Chevron

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
PO Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

August 9, 1994

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

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

Dear Ms. Chu:

Monitoring well MW-5 was the only well that had detectable levels of TPH-G and BTEX. The remaining four wells had traces of toluene and xylene. In addition, one of the remaining wells, MW-3, had detected benzene at the detection limit.

According to Sierra Environmental Services (SES), the "hits" in wells MW-1 through MW-4 could have come from the laboratory because the results from the method blank reveal very low levels of contamination. They also stated the wells may contain hydrocarbons, and they also stated it could be a combination of both. Next quarter's results will provide additional information that will help determine whether this is anomaly or not.

? No. Trip blank Was N.D.

Please refer to the enclosed report from SES dated July 22, 1994 for additional information. Please note that the "hits" were also detected in the up-gradient well, and the water table was lower. 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 9-2621R8

Per Kevin Graves:

① if contam. levels at B-10 is shown not to be assoc. w/ release from chevron, then case closure can be considered. Source of street contam will be investigated by our agency.

② If above cannot be proved a MW on other side of street can be installed & sampled for at least 2 quarters.

③ Do not consider NAZ for this site

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.

100-16

SIERRA
Environmental Services

AUG 01 '94 K.L.K.

July 22, 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 June 15, 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 June 15, 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.

REGISTERED PROFESSIONAL ENGINEER
CHRIS J. BRAMER
C 048846
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sierra Environmental Services

Argy Mena
Staff Geologist

Chris J. Bramer
Professional Engineer #C48846

AJM/CJB/lo
38004QM.JLA

cc: Sheldon Nelson, CRTC

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

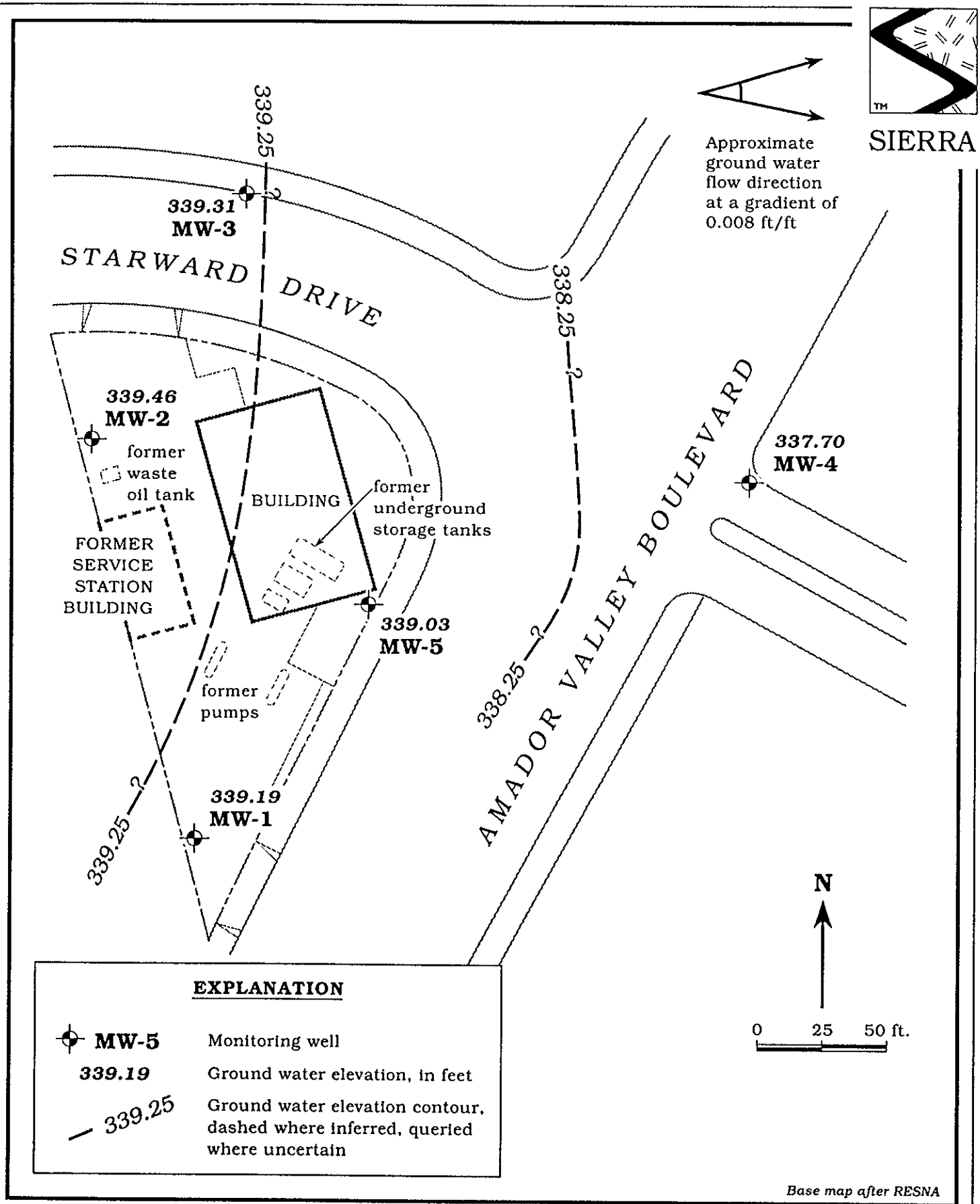

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - June 15, 1994 - Former Chevron Service Station #9-2621, 7667 Amador Valley Boulevard, Dublin, California

1-380-04 7/25/94

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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**
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**
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**
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**
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**
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**

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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

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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.

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WATER SAMPLING DATA

Job Name: Amador Valley Blvd | Job Number: 1-380-04 | Sampler: RH

Well Number: MW-1 | Date: 6/15/94 | Well Diameter: 2

Sample Point Location/Description: Southernmost on-site well | Well Depth (spec.): 18—

Depth to Water (static): 7.54 | Well Depth (sounded): ____

Initial height of water in casing: 10.46 | Volume: 1.705 gallons

Volume to be purged: 6 gallons

Purged With: Sub Pump | Sampled With: Disposable Bailer

Pumped or Bailed Dry? ___ Yes X 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
1637	1639	2	2	7.96	71	1590	
	1640	2	4	7.85	70	1866	
	1642	2	6	7.82	70	1896	

SAMPLES COLLECTED Time 1650 | Total volume purged (gal.) 6

Water color CLEAR | Odor NONE

Description of sediments or material in sample: NONE

Additional Comments: ____

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	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 ____

X6

WATERSAMPLE

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WATER SAMPLING DATA

Job Name Amador Valley Blvd Job Number 1-380-04 Sampler RH

Well Number MW-2 Date 6/15/94 Well Diameter 2

Sample Point Location/Description Northernmost on-site well Well Depth (spec.) 18

Depth to Water (static) 8.95 Well Depth (sounded) —

Initial height of water in casing 9.05 Volume 1.475 gallons

Volume to be purged 5 gallons

Purged With Sub Pump Sampled With Disposable Bailer

Pumped or Bailed Dry? ___ Yes X 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
1609	1611	2	2	7.81	72	1880	
	1613	2	4	7.60	69	1950	
	1614	1	5	7.61	70	1970	

SAMPLES COLLECTED Time 1622 Total volume purged (gal.) 5

Water color Cloudy Odor None

Description of sediments or material in sample: LT Brown Sediment

Additional Comments: * No HCl due to sample effervescence *

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW2	3	1	—	HCl *	YES	SPA	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 ____

X6

WATERSAMPLE

SIERRA

WATER SAMPLING DATA

Job Name: Amador Valley Blvd | Job Number: 1-380-04 | Sampler: RH

Well Number: MW-3 | Date: 6/15/94 | Well Diameter: 2

Sample Point Location/Description: Across Standard in Rock Planter Bed | Well Depth (spec.): 17

Depth to Water (static): 7.83 | Well Depth (sounded): —

Initial height of water in casing: 9.17 | Volume: 1.495 gallons

Volume to be purged: 5 gallons

Purged With: Sub Pump | Sampled With: Disposable Bailer

Pumped or Bailed Dry? ___ Yes X 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
1546	1548	2	2	7.73	71	1890	
	1550	2	4	7.52	70	1930	
	1551	1	5	7.50	70	1950	

SAMPLES COLLECTED Time 1602 | Total volume purged (gal.) 5

Water color Cloudy | Odor None

Description of sediments or material in sample: Heavy Brown Sediment

Additional Comments: * No HCl due to sample effervescence *

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW3	3	1	—	~~HCl~~ *	YES	SPA	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 ____

X6

SIERRA

WATER SAMPLING DATA

Job Name Amador Valley Blvd Job Number 1-380-04 Sampler RH

Well Number MW-4 Date 6/15/94 Well Diameter 2

Sample Point Location/Description IN LIBRARY Driveway Well Depth (spec.) 18—

Depth to Water (static) 5.82 Well Depth (sounded) —

Initial height of water in casing 12.18 Volume 1.99 gallons

Volume to be purged 6 gallons

Purged With Sub Pump Sampled With DISPOSABLE Bailer

Pumped or Bailed Dry? ___ Yes X 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
1524	1526	2	2	6.54	72	1610	
	1527	2	4	6.52	70	1850	
	1529	2	6	6.53	70	1880	

SAMPLES COLLECTED Time 1537 Total volume purged (gal.) (6)

Water color Cloudy Odor NONE

Description of sediments or material in sample: Slightly Sedimented

Additional Comments: * No HCl due to sample effervescence *

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW4	3	1	—	~~HCl~~ *	YES	SPA	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 ____

X6

SIERRA

WATER SAMPLING DATA

Job Name Amador Valley Blvd Job Number 1-380-04 Sampler RH

Well Number MW-5 Date 6/15/94 Well Diameter 2

Sample Point Location/Description _____ Well Depth (spec.) 17 –

Depth to Water (static) 6.48 Well Depth (sounded) _____

Initial height of water in casing 10.52 Volume 1.72 gallons

Volume to be purged 6 gallons

Purged With Sub Pump Sampled With Disposable Bailer

Pumped or Bailed Dry? ___ Yes X 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
1654	1656	2	2	8.04	69	1270	
	1659	2	4	7.85	68	1330	
	1659.	2	6	7.80	68	1350	

SAMPLES COLLECTED Time 1707 Total volume purged (gal.) 6

Water color Clear Odor Slight Hydrocarbon

Description of sediments or material in sample: None

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW5	3	1	—	HCl	YES	SPA	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 _____

X6

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

30597 **Chain-of-Custody-Reco**

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

Chevron Facility Number 9-2621
Facility Address 7667 Amador Valley, Dublin
Consultant Project Number 1390.04
Consultant Name SIERRA ENVIRONMENTAL SERVICES
Address PO BOX 2546, MARTINEZ, CA 94553
Project Contact (Name) MR. ED MORALES
(Phone) (510)370-1280 (Fax Number) (510)370-7959

Chevron Contact (Name) MR. Kenneth Kan
(Phone) 842-8752
Laboratory Name SUPERIOR PRECISION
Laboratory Release Number 1339391
Samples Collected by (Name) MR. RICK HILTON
Collection Date 6/15/94
Signature [signature]

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	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
TBLB		2	W	G	—	HCl	Yes	X												Analyze as
MW-1		3	↓	↓	1650	↓	↓	X												shown
MW-2		↓	↓	↓	1622	NONE *	↓	X												↓
MW-3		↓	↓	↓	1602	↓	↓	X												↓
MW 4		↓	↓	↓	1537	↓	↓	X												↓
MW-5		↓	↓	↓	1707	HCl	↓	X												↓

DO NOT BILL CHEVRON FOR TB-LB SAMPLES

* * NO HCl due To SAmple Effervescence * *

Initial: M.V.
[illegible] Stored in [illegible] BLUE ICE ✓
[illegible] containers ✓ SEE COC NOTE
Appropriate [illegible] ✓
Samples [illegible]
VOAs without headspace
Comments: 17 VOAS
SAMPLES HAND DELIVERED, RECEIVED C.L.D.

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	SES	6/17/94 800AM			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time
			M. Vernon		06/17/94 8:05 AM

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

6/16/94 [initials]

COC-3.DWG/03 91/HCH

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Sierra Environmental
Attn: ED MORALES

Project 1-380-04
Reported 07/05/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
30597- 1	TB-LB	06/15/94	06/22/94	Water
30597- 2	MW-1	06/15/94	06/22/94	Water
30597- 3	MW-2	06/15/94	06/22/94	Water
30597- 4	MW-3	06/15/94	06/22/94	Water
30597- 5	MW-4	06/15/94	06/22/94	Water
30597- 6	MW-5	06/15/94	06/22/94	Water

RESULTS OF ANALYSIS

Laboratory Number:	30597- 1	30597- 2	30597- 3	30597- 4	30597- 5
Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	0.8	0.7	0.6	0.7
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	2.0	2.2	2.0	2.2
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	30597- 6
Gasoline:	650
Benzene:	1.5
Toluene:	38
Ethyl Benzene:	12
Total Xylenes:	5.5
Concentration:	ug/L

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

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: 30597

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:	72/76	5%	70-130
Benzene:	85/83	2%	70-130
Toluene:	90/90	0%	70-130
Ethyl Benzene:	97/97	0%	70-130
Total Xylenes:	96/96	0%	70-130

Senior Chemist
Certified Laboratories