ALCO
HAZMAT

94 MAY -6 PM 1:18

Chevron

April
~~January~~ 26, 1994

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

Marketing Department
Phone 510 842 9500

Ms. Susan Hugo
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station No. 9-3864
5101 Telegraph Avenue, Oakland, California

Dear Ms. Hugo :

The Berkeley Land Co., who owns the vacant property across 51st Street down- and cross-gradient of the above referenced site, has informed Chevron that they have extensively investigated their property. As part of their investigation, they installed several monitoring wells and tested the soil and groundwater for contaminants.

It is in Chevron's opinion that further investigation in the down- and cross- gradient direction is unnecessary because the same information can be obtained from their investigation. Alameda Co. may want to review their files because it has come to Chevron's attention that Alameda Co. was overseeing their investigation. In light of this new information, Chevron will not conduct the additional investigation as it was stated in Chevron's cover letter dated January 26, 1994.

Chevron has not received a letter from Alameda Co. regarding the developability of the subject site.

Please refer to the enclosed report from Sierra Environmental Services dated April 25, 1994 for the latest groundwater information. If you have any questions, comments, or corrections, please call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan
Site Assessment and Remediation Engineer

LKAN/MacFile 9-3864R23

Enclosure

cc: Dr. Ravi Arulananthum, RWQCB-San Francisco Bay Area
2101 Webster Street, Suite 500, Oakland, CA 94612

Ms. Bette Owen
Chevron U.S.A. Products Co.

MAY 4 '94 J.M.M.

SIERRA
Environmental Services

April 25, 1994

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

Re: Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California
SES Project #1-203-04

Dear Mr. Kan:

This report presents the results of quarterly ground water sampling at Former Chevron Service Station #9-3864, located at 5101 Telegraph Avenue in Oakland, California. Nine wells, C-1 through C-4 and MW-1 through MW-5, were sampled (Figure 1).

On March 16, 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 water samples were collected on March 16, 1994 in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). All analyses were performed by Superior Precision Analytical, Inc. of San Francisco, 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/wmc
20304QM.AP4

Attachments
Figure
Table
SES Standard Operating Procedure
Chain of Custody Document and Laboratory Analytic Reports

870 Market Street, Suite 1154 • San Francisco, California 94102 • (415) 392-5533

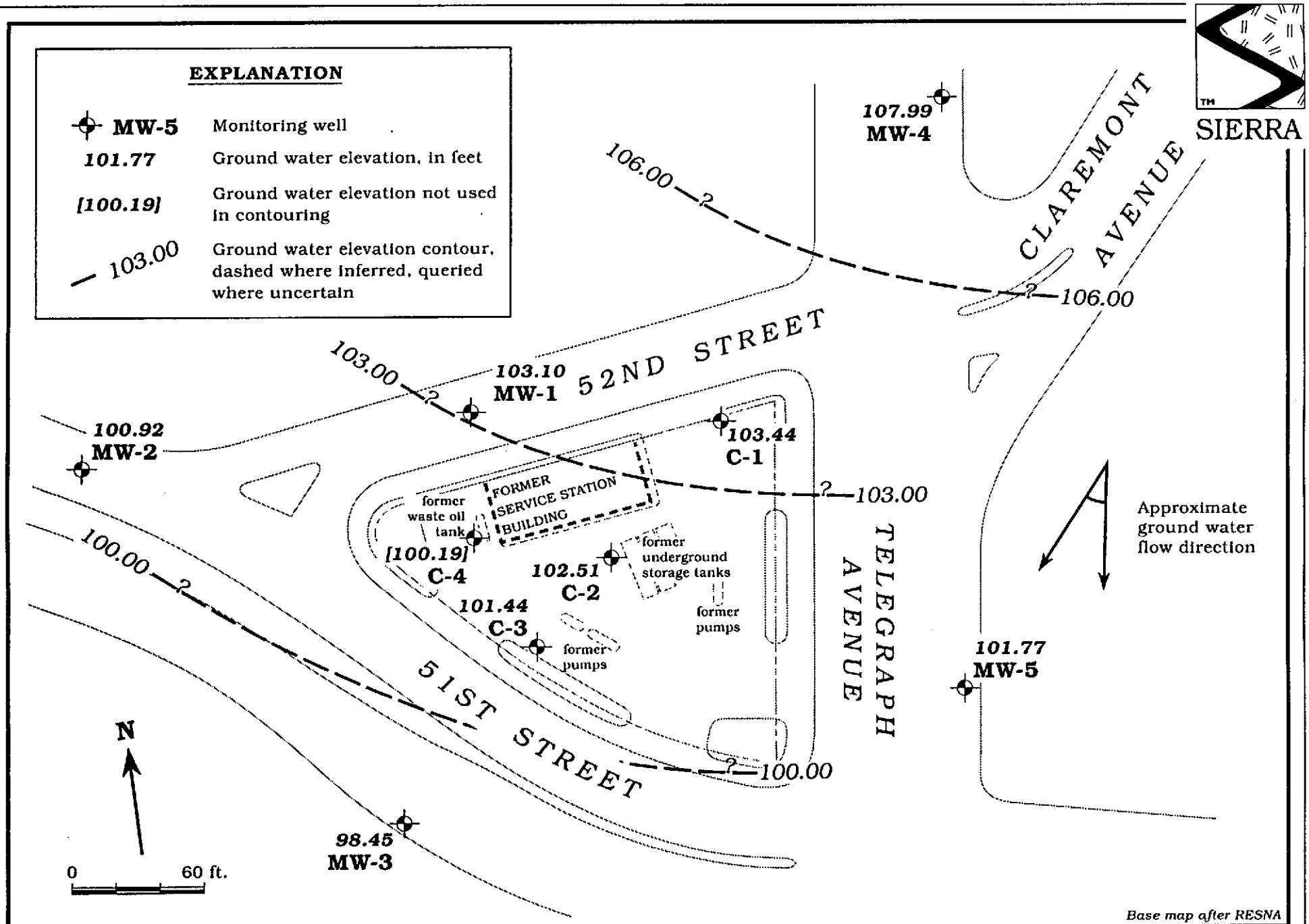

Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - March 16, 1994 - Former Chevron Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California

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Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
C-1/ 117.45	12/6/90	15.34	102.11	0	8015/8020	1,900	17	11	3	21
	6/6/91	14.62	102.83	0	8015/8020	3,400	21	15	11	18
	12/4/91	14.48	102.97	0	8015/8020	2,700	22	16	13	23
	6/2/92	14.53	102.92	0	8015/8020	1,900	170	170	13	83
	9/16/92	14.93	102.52	0	8015/8020	810	5.8	5.7	2.0	6.3
	12/21/92	13.73	103.72	0	8015/8020	75	2.4	2.9	1.4	4.7
	3/11/93	13.83	103.62	0	8015/8020	150	2.4	20	3.3	23
	6/11/93	14.19	103.26	0	8015/8020	400	4.3	2.3	1.0	3.5
	9/13/93	14.60	102.85	0	8015/8020	4,100	62	43	34	57
	12/14/93	13.78	103.67	0	8015/8020	3,100	9.5	4.5	1.2	11
	3/16/94	**14.01**	**103.44**	**0**	**8015/8020**	**410**	**6.3**	**3.1**	**1.3**	**4.5**
C-2/ 116.16	12/6/90	15.34	100.82	0	8015/8020	210	140	9	2	11
	6/6/91	14.62	101.54	0	8015/8020	4,800	340	23	19	23
	12/4/91	15.43	100.73	0	8015/8020	3,900	85	15	9.1	15
	6/2/92	14.42	101.74	0	8015/8020	3,300	76	9.2	14	15
	9/16/92	14.81	101.35	0	8015/8020	3,000	16	15	3.4	7.5
	12/21/92	13.37	102.79	0	8015/8020	2,200	21	12	7.1	15
	3/11/93	13.47	102.69	0	8015/8020	2,200	33	24	12	25
	6/11/93	13.98	102.18	0	8015/8020	2,600	21	25	11	26
	9/13/93	14.55	101.61	0	8015/8020	2,100	31	25	18	39
	12/14/93	13.70	102.46	0	8015/8020	3,800	<2.5	24	12	20
	3/16/94	**13.65**	**102.51**	**0**	**8015/8020**	**2,600**	**12**	**15**	**10**	**17**
C-3/ 115.70	12/6/90	16.86	98.84	0	8015/8020	210	2	<0.5	<0.5	1
	(d) 12/6/90	---	---	---	8015/8020	220	2	0.6	<0.5	2
	6/6/91	15.69	100.01	0	8015/8020	6,400	310	21	16	21
	12/4/91	15.38	100.32	0	8015/8020	5,100	120	18	17	20
	6/2/92	15.40	100.30	0	8015/8020	6,700	140	44	17	37
	9/16/92	15.89	99.81	0	8015/8020	7,100	130	26	12	30
	12/21/92	13.91	101.79	0	8015/8020	13,000	390	360	100	410
	3/11/93	13.75	101.95	0	8015/8020	5,100	86	20	12	23
	6/11/93	14.67	101.03	0	8015/8020	7,200	91	38	19	38
	9/13/93	15.53	100.17	0	8015/8020	6,800	100	52	41	75
	12/14/93	14.40	101.30	0	8015/8020	8,600	74	23	18	36

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
C-3 (cont)	**3/16/94**	**14.26**	**101.44**	**0**	**8015/8020**	**6,000**	**100**	**42**	**27**	**30**
C-4/ 116.10	12/6/90	17.68	98.42	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/18/90[1]	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/6/91	16.49	99.61	0	8015/8020	<50	1.0	1.0	<0.5	0.7
	12/4/91	16.82	99.28	0	8015/8020	70	6.5	9.8	1.7	8.6
	6/2/92	16.92	99.18	0	8015/8020	70	3.0	4.4	1.8	9.0
	9/16/92	17.71	98.39	0	8015/8020	<50	1.4	1.8	<0.5	1.1
	12/21/92	15.36	100.74	0	8015/8020	<50	0.6	0.7	<0.5	1.5
	3/11/93	15.49	100.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/11/93	16.27	99.83	0	8015/8020	52	0.9	3.1	0.7	3.8
	9/13/93	17.18	98.92	0	8015/8020	64	0.9	1.0	<0.5	1.7
	12/14/93	15.07	101.03	0	8015/8020	<50	<0.5	0.8	<0.5	0.7
	3/16/94	**15.91**	**100.19**	**0**	**8015/8020**	**<50**	**<0.5**	**1**	**<0.5**	**0.8**
MW-1/ 115.05[2]	9/20/93	12.68	102.37	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/14/93	10.04	105.01	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/16/94	**11.95**	**103.10**	**0**	**8015/8020**	**<50**	**<0.5**	**1.7**	**<0.5**	**2.1**
MW-2/ 112.08[2]	9/20/93	12.15	99.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/14/93	14.72	97.36	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/16/94	**11.16**	**100.92**	**0**	**8015/8020**	**<50**	**<0.5**	**1.1**	**<0.5**	**0.9**
MW-3/ 113.67[2]	9/20/93	16.42	97.25	0	8015/8020	6,600	400	11	32	23
	12/14/93	14.72	98.95	0	8015/8020	8,400	390	9.4	13	<2.5
	3/16/94	**15.22**	**98.45**	**0**	**8015/8020**	**6,900**	**260**	**30**	**32**	**27**
MW-4/ 118.10[2]	9/20/93	10.93	107.17	0	8015/8020	5,800	16	4.2	35	48
	12/14/93	9.77	108.33	0	8015/8020	7,100	19	6.5	24	35
	3/16/94	**10.11**	**107.99**	**0**	**8015/8020**	**8,500**	**83**	**43**	**60**	**70**
MW-5/ 116.74[2]	9/20/93	15.31	101.43	0	8015/8020	590	25	1.8	0.6	2

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
MW-5	12/14/93	14.55	102.19	0	8015/8020	210	11	6.3	2.3	6.1
(cont)	**3/16/94**	**14.97**	**101.77**	**0**	**8015/8020**	**270**	**12**	**16**	**4.8**	**17**
Trip Blank	12/6/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/18/90[3]	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
(AA)	6/6/91	---	---	---	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
TB-LB	6/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/16/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/11/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/11/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	9/13/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/14/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/16/94	**---**	**---**	**---**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Bailer Blank	6/6/91	---			8015/8020	<50	<0.5	<0.5	<0.5	<0.5
(BB)	12/4/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/2/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/16/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/21/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/11/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	6/11/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	9/13/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/14/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/16/94	**---**	**---**	**---**	**8015/8020**	**<50**	**<0.5**	**0.7**	**<0.5**	**0.7**

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Table 1. Water Level Data and Ground Water Analytic Results - Former Chevron Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California

EXPLANATION:

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::

Depth to water data, top of casing elevations prior to June 6, 1991, and ground water analytic data from December 6 and 18, 1990 was compiled from the January 17, 1991 Site Update Reports prepared for this service station by GeoStrategies, Inc. of Hayward, California.

NOTES continued:

Analytic data for September 1993 sampling event for wells MW-1 through MW-5 were compiled from the Well Installation Report prepared for Chevron by Resna, September 1993.

• Product thickness was measured by GeoStrategies, Inc., on December 6, 1990 with an electronic oil-water interface probe. SES product thickness measurements after 12/6/90 were made with an MMC flexi-dip interface probe.

[1] C-4 was also analyzed for halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and metals (Cd, Cr, Pb, Ni and Zn) by EPA-approved methods. Two ppb chloroform, 0.18 ppm chromium, 0.25 ppm nickel and 0.23 ppm zinc were detected. Other HVOCs, Cd and Pb were not detected.

[2] Top of casing elevations for wells MW-1 through MW-5 were compiled from the Well Installation Report prepared for Chevron by Resna, September 1993.

[3] The trip blank was also analyzed for HVOCs. HVOCs were not detected.

20304T.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 steam-cleaned Teflon 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 and bailer blank accompanies each sampling set, or 5% trip blanks and 5% bailer blanks are included for sets of greater than 20 samples. The bailer blank is prepared by pouring previously boiled water into a steam-cleaned Teflon bailer prior to sampling a well. The trip and bailer blanks are analyzed for some or all of the same compounds as the ground water samples.

Fax copy of Lab Report and COC to Chevron Contact: ☒ No Job # 50771

Chain-of-Custody-Record

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

Chevron Facility Number 9-3864
Facility Address 5101 TELEGRAPH, OAKLAND
Consultant Project Number 1-703-04
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 Analytical
Laboratory Release Number 4056670
Samples Collected by (Name) MR. RICK HILTON
Collection Date 3/6/94
Signature

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)	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)					DO NOT BILL CHEVRON FOR TB-LB SAMPLES — Remarks
TBLB	1 2	3	W	G	—	HCl	YES	X												Analyze in
BB	2	3			1045			X												order shown
MW-1	3				1048			X												
MW-2	4				1115			X												
C-4	5				1254			X												
MW-5	6				1450			X												
MW-3	7				1424			X												
MW-4	8				1143			X												
C-1	9				1348			X												
C-2	10				1330			X												
C-3	11	↓	↓	↓	1312	↓	↓	X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	SES	3/7/94 0945			
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
					3/7 9:45

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

COC-3.DWG/83-91/MCH

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Sierra Environmental
Attn: ED MORALES

Project 1-203-04
Reported 03/24/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
30354- 1	TBLB	03/16/94	03/22/94	Water
30354- 2	BB	03/16/94	03/22/94	Water
30354- 3	MW-1	03/16/94	03/22/94	Water
30354- 4	MW-2	03/16/94	03/22/94	Water
30354- 5	C-4	03/16/94	03/22/94	Water
30354- 6	MW-5	03/16/94	03/22/94	Water
30354- 7	MW-3	03/16/94	03/22/94	Water
30354- 8	MW-4	03/16/94	03/22/94	Water
30354- 9	C-1	03/16/94	03/22/94	Water
30354-10	C-2	03/16/94	03/22/94	Water

RESULTS OF ANALYSIS

Laboratory Number:	30354- 1	30354- 2	30354- 3	30354- 4	30354- 5
Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	0.7	1.7	1.1	1
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	0.7	2.1	0.9	0.8
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	30354- 6	30354- 7	30354- 8	30354- 9	30354-10
Gasoline:	270	6900	8500	410	2600
Benzene:	12	260	83	6.3	12
Toluene:	16	30	43	3.1	15
Ethyl Benzene:	4.8	32	60	1.3	10
Total Xylenes:	17	27	70	4.5	17
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Sierra Environmental
Attn: ED MORALES

Project 1-203-04
Reported 03/24/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
30354-11	C-3	03/16/94	03/23/94	Water

RESULTS OF ANALYSIS

Laboratory Number: 30354-11

Gasoline:	6000
Benzene:	100
Toluene:	42
Ethyl Benzene:	27
Total Xylenes:	30
Concentration:	ug/L

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

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: 30354

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:	113/118	4%	70-130
Benzene:	78/80	3%	70-130
Toluene:	80/79	1%	70-130
Ethyl Benzene:	85/86	1%	70-130
Total Xylenes:	93/95	2%	70-130

Senior Chemist