

April 24, 1998

Chevron Products Company 6001 Bollinger Canyon Road Building L San Ramon, CA 94583 P.O. Box 6004 San Ramon, CA 94583-0904

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

Marketing - Sales West Phone 510 842-9500

STED 598

Re: Former Chevron Service Station #9-0191 900 Otis Drive, Alameda, California

Dear Mr. Seto:

Enclosed is the First Quarter Groundwater Monitoring Report for 1998, 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 the benzene constituent increased slightly in well MW-3 from the previous sampling event.

Groundwater depth varied from 1.58 feet to 3.54 feet below grade with a direction of flow northerly.

Our consultant had already conducted this sampling event before Chevron requested that they suspend further sampling pending closure of the site.

It is my understanding that your department has completed the review of the site for closure and has forwarded the file to the Regional Water Quality Control Board (RWQCB) for their review. The findings from this report will not effect the recommendation for closure.

I understand that it normally takes about four to six weeks for review by the RWQCB after which your department would write the formal closure letter to Chevron. It is my understanding that the request for closer went to the RWQCB the week of March 23, 1998, therefore, it appears that a closer letter would be forthcoming in mid-May. For your

April 24, 1998 Mr. Larry Seto Former Chevron Service Station #9-0191 Page2

information, this property has recently been sold and the new owner is anxious to receive the closer letter.

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

Cc. Ms. Bette Owen, Chevron

Mr. Michael Dosen Vice President Harsch Investment Corp. 523 West Plaza South Shore Plaza Alameda, CA 94501

Mr. Steve Sorensen Broker Associate Harbor Bay Realty 885 Island Drive Alameda, CA 94502

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

Mr. Steven Hill RWQCB-San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, CA 94612 April 21, 1998 Job #6324.80

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

Re:

First Quarter 1998 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 March 10, 1998, 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 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 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.

Sincerely,

Deanna L. Harding Project Coordinator

Barbara Sieminski

Project Geologist, R.G. No. 6676

DLH/SJC/dlh 6324 QML

Figure 1:

Potentiometric Map

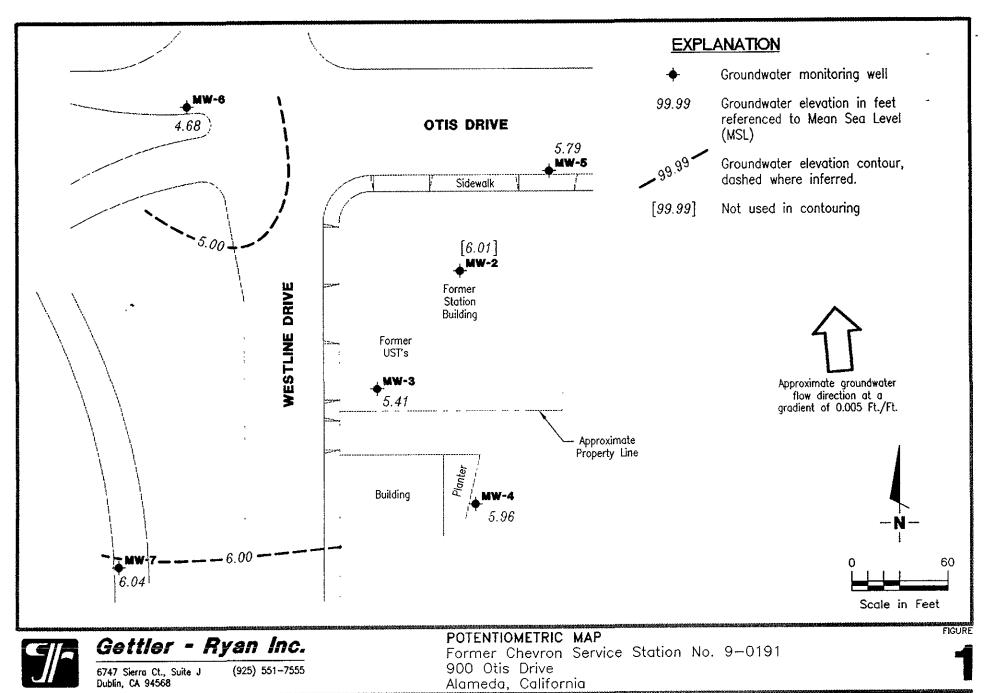
Table 1: Attachments:

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

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

No. 6676



JOB NUMBER 6324 REVIEWED BY

DATE

March 10, 1998

REVISED DATE

Table 1.				Product						
Well ID/		DTW	GWE	Thickness*	TPH(G)	В	T	E	X	MTBE
TOC (ft)	Date	(ft)	(msi)	(ft)	<		ррь			·····
MW-2/									N/D	
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	0	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	12/9/97	2.74	6.43	0	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	3/10/98	3.16	6.01	0	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
√W-3/										
	2/8/96	1.36	5.75		460	26	ND	5.8	ND	
7.11	6/27/96	3.22	3.89	0	130'	< 0.50	< 0.50	< 0.50	0.51	16
		3.08	4.03	ő	160 ²	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
	9/3/96		4.43	ő	260²	4.3	< 0.50	0.62	< 0.50	50
	12/3/96	2.68		0	310^{2}	11	0.55	< 0.50	< 0.50	6.7
	3/5/97	2.40	4.71		260¹	< 0.50	< 0.50	< 0.50	< 0.50	10
	6/3/97	3.04	4.07	0	160¹	0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/16/97	2.92	4.19	0		14	< 0.50	4.6	< 0.50	5.9
	12/9/97	1.50	5.61	0	440¹	18	1.6	< 0.50	< 0.50	6.7
	3/10/98	1.70	5.41	0	290	10	1.0	~0.30	\0.50	0.,
MW-4/										
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						
	3/10/98	1.82	5.96	0						
MW-5/	2/0/06	0.75	6.62		ND	ND	ND	ND	ND	
7.37	2/8/96	0.75		0	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
	6/27/96	2.66	4.71		< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
	9/3/96	3.29	4.08	0		~0.50 	~0.50	~0.30 		
	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						
	3/10/98	1.58	5.79	0						

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0191, 900 Otis Drive, Alameda, California (continued) Product Т Ē X MTBE В TPH(G) DTW **GWE** Thickness* Well ID/ -ppb------> (ft) (msl) (ft) TOC (ft) Date MW-6/ ND ND ND ND ND 2.10 5.20 2/8/96 7.30 < 0.50 < 0.50 < 2.5 < 0.50 < 0.50 0 < 50 3.32 6/27/96 3.98 < 2.5 < 0.50 < 0.50 < 50 < 0.50 < 0.50 9/3/96 3.50 3.80 ---3.31 3.99 0 ------12/3/96 ---------4.15 0 ---3.15 3/5/97 ---3.59 3.71 0 ---6/3/97 5.12 2.18 0 ---9/16/97 4.90 0 ------12/9/97 2.40 *** 4.68 0 ---3/10/98 2.62 ---MW-7/ ND ND ND ND ----ND **2/8/96** 6.34 3.24 9.58 < 0.50 < 0.50 < 2.5 < 0.50 < 0.50 4.51 0 < 50 6/27/96 5.07 < 0.50 < 0.50 < 2.5 < 0.50 < 0.50 < 50 4.29 0 9/3/96 5.29 ------4.63 0 12/3/96 4.95 ---___ ---------4.36 5.22 0 ---3/5/97 ------5.07 4.51 0 6/3/97 3.74 5.84 0 ------9/16/97 ---0 3.39 6.19 ___ ------12/9/97 ---3.54 6.04 0 ---3/10/98 ---< 0.50 < 2.5 < 0.50 < 0.50 < 0.50 < 50 Trip Blank 6/27/96 ---< 2.5 < 0.50 < 0.50 < 0.50 < 0.50 < 50 9/3/96 ---< 2.5 < 0.50 < 0.50 < 0.50 < 0.50 < 50 12/3/96 ------3/5/97 ---< 0.50 < 2.5 < 0.50 < 0.50 < 0.50 < 50 6/3/97 ---< 0.50 < 0.50 < 2.5 < 0.50 < 0.50 < 50 9/16/97 ------< 2.5 < 0.50 < 0.50 < 50 < 0.50 < 0.50 12/9/97 ------< 2.5 < 0.50 < 0.50 < 0.50 < 0.50 < 50 3/10/98

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

Gettier-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 #_9-0191			Job#:		6324.8		
Address: 900				Date:	_	<u> 3 -</u>	10-98	
	meda, CA		· · · · · · ·	Samp	ler: _	E.Cline	9	
Well ID	MW- ~	. We	II Conditio	on:	C	otay		
Well Diameter	in.		irocarbon				ailed _	
Total Depth	15' #		ckness: _	2" = 0.	<u>in.</u> 17	(product/wa 3" = 0.3		(gal.) !" = 0.66
Depth to Water	3.16		ctor (VF)			1.50	12" = 5.80	
·	11,84 ×	v017	2.0	X 3 (case	volume)	= Estimated P	urge Volume:	e. 4 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction			ampling quipment:		Disposable Baller Pressure Baile		
·	Grundfos Other:				C	Grab Sample	_	
Starting Time: Sampling Time: Purging Flow Ra	16:3 6 16:41 te: 2	nom.	Water C	Condition	Ja.	char	Warn Odor: Mcr	n re
	er? Alc			Time:		Volum	ne:	(gal.)
Time 16:37	Volume pH (gal.)		ductivity thos/cm	Tempe •C		D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
16:39 -	7 7.48	5 - 5 - 5	13	1413 14,5				
				INFORMA		0.0.000		Vo EQ
SAMPLE ID	(#) - CONTAINER 3 x 40m/VOA	REFRIG.	PRESER	V. TYPE	LAB SEQUO	ORATORY IA	ANAL TPH-Gas/8TE	
		<u> </u>			·			
	L	1	-				1.	
COMMENTS: _		•	······································					
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Chevron Facili	ty #_9-0191		Job#:	6324.		
Address: 900	Otis Drive		Date:	3-1	0-98	
City:Ala	meda, CA	<u></u>	Sample	r:E.Clin	e	
Well ID		Well Cond	ition:	ckay		
Well Diameter	2" in.	Hydrocarb		Amount E		
Total Depth	<u>19'</u>	Thickness:	2" = 0.17	in. (product/w $3" = 0.3$		(gal.) 1" = 0.66
Depth to Water	1.70 #	Factor (VF)	6" = 1.50	12" = 5.80	
	12.30 ×	VF 0117 = 2.	X 3 (case volu	ıme) = Estimated F	Purge Volume: (6,3 (gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suetion Grundfos Other:	<u> </u>	Sampling Equipment:	Disposable B Bailer Pressure Bail Grab Sample	er	
Starting Time: Sampling Time: Purging Flow Rat Did well de-water	All	Water	ner Conditions: Color: nent Description ; Time:		Odor: MC Cn	
	Volume pH (gal.) 2 7.8 / 7.89 6 7.89 7.90	Conductivity µmhos/cm 970 34953 952 954	Temperation C /3.6 /3.5 /3.5 /3.5	ure D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
CAMPIEND	/#N CONTAINED		Y INFORMATIO			Vose.
MW- 3	(#) - CONTAINER 3 x 40m/VOA	REFRIG. PRESI		LABORATORY QUOIA	ANAL TPH-Gas/BTE	
COMMENTS:						

Chevron Facilit	y #_9-0191			Job#:	6324.	80	
Address: 900	Otis Drive			Date:		10-98	
City:Alar	meda, CA			Sampler	:F.Clir	ne	
Well ID	Y	. Wel	I Condition	:	Chay		
Well Diameter			Irocarbon	6	- Amount I	Bailed	
Total Depth	ft.		ckness:	2" = 0.17	in. (product/w 3" = 0.3	· • • • • • • • • • • • • • • • • • • •	(gal.) 4" = 0.66
Depth to Water	118Z		ctor (VF)		6" = 1.50		0.50
	x	VF	. = :	K 3 (case volu	me) = Estimated l	Purge Volume: _	(gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:			mpling uipment: Oth	Disposable E Bailer Pressure Bail Grab Sample er:	ler e	
Starting Time:			Weather (Conditions:			· · · · · · · · · · · · · · · · · · ·
Sampling Time:	·						
	e:			•	:		
Did well de-water		—	If yes; T	ime:	Volui	me:	(gal.)
	olume pH (gal.)		luctivity hos/cm	Temperatu •C	tre D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	UL CU	1/					
SAMPLE ID	(#) - CONTAINER	LABOF	RATORY IN	FORMATIO	N LABORATORY	ANAL	VSES
MW-	3 x 40m/VOA	Y	HCL		QUOIA	TPH-Gas/BTE	
COMMENTS:					· · · · · · · · · · · · · · · · · · ·		
							,

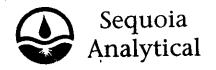
Chevron Facilit	y #_9-0191		Jo	b#: _	6324,8		
Address: 900	Otis Drive		Da	ite: _	3-10	0 98	
City:Alar	meda, CA		Sa	mpler: _	F.Clin	e	
Well ID		Well	Condition:		cacy		
Well Diameter	in.		rocarbon kness:	9 .in.	Amount B)— (gal.)
Total Depth	1,58	Vol	· · · · · · · · · · · · · · · · · · ·	= 0.17	3" = 0.3 : 1.50	8	4" ≈ 0.66
Depth to Water	1100 ft.	L					
	×	VF	= X 3 (c	ase volume)	= Estimated P	urge Volume:	(gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Samplir Equipm	ent: [E F	Disposable Bailer Pressure Baile Grab Sample	er	
Starting Time:	·		Weather Cond	itions: .			
Sampling Time:			Water Color:				
	e:		Sediment Des				
Did well de-water	r?		If yes; Time:	*	Volun	ne:	(gal.)
	olume pH (gal.)		luctivity Te 10s/cm	mperature ∘C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	-W/L	enty					
SAMPLE ID	(#) - CONTAINER	LABOR	ATORY INFOR		BORATORY	ANA	LYSES
MW-	3 x 40m/VOA	Y	HCL	SEQUO		TPH-Gas/BT	
		٠.					
COMMENTS:		<u>.</u>					

	Chevron Facili	ty # <u>9-0191</u>		Job#:	6324.8	30	
City: Alameda, CA Well ID MW- Well Condition: CA Well Condition: CA Well Diameter 2*	Address: 900	Otis Drive		Date:	3-10	78	
Well Diameter 2" in.				Sampler	:F.Clin	e	
Thickness	Well ID	6	Well Condit	ion:	dead		
Total Depth	Well Diameter					<u></u>	(gal)
Purga Disposable Bailer Sampling Equipment: Bailer Equipment: Disposable Bailer Bailer Stack Bailer Suction Pressure Bailer Grundfos Grab Sample Other: Other: Odor: Odo	·	23.62	Volume	2" = 0.17	$3^n = 0.3$	8 4	
Equipment: Bailer Stack Bailer Grab Sample Other:	Depth to Water		VF =	X 3 (case volu	me) = Estimated P	urge Volume: _	(gal.)
Sampling Time:	_	Bailer Stack Suction Grundfos		Equipment:	Bailer Pressure Baile Grab Sample	er	
Purging Flow Rate:gpm. Sediment Description:	Starting Time:						
Did well de-water?							
Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (ppm) LABORATORY INFORMATION SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3 x 40m/VOA Y HCL SEQUOIA TPH-Gas/BTEX/MTBE							
LABORATORY INFORMATION SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3 x 40m/VOA Y HCL SEQUOIA TPH-Gas/8TEX/MTBE	Did well de-wate	er/	If yes;	Time:	Volun	ne:	(gal,)
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3 x 40m/VOA Y HCL SEQUOIA TPH-Gas/BTEX/MTBE	Time			-			Alkalinity (ppm)
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3 x 40m/VOA Y HCL SEQUOIA TPH-Gas/8TEX/MTBE			cn/y				
MW- 3 x 40m/VOA Y HCL SEQUOIA TPH-Gas/BTEX/MTBE	SAMPLE ID	(#) - CONTAINER				ANAL	YSES
COMMENTS:			·		AIOUA	TPH-Gas/BTE.	X/MTBE
COMMENTS:							
	COMMENTS: _						
							·

Chevron Facilit	y # <u>9-0191</u>		_ Jo	b#: _	6324.	30	
Address: 900	Otis Drive		Da	ate: _	310	5-98	
City:Alar	meda,_CA		Sa	ımpler: _	F.Clin	e	
Well ID	мw7	Well C	ondition:		tay		
Well Diameter	2" in.	Hydro Thickr	carbon	in	Amount E	Bailed	(gal.)
Total Depth	3,54 tt	Volun		= 0.17			" = 0.66
Depth to Water	210 / ft.						
	x	VF =	X 3 (c	ase volume)	= Estimated P	'urge Volume: _	(gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Samplir Equipm	ent: C B P	Disposable B Bailer Pressure Bail Grab Sample	er	
Starting Time:		W	eather Cond	litions: _			
Sampling Time:		w	ater Color:			Odor:	
	e:e	•		•			
Did well de-water		If	yes; Time:		Volun	ne:	igal_)
	olume pH (gal.)	Conduc µmhos		emperature •C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	W	cny					
SAMPLE ID	(#) - CONTAINER		TORY INFOR		ORATORY	ANAL	YSES
MW-	3 x 40m/VOA	Υ	HCL	SEQUO		TPH-Gas/BTE	X/MTBE
						<u> </u>	
COMMENTS:							
		-					

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Chevron U.S.A P.O. BOX 50 San Ramon, CA FAX (415)842	004 \ 94583	Cons	Facility Suitant Prosuitant No	oject Num ome(6747 :	mber 63 Gettle Sierra	0191 Otis Dri 324.80 er-Ryan a Ct, Ste Deanna Ha 51-7555	J, D	ublln	945	68	38	 ι	Laborator	y Name	(Nome) (Phone) SEQUO vice (od by (No	(510 OIA	0) 84	2-91	36 Ser		Code: 22	02790
Sample Number	Lab Sample Number	Number of Containers	Mothx S = Soil A = Ar W = Water C = Charcool	Type 6 m Grab C m Composite D m Discrete	1	Sample Preservation	Iced (Yes or No.)	TPH G → B TEX W/MTBE (8015) (8020)	TPH Diesel (8015)	Oil and Greame (5520)	Purgeable Halocarbons (8010)		Analy•	• To f	Metale Cd,Cr,Pb,Zn,Ni (ICAP or AA)	mod						ANALYSIS É 12 ()↓
TB-43.		2	W	73		the	7_	X	ļ				<u> </u>						-	 		
MW-2		3_		6	104)	1	 	<u> </u>		ļ	<u> </u>							_	-	-		
MW-3		3	4	6	1651	<i>b</i>	6	X														
· .																						
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Relinquished By S Relinquished By S Relinquished By S Relinquished By S	Signature)		G- oro	, , , , , , , , , , , , , , , , , , , 	3	Date/Time 3-11-98/0800 Date/Time 0/11/98/ Date/Time	/Req	colleg b	CLA y (Signa NVA	alloturo)	ng W By (Signo	5	Organizal G-R I Organizal	inc.	3/1 2010	Time (1/2 %)	9.10		Turn A	24 48 5	me (Circle Ch Hrs. B Hrs. Doys Doys antracted	olo•)
Relinquished By (S	(Signayuro) Mwz	lh	-	anization GNC	i i	Date/TIMe 3/17/98	VR•	dijihid F	or Labo	oratory B	y (Signo	πur•)			17/16	·/ 14114			<u></u>	_ ^a_G	antrones,	



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

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

Gettler Ryan/Geostrategles Client Proj. ID: Chevron 9-0191, Alameda
6747 Sierra Court Suite J Sample Descript: TB-LB Dublin, CA 94568

Attention: Deanna Harding

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9803845-01

Sampled: 03/10/98 Received: 03/12/98

Analyzed: 03/23/98 Reported: 03/26/98

QC Batch Number: GC032398802009A

Instrument ID: GCHP09

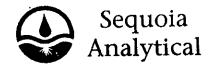
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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 98

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

SEQUOIA ANALYTICAL -ELAP #1271

Mike Gregory Project Manager



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

Sampled: 03/10/98

Received: 03/12/98

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

ttler Ryan/Geostrategies Client Proj. ID: Chevron 9-0191, Alameda Sample Descript: MW-2

Matrix: LIQUID

Analysis Method: 8015Mod/8020
Attention: Deanna Harding Lab Number: 9803845-02 Analyzed: 03/23/98 Reported: 03/26/98

QC Batch Number: GC032398802009A

Instrument ID: GCHP09

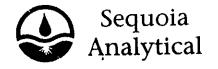
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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 98

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

SEQUOIA ANALYTICAL - ELAP #1271

Mike Gregory Project Manager



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

☐ Gettler Ryan/Geostrategies Cl ☐ 6747 Sierra Court Suite J Sa ☐ Dublin, CA 94568

ient Proj. ID: Chevron 9-0191, Alameda Client Proj. ID: Chevro Sample Descript: MW-3 Matrix: LIQUID

QC Batch Number: GC032398802009A Instrument ID: GCHP00

Sampled: 03/10/98 Received: 03/12/98

Analyzed: 03/23/98 Reported: 03/26/98

3

Instrument ID: GCHP09

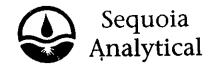
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Anaiyte	Det	ection Limit ug/L	Sai	mple Results ug/L
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		2.5 0.50		290 6.7 18 1.6 N.D. N.D. Gas
Surrogates Trifluorotoluene	Co n 70	trol Limits %	% R 30	ecovery 112

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

SEQUOIA ANALYTICAL -ELAP #1271

Mikedaregory Project Manager



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

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Gettler Ryan/Geostrategies Client Proj. ID: Chevron 9-0191, Alameda Received: 03/12/98 6747 Sierra Court Sulte J Dublin, CA 94568 Attention: Deanna Harding

Lab Proj. ID: 9803845

Reported: 03/26/98

LABORATORY NARRATIVE

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

SEQUOIA ANALYTICAL

Mike Gregory Project Manager

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Gettler Ryan/Geostrategles 6747 Sierra Court, Ste J Client Project ID:

Chevron 9-0191, Alameda

Matrix:

Liquid

Dublin, CA 94568

Attention: Deanna Harding

Work Order #:

9803845 -01-03

Reported:

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Apr 9, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032398802009A	GC032398802009A	GC032398802009A	GC032398802009A	GC032398802009A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8031047	8031047	8031047	8031047	8031047
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/23/98	3/23/98	3/23/98	3/23/98	3/23/98
Analyzed Date:	3/23/98	3/23/98	3/23/98	3/23/98	3/23/98
strument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	350 μg/L
Result:	20	21	21	64	330
MS % Recovery:	100	105	105	107	94
Dup. Result:	22	23	23	70	370
MSD % Recov.:	110	115	115	117	106
RPD:	9.5	9.1	9.1	9.0	11
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS032398	LCS032398	LCS032398	LCS032398	LCS032398
Prepared Date:	3/23/98	3/23/98	3/23/98	3/23/98	3/23/98
Analyzed Date:	3/23/98	3/23/98	3/23/98	3/23/98	3/23/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	350 μg/L
LCS Result:	21	22	22	68	370
LCS % Recov.:	105	110	110	113	106
_					
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

aregory ofect Manager

Elap #1271

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