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

February 28, 1995

Ms. Jennifer Eberle
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-2506
2630 Broadway, Oakland, CA

Dear Ms. Eberle:

Enclosed is the quarterly Ground Water Sampling report dated February 10, 1995, prepared by our consultant Sierra Environmental Services for the above referenced site. Ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Dissolved concentrations of these constituents observed during this sampling event are consistent with historical results. Depth to ground water was measured at approximately 2.8 to 10.3 feet below grade and the direction of flow is to the west-northwest.

Enclosed for your review are copies of available historic Sanborn maps for the area. These were reviewed to assist in determining the prior use of the site and surrounding areas to determine if hydrocarbons observed in B-9 may have originated off-site. As the maps indicate, prior uses of the site include a hospital and an automobile dealership. Historic uses of adjacent properties to the south of the site along Broadway include automobile sales and repair. No conclusive information could be gathered from a review of these maps, however it is apparent that other potential sources do exist in the area.

Thank your for your letter of January 11, 1995 approving the discontinuance of sampling monitor wells B-2 and B-4. Chevron will continue to monitor and sample all other wells at this site and report findings on a quarterly basis for three additional quarters to establish a baseline trend of ground water gradient, flow direction, and dissolved hydrocarbon concentrations.

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. S.A. Willer

File: 9-2506 QM6

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Environmental Services

ENVIRONMENTAL
PROTECTION

95 MAR -2 PM 1:47

February 10, 1995

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

Re: Chevron Service Station #9-2506
2630 Broadway
Oakland, California
SES Project #1-364-04

Dear Mr. Miller:

This report presents the results of the quarterly ground water sampling for the fourth quarter of 1994 at Chevron Service Station #9-2506, located at 2630 Broadway in Oakland, California. Twelve wells, B-1 through B-12, were sampled (Figure 1).

On December 28, 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 December 28, 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 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
Exp 9/96
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sierra Environmental Services

Richard E. (Rick) Hilton
Staff Environmental Scientist

Chris J. Bramer
Professional Engineer #C48846

REH/CJB/lmo
36404QM.FE5

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

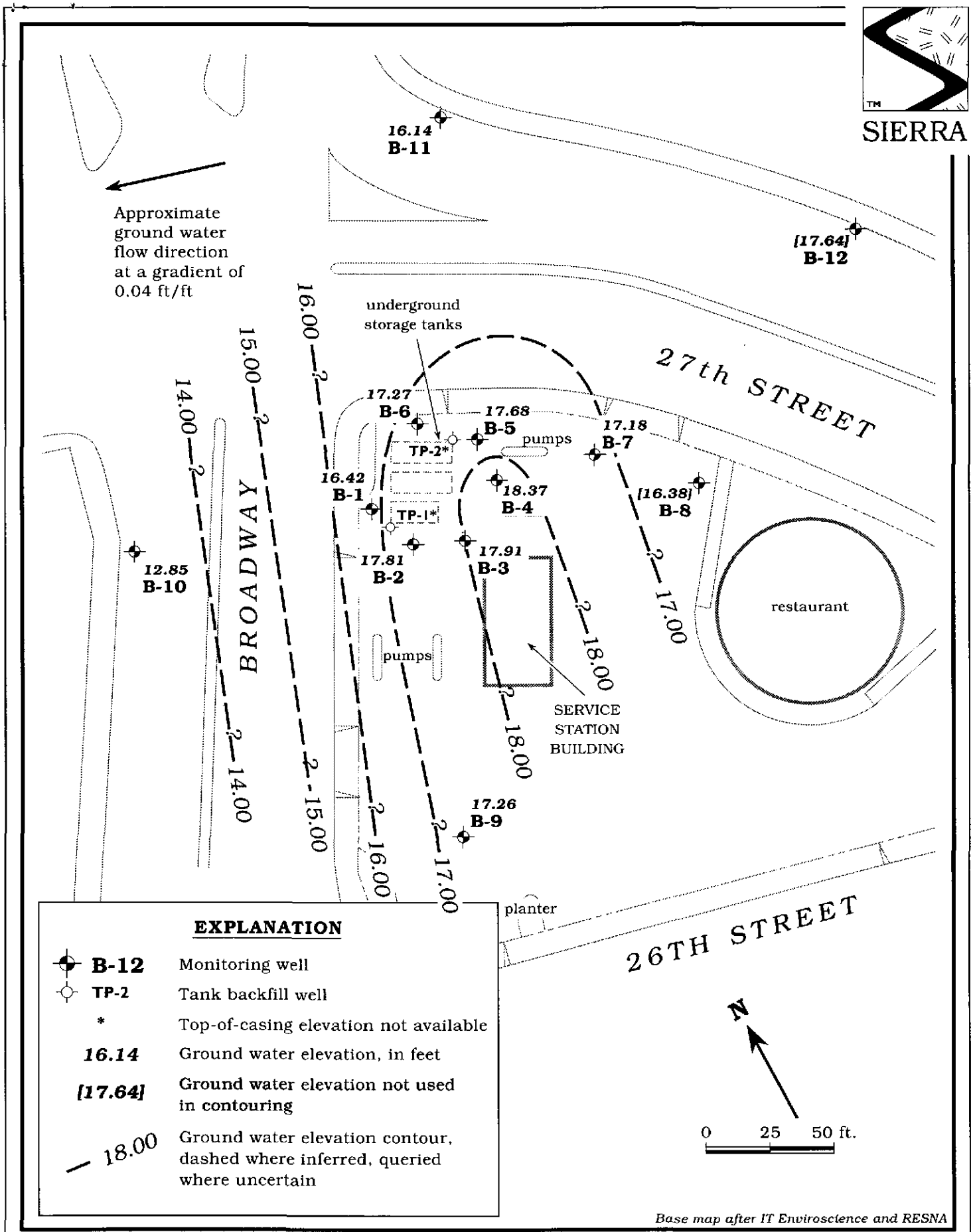

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map – December 28, 1994 – Chevron Service Station #9-2506, 2630 Broadway, Oakland, California

1-364-04 1/30/95

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-1/										
23.00[1]	3/18/82	7.81	15.19	0	---	---	---	---	---	---
	3/25/82	8.67	14.33	0	---	---	---	---	---	---
	5/21/82	9.30	13.70	0	---	---	---	---	---	---
	5/26/82	10.18	12.82	0	---	---	---	---	---	---
	6/24/82	9.92	13.08	0	---	---	---	---	---	---
	9/9/93	9.90	13.10	0	8015/8020	8,800[2]	240	280	<2.5	<7.5
	12/2/93	9.10	13.90	0	8015/8020	1,100	100	7.9	3.4	3.9
	3/17/94	9.41	13.59	0	8015/8020	1,600	370	13	13	26
	6/10/94	9.89	13.11	0	8015/8020	1,400	270	24	18	78
	9/15/94	11.24	11.76	0	8015/8020	4,100	740	<5	270	300
25.67[3]	**12/28/94**	**9.25**	**16.42**	**0**	**8015/8020**	**1,200**	**200**	**32**	**37**	**79**
B-2/										
22.28[1]	3/18/82	3.83	18.45	0	---	---	---	---	---	---
	3/25/82	5.79	16.49	0	---	---	---	---	---	---
	5/21/82	4.85	17.43	0	---	---	---	---	---	---
	5/26/82	8.53	13.75	0	---	---	---	---	---	---
	6/24/82	8.40	13.88	0	---	---	---	---	---	---
	9/9/93	6.46	15.82	0	8015/8020	4,700	470	630	180	590
	12/2/93	5.41	16.87	0	8015/8020	2,200	59	27	110	350
	3/17/94	7.44	14.84	0	8015/8020	1,800	52	33	97	320
	6/10/94	8.15	14.13	0	8015/8020	1,200	37	48	20	93
	9/15/94	10.00	12.28	0	8015/8020	4,900	710	12	340	450
25.13[3]	**12/28/94**	**7.32**	**17.81**	**0**	**8015/8020**	**2,600**	**63**	**49**	**56**	**370**
B-3/										
21.78[1]	3/18/82	5.65	16.13	0	---	---	---	---	---	---
	3/25/82	5.75	16.03	0	---	---	---	---	---	---
	5/21/82	5.58	16.20	0	---	---	---	---	---	---
	5/26/82	7.99	13.79	0	---	---	---	---	---	---
	6/24/82	7.68	14.10	0	---	---	---	---	---	---
	9/9/93	5.99	15.79	0	8015/8020	7,800	500	760	180	720
	12/2/93	5.70	16.08	0	8015/8020	9,800	790	870	380	1,500
	3/17/94	6.50	15.28	0	8015/8020	2,400	88	55	74	270
	6/10/94	7.23	14.55	0	8015/8020	2,300	110	95	84	240
	9/15/94	9.16	12.62	0	8015/8020	5,000	670	9.3	340	410

will be suspended

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-3 (cont)										
24.35[3]	**12/28/94**	**6.44**	**17.91**	**0**	**8015/8020**	**4,100**	**650**	**34**	**320**	**440**
B-4/										
21.35[1]	3/18/82	4.65	16.70	0	---	---	---	---	---	---
	3/25/82	5.08	16.27	0	---	---	---	---	---	---
	5/21/82	---	---	2.5	---	---	---	---	---	---
	5/26/82	9.21	12.14	---	---	---	---	---	---	---
	6/24/82	8.22	13.13	0.5	---	---	---	---	---	---
	9/9/93	6.09	15.26	0	8015/8020	88,000	3,200	16,000	2,000	9,500
	12/2/93	5.54	15.81	0	8015/8020	110,000	3,600	25,000	2,800	15,000
	3/17/94	6.00	15.35	0	8015/8020	60,000	1,400	16,000	1,800	8,900
	6/10/94	6.87	14.48	0	8015/8020	25,000	770	880	190	1,100
	9/15/94	8.74	12.61	0	8015/8020	3,300	800	8.0	300	350
24.11[3]	**12/28/94**	**5.74**	**18.37**	**0**	**8015/8020**	**17,000**	**400**	**4,000**	**630**	**2,900**
B-5/										
21.53[1]	3/18/82	5.13	16.40	0	---	---	---	---	---	---
	3/25/82	5.27	16.26	0	---	---	---	---	---	---
	5/21/82	4.40	17.13	0	---	---	---	---	---	---
	5/26/82	7.55	13.98	0	---	---	---	---	---	---
	6/24/82	7.27	14.26	0	---	---	---	---	---	---
	9/9/93	6.45	15.08	0	8015/8020	110,000	1,800	1,800	6,300	25,000
	12/2/93	5.13	16.40	0	8015/8020	81,000	4,400	3,800	6,700	28,000
	3/17/94	6.55	14.98	0	8015/8020	38,000	2,100	3,100	1,800	9,100
	6/10/94	7.34	14.19	0	8015/8020	110,000	5,100	7,000	5,400	27,000
	9/15/94	6.34	15.19	0	8015/8020	2,700	770	15	240	320
24.23[3]	**12/28/94**	**6.55**	**17.68**	**0**	**8015/8020**	**94,000**	**4,600**	**10,000**	**4,400**	**19,000**
B-6/										
22.03[1]	3/18/82	7.56	14.47	0	---	---	---	---	---	---
	3/25/82	6.08	15.95	0	---	---	---	---	---	---
	5/21/82	4.85	17.18	0	---	---	---	---	---	---
	5/26/82	8.31	13.72	0	---	---	---	---	---	---
	6/24/82	8.03	14.00	0	---	---	---	---	---	---
	9/9/93	8.12	13.91	0	8015/8020	6,800[2]	<0.5	<0.5	<0.5	<1.5
	12/2/93	7.06	14.97	0	8015/8020	320	29	<0.5	<0.5	<0.5
	3/17/94	7.57	14.46	0	8015/8020	570	130	6.2	4.7	14

will be suspended

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID / TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-6	6/10/94	8.21	13.82	0	8015/8020	1,500	100	81	51	240
(cont)	9/15/94	9.94	12.09	0	8015/8020	6,400	900	24	490	620
24.72[3]	**12/28/94**	**7.45**	**17.27**	**0**	**8015/8020**	**350**	**110**	**4.4**	**3.7**	**14**
B-7/										
19.54[1]	3/18/82	4.08	15.46	0	---	---	---	---	---	---
	3/25/82	4.00	15.54	0	---	---	---	---	---	---
	5/21/82	3.00	16.54	0	---	---	---	---	---	---
	5/26/82	4.96	14.58	0	---	---	---	---	---	---
	6/24/82	4.90	14.64	0	---	---	---	---	---	---
	9/9/93	6.54	13.00	0	8015/8020	230	1.3	2.3	0.6	2.1
	12/2/93	6.20	13.34	0	8015/8020	190	4.7	<0.5	1.1	1.9
	3/17/94	5.19	14.35	0	8015/8020	320	15	3.3	1.0	3.0
	6/10/94	5.97	13.57	0	8015/8020	210	6.1	5.7	2.3	5.8
	9/15/94	7.78	11.76	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
22.22[3]	**12/28/94**	**5.04**	**17.18**	**0**	**8015/8020**	**520**	**17**	**4.8**	**2.5**	**2.1**
B-8/										
18.49[1]	3/18/82	4.27	14.22	0	---	---	---	---	---	---
	3/25/82	4.06	14.43	0	---	---	---	---	---	---
	5/21/82	4.86	13.63	0	---	---	---	---	---	---
	5/26/82	4.96	13.53	0	---	---	---	---	---	---
	6/24/82	4.87	13.62	0	---	---	---	---	---	---
	9/9/93	5.20	13.29	0	8015/8020	<50	3.4	<0.5	<0.5	<1.5
	12/2/93	5.31	13.18	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/17/94	4.87	13.62	0	8015/8020	<50	1.7	0.5	<0.5	0.6
	6/10/94	5.63	12.86	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/15/94	7.10	11.39	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
21.01[3]	**12/28/94**	**4.63**	**16.38**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
B-9[4]	8/4/94	11.53	14.08	---	8015/8020	650	4.4	2.4	6.3	14
	11/2/94	9.42	16.19	---	8015/8020	---	---	---	---	---
25.61[3]	**12/28/94**	**8.35**	**17.26**	**0**	**8015/8020**	**2,400**	**290**	**8.4**	**90**	**36**
B-10[4]	8/4/94	10.95	12.20	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	11/2/94	11.19	11.96	---	8015/8020	---	---	---	---	---
23.15[3]	**12/28/94**	**10.30**	**12.85**	**0**	**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 - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
B-11[4]	8/4/94	10.39	14.84	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	11/2/94	11.50	13.73	---	8015/8020	---	---	---	---	---
25.23[3]	**12/28/94**	**9.09**	**16.14**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
B-12[4]	8/4/94	6.41	13.99	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	11/2/94	8.75	11.65	---	8015/8020	---	---	---	---	---
20.40[3]	**12/28/94**	**2.76**	**17.64**	**0**	**8015/8020**	**74**	**1.0**	**2.6**	**1.3**	**4.4**
TP-1/										
---	9/9/93	7.33	---	0	8015/8020	8,500	770	890	120	590
TP-2/										
---	9/9/93	6.18	---	0	8015/8020	13,000	2,400	3,200	380	1,900
Trip-Lab Blank										
TB-LB	9/9/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/2/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/17/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	6/10/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/15/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/28/94	---	---	---	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Bailer Blank										
BB	9/9/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5
	12/2/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/17/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	0.6

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, 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 analyzed/Not applicable

NOTES:

Water level data prior to September 9, 1993, compiled from IT Enviroscience Progress Report, prepared for Chevron, August 2, 1982.

* Product thickness was measured on and after September 9, 1993, with an MMC flexi-dip interface probe.

[1] Top of casing elevations were compiled from IT Enviroscience Program Report, August 2, 1982. TOC for MW-1 was assumed to be 23 feet MSL.
[2] Laboratory indicates a non-typical gasoline pattern.
[3] Wells were resurveyed. Top of casing elevations were compiled from RESNA Subsurface Investigation Report, October 19, 1994.
[4] Water level and analytic data prior to 12/28/94 from RESNA Subsurface Investigation Report, October 19, 1994.

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

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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 2630 Broadway OAC Job Number 1-364-04 Sampler _____

Well Number TB/LB Date 12/28/94 Well Diameter 2"

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

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

Initial height of water in casing _____ Volume _____ gallons

Volume to be purged _____ gallons

Purged With Pump 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

SAMPLES COLLECTED Time _____ 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
TB/LB	2	1	—	HCl	Y	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 _____

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WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler _____

Well Number B-1 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description NW side of site Well Depth (spec.) 29

Depth to Water (static) 9.25 Well Depth (sounded) _____

Initial height of water in casing 19.75 Volume 3.21 gallons

Volume to be purged = 9.61 gallons

Purged With Pump Sampled With Disp Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1358 After 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_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 (°F) (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1350	1352	4	4	8.2	63.2	700	
	1356	3	7	7.9	64.3	780	
		3	10				

SAMPLES COLLECTED Time 1405 Total volume purged (gal.) 8

Water color Clear Odor Mild Hydrocarbon

Description of sediments or material in sample: light, fine

Additional Comments: _____

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

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler _____

Well Number B-2 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description NW side of site Well Depth (spec.) 17

Depth to Water (static) 7.32 Well Depth (sounded) _____

Initial height of water in casing 9.68 Volume 1.57 gallons

Volume to be purged 4.7 gallons

Purged With Pump Sampled With Disp Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1413 After 2 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 (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1411		1	1	7.7	60.5	750	
		2	3				
		2	5				

SAMPLES COLLECTED Time 1422 Total volume purged (gal.) (3)

Water color Clear Odor Hydrocarbon

Description of sediments or material in sample: light tan, silt, organic

Additional Comments: + 10 HCl due to effervescence

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

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler _____

Well Number B-3 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description NW. side of site Well Depth (spec.) 17

Depth to Water (static) 6.44 Well Depth (sounded) _____

Initial height of water in casing 10.56 Volume 1.72 gallons

Volume to be purged 5.16 gallons

Purged With Pump Sampled With Disp Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1432 After 2 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 (°F/°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1429	1432	2	2	7.9	60.0	840	
		2	4				
		2	6				

SAMPLES COLLECTED Time 1442 Total volume purged (gal.) (2)

Water color clear Odor mild hydrocarbon

Description of sediments or material in sample: mod, TAN, black

Additional Comments: + 1/0 HCl due to effervescence

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

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway, OAC Job Number 1-364-04 Sampler C. L.

Well Number B-4 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description N side of site Well Depth (spec.) 16

Depth to Water (static) 5.74 Well Depth (sounded) _____

Initial height of water in casing 10.26 Volume 1.67 gallons

Volume to be purged 5.01 gallons

Purged With Pump Sampled With Disp Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1336 After 3 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 (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1332	1334	2	2	6.0	65.2	690	
		2	4				
		2	6				

SAMPLES COLLECTED Time 1342 Total volume purged (gal.) (3)

Water color clear Odor —

Description of sediments or material in sample: light, TAN

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-4	2	1	—	HCl	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler _____

Well Number B-5 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description N Side of site Well Depth (spec.) 18

Depth to Water (static) 6.55 Well Depth (sounded) _____

Initial height of water in casing 11.45 Volume 1.86 gallons

Volume to be purged = 5.59 gallons

Purged With Pump Sampled With Disp 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 (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1311	1312	2	2	8.0	58.6	730	
	1313	2	4	8.0	60.8	820	
	1315	2	6	8.0	63.4	860	

SAMPLES COLLECTED Time 1322 Total volume purged (gal.) 6

Water color Clear Odor Mild Hydrocarbon

Description of sediments or material in sample: light TAN

Additional Comments: * NO HCl due to effervescence

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-5	2	1	—	~~HCl~~ *	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAK Job Number 1-364-04 Sampler _____

Well Number B-6 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description 12 W corner of site Well Depth (spec.) 20

Depth to Water (static) 7.45 Well Depth (sounded) _____

Initial height of water in casing 12.55 Volume 2.04 gallons

Volume to be purged = 6 1 gallons

Purged With Pump Sampled With Disp Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1452 After 3.5 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
1449	1450	2	2	8.1	66.3	830	
		2.5	4.5				
		2.5	7				

SAMPLES COLLECTED Time 1458 Total volume purged (gal.) 3.5

Water color Clear Odor Hydrocarbon

Description of sediments or material in sample: very light, TAN

Additional Comments: + 10 HCl clue to effervescence

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-6	2	1	—	~~HCl~~ X	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler T.Z

Well Number B-7 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description W. of B-7 Well Depth (spec.) 20

Depth to Water (static) 5.09 Well Depth (sounded) _____

Initial height of water in casing 14.96 Volume 2.43 gallons

Volume to be purged 7.31 gallons

Purged With Pump Sampled With Disp. Bailer

Pumped or Bailed Dry? X Yes ___ No Time 1222 After 4.5 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
2" casing = 0.163 gal/ft
3" casing = 0.367 gal/ft
4" casing = 0.653 gal/ft
4.5" casing = 0.826 gal/ft
6" casing = 1.47 gal/ft
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
1218	1220	3	3	7.7	60.9	610	
		2.5	5.5				
		2.5	8				

SAMPLES COLLECTED Time 1228 Total volume purged (gal.) (4.5)

Water color Clear Odor _____

Description of sediments or material in sample: light, fine

Additional Comments: + 40 HCl due to effervescence

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-7	2	1	—	HCl	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAK Job Number 1-364-04 Sampler T.L.

Well Number B-8 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description NE side tube Well Depth (spec.) 18

Depth to Water (static) 4.63 Well Depth (sounded) _____

Initial height of water in casing 13.37 Volume 2.17 gallons

Volume to be purged 6.5 gallons

Purged With Pump Sampled With Disp 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
1151	1152	2	2	7.9	50.8	140	
	1154	2.5	4.5	7.8	54.2	580	
	1156	2.5	7	7.9	57.0	760	

SAMPLES COLLECTED Time 1210 Total volume purged (gal.) (5)

Water color Clear Odor _____

Description of sediments or material in sample: light, TAN

Additional Comments: * 10 HCl due to effervescence

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-8	2	1	—	HCl *	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler T.L

Well Number B-9 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description SW side of site Well Depth (spec.) 19

Depth to Water (static) 8.35 Well Depth (sounded) _____

Initial height of water in casing 10.65 Volume 1.73 gallons

Volume to be purged 5.2 gallons

Purged With Pump 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 (°F) (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1250	1251	2	2	7.8	58.9	1000	
	1252	3	4	8.0	61.6	1070	
	1253	2	6	8.1	61.8	1240	

SAMPLES COLLECTED Time 1300 Total volume purged (gal.) (6)

Water color clear Odor —

Description of sediments or material in sample: light, fine

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-9	2	1	—	HCl	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler T.L.

Well Number B-10 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description W. Side of Broadway Well Depth (spec.) 19

Depth to Water (static) 10.30 Well Depth (sounded) ____

Initial height of water in casing 8.7 Volume 1.41 gallons

Volume to be purged 4.25 gallons

Purged With Pump Sampled With Disp 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
(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
1117	1119	1	1	~~7.9~~ 8.3	56.9	~~~830~~ 790	
	1120	2	3	~~7.9~~ 8.1	59.3	~~~810~~ 790	
	1121	2	5	8.2	61.4	750	

SAMPLES COLLECTED Time 1130 Total volume purged (gal.) (5)

Water color clear Odor ____

Description of sediments or material in sample: mod. TAN

Additional Comments: ____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-10	2	1	—	HCl	Y	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 ____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler T.L

Well Number B-11 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description N side 27th St. Area Grab Sample Well Depth (spec.) 19

Depth to Water (static) 9.09 Well Depth (sounded) _____

Initial height of water in casing 9.91 Volume 1.61 gallons

Volume to be purged = 4.84 gallons

Purged With Pump Sampled With Disp 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
1033	1034	1	1	7.5	63.9	380	
	1035	2	3	7.5	64.2	390	
	1037	2	5	7.6	64.1	410	

SAMPLES COLLECTED Time 1045 Total volume purged (gal.) (5)

Water color clear Odor _____

Description of sediments or material in sample: Heavy, Brown

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
~~HA~~B-11	2	1	—	HCl	Y	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 _____

SIERRA

WATER SAMPLING DATA

Job Name 2630 Broadway OAC Job Number 1-364-04 Sampler T.L

Well Number B-12 Date 12/28/94 Well Diameter 2"

Sample Point Location/Description NW side 27th st., Across from site Well Depth (spec.) 18

Depth to Water (static) 2.76 Well Depth (sounded) _____

Initial height of water in casing 15.24 Volume 2.48 gallons

Volume to be purged 7.45 gallons Sampled With Disp Bailer

Purged With Pump

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 (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1011	1013	3	3	8.3	59.0	510	
	1014	2.5	5.5	7.9	60.4	490	
	1016	2.5	8	7.8	60.2	510	

SAMPLES COLLECTED Time 1020 Total volume purged (gal.) (8)

Water color Clear Odor ____

Description of sediments or material in sample: light, TAN

Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
B-12	2	1	—	HCl	Y	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 _____

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 80561

Chain-of-Custody-Record

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

Chevron Facility Number: 9-2506
Facility Address: 2630 Broadway, OAKLAND
Consultant Project Number: 1-364-04
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): Mark Miller
(Phone): 842-8134
Laboratory Name: SPA
Laboratory Release Number: 8842480
Samples Collected by (Name): Tim Lewis
Collection Date: 12/28/94
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)	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 (ICP or AA)						Remarks
								Analyses To Be Performed													
TB/LB		2	W	G	—	HCl	Y	X													Analyze if Shown
B-12		2	W	G	1020	HCl	Y	X													
B-11		2	W	G	1045	HCl	Y	X													
B-10		2	W	G	1130	HCl	Y	X													
B-8		2	W	G	1210	NONE	Y	X			X DO HCl DUE										
B-7		2	W	G	1228	NONE	Y	X			TO Effervescence										
B-9		2	W	G	1300	HCl	Y	X			Please initial: VH										
B-5		2	W	G	1322	NONE	Y	X			Samples Stored in ice yes 3.5°C										
B-4		2	W	G	1342	HCl	Y	X			Appropriate containers yes										
B-1		2	W	G	1405	HCl	Y	X			Samples preserved yes										
B-2		2	W	G	1422	NONE	Y	X			VOA's without headspace None										
B-3		2	W	G	1442	NONE	Y	X			Comments:										
B-6		2	W	G	1458	NONE	Y	X													

Note:
Do Not Bill
TB-LB Samples

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	SEC	12/28 1650			
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
			Val Ybarra		12/28/94 4:54pm

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

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
P.O. Box 2546
Martinez, CA 94553

Date: January 5, 1995

Attn: ED MORALES

Laboratory Number : 80361 Project Number/Name : 1-364-04

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

1/11/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

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

Sierra Environmental
Attn: ED MORALES

Project 1-364-04
Reported on January 5, 1995

TOTAL PETROLEUM HYDROCARBONS

LAB #	Sample ID	Sampled	Analyzed	Matrix
80361-01	TB-LB	12/28/94	01/03/95	Water
80361-02	B-12	12/28/94	01/03/95	Water
80361-03	B-11	12/28/94	01/04/95	Water
80361-04	B-10	12/28/94	01/03/95	Water
80361-05	B-8	12/28/94	01/03/95	Water
80361-06	B-7	12/28/94	01/03/95	Water
80361-07	B-9	12/28/94	01/03/95	Water
80361-08	B-5	12/28/94	01/04/95	Water
80361-09	B-4	12/28/94	01/04/95	Water
80361-10	B-1	12/28/94	01/04/95	Water

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

Laboratory Number:	80361-01	80361-02	80361-03	80361-04	80361-05
Gasoline_Range	ND<50	74	ND<50	ND<50	ND<50
Benzene	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5
Toluene	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5
Total Xylenes	ND<0.5	4.4	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	80361-06	80361-07	80361-08	80361-09	80361-10
Gasoline_Range	520	2400	94000	17000	1200
Benzene	17	290	4600	400	200
Toluene	4.8	8.4	10000	4000	32
Ethyl Benzene	2.5	90	4400	630	37
Total Xylenes	2.1	36	19000	2900	79
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

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Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
Attn: ED MORALES

Project 1-364-04
Reported on January 5, 1995

TOTAL PETROLEUM HYDROCARBONS

LAB #	Sample ID	Sampled	Analyzed	Matrix
80361-11	B-2	12/28/94	01/03/95	Water
80361-12	B-3	12/28/94	01/04/95	Water
80361-13	B-6	12/28/94	01/03/95	Water

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

Laboratory Number:	80361-11	80361-12	80361-13
Gasoline_Range	2600	4100	350
Benzene	63	650	110
Toluene	49	34	4.4
Ethyl Benzene	56	320	3.7
Total Xylenes	370	440	14
Concentration:	ug/L	ug/L	ug/L

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

TOTAL PETROLEUM HYDROCARBONS

QA/QC Information
Laboratory Number: 80361

NA - Analysis NOT required
ND - Not Detected above quantitation limit

Matrix: Water

Analyte	Spike Recovery	RPD	Control Limits
Gasoline_Range	84/82	2	65-135
Benzene	89/86	3	65-135
Toluene	98/93	5	65-135
Ethyl Benzene	99/95	4	65-135
Total Xylenes	103/97	6	65-135
Gasoline_Range	139/108	25	65-135
Benzene	245/215	13	65-135
Toluene	135/130	4	65-135
Ethyl Benzene	180/170	6	65-135
Total Xylenes	157/152	3	65-135

Senior Chemist
Account Manager

Certified Laboratories

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