



October 19, 1999 Project 311-038.1A 505 5TIB 1747

Mr. John Jang Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Re: 76 Service Station 5430 Quarterly Summary Report Third Quarter 1999

Dear Mr. Jang:

As directed by Mr. David DeWitt of Tosco Marketing Company, IT Corporation, formerly Pacific Environmental Group, Inc.(PEG), is forwarding the quarterly summary report for the following location:

Service Station

Location

5430

1935 Washington Avenue, San Leandro

If you have questions or comments, please do not hesitate to contact our office at (408) 453-7300.

Sincerely,

IT Corporation

Timothy L. Ripp

Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company

Mr. Kevin Tinsley, Alameda County Environmental Health Care Services

Quarterly Summary Report Third Quarter 1999

76 Service Station 5430 1935 Washington Avenue at Castro Street San Leandro, California

County STID #: 1747 County: Alameda

BACKGROUND

Unocal files suggest that a product line leak occurred in June 1976, and that one of the original underground gasoline storage tanks failed a precision test in October 1981. In December 1981, the two original steel gasoline storage tanks were replaced with two fiberglass gasoline storage tanks. There are currently six on-site groundwater monitoring wells and one off-site groundwater monitoring well in use at the site. In July 1997, three off-site exploratory borings were drilled on the property to the south of the 76 station. Based on the findings of that investigation, the lateral extent of hydrocarbon impact to groundwater is considered delineated. The product dispensers and associated underground product piping were replaced in July and August 1998. The underground waste oil storage tank was also removed and replaced with an aboveground waste oil storage tank.

RECENT QUARTER ACTIVITIES

A report was submitted in August 1999 to document the semi-annual groundwater monitoring and sampling activities performed in June 1999.

NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities will be performed in December 1999.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? Yes.

Free product delineated? Not applicable.

Amount of groundwater contaminant recovered this quarter? None.

Soil remediation in progress? Not applicable.

Anticipated start date? Not applicable.

Anticipated completion date? Not applicable.

Dissolved/free product remediation in progress? No.

Anticipated start? Unknown.

Anticipated completion? Unknown.

CONSULTANT: IT Corporation



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EMPROTECTION

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January 20, 1999 Project 311-038.1A

AN TO COMPANY

Mr. John Jang Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Re: 76 Service Station 5430

Quarterly Summary Report

Fourth Quarter 1998

Dear Mr. Jang:

As directed by Mr. David DeWitt of Tosco Marketing Company, Pacific Environmental Group, Inc. is forwarding the quarterly summary report for the following location:

Service Station

Location

5430

1935 Washington Avenue, San Leandro

If you have questions or comments, please do not hesitate to contact our office at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.

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Timothy L. Ripp

Project Geologist

Enclosure

cc: Mr. David DeWitt, Tosco Marketing Company

Mr. Kevin Tinsley, Alameda County Environmental Health Care Services

Quarterly Summary Report Fourth Quarter 1998

76 Service Station 5430 1935 Washington Avenue at Castro Street San Leandro, California

County STID #: 1747 County: Alameda

BACKGROUND

Unocal files suggest that a product line leak occurred in June 1976, and that one of the original underground gasoline storage tanks failed a precision test in October 1981. In December 1981, the two original steel gasoline storage tanks were replaced with two fiberglass gasoline storage tanks. There are currently six on-site groundwater monitoring wells and one off-site groundwater monitoring well in use at the site. In July 1997, three off-site exploratory borings were drilled on the property to the south of the 76 station. Based on the findings of that investigation, the lateral extent of hydrocarbon impact to groundwater is considered delineated. The product dispensers and associated underground product piping were replaced in July and August 1998. The underground waste oil storage tank was also removed and replaced with an aboveground waste oil storage tank.

RECENT QUARTER ACTIVITIES

Well U-6, which had been paved over during product piping replacement activities in August 1998, was located and repaired in November 1998. The report documenting the September 1998 semiannual groundwater monitoring and sampling activities was submitted in November 1998.

NEXT QUARTER ACTIVITIES

Semi-annual groundwater monitoring and sampling activities will be performed in March 1999.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? Yes.

Free product delineated? Not applicable.

Amount of groundwater contaminant recovered this quarter? None.

Soil remediation in progress? Not applicable.

Anticipated start date? Not applicable.

Anticipated completion date? Not applicable.

Dissolved/free product remediation in progress? No.

Anticipated start? Unknown.

Anticipated completion? Unknown.

CONSULTANT: PEG/IT

October 7, 1999 G-R Job #180107

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

RE: Semi-Annual 1999 Groundwater Monitoring & Sampling Report

Tosco (Unocal) Service Station #5430

1935 Washington Avenue San Leandro, California

Dear Mr. De Witt:

This report documents the semi-annual groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On September 7, 1999, field personnel monitored and sampled seven wells (U-1 through U-7) at the above referenced site.

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

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Table 1, and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding Project Coordinator

Stephen J. Carter

Senior Geologist, R.G. No. 5577

Figure 1: Potentiometric Map

Figure 2: Concentration Map

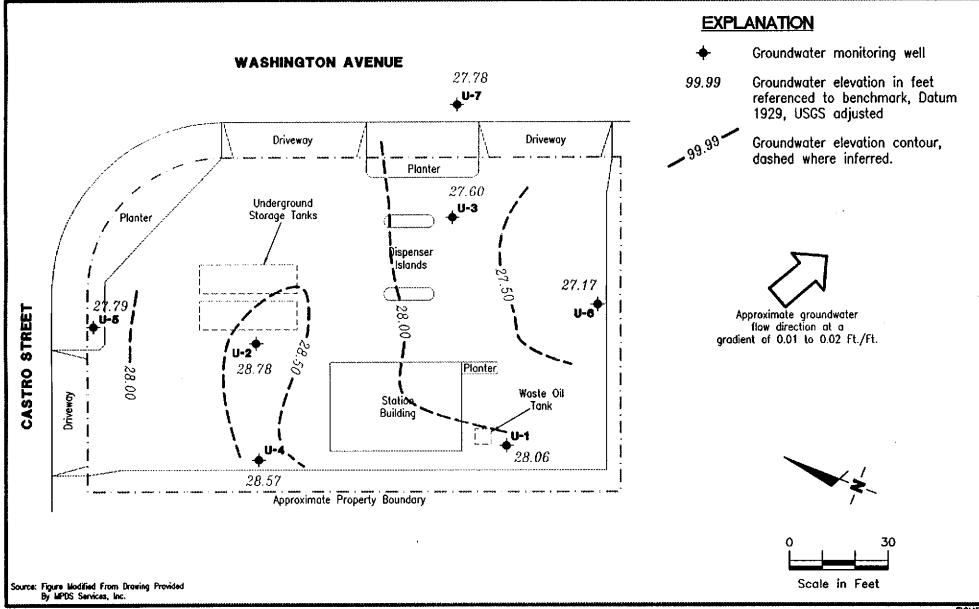
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

No. 5577

5430.qml



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Ryan Inc. Gettler -

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

(925) 551-7555

POTENTIOMETRIC MAP Tosco (Unocal) Service Station No. 5430 1935 Washington Avenue

San Leandro, California

DATE

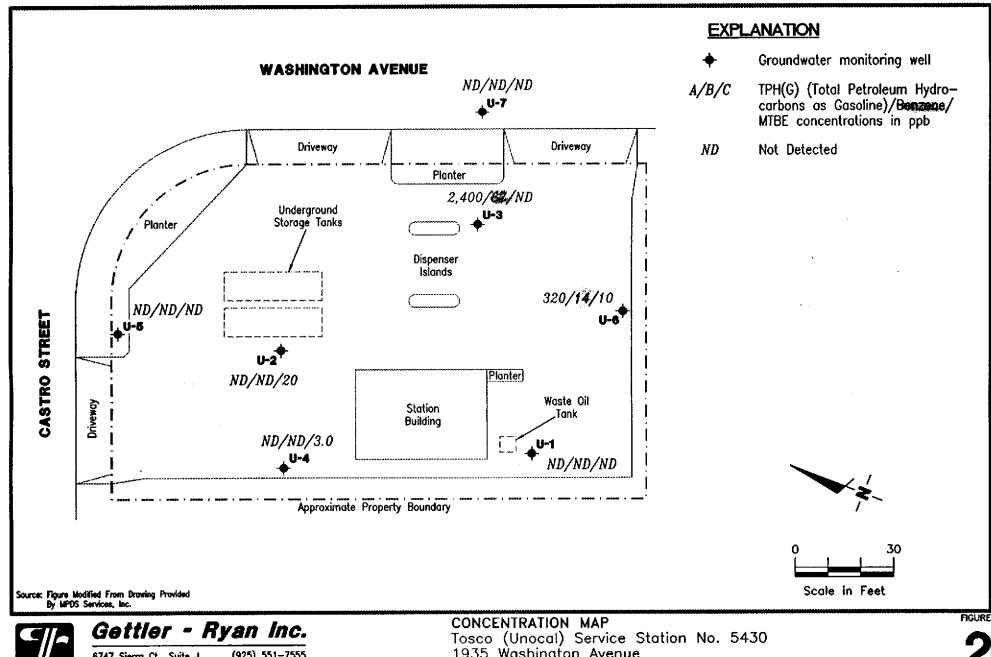
FIGURE

JOB NUMBER 180107

REVIEWED BY

September 7, 1999

REVISED DATE



6747 Sierra Ct., Suite J Dublin, CA 94568

(925) 551-7555

1935 Washington Avenue

San Leandro, California DATE

REVISED DATE

JOB NUMBER 180107

REVIEWED BY

September 7, 1999

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Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5430

1935 Washington Avenue San Leandro, California

Well ID/	Date	DTW	GWE	TPH(D)	TPH(G)	В	Т	E	X	MTBE	1,2-DCB	1,2-DCA
TOC*		(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-1												
56.58	08/13/93 ¹	31.60	24.98	50^{2}	310	0.84	ND	2.6	1.0			
	09/07/93	31.60	24.98									
56.10	12/16/93 ¹	33.19	22.91	130^{3}	ND	ND	ND	ND	ND			
	01/13/94	33.06	23.04									
	02/09/94	32.70	23.40									
	03/25/941	31.07	25.03	57 ³	58	0.63	0.79	ND	0.65		, 	
	05/18/94	31.76	24.34	•-								
	06/19/94 ¹	32.26	23.84	61 ³	51	ND	1.4	ND	2.7		ND	7.4
	07/27/94	33.07	23.03									
	08/18/94	33.50	22.60									
	09/15/941	33.93	22.17	83 ³	ND	0.50	0.85	ND	0.77	***	ND	9.5
	10/11/94	33.25	22.85									
	11/08/94	34.05	22.05									
	12/06/94 ¹	32.37	23.73	ND	ND	ND	ND	ND	ND		ND	5.8
	01/10/95	31.29	24.81									
56.09	03/14/95	27.86	28.23	71 ³	380	20	ND	ND	10			
	06/20/95	28.20	27.89	170 ³	500	50	ND	ND	4.4			
	09/18/95	30.65	25.44	72.00	57	1.2	0.75	0.57	2.2	6		
	12/14/95	32.20	23.89	ND	ND	0.72	1.4	1.2	3.6		ND	3.8
	03/06/96	26.53	29.56	ND	96	4.5	ND	ND	3.7	ND		
	06/04/96	27.43	28.66	170^{3}	410	48	ND	3.4	7.9	ND		
	09/06/96	30.25	25.84	ND	ND	ND	ND	ND	ND	ND		
	03/08/97	26.03	30.06		ND	ND	ND	ND	ND	ND	ND	43
	09/04/97	31.56	24.53		ND _	ND	ND	ND	ND	ND	ND	4.5
	03/09/98	20.63	35.46		ND	ND	ND	ND	ND	ND	ND	ND
	09/01/98	27.82	28.27		ND	0.59	ND	ND	ND	3.1	ND	8.9
	03/02/99	26.83	29.26		ND	ND	ND	ND	ND	ND	ND	4.5
	09/07/99	28.03	28.06		ND	ND	ND	ND	ND	ND	ND	ND

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Table 1
Groundwater Monitoring Data and Analytical Results

Well ID/	Date	DTW	GWE	TPH(D)	TPH(G)	В	T	E	X	MTBE	1,2-DCB	1,2-DCA
TOC*		(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-2												
55.77	08/13/93	30.87	24.90		1,400	ND	ND	ND	ND			
	09/07/93	30.87	24.90		, 							
55.27	12/16/93	32.19	23.08		330	1.7	ND	11	8.5			
	01/13/94	32.13	23.14									
	02/09/94	33.50	21.77									
	03/25/94	30.09	25,18		130	0.70	0.78	0.65	0.64		.ND	11
(D)	03/25/94										ND	ND
` ,	05/18/94	30.73	24,54		44							
	06/19/94	31.31	23.96		180 ⁴	ND	ND	ND	0.86		ND	0.54
	07/27/94	32.12	23.15			~ -						
	08/18/94	32.50	22.77									
	09/15/94	33.00	22.27		1,000 ⁵	44	ND	ND	ND		ND	0.66
	10/11/94	32.35	22.92									
	11/08/94	33.09	22.18									
	12/06/94	31.44	23.83		250	19	ND	ND	ND		ND	ND
	01/10/95	30.25	25.02			~ ⊬						
55.29	03/14/95	26.36	28.93		89	ND	ND	ND	1.2			
	06/20/95	26.74	28.55		ND	ND	0.58	ND	1.7			
	09/18/95	29.65	25.64		ND	ND	ND	ND	0.85	6		
	12/14/95	31.10	24.19		ND	ND	0.89	ND	2.0	7	ND	ND
	03/06/96	25.17	30.12		ND	ND	ND	ND	ND	80		
	06/04/96	26.03	29.26		ND	ND	ND	ND	ND	110		
	09/06/96	29.18	26.11		ND	ND	ND	ND	ND	ND		
	03/08/97	24.64	30.65		ND	ND	ND	ND	ND	42		
	09/04/97	30.59	24.70		ND	ND	ND	ND	ND	46		
	03/09/98	19.22	36.07	**	ND	ND	ND	ND	ND	4.4		
	09/01/98	26.40	28.89		ND	ND	ND	ND	ND	25		
	03/02/99	25.48	29.81		ND	ND	ND	ND	ND	16		
	09/07/99	26.51	28.78		ND	ND	ND	ND	ND	20		

Table 1
Groundwater Monitoring Data and Analytical Results

Well ID/	Date	DTW	GWE	TPH(D)	TPH(G)	В	T	E	X	MTBE	1,2-DCB	1,2-DCA
TOC*	. <u></u>	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-3												
55.66	08/13/93	30.70	24.96		23,000	1,000	ND	1,700	1,600			
	09/07/93	30.70	24.96									
55.24	12/16/93	32.08	23.16		15,000	570	ND	940	670			
	01/13/94	31.98	23.26									
	02/09/94	33.82	21.42									
	03/25/94	30.03	25.21		18,000	560	40	1,000	770		ND	480
	05/18/94	30.66	24.58									
	06/19/94	31.19	24.05		17,000	580	ND	1,300	90		ND	410
	07/27/94	31.98	23.26									
	08/18/94	32.39	22.85									
	09/15/94	32.84	22.40		12,000	370	ND	970	610		ND	420
	10/11/94	32.20	23.04									
	11/08/94	33.01	22.23									
	12/06/94	31.34	23.90		17,000	390	ND	990	560		ND	430
	01/10/95	30.23	25.01									
55.23	03/14/95	25.44	29.79		13,000	860	120	1,300	1,700			
	06/20/95	26.70	28.53		9,800	590	ND	800	1,000			
	09/18/95	29.55	25.68		9,800	600	ND	1,000	760	6		**
	12/14/95	31.02	24.21		10,000	520	ND	920	630	7	ND	240
	03/06/96	25.25	29.98		19,000	1,400	ND	1,800	3,000	73		
	06/04/96	26.00	29.23		8,800	510	ND	600	830	ND		
	09/06/96	29.06	26.17		15,000	360	20	540	450	ND		
	03/08/97	24.65	30.58		3,500	310	ND	230	630	ND	ND	100
	09/04/97	30.44	24.79		700	27	ND	48	34	ND	ND	160
	03/09/98	19.20	36.03		410	22	1.2	ND^9	6.1	24	ND	4.4
	09/01/98	26.33	28.90		ND	ND	ND	ND	ND	6.1	ND	ND
	03/02/99	25.50	29.73		2,100	* 110	2.6	ND^9	240	39	ND	6.7
	09/07/99 ¹³	27.63	27.60	_	2,40012		ND ⁹	150	150	ND ⁹	ND	1.1
U-4		26.52	30.05		490	3.2	2.1	0.79	1.2	***	ND	ND
55.39	03/14/95	26.52	28.87			ND	ND	0.79 ND	1.5		ND	
	06/20/95	26.90	28.49		ND		ND ND	ND ND	ND	6		
	09/18/95	29.79	25.60		ND	ND ND	0.59	ND ND	0.79	7	ND	ND
	12/14/95	31.23	24.16		ND	ND	0.39	כואו	0.77	*-	1110	1110

Table 1
Groundwater Monitoring Data and Analytical Results

Well ID/	Date	DTW	GWE	TPH(D)	TPH(G)	В	T	E	X	MTBE	1,2-DCB	1,2-DCA
TOC*		(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
U-4	03/06/96	25.30	30.09		ND	ND	ND	ND	0.62	50		
(cont)	06/04/96	26.19	29.20		ND	ND	ND	ND	ND	290		
(/	09/06/96	29.32	26.07		ND	ND	ND	ND	ND	ND		
	03/08/97	24.79	30.60		ND	ND	ND	ND	ND	ND		
	09/04/97	30.71	24.68		ND	ND	ND	ND	ND	18		
	03/09/98	19.37	36.02		ND	ND	ND	ND	ND	ND		
	09/01/98	26.56	28.83		ND	ND	ND	ND	ND	ND		
	03/02/99	25.62	29.77		110	0.89	0.53	ND	0.79	4.9		
	09/07/99	26.82	28.57		ND	ND	ND	ND	ND	3.0		
U-5												
54.18	03/14/95	25.20	28.98		ND	ND	ND	ND	1.2		ND	ND
	06/20/95	25.60	28.58		ND	ND	ND	ND	1.6			
	09/18/95	28.55	25.63		ND	ND	ND	ND	0.66			
	12/14/95	29.94	24.24		ND	ND	ND	ND	ND		ND	ND
	03/06/96	24.03	30.15		ND	ND	ND	ND	ND	ND		••
	06/04/96	24.91	29.27		ND	ND	ND	ND	ND	ND		
	09/06/96	28.06	26.12		ND	ND	ND	ND	ND	ND		
	03/08/97	23.49	30.69		ND	ND	ND	ND	ND	ND		
	09/04/97	29.46	24.72		ND	ND	ND	ND	ND	ND		
	03/09/98	18.10	36.08		ND	ND	ND	ND	ND	ND		
	09/01/98	25.27	28.91		ND	ND	ND	ND	ND	ND		
	03/02/99	24.35	29.83		ND	ND	ND	ND	ND	ND		
	09/07/99	26.39	27.79		ND	ND	ND	ND	ND	ND		
U-6												
55.36	03/14/95	26.94	28.42		14,000	170	36	790	1,500		ND	210
	06/20/95	27.15	28.21		8,500	170	11	950	1,300			
	09/18/95	29.95	25.41		9,500	260	ND	1,400	1,800	6		
	12/14/95	31.32	24.04		15,000	240	ND	1,400	1,700	7	ND	370
	03/06/96	25.71	29.65		2,400	54	ND	170	250	ND		
	06/04/96	26.52	28.84		4,600	83	ND	400	520	46		
	09/06/96	29.41	25.95		12,000	180	6.4	690	600	95		
	03/08/97	25.25	30.11		2,000	180	ND	96	290	ND		

Table 1
Groundwater Monitoring Data and Analytical Results

Date D	rw G'	WE TP	H(D)	TPH(G)	В	Т	E	X	MTBE	1,2-DCB	1,2-DCA
		ît.) (p	pb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
				C B0		NIT)	52	39	ND		
				680	17	ND	3.2	140	16		
			++	690	41	8.5	3.2 				
	ESSIBLE (PAVE				240	ND ⁹	650	430	45		
				3,900	240	ND ⁹		ND ⁹	10		
07/99 2.	3.19 27	7.17		32012	14	ND	5.2	ND	10		
										•	
14/95 2	5.13 28	3,92		ND	ND	ND	ND	ND		ND	ND
		3.67		ND	ND	ND	ND	ND			
		5.84		ND	ND	ND	ND	ND			
		1.30		ND	ND	ND	ND	0.88		ND	ND
		9.95	**	ND	ND	ND	ND	ND	ND		
		9.38		ND	ND	ND	ND	ND	ND		
		5.30		ND	ND	ND	ND	ND	ND		
		0.72		ND	ND	ND	ND	ND	ND	ND	ND
		1.89		ND	ND	ND	ND	ND	ND	ND	ND
		5.14		ND	ND	ND	ND	ND	ND	ND	ND
		9.01		88	ND	ND	ND	ND	2.9	ND	ND
02/99 ¹¹ 2	5.30 29	9.75		ND	ND	ND	ND	ND	ND	ND	ND
/07/99 2	7.27 2	7.78		ND	ND	ND	ND	ND	ND	ND	ND
/09/98				ND	ND	0.53	ND	ND	ND		
/01/98				ND	ND	ND	ND	ND	5.0		
	••			ND	ND	ND	ND	ND	ND		
/07/99	_			ND	ND	ND	ND	ND	ND		-
/02/99	-	.	. 	- 	ND	ND ND	ND ND ND	ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #5430 1935 Washington Avenue San Leandro, California

EXPLANATIONS:

Groundwater monitoring data and analytical results prior to March 9, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing

B = Benzene

1,2-DCA = 1,2-Dichloroethane

DTW = Depth to Water

T = Toluene

ppb = Parts per billion

(ft.) = Feet

E = Ethylbenzene

ND = Not Detected

GWE = Groundwater Elevation

X = Xylenes

-- = Not Measured/Not Analyzed

TPH(D) = Total Petroleum Hydrocarbons as Diesel

MTBE = Methyl tertiary butyl ether

(D) = Duplicate

TPH(G) = Total Petroleum Hydrocarbons as Gasoline

1.2-DCB = 1.2-Dichlorobenzene

- * TOC elevations were surveyed March 1995, based on Benchmark provided by City of San Leandro, City Engineers Office, Datum 1929, USGS adjusted. Prior to December 16, 1993, the DTW measurements were taken from the top of well covers.
- Total Oil and Grease (TOG) was ND.
- Not a typical diesel pattern; lower boiling hydrocarbons in the boiling range of stoddard calculated as diesel.
- Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 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 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.
- ⁸ Carbon tetrachloride was detected at a concentration of 1.3 ppb.
- 9 Detection limit raised. Refer to analytical reports.
- Carbon tetrachloride was detected at a concentration of 2.0 ppb, and Chloroform was detected at a concentration of 0.60 ppb.
- 11 Carbon tetrachloride was detected at a concentration of 1.2 ppb.
- Laboratory report indicates gasoline C6-C12.
- Bromodichloromethane was detected at 1.4 ppb and Chloroform was detected at 31 ppb. All EPA Method 8010 reanalyzed by an alternate column or method to confirm the identification and/or concentration of these results.

Note: All EPA Method 8010 constituents were ND, except as indicated above.

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.

Client/ Facility <u>54_3</u>			Job#: 180107					
Address: <u>19</u>	35 Washin	gton 1	ve. Date	e: <u>9</u>	-7-99			
City: Sa.	n Leandro	<u>, </u>	San	npler:	Joe			
Well ID	<u>U-1</u>	Wei	l Condition:	o,k	•			
Well Diameter	2 in.	· -	rocarbon		Amount Ba	A 2	(Gallons)	
Total Depth	39.60 tt.		kness:		(product/wat 3" = 0.38	4		
Depth to Water	28.03 ft.	1 -	ctor (VF)	6° = 1	<i>-</i> 50	12" = 5.80		
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		= <u>1.97</u> × 3 (cas Sampling Equipmen	nt: Dis Ba Pre Gr	sposable Bailer essure Baile ab Sample her:	iller :	6 (qal.)	
Sampling Time: Purging Flow Ra	11:00 te:1	apm.	Weather Condit Water Color: Sediment Desc If yes; Time:	cle de c	none	Odor: <u>и</u>	0 x 2	
Time \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Volume pH (gal.) 7.57	Con μπ	ductivity O Ten		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)	
11:10 -	4 752							
			RATORY INFORM					
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	/ LABO	RATORY	ANAL TPH(G)/btex/		
<u>U-1</u>	3 V 0 A 2 V 0 A	1,	HCC .	580001		8010		
COMMENTS:								

9/97-fleldet.!rm

Client/ Facility <u>54</u> 3	· C		Jol	o#:	1801	o 7	
Address: 19	35 Wash	ington Av			9-7-99		
	1 Leandro				Joi		
				ribiei.			
Well ID	U-2	_ Well (Condition:	Ø,	k.		
Well Diameter	2;	<u>n.</u> Hydro	carbon /	}	Amount	Bailed	
Total Depth	39.27	Thickr			t) (product/v	vater):	(Gallons)
Depth to Water	26.51	Volum	nc 2"≃ r(VF) 	· 0.17 ර =	3° = 0. = 1.50	38 12° = 5.80	4" = 0.66
Purge Equipment:	Disposable Bailer Stack Section Grundfos Other:		2.17 x 3 (car Sampling Equipme	nt: (= Estimated Disposable E Bailer Pressure Bai Grab Sample Other:	Bailer	6. [lgal.]
Starting Time: Sampling Time: Purging Flow Rate Did well de-water?		A.V~ Wa	eather Condit ater Color: diment Descr	<u> </u>	your your	Odor: 🚜	· · · · · · · · · · · · · · · · · · ·
Time Vol (g 11:37 2	ume pH al.) 7.63	Conducti	<u> </u>		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID ((#) - CONTAINER		DRY INFORMA RESERV. TYPE /			ANALY	
			rect.	Section.		TPH(G)/btex/m	tbe
COMMENTS:				<u> </u>			

Client/ Facility <u>54</u>	3 <i>c</i>		Jo	ob#: _	1801	07	
Address: 1	735 Wash.	ng ton	Ave. D	ate:	9-7-99	· · · · · · · · · · · · · · · · · · ·	
	n Leandro				Joi		
Well ID	U-3	_ w	ell Condition:	o.k	<u> </u>		
Well Diameter	2;	<u>п.</u> Ну	rdrocarbon ,	3	Amount	Bailed	
Total Depth	38.53	, [ickness: Tolume 2	(feet	1 (product/w		(Gallons
Depth to Water	27.63		actor (VF)		3* = 0.3 1.50	12" = 5.80	₹* = 0.66
Purge	10-9 Disposable Baile		= <u> .85</u> x 3 (c		= Estimated F	'urge Volume: _	5. 5 [gal.
Equipment:	Bailer	•	Equipm	ent: D	isposable B	ailer	•
	Stack Ş uct ion				ailer ressure Bail	er	
	Grundfos			G	irab Sample		
	Other:			C	ther:		
Starting Time: Sampling Time:	12:4		Weather Cond		-		
Purging Flow Rat	e:	lapm.	Sediment Des				
Did well de-wate	r?		If yes; Time:				
	olume pH (gal.) 7.19	μ m	ductivity 100 Te	mperature •F 7/. 8	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	4.5 7.22	6	. 36	12.3			
12:47	5.5 7.21		31	73.0		· 	
		LAROE	RATORY INFOR	NA A TION		· · · · · · · · · · · · · · · · · · ·	
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE		RATORY	ANAL	YSES
U-3	3veA-	Y	HCL.	SEQUOL		TPH(G)/btex/n	ntbe
	2 414	"	,,			801.	
COMMENTS: _							
						 	 -

9/97-flekksClim

Client/ Facility <u>54</u>	30_		_		Jot)#:	1801	o 7	
Address:	1935	Washin	nton	Ave.	Dat	_	9-7-99		
	an Le		7				<u>آ</u> وز		
				_					
Well ID		1-4	We		in: .	o.k			
Well Diameter		2 in.		drocarbon ckness:	$\boldsymbol{\theta}$,	Amount		-
Total Depth	39	1.03 ft.		olume	2" ==	0.17	(product/v 3" = 0		(Gallons)
Depth to Water	2(6.82 ft.		ictor (VF)			1.50	12" = 5.80	4" = 0.66
Purge			F 0.17				= Estimated :	Purge Volume:	6 - 5 [gal.]
Equipment:	Bailer	sable Bailer			mpling uipmer		isposable E	Bailer	•
•	Stack Suction			•	•	B	ailer	•	
	Grund						essure Bai rab Sample		
	Other:						ther:		
		<u>.</u>							
Starting Time:				Weather (Conditi	ons: 🗲	lear		•
Sampling Time:	· <u></u>	12:20P.	w _	Water Co	lor:	. م) ے	<u>a (</u>	Odor:и	012
Purging Flow R	ate:	(_{qp}	<u>m.</u>	Sediment	Descri	ption: _	1012		
Did well de-war	ter?			If yes; T	īme: _		Volu	me:	(qal.)
	Volume (gal.)	pН	Cond µml	luctivity (c)	Temp	erature F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u> </u>	<u>2</u> 4	<u>1.70</u> _7.55		<u>3 8</u>				·	
12:13-			<u>-></u>		$\frac{7}{2}$				
				<u> </u>					
									
SAMPLE ID	(#) - COI		LABORA	ATORY INI PRESERV.			RATORY	ANAL	/SES
U-A	3.	1 = A	Y			SEQUOIA		TPH(G)/btex/n	
							· · · · · · · · · · · · · · · · · · ·	, -,, -,, -,,	
	<u> </u>	l							
COMMENTS:									
									
					-				

Client/ Facility <u>54</u> 3	· c	_		Job#:	1801	n7	
Address: 19	35 Wash.	rator	Ava		9-7-90		
	Leandro						
City.	V DE KRAIT U			Sampler:	<u></u>		
Well ID	U-5	. v	/ell Condition	n:	k.		
Well Diameter	2 in	<u>.</u> H	ydrocarbon	B	Amount	: Baîled	
Total Depth	38.51 h		hickness:		et) (product/v	water):	(Gallons)
Depth to Water	26.39 fr		Volume Factor (VF)	2° = 0.17 6°	3" = 0. = 1.50		4" = 0.66
Purge Equipment:	12.12 x Disposable Bailer		San	ւքնոց		Purge Volume:	6. (qal.)
	Stack Suction Grundfos Other:		Eda		Disposable I Bailer Pressure Bai Grab Sample Other:	iler e	
Starting Time:		12	Weather C	anditions: /	lear		
Sampling Time:		13 A~				Odor: <u>и</u>	2.4.2
Purging Flow Rate	1	<u>aom.</u>					
Did well de-water?						me:	
(g:	me pH al.) 7.38 7.45	μπ 	aductivity of a shosten of the state of the	Temperature 72-3	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID (#) - CONTAINER	REFRIG.		YPE / LAB		ANALY	
U - 5	3404	Y	HCL.	SEQUO	IA	TPH(G)/btex/m	tbe
COMMENTS:							

Client/ Facility <u>54</u>	3 c		Jo	b#: _	1801	07	
Address: 16	135 Wash.	ngton A	ve. Di	ate:	9-7-99		
	n Leandro				Joi		
Well ID	U-6	Well	Condition:	o, k	٠ .		
Well Diameter	2 is	_	rocarbon	3	Amount	Bailed	
Total Depth	40.00		kness: 2		1 (product/w		(Gallons)
Depth to Water	28.19	, , ,	tor (VF)	= 0.17 6 =	3" = 0.3 1.50	12" = 5.80	!" = 0.66
Purge			= <u>Z·8</u> 2x3(c		= Estimated F	Purge Volume: _	6 (gal.)
Equipment:	Bailer		Equipm	ent: D	isposable B	ailer	•
	Stack Suction			_	ailer ressure Bail	er	
	Grundfos Other:				irab Sample Ither:		
Starting Time:	1:0	<u> </u>	Weather Cond	itions: (_	lear		
Sampling Time:	1:30	?.w \	Water Color: _	cle	01	Odor: ""	ા ત ૯
Purging Flow Rat	:e:	<u>apm.</u> 5	Sediment Des	cription: _	VD NE		
Did well de-wate	r?	1	f yes; Time:		Volur	ne:	(.lsp)
	olume pH (gal.) 2 7.10	Condu µmho 		mperature -F 23 /	D.O. (mg/L)		Alkalinity (ppm)
1:17	4 7.12	<u> </u>	50 -	732			
1.101 -	0 7.14		47	72.7			
		- 					
		LARORA	TORY INFORI	MATION			·
SAMPLE 10	(#) - CONTAINER	REFRIG.	PRESERV. TYPE		RATORY	ANALY	/SES
U-6	310A-	Y	HCL	SEQUOI	A	TPH(G)/btex/m	itbe
				_			
				<u> </u>			
COMMENTS		1		1		<u> </u>	
COMMENTS: _	·			·	<u></u>		
							

Client/ Facility <u>54 3</u>	c			Job#:						
Address: 19	35 Wash.	ng ton	Ave. [oate: 4	7-7-99					
City: San				ampler: _						
Well ID	U- 7	. w	ell Condition:	_0, K	_					
Well Diameter	2 in		drocarbon	A	Amount E	سسير				
Total Depth	37.78 ft		ickness:	(feet) = 0.17	(product/wa		(Gallons)			
Depth to Water	27.27 to	1 7	actor (VF)			12" = 5.80	F = 0.00			
Purge Equipment:	Disposable Bailer Bailer Stack Soction Grundfos Other:	-	= <u>1.79</u> x 3 Sampl Equipa	ing nent: Di Bi Pr G	= Estimated Prisposable Bailer ressure Bailer rab Sample ther:	ailer er	5 (5 (gal.)			
Starting Time: Sampling Time: Purging Flow Rate Did well de-water:	:	gom.	Weather Cor Water Color: Sediment De If yes; Time		NONE	Odor:u				
Time Vol	lume pH	Cor μπ	in yes; Time iductivity (2 To 1) shos/cm 4		D.O. (mg/L)	ORP	Alkalinity (ppm)			
9:31	7.60		49 52	73.1						
SAMPLE ID	(#) - CONTAINER 3 V & A- 2 V U A-	LABOI REFRIG. Y	PRESERV. TY	-		ANAL' TPH(G)/btex/n 8010				
COMMENTS:										

	1	T			1111	OCAL CORC	7420							Conta. 1	(Name)	M	11. D	4210	Dev	77 رئ	34	
	1		Fool	illy Numb	41 <u> </u>	OCAL SS#5 WASHING	יא מטן האקטריי	JE e	AN T	EANDD	<u>ω. σ</u>	_	1	vontact	(Phas-1)	9257	277	23 A	4		
1	7					180107.85			······································			_ .	nho - +	y No-	v∈nen•, Sed	uo1a	ı_Ana	lytic	<u>:al</u>			
TOS		Cont	unant Pi	oject Nur		-Ryan Inc	. (C-	·R Tn	c.1			_	aborator	N Releas	ee Numb	ber					1909179)
.03(<u>Court, S</u>				L. CA	_9456	_ L	omel.	College Topleo	d hu Ai	omal	_501	EA.	TEM			
Tooco Markeling 2020 Cron Coryes	Company 174, Sue, 408	,									e===t.l.	_	iamplee Collection	Dat-	- uz (N 9-7	_ 9 0	7					
San Parent, Coll	14543 Airest	1 '	roject C			eanna L. 0-551-755			1510	.551	7888		ilgneture	~~	2054	\mathcal{A}	LL S					
	,	<u></u>		(P.	none) <u>21</u>	<u>135 – ادد – م</u>	دد_اFax	number	<u> </u>		**************************************	ئلتِ				\leftarrow					DC 1122	· ·
ì		١ _ ,	8				!	<u> </u>			 1	- <u>-</u> -	Analyes	oo To B	e Perfor	med	Τ	т		1	DO NOT BI	
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Sol A = Air W = Water C = Charcool	Type G = Grab C = Composite D = Discrete	Ilm•	Sample Preservation	load (Yee or No)	TPH Gat STEX WINTBE (BO16) BO201	TPH Dissel (8015)	Oll and Graces (5520)	Purpeable Halocarbors (B010)	Purpeable Aramatics (8020)	Purpooble Organica (8240)	Extractable Organics (8270)	Hetola C4.Cr.Pb.Zn.Ni (ICAP or AA)						Remarks	~********
TB-LB	OIA	vo 4	W	6	-	нсс	Υ	1										<u> </u>	<u> </u>		ļ	
	OFATE	V.A	′	/	11:20	/	1	~			\ \								<u> .</u>			
U-2		,	,	,	11:00 A.w	, ,	/	7											<u> </u>		<u></u>	
U.3	}	voA.	,	,	12:55	,	,	7			1											
	05A-C	3	/		12:30	· · · · · ·	,			 							1	1		1		
			 	,	10:43	/	,	-				 	 	 	1		1	1	1			
U-6	07 A-C	VOA VOA	,	/	7130	 	,	1			1	 	 	†	1	·	1	1	1	1	1	
U.1	08 A-E		ļ	,	9:45	/	,	1		 	~		†	1		 	1	1	1	<u> </u>		
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telinquished By	(Sloneture)	<u> </u>	L Ome	onization	L	Date/Time 2:33	Read	ph of dy	(Sland	[gr•)	<u></u>	\top) Organizat	lon		<u> </u> •/11m•		 	Turn A	round Ti	ime (Circle Cholce))
- T	\mathfrak{I}		I -	-R Inc		1-7-99		1	1	X	_		StQU	_			1930				4 Hre.	
ielingulehed By	(Sibnature)			anization		Date/Time		HONES BY	y (Slana	tur y)			Organizat	llon	Date	•/Ilm•					8 Hre.	
X	3.				1	8-99 1230		•	M	1		_ [01	se	9	8	1600	7			Doys Doys	
telinguished By	(Signature)	<u> </u>	Org	anization		Date/Time	Red	oleved Fo			-	sture)			Date	e/Time		-		1	ontraoled`	
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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D 1551 Industrial Road Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 San Carlos, CA 94070-4111 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 (650) 232-9600 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

ANALYTICAL REPORT FOR SAMPLES

TB-LB W909179-01 U-2 W909179-03	Water Water Water	07-Sep-99 00:00 07-Sep-99 11:50	07-Sep-99 14:30 07-Sep-99 14:30
U-2 W909179-03		07-Sep-99 11:50	07-Sep-99 14:30
	Water		
U-4 W909179-05	yy alcı	07-Sep-99 12:20	07-Sep-99 14:30
U-1 W909179-02	Water	07-Sep-99 11:20	07-Sep-99 14:30
U-7 W909179-08	Water	07-Sep-99 09:45	07-Sep-99 14:30
U-3 W909179-04	Water	07-Sep-99 12:55	07-Sep-99 14:30
U-5 W909179-06	Water	07-Sep-99 10:43	07-Sep-99 14:30
U-6 W909179-07	Water	07-Sep-99 13:30	07-Sep-99 14:30

Sequoia Analytical - Walnut Creek

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



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDoweil Blvd. North, Ste. D 1551 Industrial Road Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 San Carlos, CA 94070-4111 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 (650) 232-9600 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

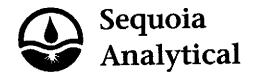
Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

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

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W909179-01) Water	Sampled: 07-Sep-99 00:00	Receive	d: 07-Se	p-99 14:30			<u> </u>		
Purgeable Hydrocarbons	ND	50	ug/l	1	9[14019	11-Sep-99	11-Sep-99	DHS LUFT	
Benzene	ND	0.50	n	. 4		*	#		
Toluene	ND	0.50	#	п	*	**	n		
Ethylbenzene	ND	0.50	H	n	Ħ	н	n	H	
Xylenes (total)	ND	0.50	rŧ	n	n	n	#	н	
Methyl tert-butyl ether	ND	2.5	н	н	н	-	19	n	
Surrogate: a,a,a-Trifluorotolues	ne	96.7%	70-	130	"	r/	*	"	
U-I (W909179-02) Water Sa	mpled: 07-Sep-99 11:20 Re	eceived: (97-Sep-99	9 14:30					
Purgeable Hydrocarbons	ND	50	ug/l	1	9[14019	11-Sep-99	11 - Sep-99	DHS LUFT	
Benzene	ND	0.50	ű	rr	19	n	н	H	
Toluene	ND	0.50	п	n	"	n	ił	**	
Ethylbenzene	ND	0.50	n n	"	н	*	н	•	
Xylenes (total)	ND	0.50	ч	4	и	n .	II	•	
Methyl tert-butyl ether	ND	2.5	u	Ħ		**	II	**	
Surrogate: a,a,a-Trifluorotoluei	ne	96.7%	70-	130	"	"	p	"	
U-2 (W909179-03) Water Sa	mpled: 07-Sep-99 11:50 Re	eceived: (7-Sep-99	14:30					
Purgeable Hydrocarbons	ND	50	ug/l	<u> </u>	9114019	11-Sep-99	11-Sep-99	DHS LUFT	
Benzene	ND	0.50	19	•	li .	**	II .	**	
Toluene	ND	0.50	"	**	"	**			
Ethylbenzene	ND	0.50	n	**	"	**	ц	**	
Xylenes (total)	ND	0.50	tŧ	,,		"	a	**	
Methyl tert-butyl ether	20	2.5	18	••	"	**	"	**	
Surrogate: a,a,a-Trifluorotolue	ne	90.0 %	70-	130	"	**	n	"	

Sequoia Analytical - Walnut Creek

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



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D 1551 Industrial Road Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 San Carlos, CA 94070-4111 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 (650) 232-9600 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Ďublin CA, 94568 Project: Unocal

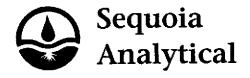
Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

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

Purgeable Hydrocarbons 2400 1000 ug/l 20 9114019 11-Sep-99 11-Sep-99 DHS LUFT	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	U-3 (W909179-04) Water	Sampled: 07-Sep-99 12:55	Received:	07-Sep-99	14:30					P-01
Toluene	Purgeable Hydrocarbons	2400	1000	ug/l	20	9[14019	11-Sep-99	11-Sep-99	DHS LUFT	······································
Surrogate: a,a,a-Trifluorotoluene	Benzene	67	10	n	**	**	•		н	
Methyl tert-butyl ether ND 50 "		ND	10	U.	4	н	#	Ħ	M	
Methyl tert-butyl ether ND 50 " <td>Ethylbenzene</td> <td>150</td> <td>10</td> <td>1)</td> <td></td> <td>И</td> <td>**</td> <td>H</td> <td></td> <td></td>	Ethylbenzene	150	10	1)		И	**	H		
Surrogate: a,a,a-Trifluorotoluene	Xylenes (total)	150	10	"	. *	H	41	n	•	
U-4 (W909179-05) Water Sampled: 07-Sep-99 12:20 Received: 07-Sep-99 14:30 Purgeable Hydrocarbons ND 50 ug/l 1 9114019 11-Sep-99 11-Sep-99 DHS LUFT Benzene ND 0.50 " " " " " " " " " " " Ethylbenzene ND 0.50 " " " " " " " " " " " Ethylbenzene ND 0.50 " " " " " " " " " " " Xylenes (total) ND 0.50 " " " " " " " " " " Surrogate: a,a,a-Trifluorotoluene 96.7% 70-130 " " " " " " " " Benzene ND 50 ug/l 1 9114019 11-Sep-99 11-Sep-99 DHS LUFT Benzene ND 0.50 " " " " " " " " " " Toluene ND 0.50 " " " " " " " " " " " Ethylbenzene ND 0.50 " " " " " " " " " " " " Toluene ND 0.50 " " " " " " " " " " " " Ethylbenzene ND 0.50 " " " " " " " " " " " " " " " Ethylbenzene ND 0.50 " " " " " " " " " " " " " " " " " "	Methyl tert-butyl ether	ND	50	•	-	Ħ	Я	•	Ħ	
Purgeable Hydrocarbons ND 50 ug/l 1 9114019 11-Sep-99 11-Sep-99 DHS LUFT	Surrogate: a,a,a-Trifluoroto	oluene	103 %	70-	130	n	n	"	п	
ND	U-4 (W909179-05) Water	Sampled: 07-Sep-99 12:20	Received:	07-Sep- 99	14:30					
Toluene ND 0.50 " " " " " " " " " " " " " " " " " " "	Purgeable Hydrocarbons	ND	50	ug/l	1	9114019	11-Sep-99	11-Sep-99	DHS LUFT	
Ethylbenzene ND 0.50 " " " " " " " " " " " " " " " " " " "	Benzene	ND	0.50	n	•	If	"	**	11	
Xylenes (total)	Toluene	ND	0.50	11	•	"	н	**	**	
Methyl tert-butyl ether 3.0 2.5 " " " " " " " " " " " " " " " " " " "	Ethylbenzene	ND	0.50	H		p	n	**	19	
Surrogate: a,a,a-Trifluorotoluene 96.7 % 70-130 " <td></td> <td>ND</td> <td>0.50</td> <td>н</td> <td>**</td> <td>n .</td> <td>11</td> <td>**</td> <td>н</td> <td></td>		ND	0.50	н	**	n .	11	**	н	
U-5 (W909179-06) Water Sampled: 07-Sep-99 10:43 Received: 07-Sep-99 14:30 Purgeable Hydrocarbons ND 50 ug/l 1 9114019 11-Sep-99 DHS LUFT Benzene ND 0.50 " " " " " " " " " " Toluene ND 0.50 " " " " " " " " " " " " " " " " " " "	Methyl tert-butyl ether	3.0	2.5	ιτ	**	II .	"	*	н	
Purgeable Hydrocarbons ND 50 ug/l 1 9114019 11-Sep-99 11-Sep-99 DHS LUFT Benzene ND 0.50 "	Surrogate: a,a,a-Trifluoroto	oluene	96.7%	70-	130	"	"	"	"	
Benzene ND 0.50 " <th< td=""><td>U-5 (W909179-06) Water</td><td>Sampled: 07-Sep-99 10:43</td><td>Received:</td><td>07-Sep-99</td><td>14:30</td><td></td><td></td><td></td><td></td><td></td></th<>	U-5 (W909179-06) Water	Sampled: 07-Sep-99 10:43	Received:	07-Sep-99	14:30					
Toluene ND 0.50 " " " " " " " " " " " " " " " " " " "	Purgeable Hydrocarbons	ND	50	ug/l	1	9114019	11-Sep-99	l1-Sep-99	DHS LUFT	•
Ethylbenzene ND 0.50 "	Benzene	ND	0.50	**	**	u u	н	**	н	
Xylenes (total) ND 0.50 " " " " " " Methyl tert-butyl ether ND 2.5 " " " " " "	Toluene	ND	0.50	tr	**	H	н	#1	н	
Methyl tert-butyl ether ND 2.5 " " " " " "	Ethylbenzene	ND	0.50	Ħ	**	II .	н	"	п	
···	Xylenes (total)	ND	0.50	**	**	п	п	*	н	
Surrogate: a,a,a-Trifluorotoluene 93.3 % 70-130 " " " " "	Methyl tert-butyl ether	ND	2.5	"	**	п	п	**	н	
	Surrogate: a,a,a-Trifluoroto	oluene	93.3 %	7 0 -	130	"	"	"	"	

Sequoia Analytical - Walnut Creek

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-6 (W909179-07) Water	Sampled: 07-Sep-99 13:30	Received:	7-Sep-9	9 14:30				VI *	P-01
Purgeable Hydrocarbons	320	100	ug/l	2	9114023	13-Sep-99	13-Sep-99	DHS LUFT	
Benzene	14	1.0	n n	H			,	н	
Toluene	ND	1.0	17	н		**	*	н	
Ethylbenzene	5.2	1.0	"	н	"	н	n	n	
Xylenes (total)	ND	1.0	"	и	Ħ	n	n	n	
Methyl tert-butyl ether	10	5.0	n	n	₩	H	н	•	
Surrogate: a,a,a-Trifluoroto	luene	73.3 %	70	-130	#	"	nt	"	
U-7 (W909179-08) Water	Sampled: 07-Sep-99 09:45	Received: 0	7-Sep-9	9 14:30					
Purgeable Hydrocarbons	ND	50	ug/l	1	9114019	11-Sep-99	11-Sep-99	DHS LUFT	
Benzene	ND	0.50	н	"	**	н	**	**	
Toluene	ND	0.50	II .	"	Ħ	и	11	**	
Ethylbenzene	ND	0.50	н	n	н	**	*	**	
Xylenes (total)	ND	0.50	н	#	п	*	•	•	
Methyl tert-butyl ether	ND	2.5	n	Iŧ	n	*	**	u	
Surrogate: a,a,a-Trifluoroto	luene	96.7%	70	-130	n	,,	"	"	

Sequoia Analytical - Walnut Creek

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

		TOTAL TETTAL	<i>,</i>	77 64212444					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
U-1 (W909179-02) Water Sa	mpled: 07-Sep-99 11:20	Received: (17-Sep-99	14:30	-				
Bromodichloromethane	ND	0.50	ug/l	1	9115009	15-Sep-99	15-Sep-99	EPA 8010B	
Bromoform	ND	0.50	п	Ħ		**	•	#	
Bromomethane	ND	1.0	10	*	₩	**	•	**	
Carbon tetrachloride	ND	0.50	Ħ	н	н	н	77	n	
Chlorobenzene	ND	0.50	Ħ	n	#	Ħ	н	Ħ	
Chloroethane	ND	1.0	"	"	M	44	н	••	
Chloroform	ND	0.50		**	"	10	11	•	
Chloromethane	ND	1.0	17	10	н	ıt	н	₩	
Dibromochloromethane	ND	0.50	Ħ	7		**	#	m	
1,3-Dichlorobenzene	ND	0.50	n		н	**	*	•	•
1,4-Dichlorobenzene	ND	0.50	n	**	#	"		**	
1,2-Dichlorobenzene	ND	0.50	"	"	•	**	**	+1	
1,1-Dichloroethane	ND	0.50	11	н		**		н	
1.2-Dichloroethane	ND	0.50	ij	II .	14	•	**	н	
1.1-Dichloroethene	ND	0.50	U	п	"	••	н	п	
cis-1,2-Dichloroethene	ND	0.50	ч	"		*	•	u	
trans-1,2-Dichloroethene	ND	0.50	**	**		*	**	H	
1,2-Dichloropropane	ND	0.50	**	**	н	н	и	W	
cis-1,3-Dichloropropene	ND	0.50	"	**		п		**	
trans-1,3-Dichloropropene	ND	0.50	н	**	u		n n	**	
Methylene chloride	ND	5.0		**		u	p	te .	
1,1,2,2-Tetrachloroethane	ND	0.50	H	**	**	ч	н	•	
Tetrachloroethene	ND	0.50	,,	14	*	**	**	•	
1.1.1-Trichloroethane	ND	0.50	н	n	16	**	"	14	
1,1,2-Trichloroethane	ND	0.50	IJ	п	14	ır	Ħ	n	
Trichloroethene	ND	0.50	п						
Trichlorofluoromethane	ND ND	0.50	**	**		**	**	n	
Vinyl chloride	ND ND	1.0	**	**	н	н	**	ı)	
					,,			"	
Surrogate: Dibromodifluorome		84.0 %		-150					
Surrogate: 4-Bromofluorohenz	ene	68.0 %	50	-150	"	н	n	"	

Sequoia Analytical - Walnut Creek

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

Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

Volatile Organic Compounds by EPA Method 8010B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-3 (W909179-04) Water	Sampled: 07-Sep-99 12:55	Received: (7-Sep-9	9 14:30					O-05
Bromodichloromethane	1.4	0.50	ug/l	ī	9115009	15-Sep-99	15-Sep-99	EPA 8010B	
Bromoform	ND	0.50	n	77	**	*	•	₩	
Bromomethane	ND	1.0	"		₩	**		-	
Carbon tetrachloride	ИD	0.50	17		*	₩	•	4	
Chlorobenzene	ND	0.50	TF		-	Ħ	*	"	
Chloroethane	ND	1.0	19	#	*	7	*	**	
Chloroform	31	0.50	н		"	-	*	#	
Chloromethane	ND	1.0	**	4	"	.,	n	14	
Dibromochloromethane	ND	0.50	11	16	и	"	•	н	
1,3-Dichlorobenzene	ND	0.50	И	и	N	**	"	tf .	
1,4-Dichlorobenzene	ND	0.50	И	н	11	11	п	н	
1,2-Dichlorobenzene	ND	0.50	п	н	н	н	14	**	
1.1-Dichloroethane	ND	0.50	п	u	н	п	"	**	
1,2-Dichloroethane	1.1	0.50	н	ч	н	н	п	**	
1,1-Dichloroethene	ND	0.50	71	**	*1	п	ч	"	
cis-1,2-Dichloroethene	ND	0.50	11	**	+1	tt.	"	**	
trans-1.2-Dichloroethene	ND	0.50	16	**	**	tf	u	19	•
1.2-Dichloropropane	ND	0.50	16		"	**	и	19	
cis-1,3-Dichloropropene	ND	0.50	IT			**	(1		
trans-1,3-Dichloropropene	ND	0.50	и	4	H		**	**	
Methylene chloride	ND	5.0	**	**	**	19	**	11	
1.1.2.2-Tetrachloroethane	ND	. 0.50	19	*	*	10	,	n	
Tetrachloroethene	ND	0.50	11	**	**	*	•	"	
1,1,1-Trichloroethane	ND	0.50	н	н	10	**		н	
1,1,2-Trichloroethane	ND	0.50	п	н		*	*	11	
Trichloroethene	ND	0.50	n			**		п	
Trichlorofluoromethane	ND	0.50	п	II .	н	+4	•	п	
Vinyl chloride	ND	1.0	ч	11	н	н		n	
Surrogate: Dibromodifluore	omethane	85.0 %	50	-150		"	,,	"	
Surrogate: 4-Bromofluorob	enzene	71.0 %	50	-150	u	u	**	u	

Sequoia Analytical - Walnut Creek

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

Volatile Organic Compounds by EPA Method 8010B Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U-7 (W909179-08) Water	Sampled: 07-Sep-99 09:45	Received: ()7-Sep-99	9 14:30					
Bromodichloromethane	ND	0.50	ug/l	I	9115009	15-Sep-99	15-Sep-99	EPA 8010B	
Bromoform	ND	0.50	11	**	n	*	**	**	
Bromomethane	ND	1.0	Ħ	**	r.	n	**		
Carbon tetrachloride	ND	0.50		•	*	•	•	n	
Chlorobenzene	ND	0.50		17	#	*	**	•	
Chloroethane	ND	1.0	Ħ	w	Ħ	#	n	**	
Chloroform	ND	0.50	H	**	n	•	•	•	
Chloromethane	ND	1.0	"	**	n	"	*	77	
Dibromochloromethane	ND	0.50	**	**	n	11	77	**	
1,3-Dichlorobenzene	ND	0.50	"	4		9	7	19	
1,4-Dichlorobenzene	ND	0.50	**	•	н	"	*	-	
1,2-Dichlorobenzene	ND	0.50	"	**	H	"	11	10	
1,1-Dichloroethane	ND	0.50	**	4	**	**	n	14	
1,2-Dichloroethane	ND	0.50	**	78	n	*	19	11	
1,1-Dichloroethene	ND	0.50	n	**		**	11	н	
cis-1,2-Dichloroethene	ND	0.50	**	•	и	••	4		
trans-1,2-Dichloroethene	ND	0.50	**	4	u	**	11	"	
1,2-Dichloropropane	ND	0.50	πŧ	**	n n	**	*	14	
cis-1,3-Dichloropropene	ND	0.50	**	••		**	*	**	
trans-1,3-Dichloropropene	ND	0.50	**	**	н	**	10	**	
Methylene chloride	ND	5.0	•	**	н	"	**	#	
1,1,2,2-Tetrachloroethane	ND	0.50	**	**	**	**			
Tetrachloroethene	ND	0.50	**	**	н		•	#	
1,1,1-Trichloroethane	ND	0.50	11	**		**	н	Ħ	
1,1,2-Trichloroethane	ND	0.50	и	10	**	"	*		
Trichloroethene	ND	0.50	н	**		*			
Trichlorofluoromethane	ND	0.50	n	**	"		-	re .	
Vinyl chloride	ND	1.0	п	n	**	14	19	n	
Surrogate: Dibromodifluoroi	methane	87.0 %	50-	150	,	"	"	"	
Surrogate: 4-Bromofluorohe.	nzene	74.0 %	50-	150	"	**	"	,,	

Sequoia Analytical - Walnut Creek

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Unocal

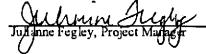
Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

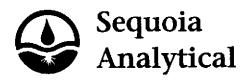
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I14019:	Prepared 10-Sep-99	Using E	PA 5030B [F	?/T]							
Matrix Spike (911	4019-MS1)			· ·		Source: \	W909179-	02			
Велгене		18.5	0.50	ug/l	20.0	ND	92.5	70-130			
Toluene		16.8	0.50	*	20.0	ND	84.0	70-130			
Ethyibenzene		17.7	0.50	*	20.0	ND	88.5	70-130			
Xylenes (total)		57.7	0.50	•	60.0	ND	96.2	70-130			
Surrogate: a,a,a-Trifl	uorotoluene	27.9		"	30.0		93.0	70-130			
Matrix Spike Dup	(9I14019-MSD1)					Source: V	W909179-	02			
Benzene		16.9	0.50	ug/l	20.0	ND	84.5	70-130	9.04	20	•
Toluene		14.5	0.50	н	20.0	ND	72.5	70-130	14.7	20	
Ethylbenzene		16.2	0.50	н	20.0	ND	81.0	70-130	8.85	20	
Xylenes (total)		52.7	0.50	"	60.0	ND	87.8	70-130	9.06	20	
Surrogate: a.a.a-Triffe	uorotoluene	23.4		п	30.0		78.0	70-130			
Batch 9I14023:	Prepared 13-Sep-99	Using E	PA 5030B [F	P/ T]							
Matrix Spike (911	4023-MS1)					Source: \	W909170-	10			
Benzene		21.3	0.50	ug/l	20.0	ND	106	70-130			
Toluene		21.9	0.50	**	20.0	ND	109	70-130			
Ethylbenzene		22.1	0.50	Ħ	20.0	ND	111	70-130			
Xylenes (total)		67.4	0.50	**	60.0	ND	112	70-130			
Surrogate: a,a,a-Trifl.	uorotoluene	27.8		"	30.0		92.7	70-130			
Matrix Spike Dup	(9I14023-MSD1)					Source: V	W909170-	10			
Benzene		19.1	0.50	ug/l	20.0	ND	95.5	70-130	10.9	20	
Toluene		19.5	0.50	**	20.0	ND	97.5	70-130	11,6	20	
Ethylbenzene		19.5	0.50	*	20.0	ND	97.5	70-130	12.5	20	
Xylenes (total)		60.7	0.50	•	60.0	ND	101	70-130	10.5	20	
Surrogate: a.a.a-Trifl	uorotoluene	24.9		"	30.0	-	83.0	70-130			

Sequoia Analytical - Walnut Creek

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

Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding

Reported: 24-Sep-99 18:35

Volatile Organic Compounds by EPA Method 8010B - Quality Control Sequoia Analytical - Walnut Creek

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9I15009: Pre	pared 15-Sep-99 \	Using EI	PA 5030B [P	/T]							
Matrix Spike (9115009-1	MS1)			7		Source: V	V909179-	08			
Chlorobenzene		21.0	0.50	ug/l	20.0	ND	105	60-140			
1,1-Dichloroethene		17.0	0.50	н	20.0	ND	85.0	60-140			
Trichloroethene		21.0	0.50	*	20.0	ND	105	60-140			
Surrogate: Dibromodiftuoromethane		8.60		17	10.0		86.0	50-150			
Surrogate: 4-Bromofluorober	Z ene	7.60		n	10.0		76,0	50-150			
Matrix Spike Dup (9115	009-MSD1)					Source: V	V909179-	08			
Chlorobenzene		22.0	0.50	ug/l	20.0	ND	110	60-140	4.65	25	
1.1-Dichloroethene		17.0	0.50	₩	20.0	ND	85.0	60-140	0	25	
Trichloroethene		21.0	0.50	**	20.0	ND	105	60-140	0	25	
Surrogate: Dibromodifluoron	sethane	8.60			10.0		86.0	50-150	 		
Surrogate: 4-Bromofluoroben	cene	7.70		n	10.0		77.0	50-150			

Sequoia Analytical - Walnut Creek

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O-05

Project: Unocal

Project Number: Unocal SS# 5430 Project Manager: Deanna L. Harding Reported: 24-Sep-99 18:35

Notes and Definitions

Reanalysis by an alternate column or method has confirmed the identification and/or concentration of this result.

P-01 Chromatogram Pattern: Gasoline C6-C12

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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