October 31, 2000 G-R Job #386456

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

RE: Third Quarter Event of July 27, 2000

Groundwater Monitoring & Sampling Report

Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, Čalifornia

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

No. 6676

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding

namaru

Project Coordinator

Barbara Sieminski

Senior Geologist, R.G. No. 6676

Figure 1:

Potentiométric Map

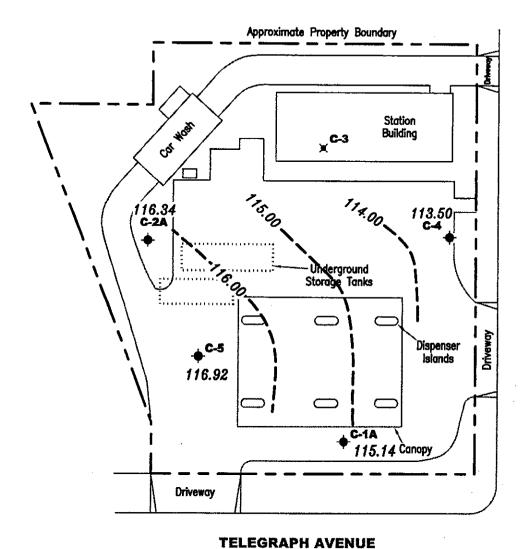
Table 1:

Groundwater Monitoring Data and Analytical Results

Attachments: Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

Groundwater monitoring well

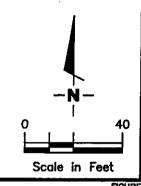
Destroyed groundwater monitoring well

99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)

Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.03 Ft./Ft.

REVISED DATE



Source: Figure modified from drawing provided by RRM engineering contracting firm.



PROJECT NUMBER

Gettler - Ryan Inc.

REVIEWED BY

6747 Sierra Ct., Suite J Dublin, CA 94568

(925) 551-7555

POTENTIOMETRIC MAP

Chevron Service Station #9-0338 5500 Telegraph Avenue Oakland, California

55TH STREET

DATE

July 27, 2000

386456

FILE NAME: P:\ENVIRO\CHEVRON\9-0338\Q00-9-0338.DWG | Layout Tab: Pot3

Table 1
Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338 5500 Telegraph Avenue Oakland, California

Vertical Measurements are in feet.

Vertical Measur	ements are in feet.			Oakland,	California		Analytical values are in parts per billion (ppb					
	Well	Ground	Depth				7 than y th	car values are in pa	res per omnon (ppo			
DATE	Head	Water	To	TPH-	Benzene	Toluene	Ethyl-	Xylenes	MTBE			
	Elev.	Elev.	Water	Gasoline			Benzene	Ayrenes	MIBE			
			-		***							
C-1A												
05/27/99	123.27	115.93	7.34	9100	40	25	560	1900	35			
09/02/99	123.27	115.72	7.55	9700	24	18.4	626	754	66			
10/27/99	123.27	115.84	7.43	4740	<10	<10	276	270	<100/66.6 ²			
02/11/00	123.27	115.27	8.00	5100	17.5	<10	182	333	<50			
05/10/00	123.27	116.65	6.62	11,000 ¹	110	170	480	980	<500			
07/27/00	123.27	115.14	8.13	6,200 ¹	<50	<50	540	150	<250			
C-2A												
05/27/99	105.00	***										
	125.89	119.53	6.36	<50	<0.5	<0.5	<0.5	<0.5	44			
09/02/99	125.89	117.04	8.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5			
10/27/99	125.89	116.65	9.24	<50	<0.5	<0.5	<0.5	<0.5	8.75/7.77 ²			
02/11/00	125.89	117.64	8.25	<50	<0.5	<0.5	<0.5	<0.5	17.8			
05/10/00	125.89	117.46	8.43	<50	<0.50	<0.50	< 0.50	< 0.50	3.2			
07/27/00	125.89	116.34	9.55	<50	<0.50	<0.50	<0.50	<0.50	20			
C-4												
05/27/99	125.40	115.34	10.06	<50	<0.5	<0.5	<0.5	<0.5	44			
09/02/99	125.40	114.89	10.51	<50	<0.5	<0.5	<0.5	<0.5	3.1			
10/27/99	125.40	115.03	10.37	<50	<0.5	<0.5	<0.5					
02/11/00	125.40	114.48	10.92	<50	<0.5	<0.5		<0.5	<5.0/<2.0 ²			
05/10/00	125.40	116.28	9.12	<50	<0.50		<0.5	<0.5	2.79			
07/27/00	125.40	113.50	11.90	<50		<0.50	<0.50	<0.50	<2.5			
- · · · · · · ·	, AMDITU	110.00	11.70	<3U	<0.50	<0.50	<0.50	<0.50	<2.5			

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338 5500 Telegraph Avenue Oakland, California

Vertical Measurements are in feet.

Vertical Measurer	ments are in feet.			Oakland,	California	Analytical values are in parts per billion (ppb)					
	Well	Ground	Depth				-	,	9,50		
DATE	Head	Water	To	TPH-	Benzene	Toluene	Ethyl-	Xylenes	MTBE		
	Elev.	Elev.	Water	Gasoline			Benzene				
C-5											
05/27/99	124.15	117.54	6.61	2800	350	73	32	280	2,200/2,500 ²		
09/02/99	124.15	116.27	7.88	570	9.0	<2.5	<2.5	<2.5	890		
10/27/99	124.15	116.90	7.25	543	4.22	<0.5	3.28	<0.5	845/1,080 ²		
02/11/00	124.15	117.41	6.74	488	0.56	<0.5	1.45	<0.5	565		
05/10/00	124.15	118.36	5.79	140¹	3.6	1.2	0.53	2.0	380		
07/27/00	124.15	116.92	7.23	260¹	1.4	1.2	0.93	2.8	460		
TRIP BLANK											
05/27/99				<50	<0.5	<0.5	<0.5	<0.5	<2.5		
09/02/99				<50	<0.5	<0.5	<0.5	<0.5	<2.5		
10/27/99				<50	<0.5	<0.5	<0.5	<0.5	<5.0		
02/11/00				<50	<0.5	<0.5	<0.5	<0.5	<2.5		
05/10/00			***	<50	< 0.50	<0.50	<0.50	<0.50	<2.5		
07/27/00				<50	< 0.50	<0.50	<0.50	<0.50	<2.5		

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338
5500 Telegraph Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TPH = Total Petroleum Hydrocarbons MTBE = Methyl tertiary butyl ether

-- = Not Measured/Not Analyzed

² Confirmation run.

Laboratory report indicates gasoline C6-C12.

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 an 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 for all samples. 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.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility <u>#</u>	9-03	38			loh	#•	386L	156	
Address: 4			n oh	AVE	Dat			27 - 00	
City: Oa	V land	ار بدی	$\sim \Delta$						
City. Co.	NIUN	<u> </u>	<u></u>		San	npier: _	- FILZ	WKT.	
Weil ID	C-	IA	v	Vell Conditi	on:		o'ul		
Well Diameter	r <u> </u>	 in	H	lydrocarbor	1 _	*	Amount	Bailed	
Total Depth	10	I-11 n		hickness:	<u>-e</u>		(product/v		Gallons
Depth to Wat	er <u>8</u>	.13 tt		Volume Factor (VF)	2" =	0.17 6* ==	3" = 0. 1.50	38 12" = 5.80	4" = 0.66
	·	98 x	vf <u>. [</u>	7 - 1.80	PX 3 (cas	· . • volume) •	= Estimated ∣	Purge Volume:	5.59 (gal.)
Purge Equipment:	(Dispos Baller Stack Suctio Grund	sable Bailer n)	Sı	ampling	t: (Di Ba Pr Gi	isposable E ailer essure Bai rab Sample ther:	Bailer) Ier	
Starting Time:	1	1:28	· · · · · · · · · · · · · · · · · · ·	Weather	Conditio	nne•	Sur	יאלע	
Sampling Time		2118						Odor:(165
Purging Flow	Rate:		nom.						
Did well de-wa	ater?	No	· ·	If yes;	Time: _		Volui	ne:	(gal.)
Time 12:01	Volume (gal.) 2 · 0	_{рн} 7.1	441	nductivity mhos/cm X1 3 SU	Temp	8.4	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:05	4.0	_7:15	· —	453	6	8.2			
12.09	<u>(0.0</u>	7.2	<u> </u>	482		80		·	
								•	·
		·				•			***
			LABO	RATORY IN	FORMA	TION			
SAMPLE ID	(#) - CON		REFRIG.	PRESERV.	TYPE		RATORY	ANAL	
C- 1 A	3- vo	AVIAL	Υ	HCL		SEQUOIA		TPH(G)/btex/r	ntbe
				<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	• •	
									· · · · · ·
COMMENTS:									
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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility#	9-0338	·		Job#:	386L	156	
	500 Teleg	raph	AVC.			27-00	
	land			Sampler: _			
Well ID	<u>C- 4</u>	_ w	ell Condition	n:	2/2		
Well Diameter	2"	Th	drocarbon ickness:	€ (feet)	Amount	Bailed	
Total Depth Depth to Water	19.10	# [²	olume actor (VF)	$2^{n} = 0.17$			4" = 0.66
			? = <u>1.22</u> x	(3 (case volume)	- Estimated	Purge Volume:	3.67 (gal.)
Purge Equipment:	CDisposable Ball Bailer Stack Suction Grundfos Other:		San	npl ing ipment: (Di Be Pr Gi	sposable E siler essure Bai rab Sample ther:	Bailer) ler	
Starting Time: Sampling Time: Purging Flow Re			Water Cole	conditions: or:CLEM Description:	N.	Odor:	No.
Did well de-wate	•	<u> </u>		me:			
10:34	olume pH	29 0	ductivity thos/cm X/0	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1011	$\frac{3.0}{4.0}$ $\frac{7.6}{7.}$		573 559	67.1			
				•			***
SAMPLE ID	(#) - CONTAINER	LABOR REFRIG.		ORMATION YPE LABOR	iATORY	ANAL	YSES" "
c- 4	3 - VOAVIAL	Y	HCL	SEQUOIA		TPH(G)/btex/r	ntbe
	·						
COMMENTS:				<u> </u>			
			 		· 		

Tux C	Эру	10	Lab	b Repor	rt and	d CO	JC to	o Ch	nevro	on (Cont	.act:	<u></u>	No				Ch/	ain-	-of	- C,	ietr	ody-Rec
Chevron Pro			1.	ovron Facility h Facility A noullant Project	Address 55	500 TE	ELEGRA	APH_A	VE(OAKL!	AND	CA.	_!	1	•	(Pho	orne) <u>M</u>	MR. TO (925)	FOM BA	AUHS -8898	8		<u> </u>
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iample Number	Number of Containers	Metric S = Soil A = Ar W = Water C = Charcool	iomple Preservation	_bote/Time	EX/MBE+TPH GAS	(8020 + 8015) BIEX + TPH GAS (8020 + 8015)	State	Met (0928	Hodomorpous Holocarbons (2010)	rgeable Organics [K]	A270)	OR Create Octor	Cres or M)	WA (X/MBE/Naph.	N Sei	TPH-D Extended	□ c	;o [JUT	ID	рано	Remarks
BLB	I	1		7-27		55	P	8-	1	1	35	85	₹ 31	E8	(E.S.)	E	<u></u>	+	+		+	<u> </u>	Lob Sample
2-1A	3	41	1	12:19							1			1			 	•	-	 	-	+-	ONAL
2-2A	3	4	4	11:13		 -											 	 	 	-	+	+-	03/
2-4	3	4	1		50 4												<u> </u>		1	 	+-	+	0+
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404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

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

Project: Chevron

Project Number: Chevron #9-0338 Project Manager: Deanna L. Harding

Reported:

09-Aug-00 08:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	
TB-LB	W007563-01	***		Date Received
C-1A	·	Water	27-Jul-00 00:00	27-Jul-00 16:35
3-2A	. W007563-02	Water	27-Jul-00 12:18	27-Jul-00 16:35
	W007563-03	Water		27-Jul-00 16:35
-4	W007563-04	Water		
·S	W007563-05		27-Jul-00 10:50	27-Jul-00 16:35
	W00/363-03	Water	27-Jul-00 11:50	27-Jul-00 16:35

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.





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

Dublin CA, 94568

Project: Chevron

Project Number: Chevron #9-0338 Project Manager: Deanna L. Harding

Reported: 09-Aug-00 08:59

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
C-4 (W007563-04) Water	Sampled: 27-Jul-00 10:50	Received: 2	7-Jul-00	16:35					
Purgeable Hydrocarbons	ND	50	ug/l	1	0H02003	02-Aug-00	02-Aug-00	EPA	
Benzene	ND	0.50	71		Ħ	71	11	8015M/8020	
Toluene	. ND	0.50	11		**	tı	" H		
Ethylbenzene	ND	0.50	•	н	Ħ	11	" H	11	
Xylenes (total)	ND	0.50	н	"	11	"		"	
Methyl tert-butyl ether	ND	2.5	**	н	ŧr	"	**		
Surrogate: a,a,a-Trifluoroto	uene	93.0 %	70-	130	<i>n</i>	,,		"	
C-5 (W007563-05) Water	Sampled: 27-Jul-00 11:50	Received: 27	/-Jul-00 1	16:35					P-01
Purgeable Hydrocarbons	260	50	ug/l	1	0H02003	02-Aug-00	02-Aug-00	EPA	1-01
Benzene	1.4	0.50	I†	п	•		h	8015M/8020	
l'oluene	1.2	0.50	**	er	Ħ	n	**	" .	
Cthylbenzene	0.93	0.50	н		**	n	 H		
- my roomsome		0.50		**	*	 H	"	n	
(ylenes (total)	2.8	17313				-	77	H	
-	. 2.8 460	2.5	н	н	**	. 11	н	н	



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Chevron

Project Number: Chevron #9-0338 Project Manager: Deanna L. Harding Reported:

09-Aug-00 08:59

Notes and Definitions

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