August 29, 1995

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

Re:

Former Chevron Service Station #9-3356

No. 5577

19201 Center Street Castro Valley, CA Job #5202.80

Dear Mr. Kan:

This report documents the groundwater sampling event performed by Gettler-Ryan, Inc. (G-R). On August 1, 1995, field personnel were on-site to gauge and sample three wells (MW-1, MW-2 and MW-3) at Former Chevron Service Station #9-3356 located at 19201 Center Street in Castro Valley, California.

Static groundwater levels were measured on August 1, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site 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 - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical, Inc. Analytic results are presented in Table 1. The chain of custody document and laboratory analytic reports are enclosed. G-R is not responsible for laboratory omissions or errors.

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

Sincerely

Argy Leyton
Environmental Project Manager

Stephen J. Carter

Senior Geologist, R.G. 5577

AML/SJC/dlh 5202.QML

Figure 1:

Potentiometric Map

Table 1:

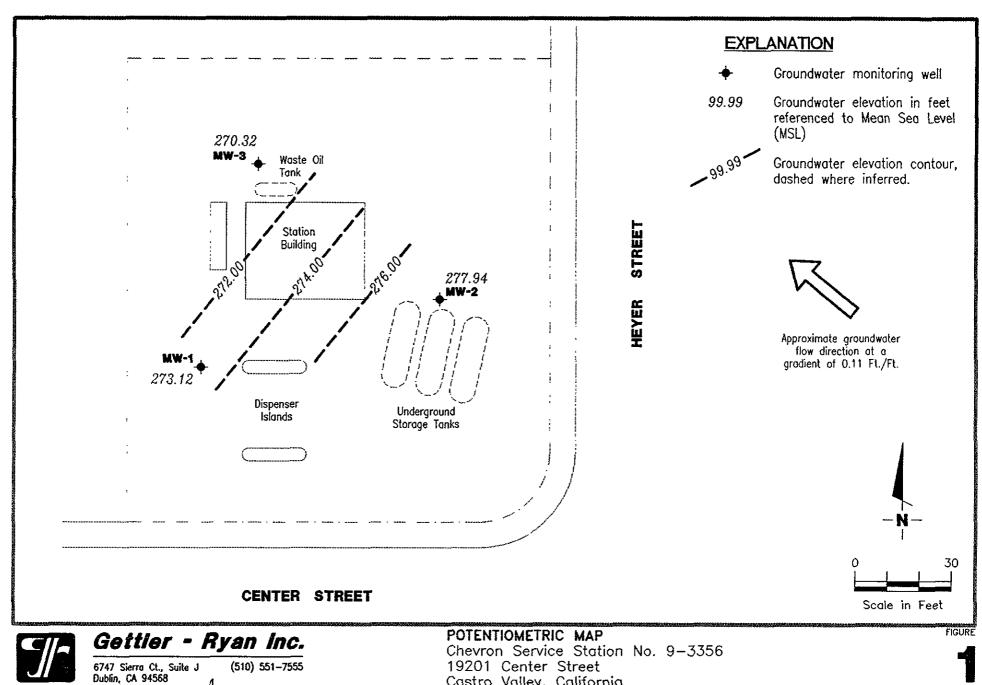
Water Level Data and Groundwater Analytic Results

Attachments:

Standard Operating Procedure

Field Data Sheets

Chain of Custody Document and Laboratory Analytic Reports



Castro Valley, California DATE

REVISED DATE

JOB NUMBER 5202.80

August 1, 1995



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-3356, 19201 Center Street, Castro Valley, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft) <	TPH(G)	В	T ppb	E	х	ORG-Pb
			······································	.,						
MW-1	09/06/89	18.25	266.97		< 1.000	< 0.5	<0.5	< 0.5	< 0.5	< 50
285.22	09/12/89	18.39	266.83							
	11/20/89	18.06	267.16		< 500	< 0.3	< 0.3	< 0.3	<0.6	< 50
	02/22/90	18.04	267.18		< 50	< 0.3	< 0.3	< 0.3	<0.6	< 50
	05/29/90	18.55	266.67	***	< 50	0.3	< 0.3	< 0.3	< 0.6	< 50
	09/27/90	19.13	266.09		< 50	< 0.3	< 0.3	< 0.3	< 0.6	
	01/16/91	19.32	265.90		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	09/19/91	19.36	265.86	~	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/23/92	19.81	265.41		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/23/92	19.81	265.41		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/15/92	18.04	267.18		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	07/22/92	18.75	266.47		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	10/14/92	19.25	265.97	***	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/13/93	17.12	268.10		< 50	< 0.5	0.8	< 0.5	0.8	
	04/29/93	15.38	269.84	0.00	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	07/26/93	15.71	269.51	0.00	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	10/25/93	16.22	269.00	0.00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	08/01/95	12.10	273.12	0.00	< 504	< 0.5	< 0.5	< 0.5	< 0.5	
MW-2/	09/06/89	13.72	272.44	***	23	1	4	1	4	< 50
286.16	09/12/89	13.97	272.19							
	11/20/89	13.81	272.35		< 500	< 0.3	< 0.3	< 0.3	< 0.6	< 50
	02/22/90	13.68	272.48		< 50	< 0.3	< 0.3	< 0.3	< 0.6	< 50
	05/29/90	13.92	272.24		< 50	2	< 0.3	< 0.3	< 0.6	< 50
	09/27/90	14.75	271.41		< 50	< 0.3	< 0.3	< 0.3	< 0.6	
	01/16/91	14.44	271.72		< 50	9	< 0.5	< 0.5	2	
	09/19/91	14.46	271.70		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	09/19/91	14.46	271.70		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/23/92	14.73	271.43		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/15/92	13.03	273.13		< 50	< 0.9	< 0.5	< 0.5	< 0.5	
	07/22/92	13.83	272.33		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	10/14/92	14.35	271.81		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/13/93	12.34	273.82		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/29/93	11.36	274.80	0.00	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	07/26/93	11.00	275.16	0.00	830 ¹	< 0.5	< 0.5	< 0.5	<1.5	
	10/25/93	11.44	274.72	0.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	
	08/01/95	8.22	277.94	0.00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-3356, 19201 Center Street, Castro Valley, California (continued)

			av.m	Product	CONT. (C)	-	T	-	37	000 05
Well ID/	_	DTW	GWE	Thickness*	TPH(G)	В	T	E	X	ORG-Pb
TOC (ft)	Date	(ft)	(msl)	(ft) <			ppb			>
MW-3	09/06/892	18.73	265.73		<1.0	< 0.5	<0.5	< 0.5	< 0.5	< 50
284.46	09/12/89	17.78	266.68					~~		
404.40	11/20/893	17.76	266.81		< 500	<0.3	< 0.3	< 0.3	< 0.6	< 50
	02/22/90 ³	16.84	267.62		<50	< 0.3	< 0.3	< 0.3	< 0.6	< 50
	05/29/90 ³	17.13	267.33		<50	< 0.3	< 0.3	< 0.3	< 0.3	< 50
	09/27/90	18.38	266.08		<50	<5	<5	<5	<5	
	09/27/90 ³	18.38	266.08	***	<50					
	01/16/91	18.28	266.18		< 50	< 0.5	< 0.5	< 0.5	< 0.5	*
	01/16/91	18.28	266.18		<50	< 0.5	< 0.5	< 0.5	< 0.5	
	09/19/91	17.62	266.84		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/23/92	17.62	266.84		<50	<0.5	<0.5	<0.5	< 0.5	
	07/22/92	15.22	269.24		<50	< 0.5	< 0.5	<0.5	<0.5	
	04/15/92	16.66	267.80	·	<50	< 0.5	<0.5	<0.5	< 0.5	
	10/14/92	17.57	266.89		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/13/93	14.12	270.34		< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/29/93	14.04	270.42	0.00	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	07/26/93	15.25	269.21	0.00	< 50	< 0.5	< 0.5	< 0.5	<1.5	
	10/25/93	16.29	268.17	0.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	
	08/01/95	14.14	270.32	0.00	< 504,5,6	< 0.5	< 0.5	< 0.5	< 0.5	
TB-LB	11/20/89			***	< 500	< 0.3	< 0.3	< 0.3	< 0.3	
	02/22/90				< 50	< 0.3	< 0.3	< 0.3	< 0.3	
	05/29/90				<50	< 0.3	< 0.3	< 0.3	< 0.3	
	09/27/90				< 50					
	01/16/91				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	09/19/91				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/23/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/15/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
,	07/22/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	10/14/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	01/13/93				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	04/29/93				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	07/26/93				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	10/25/93				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
	08/01/95				< 50	< 0.5	<0.5	< 0.5	< 0.5	
Rinseate	09/27/90				< 50		 -		•	
	01/16/91									
	09/19/91				< 50	< 0.5	< 0.5	< 0.5	<0.5	
	01/23/92				< 50	< 0.5	< 0.5	< 0.5	<0.5	



Table 1. Water Level Data and Groundwater Analytic Results - Chevron Service Station #9-3356, 19201 Center Street, Castro Valley, California (continued)

		•								
Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft) <	TPH(G)	В	T ppb	E	Х	ORG-Pb >
Rinseate	04/15/92	_			< 50	<0.5	<0.5	<0.5	< 0.5	
(cont)	07/22/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	
(,	10/14/92				< 50	< 0.5	< 0.5	< 0.5	< 0.5	

EXPLANATION:

DTW = Depth to water

TOC = Top of casing elevation

GWE = Groundwater 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

TPPH(D) = Total Purgeable Petroleum Hydrocarbons as Diesel

ORG-Pb = Organic Lead

O&G = Oil & Grease

ppb = Parts per billion

(D) = Duplicate

--- = Not applicable/Not available

NOTES:

Groundwater elevation data and laboratory analytic results prior to August 1, 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Groundwater Technology.

- Gasoline range concentration reported. The pattern of peaks observed in the chromatogram shows only single peak in the gasoline range.
- Total Oil & Grease was detected at 1,000 ppb.
- Total Oil & Grease was non-detectable at detection limit of < 1,000 ppb.
- 4 Laboratory report indicates uncategorized compound is not included in the gasoline concentration.
- Well also analyzed for O&G. O&G not detected at detection limit of 5,000 ppb.
- Well also analyzed for TPH(D). TPH(D) was not detected at detection limit of 50 ppb.



STANDARD OPERATING PROCEDURE OUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 pevention 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 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 analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

Well ID MW-1 Well Condition Stephing Time Progressing Told Well Good According Told Well Depth Well depth Stack Comp Sampling Equipment Myore asing Wolume Stack Comp Sampling Equipment Myore asing Wolume Purge Equipment Stack Comp Sampling Equipment Myore asing Wolume Purge Equipment Myore asing Wolume Purge Equipment Myore asing Wolume Myore asing Wolume Purge Equipment Myore asing Wolume Myore asing Wolume Purge Equipment Myore asing Wolume Myore asing Equipment Myore asing Equipment Myore asing Equipment Myore asing Equipment Myore asing Myore	MW-1 Well Condition Broken well book ption SE of property 2 15' from the Udeo Magic Brikin 4 in Hydrocarbon Thickness 4 34.9 ft Volume 2" = 0.17 6" = 1.50 12" = 5.80 12.10 ft Factor 3" = 0.38 (VF) 4" = 0.66 (VF) 4" = 0.66 (VF) 4" = 0.66 Stack Pump Sampling Equipment Disposable Bailer NO If yes, Time Volume 11:00 Purging Flow Rate 2.5" gpm. 11:00 Purging Flow Rate 2.5" gpm. PH Conductivity Temperature Volume 12.0 1570 72.5 15 cal 5.9 1500 71.7 30 cal 5.9 1500 71.8 60 cal 5.9 1500 71.8 60 cal Sound Hast Clear Odor: None LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	SAMPLER	Guadale	, pe_	Sauchez	DATE	8-1-95
Well ID MW-1 Well Condition Seretal well book Well Location Description Well Location Description SE of propert 1/5' from the Urden Magnetic Purpose of the propert 1/5' from the Urden Magnetic Purpose of the propert 1/5' from the Urden Magnetic Purpose of the propert 1/5' from the Urden Magnetic Purpose of the propert 1/5' from the Urden Magnetic Purpose of the properties of the pr	MW-1 Well Condition Broken well box ption SE of property 2 15" from the Uideo Magic Brkin 4 in Hydrocarbon Thickness -0 34.9 ft Volume 2" = 0.17 6" = 1.50 12" = 5.80 12.10 ft Factor 3" = 0.38 (VF) 4" = 0.66 22.80 x .66 X(VF) 15.0 #Estimated 130 gal. purge Volume. Stack Rung Sampling Equipment Disposable Bailer NO If yes, Time Volume 11:00 Purging Flow Rate 2.5" gpm. 11:00 Purging Flow Rate 2.5" gpm. pH Conductivity Temperature Volume 6.0 1570 72.5 15 gal 5.9 1520 71.7 30 rel 5.9 1520 71.8 60 rel 5.9 1520 71.9 75.0 Second Disposable Bailer LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	ADDRESS	19201	Cente	er St	JOB #	5202.80
Well Location Description SE of property 2, 15' from the Uideo Magnetic Property 3, 1	SE of property 2 15" from the Uideo Magic Brking 12 10 ft 12" = 5.80 12 12" = 5.80 12 12 10 ft 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12 12" = 5.80 12" = 5.8	CITY	Castro	Val	1/ey	SS#	9- 3356
Well Location Description SE of property 2, 15' from the Urideo Magneter Y in Hydrocarbon Thickness Open to Liquid 12.10 ft Patter 3" = 0.38 (VF) 4" = 0.68 Open to Liquid 12.10 ft Factor 3" = 0.38 (VF) 4" = 0.68 Open to Liquid Purge Equipment Stack Rung Sampling Equipment Disposable Barler Volume Purge Equipment If yes, Time Volume Starting Time II 100 Purging Flow Rate 11:00 Purging Flow Rate 11:12 Conductivity Temperature Volume 11:12 Conductivity Temperature Volume 11:12 11:12 11:12 11:12 11:13 11:14 11:15 11:15 11:15 11:15 11:16 11:17 11:17 11:18 11:19 11	SE of property 2 15" from the Video Magic Carting of the property 2 15" from the Video Magic Carting of the property 2 15" from the Video Magic Carting of the property 2" = 0.17 6" = 1.50 12" = 5.80	Weil ID	MW-1			Broken w	ell box
Well Diameter	12	Well Location Descr	ription	<u>S'</u> € 0	of property -	15' from the	Video Maric Parki
Depth to Liquid 12.10 ft Factor 3" = 0.38 (VF) 4" = 0.66 Wolume	12.10 ft	Well Diameter	<u>4</u> i				9
Depth to Liquid 12.10 ft	12.10 ft	Total Depth	34.9	ft [Volume	2" = 0.17 6"	= 1.50
# of casing Volume Purge Equipment Stack Pump Sampling Equipment Disposable Barler Stack Pump Sampling Equipment Disposable Barler Did well dewater NO If yes, Time Volume Starting Time 11:00 Purging Flow Rate 2.x Time pH Conductivity Temperature Volume 11:06 6.0 15:70 72.5 15 11:11 6.0 1480 71.7 30 11:12 6.0 1480 71.7 30 11:12 5.9 15:0 71.8 45 11:24 5.9 15:0 71.8 60 11:25 5.9 15:0 71.9 75 Veather Conditions Sample ID Container Refrig Preservative Type Lab Analysis	11:00 Purging Flow Rate 1:00 15:70 Temperature Volume	Depth to Liquid		ft	Factor		7.00
# of casing Volume	Stack Pump Sampling Equipment Disposable Bailer NO If yes, Time Volume 11:00 Purging Flow Rate 2.5 gpm. 1202 pH Conductivity Temperature Volume 6.0 1570 72.5 15 cal 6.0 1480 71.7 3c cal 5.9 1500 71.8 40 cal 5.9 1500 71.8 60 cal 5.8 1630 71.9 75 cal Sound Market Conductivity Temperature Volume 6.0 1570 72.5 15 cal 6.0 1480 71.7 3c cal 6.0 1480 71.7 3c cal 6.0 150 71.8 60 cal 6.0 150 71.9 75 cal 6.0 cal 6.0 condition Refrig Preservative Type Lab Analysis			-			
Purge Equipment Stack Rung Sampling Equipment Disposable Barler Did well dewater No If yes, Time Volume Volume Starting Time II:00 Purging Flow Rate J:5 Sampling Time PH Conductivity Temperature Volume Volume Volume Volume Sampling Time II:00 Purging Flow Rate J:5 Sampling Time II:12 Conductivity Temperature Volume Volume Volume Volume II:00 II:0	Stack Rump Sampling Equipment Disposable Bailer NO If yes, Time Volume 11:00 Purging Flow Rate 9.5 gpm. 1202 PH Conductivity Temperature Volume 6.0 1570 72.5 15 gal 6.0 1480 71.7 30 gel 5.9 1510 71.8 45 gal 5.9 1500 71.8 60 gal 5.8 1630 71.9 75 gl Sound / hat Clear Odor: None LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	•	22.80	_ × -			ated /১০ gal.
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Starting Time	11:00 Purging Flow Rate 2.5" gpm.	urge Equipment	Stack Pu	mp	Sampling Equipment	Disposable	Bailer
Time	11:00 Purging Flow Rate 9.5 gpm.	Did well dewater	NO		If yes, Time	Volume	
Time pH Conductivity Temperature Volu 1:06 6.0 1570 72.5 15 15:12 6.0 1480 71.7 3c 15:12 5.9 15:10 71.8 45 15:20 71.8 60 11:3c 5.9 15:20 71.8 60 11:3c 5.8 1630 71.9 75 Veather Conditions Sample ID Container Refrig Preservative Type Lab Analysis	PH Conductivity Temperature Volume	Starting Time	// 200		Purging Flow Rate	٠, ٠-	
Time pH Conductivity Temperature Volu 1:06 6.0 1570 72.5 15 15 11:12 6.0 1480 71.7 3c 15 15 10 71.8 45 11:12 5.9 1510 71.8 60 11:3c 5.8 1530 71.8 60 11:3c 5.8 1630 71.9 75 15 15 1630 71.9 75 15 1630 71.9 75 15 1630 71.9 75 16 16 16 16 16 16 16 16 16 16 16 16 16	6.0 1570 72.5 15 sal 6.0 1480 71.7 3c sal 5.9 1510 71.8 45 60 sal 5.9 1530 71.8 60 sal 5.8 1630 71.9 75 sal Samuel LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis		·	·····	diging Flow Hate	٠ عــ	gpm.
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11:12 6.0 1480 71.7 30 11:12 5.9 1510 71.8 45 11:24 5.9 1530 71.8 60 11:30 5.8 1630 71.9 75 Weather Conditions 5.2 60 Water Color: 6.0 6.0 Water Color: 6.0 6.0 Cediment Description 6 6 LABORATORY INFORMATION Sample ID Container Refrig Preservative Type Lab Analysis Analysis Analysis 6.0 Lab Analysis 6.0 Analysis 7.0 Container Refrig Preservative Type Lab Analysis Analysis 7.0 Container Refrig Preservative Type Lab Analysis Container Refrig Preservative Type Lab Container Refrig Preservative Type Lab Container Refrig Preservative Type Container Refrig Refrig Preservative Type Container Refrig	6.0 1480 71.7 3c gel 5.9 1510 71.8 45 fel 5.9 1520 71.8 60 gel 5.8 1630 71.9 75 gel Sang. /hst Clear Odor: none LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis						۸ سم ډ
N218 11:24 5.9 11:30 5.9 15:30 71.8 60 11:30 Veather Conditions Sample ID Container Refrig Preservative Type Lab Analy Analy Preservative Type Lab Analy Analy	Sig 1570 71.8 45 60 gel 5.9 1630 71.9 75 gel 5.8 1630 71.9 75 gel 60 gel 71.9 75 gel		6.0				
Veather Conditions Sound 11:30 Sound 15:30 The first field for the first field from the first field from the first field from the first field from the field from the first field from the field from the first field from the	Sig 1520 71.8 60 sel 5.8 1630 71.9 75 sel Sing / hat Clear Odor: none LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	W218	5.9				70
Veather Conditions Soung. /hs + Water Color: ediment Description LABORATORY INFORMATION Sample ID Container Refrig Preservative Type Lab Analy	Sonny. /hst Clear Odor: none LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis				1520		·
Water Color: Clear Odor: none ediment Description LABORATORY INFORMATION Sample ID Container Refrig Preservative Type Lab Analy	LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	11.36	5-8		1630	71.9	75°51
LABORATORY INFORMATION Sample ID Container Refrig Preservative Type Lab Analy	LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	Veather Conditions	S~~.	- 7. /	het		
LABORATORY INFORMATION Sample ID Container Refrig Preservative Type Lab Analy	LABORATORY INFORMATION Container Refrig Preservative Type Lab Analysis	Water Color:	<u>Clear</u>			Odor:	none
Sample ID Container Refrig Preservative Type Lab Analy	Container Refrig Preservative Type Lab Analysis	ediment Description	n <u>&</u>				
Sample ID Container Refrig Preservative Type Lab Analy	Container Refrig Preservative Type Lab Analysis			LABOR	ATORY INFORMATION) N	
And the second s		Sample ID	Container				A makasia
GOTEL	GOTEL			TYT			
						GUTEL	5 6703 67 NE
	· · · · · · · · · · · · · · · · · · ·						

ADDRESS CITY			DATE	8-1-95
CITY	19201	Center St	JOB#	5202.80
	Cantro l	alley	SS#	9-3356
Well ID	MW-1	Well Condition	Broken	well box
Well Location Descri	ption	SE of propert		he video Magic Pa
Well Diameter	4 in	9 (kness	TIACIE I
Total Depth	34.9 ft			= 1.50 12" = 5.80
Depth to Liquid	12.10 ft	_	3" = 0.38	= 1.50 12" = 5.80
# of casing	22.80	(VF) × £ 6 >	4" = 0.66 ((VF) /5. 9 #Estima	ited /50 gal.
Volume	_		·ρυ	irge
Purge Equipment	Stack Pun	Sampling Equipme	ent Disposable	e Baile
Did well dewater	<u> </u>	If yes, Time	Volume	
Starting Time	11:00	Purging Flow Rate	2.5	
Sampling Time	1202	•		gpm.
Time	рН	Conductivity	Temperature	Volume
1136	5.7	1650	715	90 ml
1148	6.0	1880 	71.6	105 (1)
1154	_ 6.4	1850	71.8 71.8	120
1200	6.5	1740	72.0	1350 Jul
1202	6.4	1780	71.9	15-1 fal
Veather Conditions Water Color:	- Sunny	/hot		
	- Clear		Odor:	none
ediment Description				
Sediment Description				
ediment Description	L	ABORATORY INFORMA	TION	
Sample ID		ABORATORY INFORMA		Analysis

SAMPLER	Svadalupe	Sauchez	DATE	8-1-95
ADDRESS	19201 Cen	ter St	JOB#	5202-80
CITY	Castro Va	lley	SS#	9- 3356
Well ID	MW-2	Well Condition		v
Well Location Descr	ription <u> </u>	iddle of lox	2 30 Fran	- Sidewolk on the
Well Diameter	식 in	Hydrocarbon Thickn		<i></i>
Total Depth	30.1 ft	Volume	2" = 0.17 6"	= 1.50 12" = 5.80
Depth to Liquid	8.22 ft	Factor	3" = 0.38	7.2 - 3.30
/♥ # of casing Volume	21-88 ×	(VF)	4" = 0.66 F) 1 4. 4 #Estima	ated <u>[44</u> gal. urge
Purge Equipment	Stack Pump	_Sampling Equipment	Disposable	Bailer
Did well dewater	<u>Yer</u>	If yes, Time 143	•	75 sul
Starting Time Sampling Time	1403 1440	Purging Flow Rate	2	. 5 gpm.
Time 1 - 109 1 1 15 1 1 21 1 27 1 23 1 2 70 Weather Conditions	pH 7.2 6.8 6.8 5.9 7.1 7.2	Conductivity 1280 1100 1160 1180 1270 1260	Temperature 71.6 72.5 71.8 71.9 72.4 72.1	Volume 70 Sal 45 60 75 76
Water Color:	Clear		Odor:	r. drug
Sediment Description		<u> </u>		
	LABO	RATORY INFORMATI	ON	
Sample ID	Container Refrig	Preservative Type	Lab	Analysis
MW-2	3xyoul y	HU	GTEC	Gas BTXE
Comments				
Comments				

SAMPLER	Guadalo	pe Sauchez		8-1-95	
ADDRESS	19201	enter St	JOB#	5202-80	
CITY	Castro	Valley	SS#	9- 3356	
Well ID	MW-3	Well Condition	•	ok.	
Well Location Descri	iption	SW of property		on the light put on !	Pakinal
Well Diameter	4 in	- ν	ickness	5 /	3,70
Total Depth	39.7 ft	Volume	2" = 0.17 6	" = 1.50 12" = 5.80	
Depth to Liquid	14.14 ft	- 1	3" = 0.38	7.50	
f 6 # of casing Volume	25.56	× .66	4" = 0.66 x(VF) /6.9 #Esti	mated 169 - gal. purge	
Purge Equipment	Stack Pu	<u>ာ ၉</u> Sampling Equipn	nent <u>Disposa 6</u>	e Bailer	
Did well dewater	No	If yes, Time	Volume	<u></u>	٠.
Starting Time	1206	Purging Flow Ra	te <u> </u>		•
Sampling Time	1322	-			
Time	рН	Conductivity	Temperature	Volume	
1220	<u>6.9</u> 7.1	1200	71.9	- 17.5 rd	?
1227	7.2		<u>72.7</u> 	35.0	
1234	471	850	72.0	60.0	
1241	7.1	870	71.8	77.54	
Weather Conditions	Sunny	/ho+		• 	
Water Color:	Clear		Odor:	none	
Sediment Description	_ noul_	-	~		
			70		
Committee 10		ABORATORY INFORM			
Sample ID MW-3	Container 3×Youl	Refrig Preservative		Analysis	
	277000	7 74 00	Seguera	Gas BTXE	
Comments					

SAMPLER C	Suadelope	Sanches	DATE	8-1-95
ADDRESS	1920, Ce	nter St	JOB#	5202.80
CITY	Contro Va	lley	SS#	9-3756
Well ID	MW-3	Well Condition	01	
Well Location Descrip	otion	Sw of proper to	1.4 ~ 20	from to light gost
Well Diameter	Yin_	Hydrocarbon Thickne	ess 😴	Parking lot
Total Depth	39.7 ft	Volume	2" = 0.17 6	" = 1.50 12" = 5.80
Depth to Liquid	14.14 ft	Factor	3" = 0.38	3.00
# of casing Volume	25.56	x	*	mated /65 gal. purge
Purge Equipment	Stack Pon	Sampling Equipment	Disposal	le Baile
Did well dewater	<u>No</u>	If yes, Time	_ Volume	.,
Starting Time Sampling Time	1206	Purging Flow Rate		gpm.
Time 1248 1255 1202 1303	pH マ./ マ./ マ.2	Conductivity 990 //00 //60	Temperature 71.5 71.8 71.8	Volume 95.0 112.5 130.0
1318	7.2	1220	<u> </u>	- <u>147.5</u> 165.0
1322	۱٠ ح	1 1260	71.8	170.0
Weather Conditions	SUNY	/ho+		. 2
Water Color:	<u>Clear</u>		Odor:	nne
Sediment Description	none			
	LA	BORATORY INFORMATION	ON	
Sample ID		afrig Preservative Type		Analysis
MW-3	3xyou >	1461	GTEL	Gur BTXE
· · · · · · · · · · · · · · · · · · ·				
Comments				
				

Fax	cor	y of '	Lab	Rep	ort c	and T	COC to	Che	vron	, 00	πιασ	, L	7.14				<u> </u>						MOCOL!
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		S.A. Inc.	Conr	aultant Pr	roject Nur	mber	・ <u>5 20</u> er-Ryan	<u>12.8</u>	0_		<u>.</u>		ı	Laboratory Name GTE2									
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	}) k	§	Air Charcool	45 °	1	1 8		['	,	ĺ '	N N	H H	Purgeable Organics (8240)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,	1	1	1 '			10 50	ANMEIGIC
L	1	Lab Sample Number	Containen	11	Grab Composite Discrete	1	evation	3	8020 + 8015)	1. '	1 2 '	Purgeable Halocarbons (8010)	Ę	र्वे के	Extractable Organica (8270)		1	1 '	1				
Sample Number	.)	- -	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	≺ ט ל	1111	1 1	1 6. 1	load (Yes or No)	至8	ا ع	Oil and Greass (5520)	圣	₹ <u>•</u>	δ΄,	1 2 2	Metals Cd,Cr.Pb,Zn,Ni (ICAP or AA)	1	1	1 '				
Ž	J	d mg	1 4	×So≣ ¥ater	900		Sample Pre	ع	+ + '	TPH Diesed (8015)) (SZ)	1965	1 80	1 2 6 7 1 2 6 7	270)	음성 의	.1 '	1	1			Ì	
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MW-	· 1 · 1	50	3	<u> </u>		1202		1	1-1-	1	 '		1		 	 '	 	 	 '	+		+	4
MW-3		03	5	\'		1322	HCL/NONE	11	11	V						 '	 '		 '	 		Limited	sampled
MW-		04	3	V	V	1440			1		′		1			'	<u>'</u>	<u> </u>	<u> </u>				
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4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX

August 16, 1995

Argy Leyton Gettler-Ryan, Inc. 6747 Sierra Ct., Ste J Dublin, CA 94568

RE: GTEL Client ID:

Login Number:

GTR01CHV08 C5080027

Project ID (number):

5202.80

Project ID (name):

Chevron/#9-3356/19201 Center St., Castro Valley, CA

Dear Argy Leyton:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 08/02/95.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely.

GTEL Environmental Laboratories, Inc.

Chip Poalinelli

Laboratory Director

ANALYTICAL RESULTS Volatile Organics

GTEL Client ID:

GTR01CHV08

Login Number:

C5080027

Project ID (number): 5202.80

Project ID (name):

Chevron/#9-3356/19201 Center St., Castro Valley, CA

Method: EPA8020/15

Matrix: Aqueous

GTEL Sample Number	C5080027-01	C5080027-02	C5080027-03	C5080027-04
Client ID	TB-LB	MW-1	MW-3	MW-2
Date Sampled	08/01/95	08/01/95	08/01/95	08/01/95
Date Analyzed	08/10/95	08/11/95	08/11/95	08/11/95
Dilution Factor	1.00	1.00	1.00	1.00

Reporting	Re	oor	٠ti	na
-----------	----	-----	-----	----

Analyte	Limit	Units	Conc	entration:		
Benzene	0.5	ug/L		< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50,	ug/L	< 50.	₹ 50 .	< 50.	< 50.
BFB (Surrogate)		<u> </u>	91.3	84.7	87.9	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA8020/15:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846. Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision.

C5080027-02:

Uncategorized compound is not included in gasoline concentration.

C5080027-03:

Uncategorized compound is not included in gasoline concentration.

C5080027-04:

Uncategorized compound is not included in gasoline concentration.



GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS C5080027

Project ID (number): 5202.80 Project ID (name): Chevron/#9-3356/19201 Center St., Castro Valley, CA

Volatile Organics Method: EPA8020/15

Matrix: Aqueous

Method Blank Results

QC Batch No: G081095-5 Date Analyzed: 10-AUG-95

Method: EPA8020/15 Analyte Concentration: ug/L Benzene To1uene < 0.30 Ethylbenzene < 0.30 < 0.50 < 50; Xylenes (Total) TPH as Gasoline

Notes:

Login Number:



GTEL Client ID:

GTR01CHV08

QUALITY CONTROL RESULTS

Login Number:

C5080027

Project ID (number): 5202.80

Project ID (name): Chevron/#9-3356/19201 Center St., Castro Valley, CA

Volatile Organics

Method: EPA8020/15 Matrix:

Aqueous

Laboratory Control Sample Summary

	Spike	Check Sample	QC Percent	Acceptability Limits	
Analyte	Amount	Concentration	Recovery	Recovery	
	its:ug/L QC Batch	:G081095-4			
Benzene	20.0	18.9	94.5		
Toluene	20.0	20.5	103.	12.4-124%	
Ethylbenzene	20.0	20.4	102.	73,3-124X	
Xylenes (Total)	60.0	63.4	106.	71.9-130%	

Notes:



GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS

Login Number: C5080027 Project ID (number): 5202.80

Project ID (name): Chevron/#9-3356/19201 Center St., Castro Valley, CA Matrix: Aqueous

Matrix Spike and Matrix Spike Duplicate Results

				Matrix	Matrix	Matrix Spike	Matrix Spike			
		Original	Spike	Spike	Spike	Duplicate	Ouplicate		Acceptabi	lity Limits
Analyte		Concentration	Amount	Concentratio	n Recovery. %	Concentration	Recovery, %	RPD. %	RPD, %	Recovery, %
EPA8020/15	GTEL Sample	ID:C5080088	3-03	Spike ID:	G081095-1	Dup. ID:G	081095-2			
Units: ug/L		ate:08-AUG-9			12-AUG-95				ID:Batch	
Benzene.	list makilista sang sang bang Katan di mangkapang	ູ່< 0.30 ູ່	20.0	19.9	99,5	20,6	103	3,4	34	57:3-138
Toluene		< 0.30	20.0	20.8	104.	23.0	115.	10	31	63-134%
Ethylbenzene		< 0.30	20.0	20.0	100	21.1	106,	5.8	38	59,3-137%
Xylenes (Total)	< 0.50	60.0	61.0	102.	66.0	110.	7.5	31	59.3-144%

Notes:



Volatile Organics

Method: EPA8020/15

ANALYTICAL RESULTS

Total Oil and Grease in Water by Gravimetric Analysis

EPA Method 413.1a

GTEL Sample Number		03	080395 TPH		
Client Identification	MW-3	METHOD BLANK			
Date Sampled		08/01/95			
Date Prepared	Date Prepared				
Date Analyzed		08/03/95	08/03/95		
Analyte	Detection Limit, mg/L		Concentra	ition, mg/L	
Total Oil and Grease 5		<5	<5		
Detection Limit Multiplier		1	1	l	

Samples were received without preservation. Samples were properly preserved by the laboratory. Note:



ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel in Water Modified EPA Methods 3510/8015a

GTEL Sample Number	03	GCK 080795			
Client identification	MW-3	METHOD BLANK			
Date Sampled		08/01/95			
Date Extracted	Date Extracted		08/03/95		
Date Analyzed	Date Analyzed				
Analyte		Concentra	ation, ug/L		
TPH as Diesel 50		<50	<50		
Detection Limit Multiplier	1	1			
O-Terphenyl surrogate, % recov	96.5	141			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.



QC Check Sample Results

Analyte	Source	Date of Analysis	Expected Value	Units	Recovery, %
TOG/IR:	TW-0308	08/03/95	105	mg/L	91.3



QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
TPH/IR:	LCS & LCS DUPa	102	mg/L	94.6	91.7	3.1	70 - 130
GC-FID:							
Diesel	LW080495	750	ug/L	111	104	6.19	60 - 140
Diesel	C5080010	750	ug/L	105	89.1	16.4	60 - 140

a. Not enough sample was provided by the client to perform a matrix QC. Laboratory control sample indicated the analysis was within control limits.



CONFORMANCE/NONCONFORMANCE SUMMARY

(X = Requirements Met

* = See Comments

NA = Not Applicable)

#	Conformance Item	VOA GC/MS	VOA GC	SV GC/MS	SV GC	Metals	Wet Chem
1	GC/MS Tune		NA		NA	NA	NA
2	Initial Calibration		Х		Х		X
3	Continuing Calibration	ŀ	Х		Х		Х
4	Surrogate Recovery		X		X	NA	NA
5	Holding Time		Х		. X		Х
6	Method Accuracy		Х		X		**
7	Method Precision		X		Х		**

8 Blank Contamination - List/ND (None Detected) /* (See Comments)

VOA:

SV:

Metals:

Wet Chem: ND

9 Comments:

**

Not enough sample was provided by the client to perform a matrix QC (Spike or Duplicate). Laboratory control samples were used to obtain method precision and accuracy. Laboratory control samples indicated the analysis was within control limits.

