



Chevron

January 27, 1995

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

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

Re: Former Chevron Service Station #9-5630
997 Grant Avenue, San Lorenzo, CA

Dear Mr. Seery:

Enclosed is the Quarterly Ground Water Sampling report dated January 13, 1995, prepared by our consultant Sierra Environmental Services for the above referenced site. Monitor wells MW-6, MW-6, and MW-7 were sampled for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Depth to ground water measurements were collected from wells MW-1, MW-5, MW-6, and MW-7. This work was performed pursuant to our agreement as documented in your November 16, 1994 letter.

Concentrations of these constituents were below method detection limits in all wells sampled with the exception of low concentrations present in monitor well C-6. Depth to ground water was measured at approximately 8.5 to 9.1 feet below grade and the direction of flow is to the west.

These data appear to be consistent with historical information collected at the site. We plan to conduct another sampling event during February, 1995, then pursue case closure if results of that event are consistent with previous data.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Kevin Graves, RWQCB - S.F. Bay Area
Ms. B.C. Owen

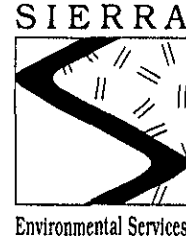
Mr. Darryl Snow, Geraghty & Miller - Richmond

Page 2
January 27, 1995
Former SS#9-5630

Mr. Lawrence E. Cogan
Ware & Freidenrich
400 Hamilton Avenue
Palo Alto, CA 94301

Mr. Michael Meniktas
Meniktas & Associates
3440 Lakeshore Avenue, Suite 206
Oakland, CA 94610

File: 9-5630 QM1



January 13, 1995

Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Service Station #9-5630
997 Grant Avenue
San Lorenzo, California
SES Project #1-206-04

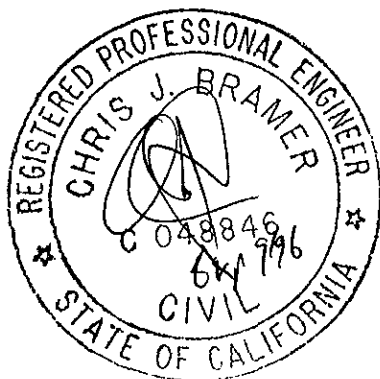
Dear Mr. Miller:

This report presents the results of the quarterly ground water sampling at former Chevron Service Station #9-5630, located at 997 Grant Avenue in San Lorenzo, California. Three wells, C-5, C-6, and C-7, were sampled (Figure 1).

On November 30, 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 November 30, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). All analyses were performed by Sequoia Analytical Laboratory of Redwood City, California. Field water sampling data forms for this event are included. 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.



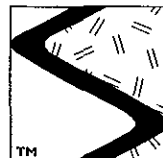
Sincerely,
Sierra Environmental Services

Richard E. (Rick) Hilton
Staff Environmental Scientist

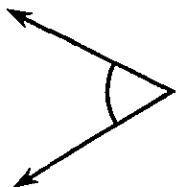
Chris J. Bramer
Professional Engineer #C48846

REH/CJB/lmo
20604QM.JA5

Attachments: Figure
Tables
SES Standard Operating Procedure
Field Water Sampling Forms
Chain of Custody Document and Laboratory Analytic Reports

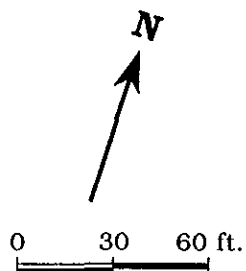
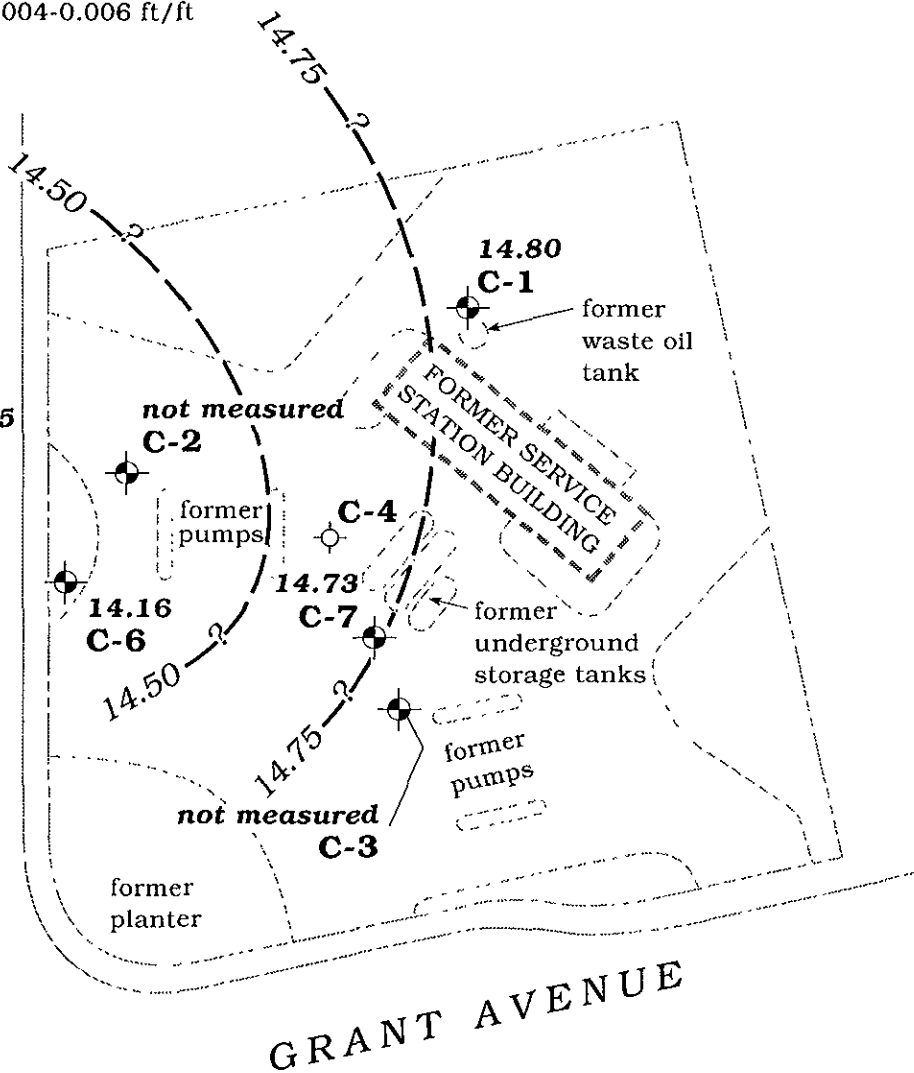


SIERRA



Approximate ground water flow direction at a gradient of 0.004-0.006 ft/ft

WASHINGTON AVENUE



EXPLANATION	
	C-7 Monitoring well
	C-4 Destroyed well
14.73	Ground water elevation, in feet
	Ground water elevation contour, dashed where inferred, queried where uncertain

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - November 30, 1994 - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California



Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-5630, 997 Grant Avenue, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <-----	TOG	-----ppb----->				X
								B	T	E		
C-4/ 23.32 ¹	12/5/90	11.85	11.47	0	8015/8020	<50	4	2	0.7	3	---	
	9/6/91 ³	---	---	---	---	---	---	---	---	---	---	
C-5/ 22.01 ⁴	2/16/93	6.64	15.37	0	8015/8020 ⁸	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/23/93	6.60	15.41	0	8015/8020	<50	<1.5	0.9	<0.5	<1.5	---	
	6/15/93	8.10	13.91	0	8015/8020	70	0.7	1.7	<0.5	2.8	---	
	9/7/93	9.40	12.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	
	11/30/94	7.76	14.25	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
C-6/ 21.42 ⁴	8/17/94 ⁶	16.02	5.40	0	8015/8020	430	0.7	2.7	<0.5	28	---	
	11/30/94	7.26	14.16	0	8015/8020	610	2.1	0.57	30	14	---	
C-7/ 23.21 ⁴	8/17/94 ⁶	10.07	13.14	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	11/30/94	8.48	14.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
AA (Trip Blank)	12/5/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/6/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/4/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	4/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
TB-LB	6/3/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/1/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/23/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/15/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	
	9/7/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	
	11/30/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
BB (Bailer Blank)	9/6/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/4/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	4/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/3/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	0.4	---	
	12/1/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	
3/23/93	---	---	---	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 #9-5630, 997 Grant Avenue, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) TOG B T E X					
						-----ppb----->					
BB	6/15/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---
	9/7/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---

EXPLANATION:

TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 O&G = Total Oil and Grease
 ppb = Parts per billion
 DTW = Depth to water
 TOC = Top of casing elevation
 GWE = Ground water elevation
 msl = Measurements referenced relative to mean sea level
 --- = Not applicable/not available

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
 8020 = EPA Method 8020 for BTEX
 503E = Standard Methods Method 503E for O&G

NOTE:

- * SES product thicknesses were measured with an MMC flexi-dip interface probe.
- ¹ Well head elevations taken from the Preliminary Site Assessment/Well Installation Report prepared by GeoStrategies, Inc., dated February 8, 1991.
- ² Top of Casing elevations surveyed by Ron Miller, P.E. #15816, on April 2, 1992. Ground water elevations prior to this date, corrected using this survey data.
- ³ Well was destroyed during tank removal and soil excavation operations.
- ⁴ Top of casing elevation compiled from the Groundwater Technology Inc., report prepared for Chevron.
- ⁵ Well not located by SES personnel.
- ⁶ Data compiled from the Groundwater Technology Inc. report of September, 1994, prepared for Chevron.
- ⁷ Well obstructed, therefore could not be sampled.
- ⁸ Analytic laboratory information for this event not available for inclusion in this report. Analytic methods used are assumed to be 8015/8020. Analytic data compiled from the Groundwater Technology Inc., report prepared for Chevron.



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 $\pm 0.5^{\circ}\text{F}$, 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. Pre-preserved 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

Job Name SAN. LORENZO Job Number 1-206-04
 Well Number 6-TB Date 11/27/94
 Sample Point Location/Description _____
 Depth to Water (static) _____ Well Depth (sounded) _____
 Initial height of water in casing _____ Volume _____ gallons
 Volume to be purged _____ gallons
 Purged With _____ Sampled With _____
 Pumped or Bailed Dry? Yes No Time _____ After _____ gallons
 Water level at sampling _____ Percent Recovery _____

Sampler ~~RT~~ DB
 Well Diameter 2"
 Well Depth (spec.) _____

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 7.48 gal/ft³
 $V_{1.0}$ casing = 0.163 gal/ft
 $V_{1.5}$ casing = 0.367 gal/ft
 $V_{2.0}$ casing = 0.653 gal/ft
 $V_{2.5}$ casing = 0.826 gal/ft
 $V_{3.0}$ casing = 1.47 gal/ft
 $V_{4.0}$ casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time _____ Total volume purged (gal.) _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: TRIP BLANK

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>TB</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SEQ</u>	<u>G/BTEX</u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____; G = Other _____

K4



WATER SAMPLING DATA

Job Name SAN. LORENZO Job Number 1-206-04
 Well Number C-5 Date 11/27/94
 Sample Point Location/Description MEDIAN WASHINGTON AVE
 Depth to Water (static) 7.76 Well Depth (sounded) 26.0
 Initial height of water in casing 18.24 Volume 2.9 gallons
 Volume to be purged 8.91 gallons
 Purged With PUMP Sampled With DISP. BAIL
 Pumped or Bailed Dry? Yes No Time After gallons
 Water level at sampling Percent Recovery

Sampler RT DB.
 Well Diameter 2"
 Well Depth (spec.)

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 7.48 gal/ft³
 $V_{1'}^*$ casing = 0.163 gal/ft
 $V_{2'}^*$ casing = 0.307 gal/ft
 $V_{3'}^*$ casing = 0.653 gal/ft
 $V_{4'}^*$ casing = 0.826 gal/ft
 $V_{5'}^*$ casing = 1.47 gal/ft
 $V_{6'}^*$ casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
14:20							
	14:22	.3	3	7.22	69	*	
	14:24	.3	6	7.19	109	↓	
	14:26	.3	9	7.16	109	↓	

SAMPLES COLLECTED Time 14:35 Total volume purged (gal.) 9
 Water color CLEAR Odor NO
 Description of sediments or material in sample:
 Additional Comments: * CASUALTY NOT BEING PROPERLY

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>C-5</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SEQ</u>	<u>G/BTEX</u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____; 6 = Other _____



WATER SAMPLING DATA

Job Name SAN. LORENZO Job Number 1-206-04
 Well Number C-6 Date 11/29/94
 Sample Point Location/Description WEST ON LOT.
 Depth to Water (static) 7.26 Well Depth (sounded) 22.0
 Initial height of water in casing 14.74 Volume 2.40 gallons
 Volume to be purged 7.2 gallons
 Purged With PUMP Sampled With DISP. BALLER
 Pumped or Bailed Dry? Yes No Time After 6 1/8 gallons
 Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 7.48 gal/ft³
 V_1 casing = 0.163 gal/ft
 V_2 casing = 0.367 gal/ft
 V_3 casing = 0.653 gal/ft
 V_4 casing = 0.826 gal/ft
 V_5 casing = 1.47 gal/ft
 V_6 casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp ^F (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
14:43							
	14:45	3	3	7.21	64	*	
	14:47	3	6	7.27	64	↓	
	14:48	2	8	7.31	64		

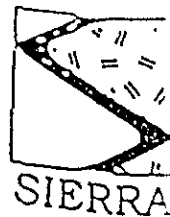
SAMPLES COLLECTED Time 14:55 Total volume purged (gal.) 8
 Water color CLEAR Odor NO

Description of sediments or material in sample: _____

Additional Comments: * CONDUCTIVITY NOT READING CORRECTLY
PURGE DRY AT 6 GAL & 8 GAL.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysts Requested
C-6	2	1	-	HCl	YES	SEQ	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____; 6 = Other _____



WATER SAMPLING DATA

Job Name SAN. LORENZO

Job Number 1-206-04

Well Number C-7

Date 11/27/94

Sample Point Location/Description EAST ON LOT

Sampler RH D.B.

Depth to Water (static) 8.48

Well Depth (sounded) 22.0

Initial height of water in casing 13.52

Volume 2.26 gallons

Volume to be purged 6.61 gallons

Purged With PUMP

Sampled With DRY BAILER

Pumped or Bailed Dry? Yes No

Time _____ After _____ gallons

Water level at sampling _____

Percent Recovery _____

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 $vol. in cyl. = \pi r^2 h$
7.48 gal/ft³
 $V_{1'} casing = 0.163 gal/ft$
 $V_{2'} casing = 0.367 gal/ft$
 $V_{3'} casing = 0.653 gal/ft$
 $V_{4'} casing = 0.826 gal/ft$
 $V_{5'} casing = 1.47 gal/ft$
 $V_{6'} casing = 2.61 gal/ft$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
13:53							
	13:55		3	7.36	67	*	
	13:57		5	7.32	67	↓	
	13:59		7	7.31	67		

SAMPLES COLLECTED Time 14:05

Total volume purged (gal.) 7

Water color CLEAR

Odor NO

Description of sediments or material in sample: _____

Additional Comments: * METER NOT READING CORRECTLY

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
<u>C-7</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SEQ</u>	<u>G/BTEX</u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____; 6 = Other _____



Sierra Environmental Services	Client Proj. ID: Chevron 9-5630, San Leandro	Sampled: 11/30/94
P.O. Box 2546	Sample Descript: TB	Received: 12/01/94
Martinez CA 94553	Matrix: LIQUID	
Attention: Ed Morales	Analysis Method: 8015Mod/8020	Analyzed: 12/07/94
	Lab Number: 9412184-01	Reported: 12/09/94


QC Batch Number: GC120694BTEX02A
Instrument ID: GCHP-02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Sierra Environmental Services	Client Proj. ID: Chevron 9-5630, San Leandro	Sampled: 11/30/94
P.O. Box 2546	Sample Descript: C-5	Received: 12/01/94
Martinez CA 94553	Matrix: LIQUID	
Attention: Ed Morales	Analysis Method: 8015Mod/8020	Analyzed: 12/07/94
	Lab Number: 9412184-02	Reported: 12/09/94

QC Batch Number: GC120694BTEX02A
Instrument ID: GCHP-02


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

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

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Sierra Environmental Services P.O. Box 2546 Martinez CA 94553 Attention: Ed Morales	Client Proj. ID: Chevron 9-5630, San Leandro Sample Descript: C-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9412184-03	Sampled: 11/30/94 Received: 12/01/94 Analyzed: 12/07/94 Reported: 12/09/94
--	---	---

QC Batch Number: GC120694BTEX02A
Instrument ID: GCHP-02


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	610
Benzene	0.50	2.1
Toluene	0.50	0.57
Ethyl Benzene	0.50	30
Xylenes (Total)	0.50	14
Chromatogram Pattern: Weathered Gas		C8-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Sierra Environmental Services	Client Proj. ID: Chevron 9-5630, San Leandro	Sampled: 11/30/94
P.O. Box 2546	Sample Descript: C-7	Received: 12/01/94
Martinez CA 94553	Matrix: LIQUID	
Attention: Ed Morales	Analysis Method: 8015Mod/8020	Analyzed: 12/07/94
	Lab Number: 9412184-04	Reported: 12/09/94

QC Batch Number: GC120694BTEX02A
 Instrument ID: GCHP-02


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





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

Client Project ID: **Chevron 9-5630, San Leandro**
Matrix: **Liquid**

Work Order #: **9412184 -01 - 04**

Reported: **Dec 12, 1994**

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC120694BTEX02A	GC120694BTEX02A	GC120694BTEX02A	GC120694BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	N.A.	N.A.	N.A.	N.A.

Analyst:	J.Minkel	J.Minkel	J.Minkel	J.Minkel
MS/MSD #:	G9412043-10M	G9412043-10M	G9412043-10M	G9412043-10M
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	12/6/94	12/6/94	12/6/94	12/6/94
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
Result:	10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	0.0	0.0	0.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

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.

SEQUOIA ANALYTICAL

Todd Olive
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9412184.SSS <1>

