton</u>	, cA			Sampl	er:	Fran	k cli	<u></u>
Weil ID	<u> μω-2</u>	_	Weil (	Condition	1:		eary		,
Vell Diameter	<u> </u>	în_		carbon ness:	Ð	in_	Amount Ba (product/wat	L	<u> (gal.)</u>
Total Depth Depth to Water	82.59		Volu		2" = 0.1		3" = 0.38 50	12° = 5.80	4" = 0.66
· · · •		× VF		<b>-</b>	X3 (case v	volume) =	Estimated Pu	rge Volume:	(gal.)
Purge Equipment:	Disposable I Bailer Stack Suction Grundfos Other:				mpling uipment:	Bai Pre Gra	posable Ba ler ssure Baile ab Sample	r	
Starting Time:			v	Veather	Condition	ıs:			
Sampling Time:									
Purging Flow Rate	:	gpm.					<u>.                                    </u>		
Did well de-water	7	-	i	f yes;	Time:	<del></del>	Volum	e:	(gal_
	ST)	рH	Condu µmhe		Tempe	rature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
			<u>Z</u>						
					/				
CAMPI S ID	(#) - CONTAI	NFR R	LABORA		NFORMA V. TYPE		RATORY	ANA	ALYSES
SAMPLE ID	VOA	1	Ψ <u></u>	He		SEQ	O+A		
	<del></del>								
001115170	1	Non	ITOR	01	J L Y		<u></u>		
COMMENTS:				<u> </u>					

Client/ Facility # To	<u>sco</u>	#73	75		Job#:		1800	75	
		First	_	<u>et</u>	Date:	-	12-2	3-98	
_	Lasan	ton, Cl	<del>2</del>		Samp	ler:	Fran	k Cli	76
Well ID	_mui	- 3	Well	Conditio	n:	Ota	7		
Well Diameter	<u> </u>	in_	•	rocarbon kness: _	A	in.	Amount Ba	_	- (cal.)
Total Depth	94	. 11		ume	2" = 0.1		3" = 0.38		4" = 0.66
Depth to Water	_83	.28 *		tor (VF)			L.50 		
		×	VF	a	X 3 (case v	rolume) =	Estimated Po	irge Volume:	igal.)
Purge Equipment:	Bailer Stack Suction Grundfo				ampling quipment:	Ba Pr G	sposable Ba ailer essure Baile rab Sample	er	
Starting Time:									
Sampling Time:									
Purging Flow Rate									
Did well de-water	r?			If yes;	Time:	<del></del> .	voluit	ię:	(gal.
	olume (gal.)	рН		luctivity hos/cm	Tempe	rature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
				_	,				
						_			
	<del>-</del>								
SAMPLE ID	(#) - CO	NTAINER	LABOF REFRIG.	RATORY I	NFORMA V. TYPE		DRATORY	ANA	LYSES
MW-		o A	Y	He		SEQ	νοι <b>Α</b>		
				· —			<del> </del>		
						<u> </u>		<b></b>	
	<u></u>								
COMMENTS: _	<u>.</u>	VVQ	UITOR	_ 00	1 F 7			<u> </u>	
<del></del>		<u></u>							

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	sco #73		_ Job#		1800		
Addiess	leasanton, C		Date Samp			Cline	<u> </u>
Well ID	<u>μω-4</u>	Well C	ondition:		okay.		
Well Diameter	<u>2</u> '' in.	Hydrod Thickn			Amount Baile product/water	(mate	(gal.)
Total Depth Depth to Water	93.01 4		ne 2" = 0	).17 6" = 1.5	3" = 0.38 0	4" : [2" = 5.80	= 0.66
Departo Water			X3 (case	a volume) = E	stimated Purg	e Volume:	<u>(gal.)</u>
Purge Equipment:	Disposable Baile Bailer Stack Suction Grundfos Other:		Sampling Equipmen	Bail Pres Gra	oosable Baile er ssure Bailer b Sample	er	
Starting Time:			Veather Condition				
Sampling Time:			Vater Color:		-	Odor:	
_	te: er?		ediment Descri f yes; Time: _				(gal
Time	Volume pH (gal)	Condu µmho		perature LF	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER	LABORA	TORY INFORM		RATORY	ANALY	rses
mw-	VOA	7	HCE	SEQU	a:A		
COMMENTS:	V	NONITO	R ONL	<u>- Y</u>		<u> </u>	

	sco #73		Job#:		2 75	
ddress:4	191 Firs+	Street	Date:		3-98	
ity: <i>P</i>	leasanton, C.	9	Sampler:	Fran	k Cli	16
Well ID	MW-5	Well Conditi		Kay		·
/ell Diameter	<u>2''</u> in_	Hydrocarbot Thickness:	0.50 in	Amount Ba		e) (gal.)
otal Depth	72.52	Volume	2" = 0.17		3 4 12° = 5.80	r = 0.66
epth to Water	68.42,	Factor (VF)		<b>= 1.50</b>	12 = 3.80	
	x	VF =	_ X 3 (case volum	a) = Estimated Pt	urge Volume: _	(gal.)
Purge quipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipment: Othe	Disposable Ba Bailer Pressure Baile Grab Sample r:	er	. 4.4
Starting Time:		Weath	er Conditions:			
Sampling Time:			Color:			
	e:	•	ent Description:			
Did well de-wate	r?	lf yes;	Time:	Volum	ne:	
Time \	Folume pH (gal.)	Conductivity	Temperatur	(mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER		( INFORMATION ERV. TYPE L	ABORATORY	ANA	LYSES
mw-	YOA	Y	56	QUOTA		
	ıMa.	VITOR O	NLY			

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Client/ Facility #					Job#:		1800	_	
Address:4	191 Fi	rst S	treet		Date:		13-3	-3-98	
_	leasan	ton (	<u>A</u>	- <del></del>	Sample		Frank	Cline	<u> </u>
Weil ID	_mω.		Well	Condition	: <del>*</del>	OK	ay_		
Well Diameter		( in_	-	ocarbon kness:			Amount Ba (product/wat		(gal_)
Total Depth	86.8 80.8		Vol	ume tor (VF)	2" = 0.1		3" = 0.38		' = 0.66
Depth to Water		05 X V			X 3 (case v	olume) =	Estimated Pu	irge Volume:	3 ./ <sub>(gal.)</sub>
Purge Equipment:	Bailer Stack Suction Grundfos		_		uipment:	Bai Pre Gra	posable Ba ler ssure Baile lb Sample	ır	
Starting Time: Sampling Time:	11:4	5		Weather Water Co				Odor: No	se_
Purging Flow Ra			L -					ne:	
Time	Volume (gal.)	рН		luctivity nos/cm	Temper	rature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
17 25 -	$\frac{1}{2}$	6.42		36 32 34	_18 . _/9 . _/9.	1 2 0			
SAMPLE ID	(#) - CONT	'AINFR	LABOF	RATORY I			RATORY	ANAL	YSES
MW-6	3 x V		Y	He		SEQU	101A	TPHG/BHO)	MTBE
COMMENTS:	* we	u loca	1 terl	ں ہوگ	n gra	avel	- tou	rd wit	-h
met	al De	tecto	<u>, C</u>						

lient/ acility #	sco #73	75	J	ob#:	1800	_	
	191 First		<u>*</u> c	ate:	12-73	-98	
	leasanton, C	<del>A</del>	S	ampler:	Frank	- Clin	
Well ID	mw-7	Weil C	Condition:		okay		·
Vell Diameter	<u> 2'' in</u>	•	carbon ness:	. <del></del>	Amount Bail (product/water		<u> (gal.)</u>
Total Depth Depth to Water	76.90 fr 64.82 fr	Volu		2" = 0.17 6" = 1	3" = 0.38		" = 0.66
epul to viate.	×	VF :	x 3	(case volume) =	Estimated Purg	je Volume: _	(gal_)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Samp Equip	ment: Di: Ba Pri Gr	sposable Bail iler essure Bailer ab Sample		. 187
Starting Time:			Veather Co				
Sampling Time:				:			
Purging Flow Rat	e:	pm. S	Sediment D	escription: _			· · · · · · · · · · · · · · · · · · ·
Did well de-wate	r?	I	f yes; Tim	ie:	Volume	l:	TCM_
	Volume pH (gal.)		activity os/cm	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		LABOR	ATORY INF	ORMATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. T	YPE LABO	DRATORY	ANAI	LYSES
MW=	YOA	Ψ	HCC	750			
COMMENTS: _	W	lon 170	R 0	NLY			
				-			

Address:	Client/ Facility #	sco #73	75		Job#:	1800	75	<del></del>
Well ID MW - 8  Well Condition: OK-GCY  Well Diameter 2' in Hydrocarbon Thickness: in [preductiweten]: 1 [qel]  Total Depth Robert Ractor (VF) 2' = 0.17   3' = 0.33   2' = 0.66   X VF = X3 (case volume) = Estimated Purge Volume: [qel]  X VF = X3 (case volume) = Estimated Purge Volume: [qel]  X VF = X3 (case volume) = Estimated Purge Volume: [qel]  X VF = X3 (case volume) = Estimated Purge Volume: [qel]  X VF = X3 (case volume) = Estimated Purge Volume: [qel]  X VF = X3 (case volume) = Estimated Purge Volume: [qel]  Stack Suction Racing Equipment: Disposable Bailer Bailer Fressure Bailer Grab Sample Other: [qel]  Starting Time: Weather Conditions: [qel]  Starting Time: [qel]  Starti	ă l		_	et !	Date:	12-2	3-98	<u>.                                    </u>
Well Diameter    Red		leasanton, (	:A	:	Sampler:	Fran	k clin	e
Total Depth 86.40 fr.  Depth to Water	Weil ID	mw-8	. Well	Condition:		Kay		
Total Depth	Well Diameter	<u>2 ''in</u>	•		A :		- A	. (cel \
Depth to Water	Total Depth	86.40 #						
Purga Disposable Bailer Equipment: Disposable Bailer Bailer Stack Bailer Fressure Bailer Grundfos Grab Sample Other:  Starting Time: Weather Conditions:  Sampling Time: Water Color: Odor:  Purging Flow Rate: gpm. Sediment Description:  Did well de-water? If yes; Time: Volume: Ligal  Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (gal.)  LABORATORY INFORMATION  SAMPLE ID (3) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES	Depth to Water	70.03,						<u></u>
Equipment: Bailer Equipment: Disposable Bailer Bailer Stack Bailer Pressure Bailer Grundfos Grab Sample Other:  Starting Time: Weather Conditions:  Sampling Time: Water Color: Odor:  Purging Flow Rate:			x vf	= x	3 (case volume) =	Estimated Pur	ge Voluma:	(gal.)
Sampling Time:    Water Color:   Odor:	-	Bailer Stack Suction Grundfos			oment: Di Ba Pr Gr	iler essure Bailer ab Sample		. 445
Purging Flow Rate:	Starting Time:			Weather Co	onditions: _			
Did well de-water?  Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (gal.) (mV) (ppm)  LABORATORY INFORMATION  SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES	Sampling Time:		<del></del>					
Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (gal.)  LABORATORY INFORMATION  SAMPLE ID (1) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  HC JERUSHA  ANALYSES	Purging Flow Rat	te:	gpm.					
LABORATORY INFORMATION  SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  HCL SEQUENA	Did well de-wate	er?	<del></del>	If yes; Tin	ne:	Volume	:	(gal.
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  WW HCL SEQUOIA	Time \	<del>-</del>		•				. •
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  WW YOA Y HCL SEQUENA				<u> </u>				
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  WW YOA Y HCL SEQUOIA				· ·				-
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES  WW YOA Y HCL SEQUOIA								
	SAMPLE ID	(#) - CONTAINER				RATORY	ANAL	YSES
COMMENTS: MONITOR ONLY	MW	VOA	Υ	HCL	. ∫€Q	OIA		
COMMENTS: MONITOR ONLY								
COMMENTO:	COMMENTS		Mari	70 B	ONLY			
	COMMENTS: -							

TOSO Troco Markeling 2000 Care Carpo East Reston, Cast	CO	Cone	Faoil iultant Pr iultant Hi Iddroso J	ity Addre roject Nu ome <u>Gr</u> 6747 S	419 mber 1 ettler Sierra Name) I	SCO (UNOC 1 First S 80075.85 -Ryan Inc 1 Court, S Deanna L. 0-551-755	treet . (G Guite Hard:	-R In	easar 	n, CA	_945 <i>f</i>	1 S.A.   1	Laboratoi Loboratoi Samples Colleotlor	ry Nami ry Relea Collecte n Date :	(Name) (Phane Sec se Numl	)( quo1£ per ame)_	(510) 1 Ana	277- 1yt1	-2321 ca1	98	12534
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcool	Type G = Grab C = Composite D = Macrete	Тгл∙	Sample Preservation	load (Yes or No.)	TPH Gas + BTEX W/MTBE (8016) (8020)	TPH Dicasi (8015)	Oil and Grease (5520)	Purpeable Halocarbons (8010)	Purgeable Aromatics (8020)	T	gyica	Metals CACPEZANI (ICAP or AA)						DO NOT BILL TB-LB ANALYSIS  Remarke
TB-LB		1	w	113	-	the	y	Х													8122023
MW-6		3	W	6	1200	Her	Ý	K					<u> </u>	·	<u> </u>		ļ	-	<del> </del>	ļ	8122024N
Relinquished By			G-	R Inc	. /	Date/Time	ල් Rec	elyed By	_ W	ela,		_ 6	Organization	IV:	/2- pate	/Ilme/ 23 - 7 /Ilme			Turn A	24 45	me (Cirole Choloe) Hre. Hre. Doye

Reoleved For Laboratory By (Signature)

Date/Time 12/23/98 1600

Organization

Relinquished By (Signature)

As Contracted

Date/Time

12/23 1600



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Bivd. North, Ste. D Redwood City. CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568

Attention: Deanna Harding

Client Project ID: Sample Matrix: Analysis Method:

First Sample #:

Tosco (Unocal)SS#7376, Pleasanton

Water EPA 5030/8015 Mod./8020

Sampled: Received: Dec 23, 1998 Dec 23, 1998

Reported: Jan 12, 1999

### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

812-2023

Analyte	Reporting Limit $\mu g/L$	Sample I.D. 812-2023 TB-LB	Sample I.D. 812-2024 MW-6	 
Purgeable Hydrocarbons	50	N.D.	120	
Benzene	0.50	N.D.	1.1	
Toluene	0.50	N.D.	N.D.	
Ethyl Benzene	0.50	N.D.	N.D.	
Total Xylenes	0.50	N.D.	0.78	
MTBE	2.5	N.D.	25	
Chromatogram Pa	ttern:		Unidentified Hydrocarbons C6 - C9	

**Quality Control Data** 

Report Limit Multiplication Factor: 1.0 1.0

Date Analyzed: 1/1/99 1/1/99

Instrument Identification: HP-9 HP-9

Surrogate Recovery, %: 97 104
(QC Limits = 70-130%)

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin 6747 Sierra Court, Suite J

Dublin, CA 94568

Attention: Deanna Harding

Tosco (Unocal)SS#7376, Pleasanton Client Project ID:

Matrix: Liquid

QC Sample Group: 8122023-024

Reported:

Jan 12, 1999

#### QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	
MS/MSD					
Batch#:	8122026	8122026	8122026	8122026	
Date Prepared:	1/1/99	1/1/99	1/1/99	1/1/99	
Date Analyzed:	1/1/99	1/1/99	1/1/99	1/1/99	
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	
Matrix Spike					
% Recovery:	111	107	112	117	
Matrix Spike					
Duplicate %					
Recovery:	111	102	112	118	
Relative %					
Difference:	0.0	4.8	0.0	1.4	
Billerende.	0.0	4,0	0.0	•••	
LCS Batch#:	9LCS010199	9LCS010199	9LCS010199	9LCS010199	
Date Prepared:	1/1/99	1/1/99	1/1/99	1/1/99	
Date Analyzed:	1/1/99	1/1/99	1/1/99	1/1/99	
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	
1.00.01					
LCS %			<del>.</del>	400	
Recovery:	110	115	115	122	
% Recovery			<del></del>		
Control Limits:	70-130	70-130	70-130	70-130	

SEQUOIA ANALYTICAL, #1271

Julianne Fegley Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

## TOSCO (UNOCAL) SS#7376 PLEASANTON, CA

MONITORING & SAMPLING EVENT OF JANUARY 23, 1999

Client/ Facility #	Unocal / Tose	c/# 7.	37 <i>6</i> Jo	b#: _		<del>800075</del>	180075
Address:	4191 First	51nect		ate:		1-23-79	
City:	Plesanien	CU		impler: _		FM	<del></del>
Weil ID	NW-62	w	ell Condition:		leay		
Well Diameter	2'' 86,85 <del>-7446'</del>		ydrocarbon	<i>—</i> in.			
Total Depth	86,80	#		= 0.17	(product/v	<u> </u>	(gs
Depth to Water	80.68		Factor (VF)		3" = 0. : I_50	12" = 5.80	4" = 0.66
	6.17	x vf <u>0,1</u>	7 = 1.05 x 3 to	ese volume)	= Estimated	Purge Volume:	315 loai
Purge _	Disposable Ba	-	Samplin				
Equipment:	Bailer		Equipme	int: C	isposable E	Bailer	- **
	Stack Suction				ailer		
	Grundfos				ressure Bail irab Sample		
	Other:	<del></del>					
Starting Time:	1703		Weather Condi		clear	cal	
Sampling Time:			Water Color: _	uons: _	<u> </u>	COUTING	/
Purging Flow Ra		_apm.	Sediment Desc				cne
Did well de-wat	ter? No	<del></del>	If yes; Time:	-			[gal
_	_		•				
Time	Volume pH (gal.)		ductivity Ten thos/cm	iperature	D.O.	ORP	Alkalinity
1755	1 6.58			جر د ر. ک	. (mg/L)	(mV)	(bbw)
1740 -	2 6.40			,3	<del></del>	·	
17 <u>65</u> 1715 1715	3 6.42						<del></del>
			71	<u> </u>		<del></del>	
			<del></del>				
							<del></del>
		1400		,	<del></del>		
SAMPLE ID	(#) - CONTAINER	REFRIG.	RATORY INFORM PRESERV. TYPE		RATORY	431415	10°0
nrw-	YOA	Y	-110	SEQU		ANALY	555
MW.C	2× hur	y	None	SIEC	- 17	TPH DIE	. /
			- 1	1			
·							
COMMENTS: _							<u></u>

9/87-floidst.fm

TOSCO Tosco Medicing Company 2005 Cone Copyon Ft. San. 430 San Franco, Caldenile 94343		Con	Consultant Project Number 180075.85 Laboratory Name Sequoia Analytical												19 potencia i						
Sample Number	Lab Sample Number	Number of Contoiners	Motic S = Soli A = Ar X = Water C = Characel	Type C = Grab C = Composite D = Clearste	ĺ	Sample Preservation	land (Yes or No.)	TPH Gat 8TEX WANTBE (8016)	7PH Diese. (8015)	Oil and Gream (5520)	Purpedie Holocarbons (8010)	Purpeoble Arometics			HATELS CACAPAZANI OF						DO NOT E TB-LB ANA NO TG
TB-LB																٠					*5 DAY
MW-6		2	ii1	6	1713	Mone.	7		X	-			<u> </u>		ļ. 		901	154	15 f	B	
	<del> </del>	-	<del>                                     </del>										-						<del> </del>	-	
					}		,									-	-		-	-	
·	_		و غير در	**		<u> </u>												<del>                                     </del>		<del>                                     </del>	
·													1							<u> </u>	
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•	<del></del>				·									·		·			<b> </b>		
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-	<u>.</u>	-							<del></del>		1			·						<u> </u>	<del> </del>
Relinquished by (				nizotion R Inc.	00	rte/Time 2.549/08	Rece	Ned By		ure)			Organizati G – 12		1	/Ilme d	_	· · · · ·	lum Ard		me (Cirole Choloe)

DO NOT BILL TB-LB ANALYSIS NO T.B incl.

24 Hru.

45 Hre.

6 Days

10 Days

As Contracted

5 DAY TAT

Dole/Ilme OBioo Dote/Time 1040 Received By (Signature) ---Relinquished By (Signature) Organization Organization July Weber G-RINC. 1/25/99 1-25-99 Date/Time 1/25/49 1200 Rollinguished By (Signature) Organization Recleved For Laboratory By (Signature) Date/Time



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

D,

(650) 364-9600 (925) 988-9600 (916) 921-9600

2071) 792] (1865)

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Gettler-Ryan - Dublin

Client Project ID: Sample Matrix:

Tosco (Unocal) SS#7376\Pleasanto Water

FEB O Reported:

Jan 23, 1999)

6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding

Chromatogram Pattern:

Analysis Method: First Sample #:

EPA 3510/8015 Mod. 901-1545

Sampled:

Jan 25, 1999® Feb 3, 1999

GETTLER-RYAN INC TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS TRACTORS

Analyte	Reporting Limit μg/L	<b>Sample</b> I.D. 901-1545 MW-6	
Extractable Hydrocarbons	50	N.D.	

**Quality Control Data** 

Report Limit Multiplication Factor:

1.0

Date Extracted:

1/28/99

Date Analyzed:

1/28/99

Instrument Identification:

HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley Project Manager



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Gettler-Ryan - Dublin 6747 Sierra Court, Suite J Dublin, CA 94568 Attention: Deanna Harding

Client Project ID: Tosco (Unocal) SS#7376, Pleasanton

Matrix: Liquid

QC Sample Group: 901-1545

Reported:

Feb 3, 1999

## QUALITY CONTROL DATA REPORT

ANALYTE Diesel Method: EPA 8015M.

MS/MSD

Analyst:

Batch#:

BLK012899

K. Grubb

Date Prepared: Date Analyzed: 1/28/99

Instrument I.D.#:

1/28/99 HP-3A

Conc. Spiked:

500 μg/L

Matrix Spike

% Recovery:

94

Matrix Spike **Duplicate %** 

Recovery:

100

Relative %

Difference:

6.2

LCS Batch#:

LCS012899

Date Prepared: Date Analyzed:

1/28/99 1/28/99

Instrument I.D.#:

НР-ЗА

LCS %

Recovery:

88

% Recovery

Control Limits:

60-140

SEQUOIA ANALYTICAL, #1271

ิ ชน์lianne Fegley Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.