



November 14, 1994

Chevron U.S.A. Products Company 6001 Bollinger Canyon Rd., Bldg. L P.O. Box 5004 San Ramon, CA 94583-0804

Site Assessment & Remediation Group Phone (510) 842-9500

Arry plans to uniestrigate medeen strp of sever trents denn Anador Villey Bligh?

Ms. Eva Chu Alameda County Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station No. 9-2621 7667 Amador Valley Blvd., Dublin, CA 94568

Dear Ms. Chu:

Monitoring wells MW-2, MW-4, and MW-5 were both non-detect for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylene (BTEX). Wells MW-1 and MW-3 detected minor levels of dissolved hydrocarbons. The detection of petroleum hydrocarbons appears to be anomaly because the well is located up-gradient of any potential source. MW-1 detected 0.9 ppb toluene and it also appears to be anomaly because no other constituents were detected.

Chevron will continue to monitor and sample the site.

For additional information, please refer to Sierra Environmental Services monitoring and sampling report dated November 5, 1994. If you have any questions or comments, please call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan Engineer

LKAN/MacFile 9-2621R9

cc: Mr. Richard Hiett, RWQCB-S.F.Bay Region 2101 Webster Street, Suite 500, Oakland, CA 94612

Mr. Jerry Lemm, J. L. Lemm & Associates 5506 Sunol Blvd., Suite 203, Pleasanton, CA 94566-7779

Ms. Bette Owen, Chevron U.S.A. Products Co.



November 5, 1994

Kenneth Kan Chevron USA Products Company P.O. Box 5004 San Ramon, CA 94583

Re:

Former Chevron Service Station #9-2621

7667 Amador Valley Boulevard

Dublin, California SES Project #1-380-04

Dear Mr. Kan:

This report presents the results of the quarterly ground water sampling at Former Chevron Service Station #9-2621, located at 7667 Amador Valley Boulevard in Dublin, California. Five wells, MW-1 through MW-5, were sampled (Figure 1).

On October 7, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on October 7, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are inleuded. All analyses were performed by Superior Precision Analytical, Inc. of Martinez, California. Analytic results for ground water are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.

Sincerely,

Sierra Environmental Services

Luda Chernyak Staff Teghnician

L. Chernyak

Chris J. Bramer

Professional Engineer #C48846

LAC/CJB/lmo 38004QM.NO4

Attachments

Figure Table

SES Standard Operating Procedure

Field Water Sampling Forms

Chain of Custody Document and Laboratory Analytic Reports

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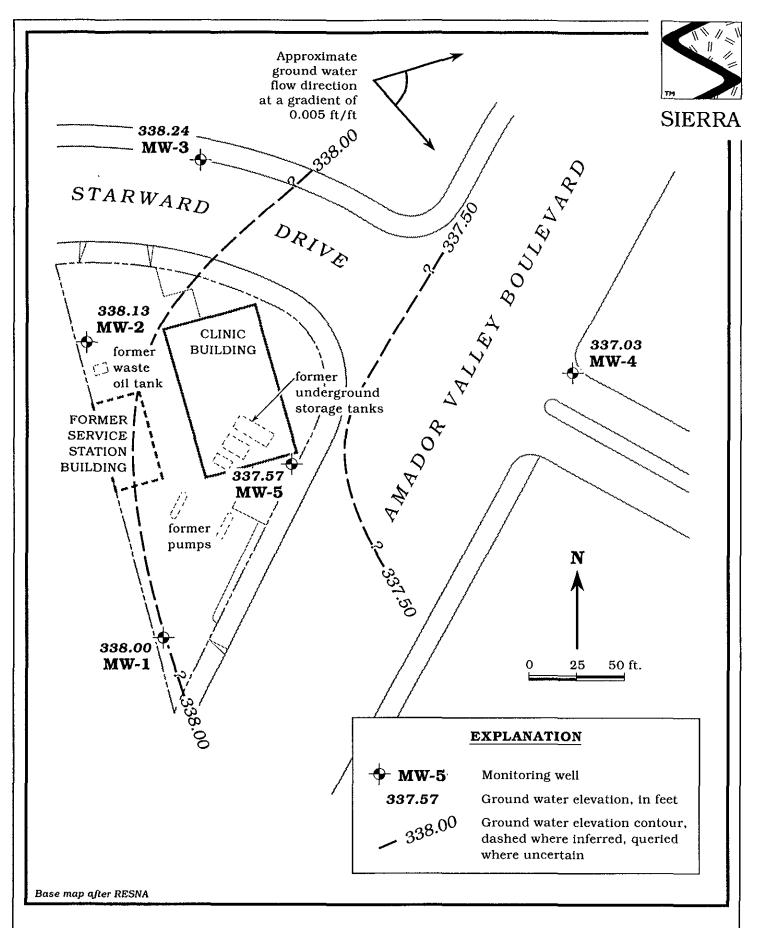


Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - October 7, 1994 - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness*	Analytic Method	TPPH(G) <	B 	T ppb-	E	X
				(ft)						
MW-1/	9/23/93	6.62	340.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
346.73	3/11/94	7.16	339.57	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94	7.54	339.19	0	8015/8020	<50	< 0.5	0.8	<0.5	2.0
	10/7/94	8.73	338.00	0	8015/8020	<50	<0.5	0.9	<0.5	<0.5
MW-2/	9/23/93	8.11	340.30	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
348.41	3/11/94	8.60	339.70	0	8015/8020	<50	< 0.5	< 0.5	<0.5	<0.5
	6/15/94	8.95	339.46	0	8015/8020	<50	0.5	0.7	<0.5	2.2
	10/7/94	10.28	338.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
MW-3/	9/23/93	7.04	340.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
347.14	3/11/94	7.44	339.70	0	8015/8020	<50	< 0.5	<0.5	<0.5	<0.5
	6/15/94	7.83	339.31	0	8015/8020	<50	<0.5	0.6	<0.5	2.0
	10/7/94	8.90	338.24	0	8015/8020	130	<0.5	1.6	1.2	6.9
MW-4/	9/23/93	5.12	338.40	О	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
343.52	3/11/94	5.45	338.07	0	8015/8020	<50	< 0.5	<0.5	<0.5	<0.5
	6/15/94	5.82	337.70	0	8015/8020	<50	<0.5	0.7	<0.5	2.2
	10/7/94	6.49	337.03	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
MW-5/	3/11/94	6.10	339.41	o	8015/8020	770	1.4	37	5.6	10
345.51	6/15/94	6.48	339.03	0	8015/8020	650	1.5	38	12	5.5
	10/7/94	7.94	337.57	O	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
ГВ-LВ	9/23/93				8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	3/11/94				8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/15/94				8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	10/7/94				8015/8020	<50	<0.5	<0.5	<0.5	<0.5



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California (continued)

EXPLANATION:

DTW = Depth to water

TOC = Top of casing elevation

GWE = Ground water elevation

msl = Measurements referenced relative to mean sea level

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

ppb = Parts per billion

--- = Not applicable/not available

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)

8015 = Modified EPA Method 8015 for TPH(D)

8020 = EPA Method 8020 for BTEX

NOTES:

 Product thickness was measured on and after June 15, 1994 with an MMC flexi-dip interface probe.

Water level data and groundwater analytic results prior to June 15, 1994 were compiled from the Additional Subsurface Environmental Investigation Report prepared for Chevron by RESNA, April 27, 1994.

38004T.WLG



SES STANDARD OPERATING PROCEDURE GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed ±0.5°F, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Prepreserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.



Job Name	7667	4mabor (380-04	ALLEY	Job Numbe			Sampler	i R
		4-1		Date 10		•	Well Diamete	
				GH ON BO	70 4 TV		Well Depth (s	
Depth to V	Vater (sta	itic) _8 -7.5		Well Depth			Treat Depth (s	spec.)
Initial heig	tht of wat	er in casing '		Volume		Formulas/Conversions r = well radius in ft		
Volume to				5_			h = ht of	water col. in ft
		ALLE		Sampled W	ith Desp	BAILER	7.48 gal,	
)гу? Yes			After	gallo	V_2 " casin V_3 " casin	ng = 0.163 gal/ft ng = 0.367 gal/ft
Water level	l at samp	oling		Perc	ent Recove	:гу	V," casin	g = 0.653 gal/ft
							V ₄₅ casi	ng = 0.826 gal/ft g = 1.47 gal/ft
CHEMICA	L DATA						V _s " casin	g = 2.61 gal/st
Purg	e Time	Purge V	7olume	Cumulative	1		0 40 0	_
Start	Stop			(gal.)	рН	Temp (°C)		nductance
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	12.0	1 2		4	7.43	1	11.16	X 000
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SAMPLES Water color Description Additional (RRC1	ب	12:10 rial in s	Odor ample: Hier	_NO ₆	Urged (gal.)		
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		<u> </u>						
			 					
•	·	·						
			<u> </u>	-				
			l					
Container Ty	pe Codes		~~~/ (()) (44 HHCU C2111 ISTN2	יות כוס עווי	→ I/Λ!!!Δ! hallam	leflon lined cap e/polyethylene c	/



	76607 1	Ami	ADOR V.	ALLEY	1	TOR OTHE						
Job Name				·		Job Numbe		•	San	npler	<u>B.</u>	
Well Num						Date 10 -	<u>. 1 . 94</u>	-	Wel	l Diamete	г_2	11
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Volume to							gallon			h = ht of vol. in cy	water	col. in ft
Purged Wi						Sampled Wi	ith <u>DISO.</u>	BALLER		7.48 gal/	/ſt³	
Pumped of							After _	gallor	าร	V ₂ " casin V ₃ " casin	g = 0.1 g = 0.3	63 gal/ft 67 gal/ft
Water leve	l at samp	ling		·		Perce	ent Recov	егу		V₄" casin	g = 0.6	53 gal/ft
							,		·	V₅" casin	g = 1.4	826 gal/st 7 gal/st
CHEMICA	L DATA									V _s " casin	g = 2.6	l gal/ft
Pure	ge Time	·	Purge V	olume		umulative	<u> </u>	T				
Start	Stop	_	(gal			(gal.)	pН	Temp (°C)		pecific Co		
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	12:3		2			3	1.35	10.2		7.90		1,000
	12:3	_ 1	1			4			<u></u>	3.40		/
									<u></u>			V
SAMPLES Water color	r					Odor		urged (gal.) _				
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Additional	Comment	.s: _										
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				··						<u>.</u>		
Sample ID	# of Cont.	Co	ontainer Type	Filter (size.		Preserva		Refrig.		Lab		alysis
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1.100		ļ <u>.</u>				HC	- \	YES	5	PA	GAS	BIER
			•						ļ			
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<u>l</u>			arti-									
Container T	pe Codes	: 1,	40 ml ∈	clear V	OA/	Teflon septa	a; 2 = B	rown glass/t	ellon	lined can	lenn	oifir circle
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SH.		,	- Ouiei					6 = Other				



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Sample Po	int Locat	ion/	Descripti	on <u>V. 5</u>	UE	OF STARLIA	ed De	•	· · · · · · · · · · · · · · · · · · ·	Well	Depth (s	spec.)	
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Volume to	be purge	d				_ 4					h = ht of	water col. i	n ft
Purged Wit	h <u>B</u>	سد	<u> </u>			Sampled Wi					vol. in cy 7.48 gal,	'l. = πr²h 'ft³	
Pumped or	Bailed I	ry?	Yes	1/1	о	Time				ıs	V ₂ * casin	g = 0.163 g g = 0.367 g	al/ft
Water level	at samp	ling				Perc	ent Reco	ver	γ		V ₄ " casin	g = 0.653 g	al/ft
										·	V _{4.5} " casi V ₅ " casin	ng = 0.826 g = 1.47 ga	gal/ft l/fi
CHEMICA	DATA										V, casin	g = 2.61 ga	/ft
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					CIR ROCOVO	.13]	V45" casi	ng = 0.826 gal/ft g = 1.47 gal/ft
CHEMICA	L DATA							V." casin	g = 2.61 gal/ft
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·	I	<u>-</u>	(1:30			<u> </u>	· · · · · · · · · · · · · · · · · · ·		
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Container Type Codes: 1 = 40 ml clear VOA/Tesson septa; 2 = Brown glass/tesson lined cap (specify size); 3 = Clear glass/tesson lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____; 6 = Other _____;



Job Name	1441	380-04	VALLEY	Job Numbe	er 1-38	30-04	Sampler	<u>.</u> R.		
		<u> </u>		Date 🛛 🙆	-7.94		Well Diameter 2"			
Sample Po	int Locat	ion/Descrip	tion 🖃	AST ON RE	O HETY		Well Depth (s			
Depth to W	ater (sta	tic)	4	Well Depth				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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		ry? Ye				gallo:	V ₂ " casin	g = 0.163 gal/ft		
		ling	_			егу	V," casin	g = 0.367 gal/ft g = 0.653 gal/ft		
						-J	V45 Cast	ng = 0.826 gal/ft g = 1.47 gal/ft		
CHEMICAL	DATA						V," casin	g = 2.61 gal/ft		
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(300	Стор	<u> </u>			P	remp (c)	Measurement	x umhos/cm		
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	12:0		1	3	6.94	70.5	9.92	K 1,000		
	13:19		1	4	6.89		940			
		,			0.01	- V	140			
SAMPLES (Water color Description Additional (of sedim	ents or mat	erial in s		NO	urged (gal.) _				
			•							
Sample ID	# of Cont.	Container Type	Filter (size,		ative e)	Refrig. (Y/N)	Lab (Init)	Analysis Requested		
May-5	3	1		HC	-1	YES	SPA	GAS/BIEX		
Container To	ne Codos	1 = 40 ==1	-1-	104 / 50 5	···················		<u> </u>			
	pe coues;	- Cicai j	siass/ tem	OA/Tellon sept on lined cap (spec	::::V S12.e1: 4 :	= Polvethulen	eflon lined cap	(specify size); ap (specify size);		

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Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental Services Attn: Ed Morales Project 1-380-04 Reported 10/17/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15849- 1	MW-1	10/07/94	10/17/94 Water
15849- 2	MW-2	10/07/94	10/14/94 Water
15849- 3	MW-3	10/07/94	10/14/94 Water
15849- 4	MW-4	10/07/94	10/14/94 Water
15849- 5	MW-5	10/07/94	10/14/94 Water
15849- 6	TB-LB	10/07/94	10/14/94 Water

RESULTS OF ANALYSIS

	Laboratory Number:	15849- 1	15849- 2	15849- 3	15849- 4	15849- 5
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Gasoline_Range:	ND<50	ND<50	130	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	0.9	ND<0.5	1.6	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	ND<0.5	6.9	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L
* - 1					

Laboratory Number: 15849- 6

Gasoline Range:	ND<50
Benzene:	ND<0.5
Toluene:	ND<0.5
Ethyl Benzene:	ND<0.5
Total Xylenes:	ND<0.5

Concentration: ug/L

Page 1 of 2

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CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 15849

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F: Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline_Range:	79/96	19%	56-117
Benzene:	97/100	3%	59-149
Toluene:	95/99	48	59-149
Ethyl Benzene:	95/98	3%	59-149
Total Xylenes:	102/103	1%	59-149

Senior Chemist Account Manager

Certified Laboratories —