



January 29, 1998

Chevron Products Company P.O. Box 6004 San Ramon, CA 94583

Mr. Larry Seto Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Former Chevron Service Station #9-0191

900 Otis Drive, Alameda, California

Dear Mr. Seto:

Enclosed is the Fourth Quarter Groundwater Monitoring Report for 1997, prepared by our consultant Gettler-Ryan Inc., for the above noted site. Groundwater samples were analyzed for TPH-g, BTEX and MtBE constituents.

Monitoring wells MW-2 and MW-3 were sampled while wells MW-4, MW-5, MW-6 and MW-7 were only gauged for groundwater depth and to determine the direction of flow. Monitoring well MW-2 was below method detection limits for all constituents, while in well MW-3 there was a slight increase in the benzene and ethlybenzene constituents with the toluene and xylene constituents below method detection limits. The site still appears to be low risk and not a significant risk to human health and to the environment.

Groundwater depth varied from 1.50 feet to 3.39 feet below grade with a direction of flow northerly.

This is to advise you, that the soil disposal information you requested to assist in formalizing closure of this site is being researched and I expect will be transmitted to you within the next ten days.

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,

CHEVRON PRODUCTS COMPANY

Philip R. Briggs

Site Assessment and Remediation Project Manager

Enclosure

January 29, 1998 Mr. Larry Seto Former Chevron Service Station # 9-0191 Page 2

#### cc. Ms. Bette Owen, Chevron

Harsch Investment Corp. dba South Shore Center 235 W. MacArthur Boulevard, #63 Oakland, CA 94611

Mr. Phil Eyring Eyring Reality Inc. 1901 Olympic Blvd., Suite 220 Walnut Creek, CA 94596-5079

Mr. Kevin Graves RWQCB-San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, CA 94612 January 15, 1998

Job #6324.80

Mr. Phil Briggs Chevron Products Company P.O. Box 6004 San Ramon, CA 94583

Re:

Fourth Quarter 1997 Groundwater Monitoring & Sampling Report

Former Chevron Service Station #9-0191

900 Otis Drive Alameda, California

Dear Mr. Briggs:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On December 9, 1997, field personnel were on-site to monitor six wells (MW-2 through MW-7) and sample two wells (MW-2 and MW-3) at the Former Chevron Service Station #9-0191 located at 900 Otis Drive in Alameda, California.

Static groundwater levels were measured on December 9, 1997. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented 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 for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Singerely,

Beanna L. Harding

Project Coordinator

Stephen J. Carter

Senior Geologist, R.G. No. 5577

No. 5577

DLH/sic/dh

Figure 1:

6324.QML

Potentiometric Map

Table 1: Attachments:

Water Level Data and Groundwater Analytical Results Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

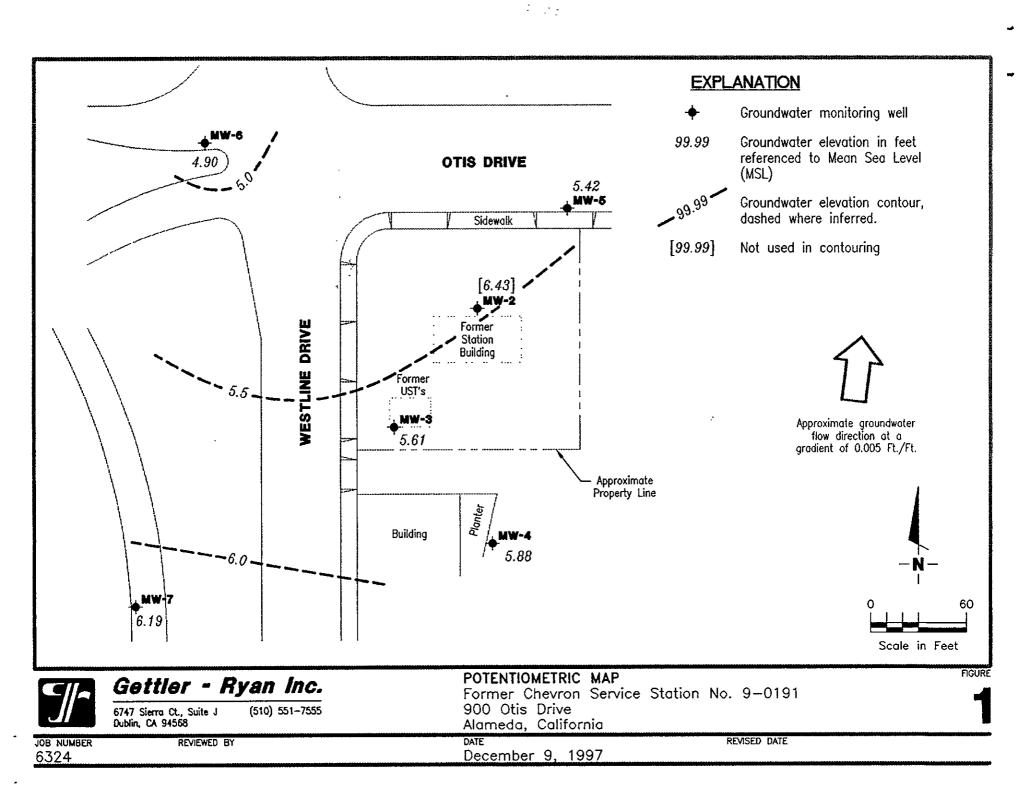




Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California

				Product						
Well ID/		DTW	GWE	Thickness*	TPH(G)	В	T	E	X	MTBE
FOC (ft)	Date	(ft)	(msl)	(ft)		<		ppb		>
MW-2/										
9.17	2/8/96	2.75	6.42		94	ND	ND	ND	ND	
	6/27/96	4.99	4.18	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	5.21	3.96	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	4.54	4.63	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	3/5/97	4.09	5.08	0						
	6/3/97	4.91	4.26	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
	9/16/97	5.03	4.14	Ō	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/9/97	2.74	6.43	Õ	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
MW-3/										
7.11	2/8/96	1.36	5.75		460	26	ND	5.8	ND	_
· · · ·	6/27/96	3.22	3.89	0	130¹	< 0.50	< 0.50	< 0.50	0.51	16
	9/3/96	3.08	4.03	Ŏ	160²	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	2.68	4.43	ŏ	260 <sup>2</sup>	4.3	< 0.50	0.62	< 0.50	50
	3/5/97	2.40	4.71	ŏ	310 <sup>2</sup>	11	0.55	< 0.50	< 0.50	6.7
	6/3/97	3.04	4.07	ŏ	260¹	< 0.50	< 0.50	< 0.50	< 0.50	10
	9/16/97	2.92	4.19	ŏ	160 <sup>t</sup>	0.50	<0.50	<0.50	<0.50	<2.5
	12/9/97	1.50	5.61	ő	440¹	14	< 0.50	4.6	< 0.50	5.9
	1217171	1.50	3.01	V	770	14	<b>~0.50</b>	7,0	<b>~0.50</b>	3.9
MW-4/	<b>2</b> 10 10 4							375		
7.78	2/8/96	1.32	6.46		ND	ND	ND	ND	ND	
	6/28/96	2.99	4.79	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	3.50	4.28	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	2.95	4.83	0				_	_	
	3/5/97	2.55	5.23	0	****		_			_
	6/3/97	3.27	4.51	0	_					
	9/16/97	3.27	4.51	0					-	
	12/9/97	1.90	5.88	0	-				_	_
MW-5/										
7.37	2/8/96	0.75	6.62		ND	ND	ND	ND	ND	
	6/27/96	2.66	4.71	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	3.29	4.08	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	2.66	4.71	0						_
	3/5/97	2.98	4.39	0	_				_	
	6/3/97	2.78	4.59	0				_		
	9/16/97	3.11	4.26	0			_	_		-
	12/9/97	1.95	5.42	0	_	_			_	



Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California (continued)

Well ID/		DTW	GWE	Product Thickness*	TPH(G)	В	T	E	x	мтве
TOC (ft)	Date	(ft)	(msl)	(ft)		<	<u> </u>	ррЬ		<del>&gt;</del>
MW-6/										
7.30	2/8/96	2.10	5.20		ND	ND	ND	ND	ND	
	6/27/96	3.98	3.32	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	3.50	3.80	0	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	3.31	3.99	0		-			_	
	3/5/97	3.15	4.15	0		<del></del>	_			_
	6/3/97	3.59	3.71	0						
	9/16/97	5.12	2.18	0		_			_	
	12/9/97	2.40	4.90	0						
				•						
MW-7/										
9.58	2/8/96	3.24	6.34	<del></del>	ND	ND	ND	ND	ND	
	6/27/96	5.07	4.51	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	5.29	4.29	0	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/3/96	4.95	4.63	0		_				
	3/5/97	4.36	5.22	0						
	6/3/97	5.07	4.51	0				<del></del>		_
	9/16/97	3.74	5.84	0				_		
	12/9/97	3.39	6.19	0						
				-						
Trip Blank	6/27/96				<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
TTP DIMIE	9/3/96				<50	<0.50	< 0.50	<0.50	< 0.50	<2.5
	12/3/96				<50	<0.50	< 0.50	<0.50	< 0.50	<2.5
	3/5/97	_					-0.50		~0.50 	
	6/3/97	<u></u>			<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/16/97				<50	< 0.50	< 0.50	<0.50	<0.50	<2.5
	12/9/97				< <b>50</b>	< 0.50	< 0.50	<0.50	<0.50	<2.5



### Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California (continued)

#### EXPLANATION:

TOC = Top of casing elevation

(ft) = feet

DTW = Depth to water

GWE = Groundwater elevation

msl = Measurements referenced relative to mean sea level

TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary-butyl ether

ppb = Parts per billion

ND = Not-Detected

- = Not analyzed/Not applicable

#### **ANALYTICAL METHODS:**

EPA Method 8015/5030 for TPH(G) EPA Method 8020 for BTEX & MTBE

#### NOTES:

Water level elevation data and laboratory analytical results prior to June 27, 1996, were compiled from Quarterly Monitoring Reports prepared for Chevron by Pacific Environmental Group.

- \* Product thickness was measured on and after June 27, 1996, with a MMC Flexi-Dip interface probe.
- Laboratory report indicates unidentified hydrocarbons C6-C12.
- Laboratory report indicates unidentified hydrocarbons <C8.</p>

6324.TQM



# 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 Chevron-designated 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 Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

Chevron Facili	ty # <u>9-0191</u>		Job#:	6324.		<del></del>
Address: <u>900</u>	Otis Drive		Date:	10-1	1-97	
City:Ala	meda, CA		Sample	er: <u>E.Clir</u>	1e	
Well ID		Well Conditi	ion:	otal		
Well Diameter	in.	Hydrocarbo Thickness:		Amount in. (product/w		(gal.)
Total Depth	15' tt.	Volume	2" = 0.17	3" = 0.:	38 4	" = 0.66
Depth to Water	2,74 tt.	Factor (VF)		6" = 1.50	12" = 5.80	
	12.26 x	VF 0117 = 2.1	_ X 3 (case vo	lume) = Estimated	Purge Volume: 🤇	6,3 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipment: O	Disposable E Bailer Pressure Bai Grab Sample ther:	Ter e	
Starting Time: Sampling Time: Purging Flow Rat Did well de-wate	11:34 1192 ee: 1:1 er	Water Sedime	er Conditions Color: ent Description Time:	on:	0dor:_ <u>A/</u> ne:	ne
_	Volume pH (gal.)  2.2 G.16  1.4 G.62  7.05  C. 7.06	Conductivity  µmhos/cm  1263  1260  1270  1260	16.8 17.3	ture D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER	LABORATORY REFRIG. PRESE	INFORMAT	ION LABORATORY	ANAL	.YSES
MW- 2	3 x 40m/VOA		· · · · · · · · · · · · · · · · · · ·	SEQUOIA	TPH-Gas/BTE	X/MT8E
					<u> </u>	
COMMENTS: _				,		

Chevron Facili	ty # <u>9-0191</u>			Job#:		6324.80				
	Otis Drive			Date:		12-9-97				
	meda, CA			Samp!	er:	F.Cline				
Well ID	3	_ Wel	l Condition	n:	0	taj				
Well Diameter	in.		rocarbon kness:	2	in.	Amount Bailed (gal.)				
Total Depth	14'	Vo	lume ctor (VF)	2" = 0.1	7 6" = 1	3" = 0.38 .50		" = 0.66		
Depth to Water	ft_		-			<u> </u>				
	12.50	x vf <u>6,17</u>	$=\frac{2}{}$	X 3 (case v	olume) =	Estimated Pu	ırge Volume: 🔟	6.9 (gal.)		
Purge	Disposable Baile	r		mpling uipment:	Di	sposable Ba	iler			
Equipment:	Bailer Stack		Eq.	ириноне.	Ba	iler essure Baile				
	Suction Grundfos				Gr	ab Sample				
	Other:							<u></u>		
Starting Time:	11.49	<del></del>	Weather	Condition	s:	Clesv	Odor:	Alat-		
Sampling Time:	 te:!.!						111	-		
	er?						ne:	(gal.)		
Time	Volume pH		ductivity	Temper	ature	D.O.	ORP	Alkalinity		
.,, 46	(gal.) 2-2 7270		hos/cm 150	40 151	4	(mg/L)	(mV)	(ppm)		
1198 -	44 7.77		60	15,			•			
1150 -	7.79 7.0 7.78		70 60	15,0		•	•			
	7170									
						······································				
SAMPLE ID	(#) - CONTAINER	REFRIG.	RATORY II			RATORY	ANAL	YSES		
мw-3	3 x 40m/V0A	Y	нс	L ·	SEQUOL	<u> </u>	TPH-Gas/BTE	X/MTBE		
COMMENTS: _	<u> </u>	<u> </u>								
								9/97-fieldet.fr		

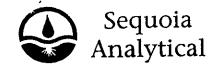
Chevron Facil	ity # <u>9-0191</u>		<del></del>	Job#	<sup>†</sup> :	6324.8	-	
Address: 900	Otis Drive			Date	: _	12-9	i-97	
City:Ala	ameda, CA		···-	Samı	pler: _	F.Cline	2	
Well ID	4	We	ell Conditio	on:	(	Ofay		
Well Diameter	2*		drocarbon ickness: _	4	j <sub>in</sub> .	Amount Ba		) (nel.)
Total Depth		tr /	olume	2" = 0	).17	3" = 0.38	3 4	" = 0.66
Depth to Water	1.90	ft. F	actor (VF)		6" =	1.50	12" = 5.80	
		X VF	=	X 3 (case	volume) :	= Estimated Pu	urge Volume: _	(gal.)
Purge Equipment:	Disposable Bai Bailer Stack Suction Grundfos Other:			ampling quipment	B: Pi G	isposable Ba ailer ressure Baile rab Sample	er	
Starting Time:								
Sampling Time:							Odor:	
	er?							(gal.)
Did Well de-Wat	C11	<del></del>	, 55,					
Time	Volume pH (gal.)		nductivity nhos/cm		erature C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
SAMPLE ID	(#) - CONTAINER		RATORY	INFORMA		ORATORY	ANAL	.YSES
MW	3 x 40m/VOA	Y	7	GL	SEQUO	A	TPH-Gas/BTE	X/MTBE
	<del> </del>						1	
	112-120	10.0			<u></u>	-111)	1	<del></del>
COMMENTS: .	UNICI	level	Ouli	<del></del>	<u>- 1-1 (</u>	/ <del>//// ) .</del>		
				0				

Chevron Facili	ity # <u>9-0191</u>			Job#:		6324.80	_	
	Otis Drive			Date:	<del></del>		7-97	<del></del>
	ımeda, CA			Samp	ler:	F.Cline		
Well ID		Well	Conditio	n:		deay		
Well Diameter	in.		ocarbon kness: _	6	in_	Amount Ba		(gal.)
Total Depth	1.95		ume tor (VF)	2" = 0.		3" = 0.38 50	12" = 5.80 4"	= 0.66
Depth to Water	x	VF	=	X 3 (case	volume) =	Estimated Pu	rge Volume: _	(gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		S	ampling quipment:	Dis Bai Pre Gr	sposable Ba iler essure Baile ab Sample	iler r	
_	ate:	gpm.	Water C	olor: nt Descrip	tion:		Odor:	
Time	Volume pH (gal.)	Conc	luctivity hos/cm	Temp ≪	erature C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
					·			
		LAROI	DATORY	INFORMA	ATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.		V. TYPE		RATORY	ANAL	YSES
MW-	3 x 40m/VOA	Υ		et.	SEQUO	<u> </u>	TPH-Gas/BTE	X/MTBE
						n.w.	<u></u> _	<del></del>
COMMENTS:	Water	16mm	الايم	7-	<u> </u>	1100.	)	
				<del></del>				
								9/97-fieldet.

Chevron Facilit	ty # <u>9-0191</u>			Job#:		_6324.8			
	Otis Drive			Date:		12-9-97			
	meda, CA			Samp	oler:	E.Cline			
					<u></u>		/		
Well ID	MW- 6	We	II Conditio	n:		-Cray			
Well Diameter	in.		drocarbon ckness: _		in.	Amount Ba	ailed <del></del>	(gal.)	
Total Depth	211C		olume	$2^n=0.$		3" = 0.38 .50		' = 0.66	
Depth to Water	2.40 tt	l ra	ictor (VF)	<del></del>					
	x	VF	_ <b>=</b>	X 3 (case	volume) =	Estimated Pu	ırge Volume:	(gal.)	
Purge	Disposable Bailer	•		ampling	. n:	maaabla Ba	.ilor		
Equipment:	Bailer Stack		E	quipment	Ва	sposable Ba iler			
	Suction				-	essure Baile ab Sample	r		
	Grundfos Other:	<del></del>		•			_		
Starting Time:			Weather	Conditio	ns:				
Sampling Time:						<del></del>		<u> </u>	
Purging Flow Rat	te:	gpm.							
Did well de-wate	or?		if yes;	Time:		Volum	ne:	(gal.)	
	Volume pH (gal.)		aductivity nhos/cm	Tempe	erature C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)	
		<del></del>	·····						
SAMPLE ID	(#) - CONTAINER	LABO REFRIG.	RATORY PRESER	INFORM <i>A</i> V. TYPE		RATORY	ANAL	YSES	
MW	3 × 40m/VOA	Y-	н	CL	SEQUOI	<b>\</b>	TPH-Gas/BTE	X/MTBE	
		<u> </u>			<u> </u>		<u></u>		
COMMENTS:	Water Lo	wel	Only	<del></del>	DIC	<u> ひ.) _</u>			
				<del>)</del> -					
			<del>.</del>		_			9/97-fieldat.fr	

Equipment: Bases St. St. St. Gr. Or. Starting Time:	isposable Bailer tack uction frundfos other:	- Well Hyd Thic Vo Fac	Condition rocarbon ckness: lume ctor (VF)	2" = 0.1  X 3 (case volumpling uipment:	er:Amin_ (pro 7 6" = 1.50  Dispose Bailer Pressu Grab Sother:	F.Cline  nount Ba oduct/wat 3" = 0.38  imated Pu sable Bailer Sample	illed	4" = 0.66
Well ID — Well Diameter — Total Depth — Depth to Water — Purge Di Equipment: Ba St	isposable Bailer tack uction frundfos other:	- Well Hyd Thic Vo Fac	Condition rocarbon ckness: lume ctor (VF)	2" = 0.1  X 3 (case volumpling uipment:	Dispos Bailer Pressu Grab S Other:	nount Ba oduct/wat 3" = 0.38 imated Pu sable Bailer Sample	illed	(gal.)  4" = 0.66
Well Diameter — Total Depth — Depth to Water — Purge Di Equipment: Ba St St St St St St St St St Purging Time: — Purging Flow Rate: —	in.  ft.  3,39 ft.  X isposable Bailer ailer tack uction irundfos other:	Hyd Thic Vo Fac	rocarbon ckness: lume ctor (VF)  Sa Eq	2" = 0.1  X 3 (case volumpling uipment:	Dispose Bailer Pressu Grab Sother:	nount Ba oduct/wat 3" = 0.38  imated Pu sable Bailer Sample	12" = 5.80  rge Volume:	4" = 0.66
Total Depth  Depth to Water  Purge Equipment:  St	isposable Bailer tack uction frundfos other:	Thic Vo	weather Water Co	X 3 (case vompling uipment:	in. (profile in	oduct/wat 3" = 0.38 imated Pu sable Bai ure Bailer Sample	12" = 5.80  rge Volume:	4" = 0.66
Purge Di Equipment: Ba St	3,39 ft.  isposable Bailer ailer tack uction frundfos other:	Vo Fac	Weather	X 3 (case vompling uipment:	7 6" = 1.50  olume) = Esti Dispos Bailer Presst Grab S Other:	3" = 0.38 imated Pu sable Bai ure Baile Sample	12" = 5.80  rge Volume: iler	4" = 0.66 (gal.)
Purge Di Equipment: Ba St St Gr Or  Starting Time: — Sampling Time: — Purging Flow Rate: —	isposable Bailer ailer tack uction trundfos		Sa Eq Weather Water Co	mpling uipment:  Condition:	Dispos Bailer Pressu Grab S Other:	sable Bai ure Baile Sample	r	
Starting Time: Sampling Time: Purging Flow Rate:			Water Co	olor:				
		<del></del>				<del></del>		(gal.)
Time Volum (gal.)	ne pH	Cone	ductivity hos/cm	Temper •C		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	· · · · · · · · · · · · · · · · · · ·	LABOF	RATORY II	NFORMAT	TION			
SAMPLE ID (#)	- CONTAINER	REFRIG.	PRESERV		LABORAT	ORY		ALYSES
MW-	3 x 40m/√0A	Y	HC		SEQUOIA		TPH-Gas/87	LX/N1186
	<u></u>							
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COMMENTS:				$\bigcirc$			<del></del>	

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		Cher	vron Foci	ilty Numb	%r <u>#9</u> -	0191 Otis Dr:	Lve.	Alame	da. C	CA		_	Chevron	Contact	(Nome)						
Chevron U.		Cone				324.80						_   .	_aborator	y Name						vice	Code: ZZ02790
P.O. BOX San Ramon,		Cone	ultant N	ama	Gettl	er-Ryan_			- 01.5	· C 0		_   լ	.aborator	yServ	ice	Ordei	r #90	3318	7		
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		'	Project C	ontact (+ 'S	lome)	Deanna H 51-7555	aruri (Fa	K Numbe	. 55	1-788	38		Collection Signature	Doto_			/	le	L	<u>,</u>	ill
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Sample Number	Lab Sample Number	Number of Containers	Matrix S I Soil A I Ar W I Water C I Charcool	Type G # Grab C = Composite D = Discrete	i	Sample Preservation	iced (Yes or No.)	TPH Gas + BTEX WANTBE (8015) (8020)	TPH Dissel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	_	1	Wetals Cd,Cr,Pb,Zn,Ni (ICAP or AA)				-		DO NOT BILL TB-LB ANALYS!  Ronlettog 14
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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Gettler Ryan/Geo 6747 Sierra Court Dublin, CA 94568

lient Proj. ID: Chevron 9-0191 Sampled: 12/09/97 ample Descript: TB-LB Received: 12/09/97 latrix: LIQUID nalysis Method: 8015Mod/8020 Analyzed: 12/17/97 ab Number: 9712569-01 Reported: 12/24/97 Client Proj. ID: Sample Descript: TB-LB

Attention: Deanna Harding

Matrix: LIQUID Analysis Method: 8015Mod/8020

Lab Number: 9712569-01

QC Batch Number: GC121797802007A

Instrument ID: GCHP07

### Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

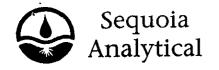
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 2.5 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager

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Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0191 Sample Descript: MW-2

Sampled: 12/09/97 Received: 12/09/97 Analyzed: 12/17/97 Reported: 12/24/97

Dublin, CA 94568

Matrix: LIQUID

Attention: Deanna Harding

Analysis Method: 8015Mod/8020 Lab Number: 9712569-02

QC Batch Number: GC121797802007A

Instrument ID: GCHP07

# Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

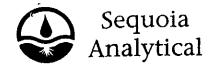
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 2.5 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory Project Manager

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Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Client Proj. ID: Chevron 9-0191

Sample Descript: MW-3

Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712569-03

Sampled: 12/09/97 Received: 12/09/97

Analyzed: 12/17/97 Reported: 12/24/97

Attention: Deanna Harding

QC Batch Number: GC121797802007A

Instrument ID: GCHP07

### Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	\$	Sample Results ug/L
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:			. 5.9
Unidentified HC	•••••	***************************************	. C6-C12
Surrogates Trifluorotoluene	Control Limits % 70	130	Recovery 107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager

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Gettler Ryan/Geostrategles 6747 Sierra Court, Ste J Client Project ID: Chevron 9-0191

Matrix:

Liquid

Attention: Deanna Harding

Dublin, CA 94568

....

Work Order #: 9712569 -01-03

Reported: Dec 31, 1997

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

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC121797802007A	GC121797802007A	GC121797802007A	GC121797802007A	GC121797802007
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. L.	\$. L.	S. L.	S. L.	S. L.
MS/MSD #:	97120366	97120366	97120366	97120366	•
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	-
Prepared Date:	12/17/97	12/17/97	12/17/97	12/17/97	-
Analyzed Date:	12/17/97	12/17/97	12/17/97	12/17/97	•
nstrument I.D.#:	GC7	GC7	GC7	GC7	-
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/∟	•
Result:	15	16	17	50	-
MS % Recovery:	75	80	85	83	-
Dup. Result:	19	19	20	61	-
MSD % Recov.:	95	95	100	102	•
RPD:	24	17	16	20	-
RPD Limit:	0-25	0-25	0-25	0-25	-
LCS #:	LCS121797	LCS121797	LCS121797	LCS121797	LCS121797
Prepared Date:	12/17/97	12/17/97	12/17/97	12/17/97	12/17/97
Analyzed Date:	12/17/97	12/17/97	12/17/97	12/17/97	12/17/97
nstrument I.D.#:	GC7	GC7	GC7	GC7	GC7
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	500 μg/L
LCS Result:	21	21	22	67	480
LCS % Recov.:	105	105	110	112	96
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS			70-130		70-130

SEQUOIA ANALYTICAL Elap #21/42/

Mike Gregory Project Manager

**Control Limits** 

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.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Gettler Ryan/Geostrategies
6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0191

Received: 12/09/97

Dublin, CA 94568 Attention:

Lab Proj. ID: 9712569 Reported: 12/24/97 Deanna Harding

#### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of  $\rlap/ \upsilon$  pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

**SEQUOIA ANALYTICAL** 

Mike Gregory Project Manager