12/16/94 0.2

HAZMAT

Chevron

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

November 14, 1994

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

Any plans to investigate release source of sewer trench down Amador Valley Blvd?
Yes

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.

SIERRA
Environmental Services

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 inlcuded. 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

L. Chernyak

Luda Chernyak
Staff Technician

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

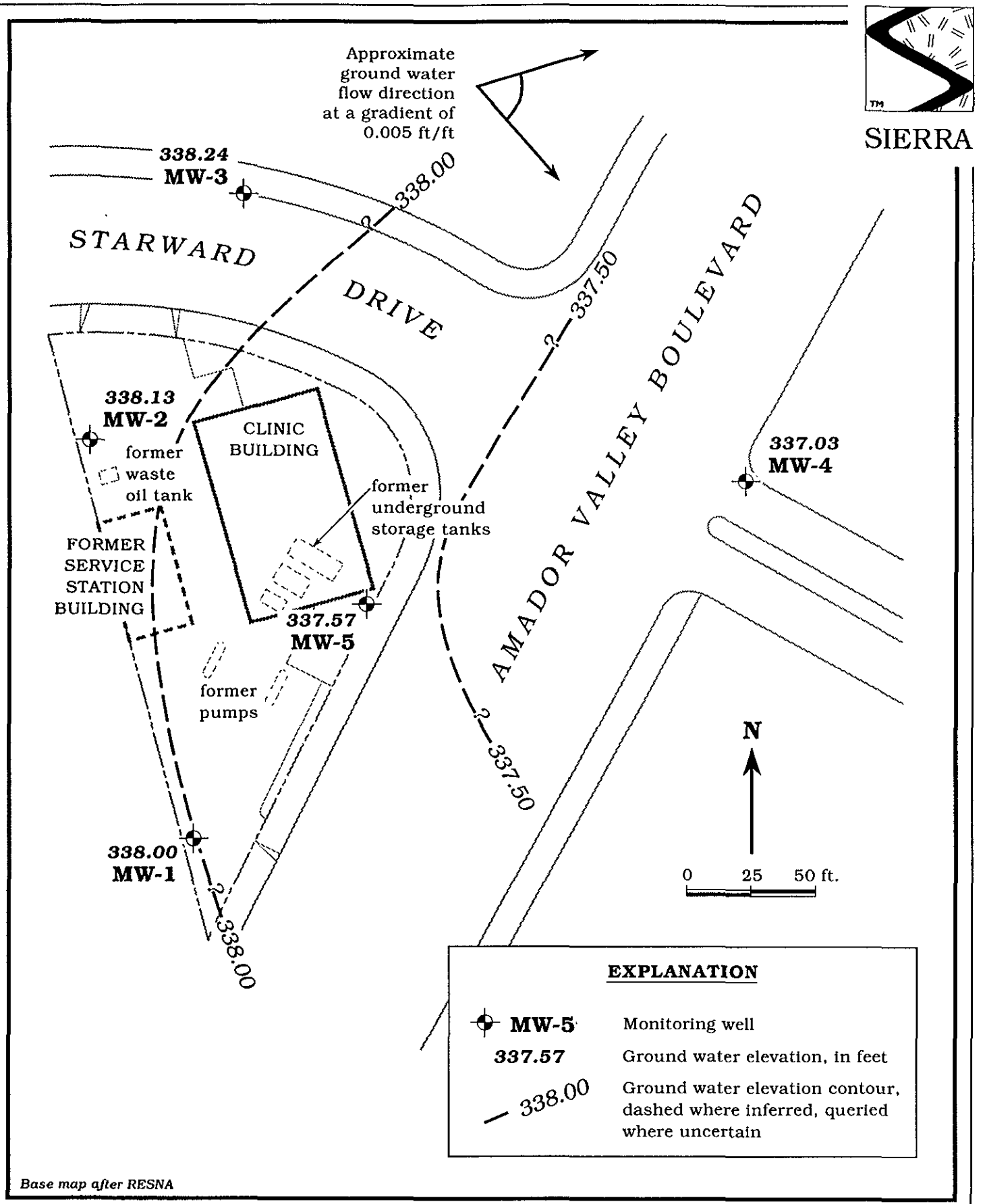

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map – October 7, 1994 – Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California

1-380-04 11/8/94

SIERRA

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* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
MW-1/ 346.73	9/23/93	6.62	340.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	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/ 348.41	9/23/93	8.11	340.30	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	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/ 347.14	9/23/93	7.04	340.10	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	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/ 343.52	9/23/93	5.12	338.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	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/ 345.51	3/11/94	6.10	339.41	0	8015/8020	770	1.4	37	5.6	10
	6/15/94	6.48	339.03	0	8015/8020	650	1.5	38	12	5.5
	10/7/94	**7.94**	**337.57**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
TB-LB	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**

SIERRA

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

SIERRA

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. 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.

SIERRA

WATER SAMPLING DATA

Job Name 7667 Amador Valley 1-380-04 Job Number 1-380-04 Sampler JDB.

Well Number MW-1 Date 10-7-94 Well Diameter 2"

Sample Point Location/Description South on Property Well Depth (spec.) _____

Depth to Water (static) 8.73 Well Depth (sounded) 18

Initial height of water in casing 9.27 Volume 1.51 gallons

Volume to be purged 5 gallons

Purged With Bailer Sampled With Disp 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_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" 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
11:51							
	11:56	2	2	7.55	73.8	10.14	x1,000
	12:01	2	4	7.43	↓	11.16	↓
	12:06	1	5	7.38	↓	11.33	↓

SAMPLES COLLECTED Time 12:10 Total volume purged (gal.) 5

Water color Brown Odor NONE

Description of sediments or material in sample: High in Sediment FINE

Additional Comments: New Cap

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-1	3	1	—	HCl	YES	SPA	GAS/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 _____

SIERRA

WATER SAMPLING DATA

Job Name 7667 AMADOR VALLEY 1-380-04 Job Number 1-380-04 Sampler DB.

Well Number MW-2 Date 10-7-94 Well Diameter 2"

Sample Point Location/Description NORTH ON PROPERTY Well Depth (spec.) _____

Depth to Water (static) 10.28 Well Depth (sounded) 18.0

Initial height of water in casing 7.72 Volume 1.25 gallons

Volume to be purged 4 gallons

Purged With BAILER Sampled With DISP. 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_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" 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
12:23							
	12:28	1	1	7.15	73.5	14.90	X 1,000
	12:32	2	3	7.35	↓	13.40	↓
	12:37	1	4		↓		↓

SAMPLES COLLECTED Time 12:42 Total volume purged (gal.) _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-2	3	1	—	HCl	YES	SPA	GAS/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 _____

SIERRA

WATER SAMPLING DATA

Job Name 7667 Amador Valley 1-380-04 | Job Number 1-380-04 | Sampler DB.

Well Number MW-3 | Date 10-7-94 | Well Diameter 2"

Sample Point Location/Description N. side of Stanley Dr. | Well Depth (spec.) _____

Depth to Water (static) 8.90 | Well Depth (sounded) 17

Initial height of water in casing 8.1 | Volume 1.32 gallons

Volume to be purged 4 gallons

Purged With Bailer | Sampled With Disp. 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_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" 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
10:35							
	10:39	1	1	6.98	70.1	5.28	x 1,000
	10:44	2	3	6.91	↓	5.41	↓
	10:47	1	4	6.86	↓	5.57	↓

SAMPLES COLLECTED Time 10:50 | Total volume purged (gal.) 4

Water color Brown | Odor NONE

Description of sediments or material in sample: Sediment High in Fines

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-3	3	1	—	HCl	YES	SPA	GAS/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 _____

SIERRA

WATER SAMPLING DATA

Job Name 7667 Amador Valley (1-380-04) Job Number 1-380-04 Sampler J.B.

Well Number MW-4 Date 10-7-94 Well Diameter 2"

Sample Point Location/Description ~~East~~ Across Street Well Depth (spec.) _____

Depth to Water (static) 6.49 Well Depth (sounded) 18

Initial height of water in casing 11.51 Volume 1.87 gallons

Volume to be purged 6 gallons

Purged With Bailer Sampled With Disp. 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_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" 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
11:12							
	11:16	2	2	7.10	72.1	11.80	x 1,000
	11:21	2	4	7.05	"	11.01	"
	11:27	2	6	7.04	"	10.15	"

SAMPLES COLLECTED Time ~~11:30~~ 11:30 Total volume purged (gal.) 6

Water color Brown Odor NONE

Description of sediments or material in sample: High Sediment, FINE

Additional Comments: New Cap

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-4	3	1	—	HCl	Yes	SPA	GAS/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 _____

SIERRA

WATER SAMPLING DATA

7667 Amador Valley

Job Name ~~1-380-04~~ Job Number 1-380-04 Sampler D.B.

Well Number MW-5 Date 10-7-94 Well Diameter 2"

Sample Point Location/Description EAST on Property Well Depth (spec.) _____

Depth to Water (static) 7.94 Well Depth (sounded) 17

Initial height of water in casing 9.06 Volume 1.47 gallons

Volume to be purged 4 gallons

Purged With BAILER Sampled With Disp. 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_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" 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
13:00							
	13:04	2	2	7.02	70.5	10.55	x 1,000
	13:09	1	3	6.94	↓	9.92	↓
	13:14	1	4	6.89	↓	9.40	↓

SAMPLES COLLECTED Time 13:20 Total volume purged (gal.) 4

Water color BROWN Odor NO

Description of sediments or material in sample: MED - HEAVY SEDIMENT

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-5	3	1	—	HCl	YES	SPA	GAS/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 _____

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 15699

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-2621
Facility Address: 76167
Consultant Project Number: 1-380-04
Consultant Name: SIERRA ENVIRONMENTAL SERVICES
Address: P.O. BOX 2546 MARTINEZ, CA 94553
Project Contact (Name): ED MORALES
(Phone) 370-1280 (Fax Number) 370-7959

Chevron Contact (Name): KENNETH KAN
(Phone): 842-8752
Laboratory Name: SUPERIOR ANALYTICAL
Laboratory Release Number: 1329391
Samples Collected by (Name): DAVID BEARDSLEY
Collection Date: 10.7.94
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Remarks
1W1		3	W	G	12:10	HCl	YES	✓								
1W2		↓	↓	↓	12:42	↓	↓	✓								
1W3					10:50			✓								
1W4					11:30			✓								
1W5					13:20			✓								
3-LB								✓								

Note:
Do Not Bill
TB-LB Samples

Please initial:
Samples Stored in ice ✓
Appropriate containers ✓
Samples preserved ✓
VOA's without headspace ✓
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	SES	10.7.94 15:45			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 10/7/94 15:45

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

10/7/94
JG

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
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

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

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit I
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

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	4%	59-149
Ethyl Benzene:	95/98	3%	59-149
Total Xylenes:	102/103	1%	59-149

Cecilia G Joaquin 10/17/94
Senior Chemist
Account Manager