

October 7, 1994

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

Re:

Former Chevron Service Station #9-7127 Interstate 580 at Grant Line Road

Altamont Pass, California SES Project #1-369-04

Dear Mr. Kan:

This report presents the results of the quarterly ground water sampling at former Chevron Service Station #9-7127, located at Interstate 580 at Grant Line Road, Altamont Pass Area, California. Four wells, MW-2 through MW-5, were sampled (Figure 1).

On June 28, July 19, and September 2, 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 present in one of the site wells, MW-1. Water level data are shown in Table 1 and ground water elevation contours are included on Figures 1, 2, and 3.

The ground water samples were collected on September 2, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are included. All analyses were performed by GTEL of Concord, 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.

Chris J. Bramer

Sierra Environmental Services

Professional Engineer #C48846

AML/CJB/lmo 36904QM,SE4

cc: Sheldon Nelson, CRTC

Attachments

Figures Table

SES Standard Operating Procedure Field Water Sampling Forms

Chain of Custody Document and Laboratory Analytic Reports

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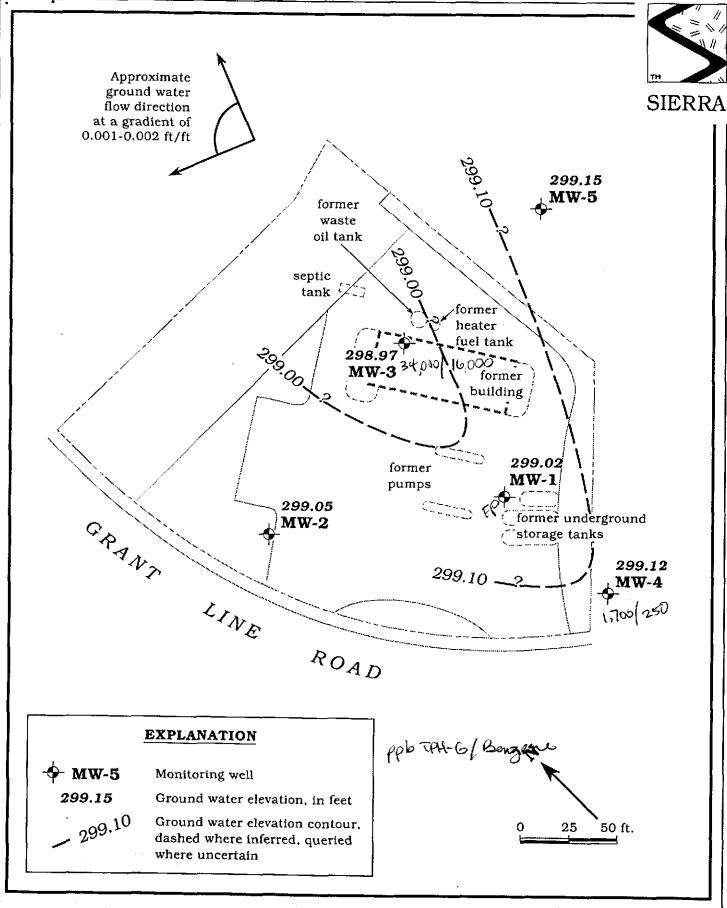


Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - June 28, 1994 - Former Chevron Service Station #9-7127, Interstate 580 and Grant Line Road, Altamont Pass, California

1-369-04 7/13/94

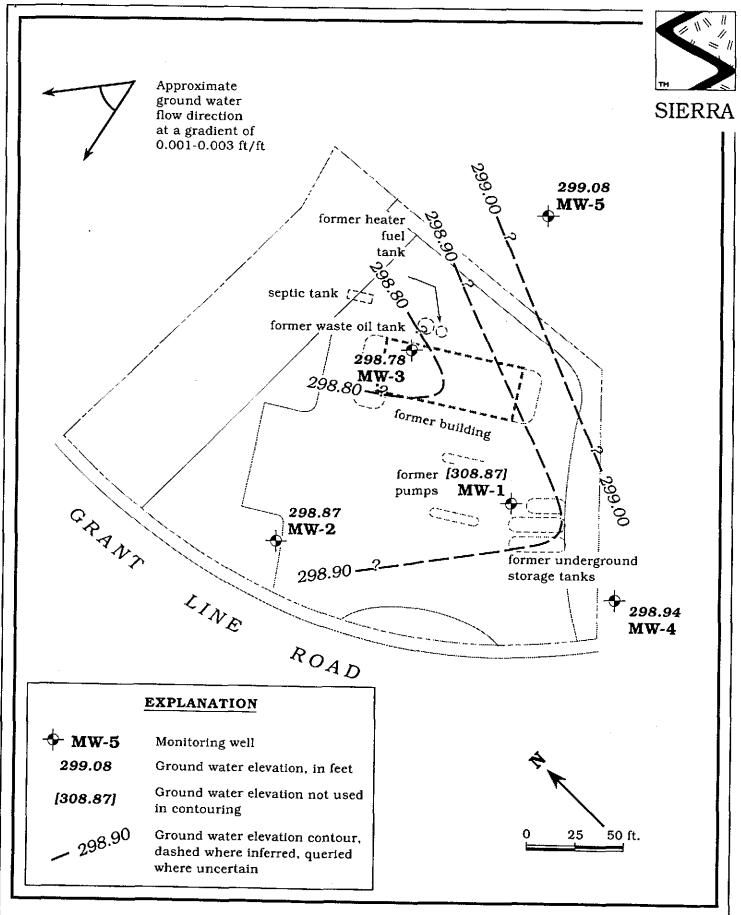


Figure 2. Monitoring Well Locations and Ground Water Elevation Contour Map - July 19, 1994 - Former Chevron Service Station #9-7127, Interstate 580 and Grant Line Road, Altamont Pass, California

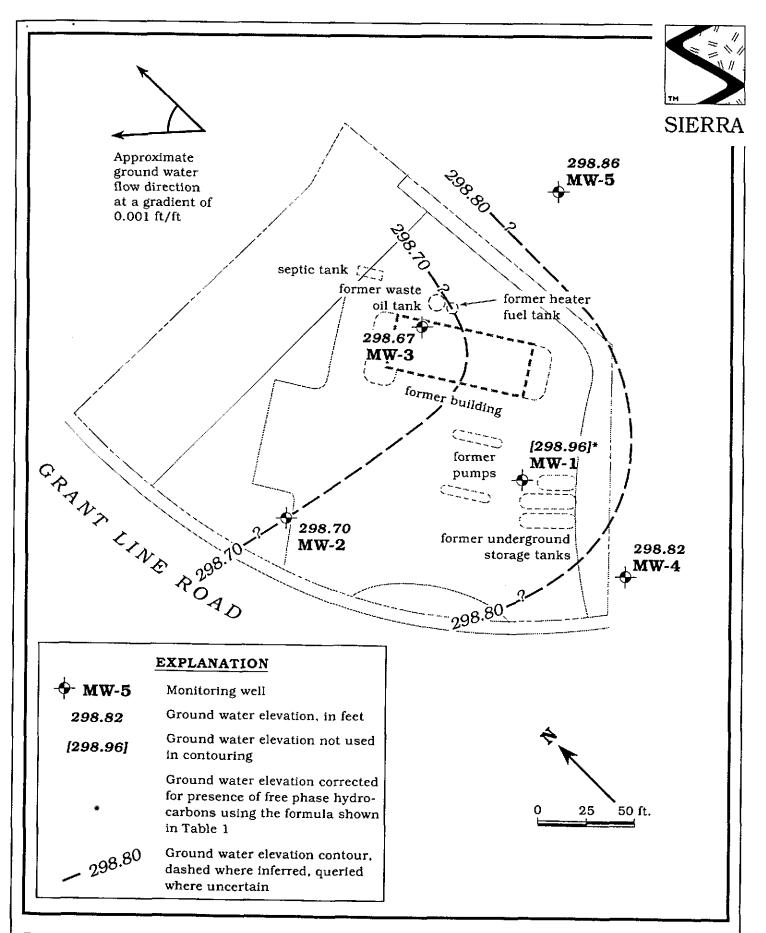


Figure 3. Monitoring Well Locations and Ground Water Elevation Contour Map - September 2, 1994 - Former Chevron Service Station #9-7127, Interstate 580 and Grant Line Road, Altamont Pass, California



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Altamont Pass Area, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness*	Analytic Method	TPPH(G) <		Т ppi	E b	X
				(ft)						
MW-1/										
329.17	2/15/94	29.77	299.40	0	8015/8020	99,000	20,000	24,000	2,000	9,800
	4/21/94	29.85	299.32	0						
	6/1/94	29.92	299.25	0	8015/8020	56,000	12,000	15,000	1,100	5,800
?	6/28/94	30.15	299.02	0						-
water.	7/19/94	(20.30)	308.87	0	***					
	9/2/94	30.61	298.96	0.5	se					
MW-2/										
327.22	2/15/94	27.09	300.13	0	8015/8020	83	21	6	1	3
	4/21/94	27.81	299.41	0						
	6/1/94	27.98	299.24	0	8015/8020	<50	1.3	0.5	< 0.5	<0.5
	6/28/94	28.17	299.05	0						
	7/19/94	28.35	298.87	0					~~~	
	9/2/94	28.52	298.70	0	8015/8020	82	13	16	3.6	14
MW-3/										
329.28	2/15/94	29.87	299.41	0	8015/8020	23,000	11,000	1,700	540	1,000
	4/21/94	29.96	299.32	0						-,
	6/1/94	30.11	299.17	0	8015/8020	27,000	12,000	2,600	600	2,200
	6/28/94	30.31	298.97	0	***					-,
	7/19/94	30.50	298.78	0						
	9/2/94	30.61	298.67	0	8015/8020	34,000	16,000	4,100	770	3,000
MW-4/										
	5/21/93				8015/8020	<50	12	2	<0.5	1
	11/5/93				8015/8020	300	56	10	0.8	3
329.44	2/15/94	29.90	299.54	0	8015/8020	260	47	12	2	4
	4/21/94	29.99	299.45	0	· 					
	6/1/94	30.14	299.30	0	8015/8020	860	200	23	2.8	9.6
	6/28/94	30.32	299.12	0						
	7/19/94	30.50	298.94	0						
	9/2/94	30.62	298.82	0	8015/8020	1,700	250	27	6.4	15
MW-5/						,				
•	5/25/93				8015/8020	<50	<0.5	< 0.5	<0.5	0.9
	11/5/93				8015/8020	<50	<0.5	<0.5	<0.5	<0.5
312.88	2/15/94	25.10	287.78	0	8015/8020	<50	<0.5	1	<0.5	1



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Altamont Pass Area, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <	В	T ppb-	E	X
 MW-5	4/21/94	13.21	299.67	0					· ·	
(cont)	6/1/94	13.39	299.49	ŏ	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/28/94	13.73	299.15	ŏ					~0.0	~0.5
	7/19/94	13.80	299.08	0						
	9/2/94	14.02	298.86	0	8015/8020	<50	3.2	1.8	<0.5	2.1
Trip Blank										
rb-lb	2/15/94				8015/8020	<50	< 0.5	<0.5	<0.5	<0.5
	6/1/94				8015/8020	<50	< 0.5	< 0.5	<0.5	<0.5
	9/2/94				8015/8020	<50	<0.5	<0.5	<0.5	<0.5
Bailer Blank										
BB	2/15/94				8015/8020	<50	<0.5	<0.5	<0.5	<0.5

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 analyzed/Not applicable

ANALYTIC METHODS:

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

8020 = EPA Method 8020 for BTEX

NOTES:

All top of casing elevations were surveyed by Tronoff Land Surveying, Davis, California on November 2, 1993.

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

Analytic data prior to February 15, 1994 compiled from the Well

Analytic data prior to February 15,1994 compiled from the Well Installation Report prepared for Chevron by Pacific Environmental Group, Inc., December 3, 1993.



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.



WATER SAMPLING DATA

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		NW-2		Date	9/2/9	4	Well Diamete	
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Depth to	Water (s	lalic) <u>28.5</u>	2	Well Depth			Well Depth (spec.)
Initial he Volume t Purged V Pumped	eight of wa to be purg Vithf or Bailed	ater in casing ged	9.50 	Volume	gallon With D	gallons is	r = well h = ht o vol. in c 7.48 gal, V- casir	as/Conversions radius in ft f water col. in ft yl. = \pi^2h /ft ng = 0.163 gal/f ng = 0.367 gal/f ng = 0.653 gal/f
СНЕМІС.	AL DATA				-ciri recov	ery	V ₄₅ Casin	ing = 0.836 gal/ling = 0.826 gal/ling = 1.47 gal/ling = 2.61 g
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		7		3	6.62	73.6	690	
		2		5	6.S7	77.0	160	
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Samula		T - 						
Sample ID 1W-2	# of Cont.	Container Type	Filtered (size, u)	(type	ľ	Refrig. (Y/N)	Lab (Init)	Analysis Requested
			NA	HCL			arel	0-/187ex
				-				
^{ntainer} Ty	pe Codes	: 1 = 40 ml (3 = Clear gla	clear VO/	A/Teflon septa	1; 2 = Br	own glass/te	flon lined cap /polyethylene ca	(specify size



WATER SAMPLING DATA

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JOD Nai	mber	ANT IIM	c no	Job Numl	per 1-36	4-04	Sampler s	to 1		
Cample	Doint L	MW-3		Date	4/2/	14		ler2		
Sample	- Wate- t	ation/Descrip	tion <u>e los</u>	est to e	lectrica.	30x		(spec.)		
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Volume Purged V	to be purg	UMP		Volume	gallon	_ gallons	h = ht c	Formulas/Conversions r = well radius in ft h = ht of water col. in ft vol. in cyl. = \pi^h 7.48 gal/ft		
Water le	· -	pling	> P 1\(\){\(\)	Per	4.50		V ₄ cast V _{4,5} cas V ₆ cast	ng = 0.163 gal/ft ng = 0.367 gal/ft ng = 0.653 gal/ft ing = 0.826 gal/ft ng = 1.47 gal/ft ng = 2.61 gal/ft		
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Start 1528		p (ga	1.)	(gal.)	pН	Temp (°C)	Specific Co	x umhos/cm		
	13.5	2			6.48	74.2	750	z diffios/cm		
				3	6-91	73.7	660			
		- \		4	6.87	73.3	650			
					ļ					
Descriptio	n of sedin	TED Time CleAL nents or mate ts:	rial in sa	Odor		urged (gal.) _ へのへを				
Sample ID	# of Cont.	Container Type	Filtered	1,6361.6		Refrig.	Lab			
MW-3	3)	(size. u))	(Y/N)	(Init)	Analysis Requested		
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								7,3,		
										
				 						
				 						
ontainer Ty	pe Codes:	1 = 40 ml o 3 = Clear gla 5 = Other	elear VOA ss/teflon	Teflon septa Ined cap (speci	: 2 = Bro (y size): 4 = : 6	own glass/te Polyethylene, = Other	flon lined cap polyethylene ca	(specify size): p (specify size):		



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Sample	Point Loc	ation/	Descrip	otion .	NETT TO	9/2	194			ter	
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nitial h	reight of w	ater in	a casing	7.0/	•	1 (sounded	177.63				
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urged	With	PU	MP		Sampled W	gallo <u>r کے</u>	1\$ > &		h = ht c	of water col. in 1 Tyl. = $\pi r^2 h$	
итрес	i or Bailed	Dry?	Yes	 s /\v'	o Time	othP			7.48 ga	J/fc³	
ater le	vel at sam	pling			Pere	_ Aster_	gallo	ns .	.casi و∨	лg = 0.103 gal/ лg = 0.367 gal/	
	a.	- 0.			Рете	cent Recov	ery	-	v, cast	ng = 0.653 gal/ ing = 0.826 gal	
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D,	rge Ti-				 -			L	· Caso	ng = 2.61 gal/ft	
Start	rge Time		(gal.)		Cumulative			Sı	pecific C	fic Conductance	
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			5			6-91		750	>	A diffios/	
				-	3	6-78	74.3	700	9		
			/_		4	6.75	74-1	690	0		
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inplicational	# of Cont.	nents d	or mate A c place	rial in sa	Odor mple: Co of - Pcuy Sc d Preserva (type	uain,	Brown & Trace Tie	epinie	ab	Analysis	
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Start Stop (gal.) (gal.) pH Temp (*C) Specific Conductance (gal.) pH Temp (*C) Measurement x umhos/cn	HEMICAL DATA						V, castr	ig = 2.61 gal/st
Start Stop (gal.) (gal.) pH Temp (°C) Specific Conductance SS2 1608 Z	Purge Time	Purge	Volume	Cumulatina	T	T		
Signature Sign		p (ga	al.)		На	Tenn PC	Specific C	onductance
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description of sediments or material in sample: None							_	
description of sediments or material in sample: None None	MPI ES COLLEGO							
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emple # of Container Filtered Preservative Refrig. Lab Analysis Requested D	aci color	1eAR_		_ Odor	 مراد	2016	 	
emple # of Container Filtered Preservative Refrig. Lab Analysis Requested W-5 3 WA HCC Miner Type Codes: 1 = 40 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 = Brown class/teflon line 10 ml clear VOA/Teflon septa: 2 ml clear VOA/Teflon septa: 3 = Clear class/teflon line 10 ml clear VOA/Teflon septa: 2 ml clear VOA/Teflon septa: 2 ml clear VOA/Teflon septa: 2 ml clear VOA/Teflon septa: 3 ml clear VOA/Teflon septa: 2 ml clear VOA/Teflon septa: 3 ml clear V	scription of sedim	ents or mate	rial in san		1.00	<u> </u>		
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iner Type Codes: 1 = 40 ml clear VOA/Teflon septa: 2 = Brown glass/teflon lines				 				
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3 = Clear glass/lefton tient a septent 2 = Brown glass/lefton tient				·				
5 = Other size); 4 = Polyathylam () integrated cap (specify size);	iner Type Codes:	I = 40 ml	clear VOA	Tellon sonia.	2 5			
3 = Clear glass/teflon lined cap (specify size): 4 = Polyethylene/polyethylene cap (specify size): 5 = Other; 6 = Oth	iner Type Codes:	1 = 40 mi o 3 = Clear gla 5 = Other	clear VOA iss/teflon ti	/Teflon septa: ned cap (specif	2 = Bro y size): 4 = 1	wn glass/tel	lon lined cap	(specify size):

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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

September 13, 1994

Ed Morales Sierra Environmental Services P.O. 2546 Martinez, CA 94553

RE: GTEL Client ID:

SIE01CHV08

Login Number:

C4090079

Project ID (number):

1-369-04

Project ID (name):

Chevron/#9-7127/I-580 at Grant Line Road, Mountain House, CA

Dear Ed Morales:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/07/94.

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.

Rashmi Shah

Laboratory Director

GTEL Client ID:

SIE01CHV08

ANALYTICAL RESULTS

Login Number:

C4090079

Project ID (number): 1-369-04

Project ID (name): Chevron/#9-7127/I-580 at Grant Line Road, Mountain House, CA

Volatile Organics

Method: EPA 8020

Matrix: Aqueous

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	Reporting					
<u>Analyte</u>	Limit	Units	Coi	ncentration:		
Benzene	0.5	ua/L	March March and the second state of	13.	16000	
Toluene	0.5	ug/L	< 0.5	16	4100	3.2
Ethylbenzene	0.5	uo/l	< 0.5	3.6	***************************************	1.0
Xylenes (total)	0.5	ua/L	< 0.5	9.4	770 3000	< V.5
TPH as GAS	50	ug/L	> 50 > 50	14.	24000	2.1
BFB (Surrogate)	· -	э Y	83.8	0Z.	34000	< 50.
Notes:		~	03.0	84.6	83.0	84.2

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical and Chemical Methods. SW-846", Third Edition, Revision 1. US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision.

GTEL Concord. CA C4090079:1



GTEL Client ID: Login Number:

SIE01CHV08

C4090079

Project ID (number): 1-369-04

Project ID (name): Chevron/#9-7127/I-580 at Grant Line Road. Mountain House. CA

Volatile Organics

Method.

nethod:	EPA 8020
Matrix:	Aqueous

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ATE I	Sample Number C4090079-05	
11171	Naminia Number - Cannonzo oc	30000000000000000000000000000000000000
	772.4 TO	
	Client ID MW-4	
	Date Sampled 09/02/94	
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ANALYTICAL RESULTS

Re	porting		
Analyte	Limit	Units	Concentration:
Benzene	0.5	ua/I	
Toluene	0.5	ua/I	250
Ethylbenzene	0.5	16/1	£/,
Xylenes (total)	0.5	ug/L	6.4
TPH as GAS	žn.	097L	
BFB (Surrogate)		uy/L	1700
Notes:			84.1
motes:			

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846". Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision.



GTEL Client ID:

SIE01CHV08

QUALITY CONTROL RESULTS

Login Number:

C4090079

Project ID (number): 1-369-04

Project ID (name): Chevron/#9-7127/I-580 at Grant Line Road, Mountain House, CA

Volatile Organics

Method: EPA 8020

Matrix: Aqueous

Method Blank Results

QC Batch No:

Q091194-1

Date Analyzed.

 	Date Analyzed: II-SEP-	94	
<u>Analyte</u>	Method: EPA	8020	Concentration: ug/L
Benzene Toluene	The state of the s	30 30	
Xylenes (Total)	< 0.	30 50	
TPH as Gasoline		0.	

Notes:



GTEL Client ID:

SIE01CHV08

QUALITY CONTROL RESULTS

Login Number:

C4090079

Project IO (number): 1-369-04

Project ID (name):

Chevron/#9-7127/I-580 at Grant Line Road. Mountain House. CA

Volatile Organics

Method:

EPA 8020

Matrix: Aqueous

Matrix Spike and Matrix Spike Duplicate Results

Analyte EPA 8020	Original Concentration		Matrix Spike Concentration			Matrix Spike Duplicate Recovery, \$	RPD. \$		lity Limits Recovery, %
Units: ug/L	GTEL Sample ID:C409004 Analysis Date:10-SEP-		Spike ID:(Q091194-3 11-SEP-94			Client	ID:Batch	
Benzene Toluene	< 0.50 < 0.50	20,0 20,0	17.4 17.0	87.0 85.0	16,7 16.4	83.5 82.0	4.1 3.5	34	57:3-138%
Ethylbenzene Xylenes (Total	< 0,50) < 0.50	20.0 60.0	16.8 52.6	84.0 87.7	15,9 49.6	79.5 82.7	5.5 5.8	31 38 31	63-134 % 59.3-137 % 59.3-144 %

Notes:



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