

Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

April 7, 1992

511D 467

92 APR 10 PU 1. 20

Mr. Edgar Howell Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station #9-1026

3701 Broadway, Oakland

Dear Mr. Howell:

Enclosed we are forwarding the Quarterly Ground Monitoring Report dated February 28, 1992, prepared by our consultant Weiss Associates for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene concentrations ranged from non-detectable to 34,000 ppb. Depth to ground water was measured at approximately 12.6 to 18.6-feet below grade, and the direction of flow is to the south-southwest.

94611

The deepening of existing monitor wells F and B-1 has been held up while necessary documents are compiled per the City of Oakland encroachment permit requirements. The cities encroachment permit requirements state that encroachment permits can only be issued to owners or tenants of properties from which encroachment is requested. However, the city will issue a permit if Chevron formally notifies the property owner of their intent to perform said work, assuming full responsibility, and secure written acknowledgement for Chevron to perform this additional work. I am still pending their signing this authorization for Chevron. In addition, we plan to install an additional off-site well to obtain down-gradient delineation based on the fluctuating ground water flow direction from the southwest to the south.

Our consultant, Weiss Associates has performed a soil vapor extraction pilot test to assess the feasibility and effectiveness of this technology at the referenced site. Informal data from this test suggests that soil vapor extraction will not be effective at this site based on a relatively large vaccum required to induce small flow rates. This indicates that the subsurface soil permeabilities in the site's unsaturated zone are very low. A report documenting the results of the test is currently being prepared and will be forwarded to you. We will continue to evaluate remedial options at this site.

I would like to schedule a meeting with the appropriate Hazardous Materials Specialist responsible for this site (formerly Gil Wistar) to review the site data and discuss appropriate site specific corrective actions. Please have the appropriate Hazardous Materials Specialist contact me to schedule this meeting. We do not feel at this time that ground water remediation is an appropriate corrective action for this site. This is based on up-gradient sources for hydrocarbons in ground water are known from ground water analytical data. The detected presence of hydrocarbon concentrations in ground water monitor wells located up-gradient of the site makes the presence of up-gradient sources likely. Implementing remedial measures to address the contamination present in the ground water beneath the referenced site will not address the impacts from the up-gradient sources as it is undetermined what extent has migrated beneath our site.

Page 2 April 7, 1992 #9-1026 - Oakland

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours, CHEVRON U.S.A. PRODUCTS COMPANY

Nancy Vykelich

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area Ms. Sandra Lindsey, GTI-Concord Ms. B.C. Owen File (9-1026Q3)

Mr. W. Bruce Bercovich Kay & Merkel 100 The Embarcadero, 3rd Floor San Francisco, CA 94105

144 5 92 T.L.H.

5500 Shellmound Street, Emeryville. CA 94608-2411

Fax: 510-547-5043 Phone: 510-547-5420

February 28, 1992

Nancy Vukelich Chevron U.S.A., Inc. P.O. Box 5004 San Ramon, CA 94583-0804

Re: First Quarter 1992
Ground Water Monitoring Report
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California
WA Job #4-418-91

Dear Ms. Vukelich:

As you requested, Weiss Associates (WA) is providing this Ground Water Monitoring Report for the site referenced above (Figure 1). WA sampled the ground water monitoring wells (Figure 2) on February 13, 1992, in accordance with the requirements and procedures of the California Regional Water Quality Control Board - San Francisco Bay Region and local regulatory agencies.

SAMPLING PROCEDURES

Prior to purging and sampling the wells, WA measured the depth to ground water in each well to the nearest 0.01 ft using an electronic sounder (Table 1). We also checked the wells for floating hydrocarbons or sheen. A hydrocarbon sheen was observed on the surface of purge water from wells B-1, B-2 and B-3.

WA collected ground water samples for analysis after purging at least 3 well-casing volumes of ground water from each well. Each sample was decanted from either a steam-cleaned or dedicated bailer into the appropriate clean sample containers and delivered to a California-certified laboratory following proper sample preservation and chain-of-custody procedures. Purged ground water was removed from the site and transported to the Chevron Richmond terminal for recycling.

Nancy Vukelich February 28, 1992 2



MONITORING AND ANALYTIC RESULTS

The top-of-casing elevation, depth to ground water and the ground water elevation for each well is presented in Table 1. The ground water elevation contours and ground water flow direction are shown on Figure 2.

Current and historical ground water analytic results are summarized in Table 2. The water sample collection records and the analytic report and chain-of-custody forms are included as Attachments A and B, respectively. Last quarter WA reported that ground water from well B-1 contained elevated hydrocarbon concentrations. Based on the results of the sampling conducted before and after last quarter, it now appears that the results were overreported by a factor of ten. This may have occurred in the laboratory if the dilution factor was recorded higher than the dilution factor used in the analysis.

PROPOSED WORK SCHEDULE

The Second Quarter 1992 ground water sampling is scheduled for May 7, 1992. We will submit a report presenting the field and analytic data by June 1992.

We appreciate this opportunity to provide hydrogeologic consulting services to Chevron USA and trust that this submittal meets your needs. Please call if you have any questions regarding this report.

Sincerely,

Weiss Associates

David C. Elias Staff Geologist

James W. Carmody, C.E.C

Senior Hydrogeologist

DCE/JWC:cr

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Attachments A - Water Sample Collection Records

B - Analytic Report and Chain-of-Custody Forms

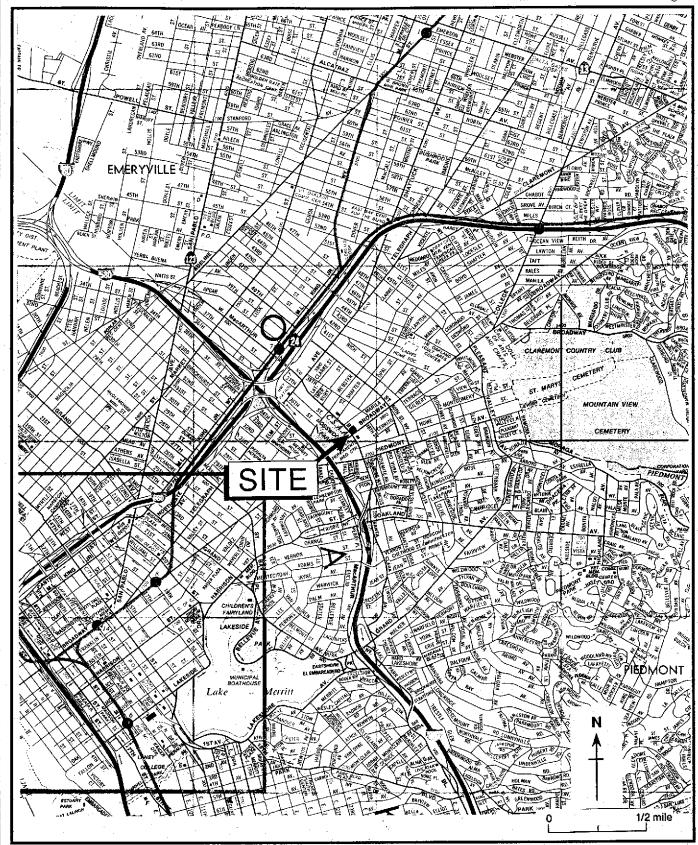


Figure 1. Site Location Map - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

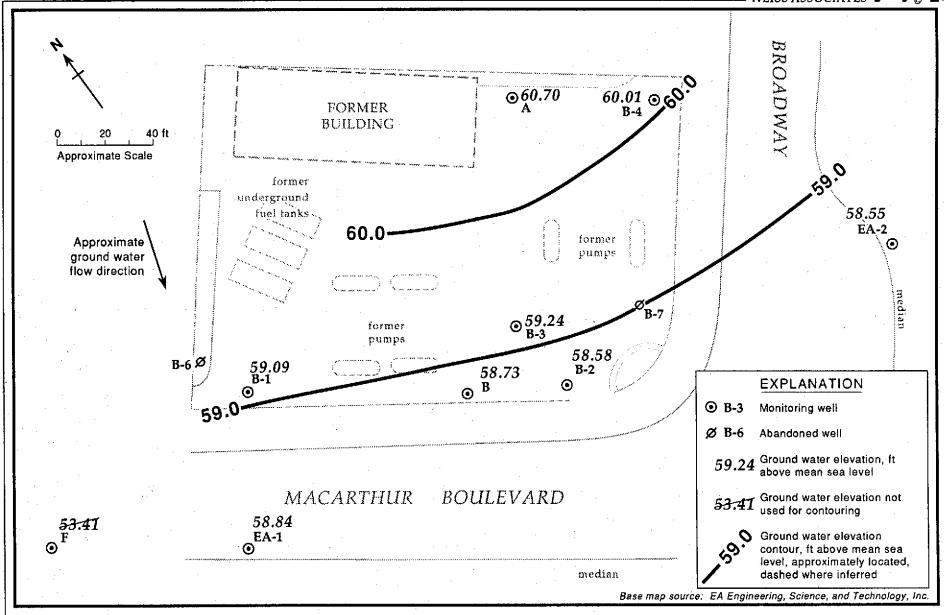


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - February 13, 1992 - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
A	05/10/89	75.28ª	13,92		61.36
	08/09/89	7.4.4	15.62		59.66
	11/09/89		15.95		59.33
	02/08/90		14.73		60.55
	05/10/90		15.48		59.80
	08/09/90		15.66		59.62
	11/13/90		16.48		58.80
•	04/05/91		13.22		62.06
	06/19/91	•	15.37		59.91
	08/21/91		15.99	•	59.29
	11/08/91	•	16.15	•	59.13
	02/13/92		14.58		60.70
В	05/10/89	73.39ª	13.97	0.20	59.58 ^b
	08/09/89		15.69	0.20	57.86 ^b
	11/09/89		15.29	0.08	58.16 ^b
	02/08/90		14.46		58.93
	05/10/90		15.07		58.32
	08/09/90		15.12		58.27
	11/13/90		15.76		57.63
	04/05/91	•	13.38		60.01
	06/19/91		15.14		58.25
	08/21/91		15.58		57.81
	11/08/91		15.71		57.68
	02/13/92		14.66		58.73
B-1	05/10/89	71.77ª	12.58	•	59.19
	08/09/89		14.09	· ·	57.68
	11/09/89		14.06	. *	57.71
	02/08/90		12.65	e e	59.12
	05/10/90		13.62		58.15
	08/09/90	4	13.87		57,90
	11/13/90	•	14.38		57.39
	04/05/91	•	11.73		60.04
	06/19/91		13.56	· ·	58.21
	08/21/91		13.90		57.87
	11/08/91		14.05		57.72
	02/13/92	•	12.68		59.09

⁻⁻ Table 1 continues on next page --

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
B-2	05/10/89	74.51ª	14.58		59.93
	08/09/89		16.06		58.45
	11/09/89		16.95		57.56
	02/08/90		15.56		58.95
	05/10/90	· .	15.94	÷	58.57
	08/09/90		15.97		58.54
•	11/13/90		16.70		57.81
	04/05/91		14.20		60.31
	06/19/91	•	15.83	•	58.68
	08/21/91		16.31		58.20
	11/08/91	•	16.60		57.91
	02/13/92		15.93		58.58
B-3	05/10/89	74.12ª	14.02		60.01
	08/09/89		15.38		58.74
	11/09/89	•	15.55	0.05	58.61 ^b
	02/08/90	, ·	14.68	< 0.01	59.44 ^b
	05/10/90		15.15	0.02	58.99 ^b
	08/09/90		15.27	< 0.01	58.85 ^b
	11/13/90		16.04	0.06	58.13 ^b
	04/05/91		13.30	<0.01	60.82 ^b
	06/19/91		15.16	•	58.96
	08/21/91		15.61		58.51
-	11/08/91		15.77		58.35
	02/13/92	•	14.88		59.24
B-4	05/10/89	76.43ª	14.93		61.50
	08/09/89	of the second se	16.65		59.78
	11/09/89		16.99		59.44
	02/08/90		16.05		60.38
	05/10/90		16.49		59.94
	08/09/90		16.64		59.79
-	11/13/90		17.42	•	59.01
	04/05/91	•	14.66		61.77
	06/19/91		16.48		59.95
	08/21/91		17.00		59.43
-	11/08/91		17.38		59.05
	02/13/92		16.42		60.01

⁻⁻ Table 1 continues on next page --

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)
B-6	05/10/89	72.66ª	12.11		60.55
	08/09/89		14.72	*	57.94
*	11/09/89		13.85		58.81
	02/08/90		7.73		64.93
	05/10/90	· · · · · · · · · · · · · · · · · · ·	c		5,000
	08/09/90		14,51		58.15
	11/13/90	.*	14.86		57.80
٠.	04/05/91		10.43		62.23
	06/19/91°				
B-7	05/10/89	75.40°	14.73		60.67
	08/09/89		16.36		59.04
	11/09/89		16.64		58.76
	02/08/90		15.69		59.71
	05/10/90		. с	•	
	08/09/90		16.31	•	59.09
	11/13/90		17.09		58.31
	04/05/91		14.36		61.04
	06/19/91°			*	
T 4 1	05 (10 (00	72.043			
EA-I	05/10/89	73.94ª	14.56		59.38
	08/09/89		16.09		57.85
	11/09/89		15.84		58.10
	02/08/90		15.05		58.89
	05/10/90	•	15.65	•	58.29
	08/09/90		15.67		58.27
	11/13/90 04/05/91		16.32	1	57.62
			14.03		59.91
	06/19/91	*	15.56		58.38
	08/21/91 11/08/91		15.99	•	57.95
			16.13		57.81
	02/13/92		15.10		58.84
EA-2	05/10/89	75.24ª	15.95	e e e e e e e e e e e e e e e e e e e	59.29
157X 2	08/09/89	13.24	17.45		57.79
	11/09/89		17.41		57.83
	02/08/90		16.57		58.67
	05/10/90	•	17.12		58.12
	08/09/90		17.20		58.04
	11/13/90		17.88		57.36
	04/05/91		15.54		59.70
	06/19/91		17.07		58.17
	08/21/91		17.46		57.78
	11/08/91		17.58	•	57.66
	02/13/92		16.69		58.55

⁻⁻ Table 1 continues on next page --

TABLE 1. Ground Water Elevation Data, Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Thickness of Floating Hydrocarbons in Well (ft)	Ground Water Elevation (ft above msl)	
F	05/10/89	72.01ª	18.70		53.31	
	08/09/89		19.03		52.98	
	11/09/89		19.02		52.99	
	02/08/90		18.70		53.31	
* •	05/10/90		18.98		53.03	
	08/09/90		18.95	i e	53.06	
	11/13/90		19.10		52.91	
	04/05/91		d			
	06/19/91		18.95		53.06	
	08/21/91		>19.94	•	<52.07	
	11/08/91		>19.94		<52.07	
	02/13/92		18.60		53.41	

a = Top-of-Casing surveyed on 02/08/90

b = Ground water elevation adjusted for floating hydrocarbons in the well by the relation: Corrected ground water elevation = top-of-casing - depth to water + (0.8 x hydrocarbon thickness)

c = Well abandoned in May 1991.

d = Water level not recorded

10		Water	Analytical	TPH-G	8	E	T	X
	Sampled	(ft)	Lab	Constitution.	····parts	per billion ()	4g/L)	********
	05-09-89	13.92	SPA	11,000	260	94	<2	230
- 22	08-09-89	15.62	SPA	12,000	370	100	<1.5	240
	11-09-89	15.95	SPA	16,000	690	180	10	350
	02-08-90	14.73	GTEL	14,000	600	120	7	270
	05-10-90	15.48	GTEL	16,000	840	140	4.8	340
	08-09-90	15.66	GTEL	17,000	510	170	40.0	280
	11-13-90	16.48	CEC	9,000	570	86	3.1	170
	03-27-91	13.22			660	110		250
	06-19-91		SPA	8,000			<5	280
		15.37	SPA	8,900	740	120	<3	
	08-21-91	15.99	CEC	6,800	620	85	23	200
	11-08-91	16.15	SPA	4,000	640	77	<5	160
	02-13-92	14.58	SPA	8,000	860	120	<5	390
	05-09-89 ^a	13.97	All the same of th	****	1.	164		
	08-09-89 a	15.69	***	***	***	***	V 1	244
	11-09-89 a	15.29	***	***	***	***		
	02-08-90 b	14.46	444	***		246	•••	244
	05-10-90 C	15.07	***	++4	200		***	100
	08-09-90 a	15.12						
	11-13-90 d	15.76	***	944	***	***	***	200
	03-27-91 d	13.38		***		***	***	***
	06-19-91	15.14	SPA	26,000	7,100	430	370	1,000
	08-21-91	15.58	CEC	16,000	4,900	390	270	640
	11-08-91	15.71	SPA	11,000	2,400	280	48	160
	02-13-92	14.66	SPA	6,800	2,400	220	60	140
	02-13-92	14.00	ara	0,000	2,400	220	00	140
-1	05-10-89	12.58	SPA	16,000	2,300	81	260	740
	08-09-89	14.09	SPA	12,000	2,600	100	340	870
	11-09-89	14.06	SPA	17,000	340	110	140	760
	02-08-90	12.65	GTEL	5,500	70	17	19	150
	05-10-90	13.62	GTEL	18,000	770	73	110	600
	08-09-90	13.87	GTEL	82,000	750	95	66	980
	11-13-90	14.38	CEC	43,000	1,300	74	120	760
	03-27-91	11.73	SPA	18,000	580	94	92	770
	06-19-91	13.56	SPA	21,000	910	96	56	810
	08-21-91 ^e	13.90	CEC	50,000	2,400	300	610	1,800
	11-08-91 ^f	14.05	SPAMOTO	540 000 #7	3,600	1,900	1,500	5,900
	02-13-92	12.68	SPA	20,000	500	150	100	920

⁻⁻ Table 2 continues on next page --

Weil ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G	8 parts	E per billion (τ (μg/L)	x
0.3	05 00 00	4/ 50	004	470 000	- 1 - 1 V			42 000
B-2	05-09-89	14.58	SPA	170,000	30,000	2,300	8,400	12,000
	08-10-89	16.06	SPA	60,000	29,000	2,400	8,700	12,000
	11-09-89	16.95	SPA	110,000	32,000	2,800	5,500	12,000
	02-08-90	15.56	GTEL	67,000	28,000	2,300	5,900	11,000
	05-10-90	15.94	GTEL	69,000	24,000	2,000	4,800	11,000
	08-09-90	15.97	GTEL	100,000	33,000	2,100	4,000	12,000
	11-13-90	16.70	CEC	110,000	33,000	2,900	4,300	13,000
	03-27-91	14.20	SPA	160,000	26,000	2,600	3,200	15,000
	06-19-91	15.83	SPA	100,000	22,000	2,000	2,500	11,000
	08-21-91	16.31	CEC	80,000	28,000	2,400	2,800	12,000
	11-08-91	16.60	SPA	94,000	29,000	2,200	1,900	11,000
	02-13-92	15.93	SPA	280,000	34,000	4,600	2,500	23,000
B-3	05-10-89	14.02	SPA	70,000	12,000	1,400	9,500	8,900
	08-09-89 a	15.38	200 200	555	***	***	100	
	11-09-89	15.55	***		***	***	***	***
	02-08-90 a	14.68	222	***		4.64	1955	***
	05-10-90 °	15.15	400	***	440 /	***	644	***
	08-09-90 °	15.27	***	200	1646	225	1000	200
	11-13-90 a	16.04	The second second		200	122		***
	03-27-91 ^a	13.30	***	***	100	0.00	***	***
	06-19-91	15.16	SPA	260,000	20,000	2,200	9,000	16,000
	08-21-91	15.61	CEC	70,000	28,000	1,800	11,000	11,000
	11-08-91	15.77	SPA	150,000	29,000	2,200	9,700	13,000
	02-13-92	14.88	SPA	100,000	27,000	2,000	9,906	11,000
B-4	05-10-89	14.93	SPA	3,600	840	120	34	200
	08-09-89	16.65	SPA	<500	4,200	370	130	260
	08-09-89 (dup)	16.65	SPA	5,000	4,200	400	83	250
	11-09-89	16.99	SPA	14,000	6,000	530	70	300
	02-08-90	16.05	GTEL	12,000	5,400	460	130	320
	05-10-90	16.49	GTEL	16,000	7,400	530	120	350
	08-09-90	16.64	GTEL	21,000	7,000	550	100	320
	11-13-90	17.42	CEC	17,000	8,500	500	120	300
	03-27-91	14.66	SPA	14,000	7,700	610	75	210
	06-19-91	16.48	SPA	16,000	7,800	550	110	340
	08-21-91	17.00	CEC	18,000	11,000	450	110	340
	11-08-91	17.38	SPA	18,000	6,800	500	98	620
	02-13-92	16_42	SPA	15,000	9 100	570	86	350
							THE RESERVE	
B-6	05-09-89	12.11	SPA	26,000	120	250	110	1,300
Legita	08-09-89	14.72	SPA	19,000	470	440	150	1,400
10	11-09-89	13.85	SPA	13,000	70	36	36	440
	02-08-90 05-10-00 ^C	7.73	GTEL	2,900	16	10	5	58
	03-10-90		200		1000	222	000	
	08-09-90	14.51	GTEL	14,000	55	130	3	500
	11-13-90 d	14.86	***		***			
	03-27-91 ^d 06-19-91 ^g	10.43	***	***	***	***	222	
	U6-19-91 3	775	****			444	994	2.4.4

⁻⁻ Table 2 continues on next page --

		Depth-to				TRU A			•	v
Well ID	Date Sampled	Water (ft)	: 	Analytical Lab		TPH-G	B parts	E per billion	(μg/L)	X >
8-7	05-10-89	14.73		SPA		210,000	13,000	2,000	19,000	20,000
	08-09-89	16.36		SPA		672,000	8,700	2,700	17,000	30,000
	11-09-89	16.64		SPA		150,000	7,000	1,800	12,000	16,000
	02-08-90	15.69		GTEL		41,000	2,500	1,100	6,900	11,000
	05-10-90 C	13.07				41,500				
	08-09-90	16.31		GTEL		50,000	1,100	640	3,900	7,200
	11-13-90 d	17.09								
	03-27-91 d	14.36								
	06-19-91 ^g							•••		
EA-1	05-09-89	14.56		SPA		<500	<0.5	<0.5	<0.5	<0.5
	08-09-89	16.09		SPA		<500	<0.5	<0.5	<0.5	<0.5
	11-09-89	15.84	-	SPA		<500	<0.5	<0.5	<0.5	<0.5
	02-08-90	15.05		GTEL		<50	<0.3	<0.3	<0.3	<0.6
	05-10-90	15.65		GTEL		<50	1	<0.3	<0.3	<0.6
	08-09-90	15.67		GTEL		< 5 0	<0.3	<0.3	<0.3	<0.6
	11-13-90	16.32		CEC		<50	<0.4	<0.3	<0.3	<0.4
	03-27-91	14.03		SPA		<50	0.7	<0.5	<0.5	<0.5
	06-19-91	15.56		SPA		<50	<0.5	<0.5	<0.5	<0.5
	08-21-91	15.99		CEC		<50	<0.4	<0.3	<0.3	<0.4
	11-08-91	16.13		SPA	-	<50	<0.5	<0.5	<0.5	<0.5
	02-13-92	15.10		SPA		<50	<0.5	<0.5	<0.5	<0.5
EA-2	05-09-89	15.95		SPA		760	<0.5	1.1	<0.5	<0.5
	08-09-89	17.45		SPA		<500	<0.5	<0.5	<0.5	<0.5
	11-09-89	17.41		SPA		<500	<0.5	<0.5	1	<0.5
	02-08-90	16.57		GTEL		190	<0.3	<0.3	<0.3	<0.6
	05-10-90	17.12	•	GTEL		<50	<0.3	<0.3	<0.3	<0.6
	08-09-90	17.20		GTEL		120	<0.3	<0.3	<0.3	<0.6
	11-13-90	17.88		CEC		160	<0.4	<0.3	1.0	<0.4
	03-27-91	15.54		SPA		110	<0.5	<0.5	<0.5	<0.5
	06-19-91	17.07		SPA		<50	<0.5	<0.5	<0.5	<0.5
	08-21-91	17.46		CEC		70	0.8	<0.3	1.4	<0.4
	11-08-91	17.58		SPA		<50	<0.5	<0.5	0.7	<0.5
	02-13-92	16.69		SPA	•	<50	<0.5	5<0.5	<0.5	<0.5
F	05-09-89	18.70		SPA		<500	<0.5	<0.5	0.6	1.0
	na-no-ao ^{.h}	19.03						•••		
	11-09-89 h	19.02								
	02-08-90 .	18.70		GTEL		<50	0.4	<0.3	0.3	<0.6
•	05-10-90 ⁿ	18.98	,					• •••	•••	
	08-09-90 ^B	18.95								
	11-13-90 h	19.10			-					
	03-27-91			SPA		64	<0.5	<0.5	<0.5	1
	06-19-91 ⁿ	18.95		• • •						
	08-21-91 h	>19.94							, 4 - -	
	11-08-91	>19.94					1			
- /	02-13-92	18.60		SPA		<50	<0.5	<0.5	<0.5	<0.5

TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

⁻⁻ Table 2 continues on next page --

TABLE 2. Analytic Results for Ground Water - Former Chevron Service Station #9-1026, 3701 Broadway, Oakland, California (continued)

Well ID	Date Sampled	Depth-to Water (ft)	Analytical Lab	TPH-G <	B parts p	Ε er billion (μg/	T (L)	X
•	05 -10-89		CD4	<500	<0.5	<0.5	<0.5	<0.5
Travel	08-09-89		SPA	<500	<0.5	<0.5	<0.5	<0.5
Blank	11-09-89		SPA SPA	<500 <500	<0.5	<0.5	<0.5	<0.5
	02-08-90	•		<50	<0.3	<0.3	<0.3	<0.6
	05-10-90		GTEL	<50 <50	<0.3	<0.3	<0.3	<0.6
	08-09-90		GTEL	<50	<0.3	<0.3	<0.3	<0.6
			GTEL		<0.4	<0.3	<0.3	<0.4
	11-13-90		CEC	<50				
	03-27-91		SPA	<50 	<0.5	<0.5	<0.5	<0.5
	06-19-91	•	SPA	<50	<0.5	<0.5	<0.5	<0.5
	08-21-91		CEC	<50	<0.4	<0.3	<0.3	<0.4
	11-08-91		SPA	<50	<0.5	<0.5	<0.5	<0.5
	02-13-92		SPA	<50	<0.5	<0.5	<0.5	<0.5
Bailer	05-10-89		SPA	<500	<0.5	<0.5	<0.5	<0.5
Blank	02-08-90		GTEL	<50	< 0.3	<0.3	0.3	<0.6
	03-27-91	•	SPÁ	<50	<0.5	<0.5	<0.5	0.6
	11-08-91		SPA	<50	<0.5	<0.5	<0.5	<0.5
DHS MCI	_\$		• :	NE	1	680	100 ¹	1,750

Abbreviations:

TPH-G = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 8020

dup = Duplicate analysis

< n =Not detected at detection limit of n parts per billion

DHS MCLs = Department of Health Services Maximum Contaminant Level for Drinking Water

NE = Not established by DHS

Notes:

 $\frac{a}{L}$ = Not sampled due to presence of floating hydrocarbons

b = Not sampled due to large volume of evacuation water necessary

C = Not sampled because screened interval of well needs to be assessed

d = Well was not sampled due to poor surface water seals

e = A groundwater sample was analyzed for Priority Pollutant Metals; concentrations were below detection limits.

= Probable over reporting error by a factor of ten

g = Well abandoned in May 1991

h = Not sampled because of insufficient water in the well

= DHS Recommended Action Level for Drinking Water, MCL not established

Analytical Laboratory:

GTEL = GTEL Environmental Laboratories, Inc. of Concord, California

SPA = Superior Precision Analytical of San Francisco and
Martinez, California

CEC = Clayton Environmental Consultants of Pleasanton, California

ATTACHMENT A WATER SAMPLE COLLECTION RECORDS



WATER SAMPLING DATA
Well Name A Date 2/13/92 Time of Sampling 12:45
Job Name CHEV. OAKLANDII Job Number 4-4/8-91 Initials PC
Sample Point Description (M = Monitoring Well)
Location E EDGE OF SITE
WELL DATA: Depth to Water 14.58 ft (static, pumping) Depth to Product [1.
Product Thickness Well Depth 20.08 ft (spec) Well Depth ft(sounded) Well Diameter Z in
Initial Height of Water in Casing 5.5 ft. = volume 90 gal.
. 3 Casing Volumes to be Evacuated. Total to be evacuated 2.70 gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type TEF. Dedicated Y(Y/N)
Other
Evacuation Time: Stop 11:05 12:38
Start // 235 Formulas/Conversions
 ,
Total Lyacation Time
Total Evacuated Prior to Sampling $\frac{2.75}{}$ gal. $h = ht$ of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/st ³
Depth to Water at Sampling ft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? $\underline{V_{cs}}$ After $\underline{I_{l}.5}$ gal. Time $\underline{I_{l}.05}$ V_{3} casing = 0.367 gal/ft
80% Recovery = 15.68 V_4 casing = 0.653 gal/ft
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/st
V_6 " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
Calibration: 4.0 7.0 10.0
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
incasured.
SAMPLE: Color Clear Odor Strong
Description of matter in sample: Flaky material Odor Strong
Sampling Method: decented from dedicated bailer
Sample Port: Rate gpm Totalizer gal.
Time —
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
of Bampio Cond. for In Ped.
Cont. 13
3 022-A WICV 40ml N Y HCI EPA 8015/8070 N SPA

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container;
3 = Filtered (Y/N);
4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WATER SAMPLING DATA
Well Name B Date 2 13 92 Time of Sampling 10:55
Job Name CHEV. OAKLAND II Job Number 4-418-91 Initials
Sample Point Description (M = Monitoring Well)
Location SW EDGE OF SITE
WELL DATA: Depth to Water 14.66 ft (Static, pumping) Depth to Product ft.
Product Thickness Well Depth 34.5 ft (spec) Well Depth ft(sounded) Well Diameter 4 in
Initial Height of Water in Casing 19.84 ft. = volume 12.46 gal.
Casing Volumes to be Evacuated. Total to be evacuated 38.88 gal.
EVACUATION METHOD: Pump # and type broided Hose # and type braided
Bailer# and typeWA Teflon \$80 Dedicated N (Y/N)
Other
Evacuation Time: Stop 11251
Start 11:34 Formulas/Conversions
Total Evacation Time 15 r = well radius in ft.
Total Evacuated Prior to Sampling 39 gal. h = ht of water col in ft.
Evacuation Rate $\frac{2}{\lambda}$ gal. per minute vol. in cyl. = $\pi r^2 h$
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V_6 " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number
Calibration: 4.0 7.0 10.0
Measured: SC/μmhos pH / T°C Time Volume Evacuated (gal.)
<u> </u>
SAMPLE: Color Clear Odor Slight
Description of matter in sample: Nove
Sampling Method: Decemted from Weiss Ass. Teffon bailer & RO
Sample Port: Rate gpm Totalizer gal. Time gal.
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Cont. ID Type ¹ (specify) Method
3 012 - B W/CV 40ml N Y HCI EPA 8015/8020 N SPA
3 012 - B WICH 40ml N Y HCI EPP 8015/8000 N SPIT

Sample Type Codes: W = Water, S = Soil, Describe Other
 Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
 Cap Codes: PT = Plastic, Teflon lined;
 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
 ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WATER SAMPLING DATA
Well Name B- Date Time of Sampling 2:16 Job Name CHEV. OAKLAND II Job Number 4-418-91 Initials PC
Job Name CHEV. OAKLAND III Job Number 4-418-91 Initials PC
Sample Point Description (M = Monitoring Well)
Location W. CORNER OF SITE
WELL DATA: Depth to Water 12.68 fx (static pumping) Depth to Product ft
Product Thickness Well Depth 15.2 ft (spec) Well Depth ft(sounded) Well Diameter 2 in
Initial Height of Water in Casing 2.52 ft. = volume gal
Casing Volumes to be Evacuated. Total to be evacuated 1.23 gal
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type wh a grow for Dedicated N KEN/N)
Other sampled with teflor bailer #KK(WA)
Evacuation Time: Stop 10:39 12:10
Start 10: 77 12:09 Formulas/Conversions
Total Evacation Time $3min$ $r = well radius in ft.$
Total Evacuated Prior to Sampling 1.25 gal. h = ht of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/ft ³
Depth to Water at Sampling ft time V_2 " casing = 0.163 gal/ft
Evacuated Dry? // After / Mal. Time /0.39 V_2 casing = 0.367 gal/ft
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V ₆ " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
Calibration: 4.0 7.0 10.0
Measured: SC/μmhos pH / T°C Time Volume Evacuated (gal.)
SAMPLE: Color Light black Odor Strong Description of matter in sample: sit flaky material, Sheen on surface
Description of matter in sample: silt flaky material. Sheen on surface Sampling Method: Decanted from WA tetlon hailer EKK
Sample Port: Rate — gpm Totalizer — gal.
Time
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Coat ID OTypol (checify) Method
3 022-BX W/CV 40ml N Y HCI EPA 8015/8020 N SPA

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container;
3 = Filtered (Y/N);
4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

Well Name $B-2$ Date $2/13/92$ Time of Sampling $130/$
Well Name
Job Name CHEV. OAKLAND III Job Number 4-418-91 Initials A
Sample Point Description (M = Monitoring Well)
Location S. CORNER OF SITE
WELL DATA: Depth to Water 15, 93 ft (static) pumping) Depth to Product ft.
Product Thickness Well Depth 19-0 ft (spec) Well Depth ft(sounded) Well Diameter 2 in
Initial Height of Water in Casing 3.07 ft. = volume 50 gal.
Casing Volumes to be Evacuated. Total to be evacuated gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and typeTEF DedicatedY(Y/N)
Other
Evacuation Time: Stop 114/8 12:51
Start 11:16 12:50 Formulas/Conversions
Total Evacation Time 3min r = well radius in ft.
Total Evacuated Prior to Sampling / gal. h = ht of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = πr ² h
Depth to Water during Evacuation ft time 7.48 gal/ft ³
Depth to Water at Sampling ft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? Yel After / gal. Time V ₃ " casing = 0.367 gal/ft
80% Recovery =
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V ₆ " casing = 1.47 gal/ft
Measured: SC/μmhos pH / T°C Time Volume Evacuated (gal.)
SAMPLE: Color Clear Odor Strong Prescription of matter in complete flather managinal (14 and 15 forms 17) Surfaces
SAMPLE: Color Clear Description of matter in sample: Flatry material Chan Sheen on surface. Sampling Method: Acena tell from dedicated bailer
Description of matter in sample: Flaky material (tan) Sheen on surface. Sampling Method: deen to from dedicated bailer
Sample Port: Rate gpm Totalizer gal. Time
Sample Port: Rate — gpm Totalizer — gal. Time — gal. # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Sample Port: Rate — gpm Totalizer — gal. # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Can Codes: PT = Plastic Teflon lined:

Cap Codes: PT = Plastic, Teflon lined;

2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)

5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]

ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WATER SAMPLING DATA
Well Name $\beta = 3$ Date $2/13/92$ Time of Sampling $12:27$
Job Name CHEV. OAKLAND TI Job Number 4-418-91 Initials PC
Sample Point Description (M = Monitoring Well)
Location S. SIDE OF SITE
WELL DATA: Depth to Water 14.88 ft (static) pumping) Depth to Product ft.
Product Thickness Well Depth 18.9 ft (spec) Well Depth ft(sounded) Well Diameter 2 in
Initial Height of Water in Casine 402 ft. = volume
Casing Volumes to be Evacuated. Total to be evacuated 1.48 gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type disposable Dedicated N (Y/N)
Other
• /——
Star $\frac{20.37}{12.56}$ $\frac{12.56}{12.09}$ Formulas/Conversions Total Evacation Time $\frac{40.0}{12.09}$ $r = \text{well radius in ft.}$
Total Evacation Time
Total Evacuated Prior to Sampling $\frac{2.0}{}$ gal. $h = ht$ of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/ft ³
Depth to Water at Samplingft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? Vs. After 1.5 gal. Time 10:53 V3" casing = 0.367 gal/ft
80% Recovery = V_4 " casing = 0.653 gal/ft
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V_6 " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number/ V8 casing = 2.61 gal/ft
Calibration: 4.0 7.0 10.0
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured.
A A A A A A A A A A A A A A A A A A A
SAMPLE: Color Clear Odor Strong
Description of matter in sample: fine silt, Sheen on surface
Sampling Method: decanted from disposable bailer
Sample Port: Rategpm Totalizergal.
Time —
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Wor dampto Court for the rest and a rest and a
CF-10-37
3 022-B3 W/CV 40ml N Y HC1 EPA 80/5/8020 N SPA

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other

Cap Codes: PT = Plastic, Teflon lined; 2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N) 5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)] ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:



WATER SAMPLING DATA Well Name 8 = 4 Date 2/12/42 Time of Sampling 11:03
Well Name U Date W D P
Job Name CHEV. OAK-LAND III Job Number 4-418-91 Initials 25
Sample Point Description M (M = Monitoring Well)
Location E. CORNER OF SITE
WELL DATA: Depth to Water 1/14/2 ft (static pumping) Depth to Product ft.
Product Thickness Well Depth 1937 ft (spec) Well Depth ft(sounded) Well Diameter 2 in
Initial Height of Water in Casing 2.95 ft. = volume 48 gal.
Casing Volumes to be Evacuated. Total to be evacuated 1.44 gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type 15/3×2' TEF. Dedicated Y (Y/N)
Other
Evacuation Time: Stop [1:02
Start 10:57 Formulas/Conversions
Total Evacation Time $\underline{5m_{in}}$ $r = \text{well radius in ft.}$
Total Evacuated Prior to Sampling $\frac{1}{5}$ gal. $h = ht$ of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/ft ³
V ₆ " casing = 1.47 gal/ft CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
7.0
Calibration: 4.0 7.0 10.0
Calibration: 4.0 7.0 10.0 Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/µmhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong
SAMPLE: Color light brey Description of matter in sample: Fine Grey Sill
SAMPLE: Color light brey Description of matter in sample: Fine Grey Silt Sampling Method: Decanted from dedicated tefloabailer
SAMPLE: Color light brey Description of matter in sample: Fine Grey Silt Sampling Method: Decanted from dedicated tefloabailer
SAMPLE: Color light brey Description of matter in sample: Sampling Method: Sample Port: Rategpm Totalizer gal. Time
SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decontect from dedicated tefton batter Sample Port: Rate gpm Totalizer gal. # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decontect from dedicated tefton batter Sample Port: Rate gpm Totalizer gal. # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
Measured: SC/\(\mu\)mhos pH T°C Time Volume Evacuated (gal.) SAMPLE: Color light brey Odor Strong Description of matter in sample: Fine brey silt Sampling Method: Decouted from dedicated teften bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:



Well Name EA-1 Date 2/13/92 Time of Sampling 10:20
Job Name CHEV. OAKLAND III Job Number 4-418-91 Initials LJ
Sample Point Description (M = Monitoring Well)
Location BY MEDIAN MACARTHUR BLVD.
WELL DATA: Depth to Water 15.1 ft (static) pumping) Depth to Product ft.
Product Thickness Well Depth 30.2 ft (spec) Well Depth ft(sounded) Well Diameter 4 in
Initial Height of Water in Casing 15.1 ft. = volume 9.86 gal.
3 Casing Volumes to be Evacuated. Total to be evacuated 29.58 gal.
EVACUATION METHOD: Pump # and type Granding Hose # and type Braideck
Bailer# and type 3'x4' PVC DedicatedY (Y/N)
Other
Evacuation Time: Stop 0:13
Start 10:05 Formulas/Conversions
Total Evacation Time $\frac{(3m/N)}{}$ $\approx r = \text{well radius in ft.}$
Total Evacuated Prior to Sampling gal. h = ht of water col in ft.
Evacuation Rate 2.31 gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/ft ³
Depth to Water at Sampling ft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? No After gal. Time V ₃ " casing = 0.367 gal/ft
80% Recovery = V_4 " casing = 0.653 gal/ft
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V_6 " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
Calibration: 4.0 7.0 10.0
Managered: SC/umbos of ToC Time Volume Evacuated [22].
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
SAMPLE: Color light brown Odor Moderate
SAMPLE: Color light brown Description of matter in sample: Small amount of fine brown Silt
SAMPLE: Color light brown Description of matter in sample: Small amount of fine brown Silt Sampling Method: Port Sample from dedicated PVC bailer
SAMPLE: Color light brown Odor Mederate Description of matter in sample: Small amount of fine brown Silt Sampling Method: Port Sample from dedicated PVC bailer Sample Port: Rate — gpm Totalizer — gal.
SAMPLE: Color light byown Odor Moderate Description of matter in sample: Small amount of fine brown Sitt Sampling Method: port Sample from dedicated PVC bailer Sample Port: Rate — gpm Totalizer gal. Time —
SAMPLE: Color light brown Odor Medwate Description of matter in sample: Small amount of fine brown Sitt Sampling Method: Port Sample from dedicated PVC bailer Sample Port: Rate — gpm Totalizer — gal. # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
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SAMPLE: Color light brown Odor Medwate Description of matter in sample: Small amount of fine brown Sift Sampling Method: port Sample from dedicated PVC bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
SAMPLE: Color light byown Odor Medwate Description of matter in sample: Small amount of fine byown Sift Sampling Method: Port Sample from dedicated PVC bailer Sample Port: Rate — gpm Totalizer — gal. Time — # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
SAMPLE: Color light brown Odor Medwate Description of matter in sample: Small amount of fine brown Sift Sampling Method: port Sample from dedicated PVC bailer Sample Port: Rate gpm Totalizer gal. Time # of Sample Cont. Vol2 Fil3 Ref4 Preservative Analytic Turn5 LAB Cont. ID Type1 (specify) Method
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Sample Type Codes: W = Water, S = Soil, Describe Other
 Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
 Cap Codes: PT = Plastic, Teflon lined;
 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
 ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:



Well Name EA-2 Date 2/13/92 Time of Sampling 11:46
Job Name CHEV. OAKLAND II Job Number 4-418-91 Initials PC
Sample Point Description (M = Monitoring Well)
Location MEDIAN, BROADWAY
WELL DATA: Depth to Water 16,169 ft (static) pumping) Depth to Product ft.
Product Thickness — Well Depth 30.1 ft (spec) Well Depth ft(sounded) Well Diameter 4 in
Initial Height of Water in Casing 13.41 ft. = volume 8.76 gal.
3 Casing Volumes to be Evacuated. Total to be evacuated 26.28 gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type 3 x 36" PVC Dedicated Y (Y/N)
Other
Evacuation Time: Stop //:4/
Start 11'38 Formulas/Conversions
Start 1000
Total Evacation Time - 3247
• • • • • • • • • • • • • • • • • • • •
Diadation itale
Depth to Water during Evacuation ft. time 7.48 gal/ft ³
Depth to Water at Sampling ft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? No After gal. Time V ₃ " casing = 0.367 gal/ft
80% Recovery = V_4 " casing = 0.653 gal/ft
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V_6 casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/st
Calibration: 4.0 7.0 \(\sum_{\text{loop}} 10.0 \)
Measured: SC/μmhos pH / T°C Time Volume Evacuated (gal.)
SAMPLE: Color Light too Oder None.
SAMPLE: Color Light tan Odor Nonc Description of matter in sample: Finc sitt
Description of matter in sample: Finc silt Sampling Method: Sample port on dedicated bailer
Description of matter in sample: Finc silt Sampling Method: Scaple cost on Acdicated bailer Sample Port: Rategpm Totalizergal.
Description of matter in sample: Finc silt Sampling Method: Sample port on dedicated bailer
Description of matter in sample: Finc silt Sampling Method: Sample port on dedicated bailer Sample Port: Rate gpm Totalizer gal. Time
Description of matter in sample: Finc silt Sampling Method: Sample fort on dedicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Description of matter in sample: Finc silt Sampling Method: Sample Fort on Acdicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
Description of matter in sample: Finc silt Sampling Method: Sample fort on dedicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Description of matter in sample: Finc silt Sampling Method: Sample Fort on Acdicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
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Description of matter in sample: Finc silt Sampling Method: Sample Fort on Acdicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method
Description of matter in sample: Finc silt Sampling Method: Sample Fort on Acdicated bailer Sample Port: Rategpm Totalizergal. Time # of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB Cont. ID Type ¹ (specify) Method

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WATER SAMPLING DATA
Well Name F Date $\frac{13/92}{1}$ Time of Sampling 13:05
Job Name CHEV. OAKLAND IT Job Number 4-418-91 Initials L
Sample Point Description M = Monitoring Well)
Location NEAR MEDIAN, MACARTHUR
WELL DATA: Depth to Water 18,60 ft static pumping) Depth to Product ft.
Product Thickness Well Depth 9.63ft (spec) Well Depth ft(sounded) Well Diameter \(\sum_{in} \)
Initial Height of Water in Casing 1.03 ft. = volume •17 gal.
3 Casing Volumes to be Evacuated. Total to be evacuated51 gal.
EVACUATION METHOD: Pump # and type Hose # and type
Poiler and type Dedicated N (Y/N)
Bailer# and type Dedicated N (Y/N)
Other
Evacuation Time: Stop 10:16
Start _/045 Formulas/Conversions
Total Evacation Time r = well radius in ft.
Total Evacuated Prior to Sampling gal. $h = ht$ of water col in ft.
Evacuation Rate gal. per minute vol. in cyl. = $\pi r^2 h$
Depth to Water during Evacuation ft time 7.48 gal/ft ³
Depth to Water at Sampling ft time V ₂ " casing = 0.163 gal/ft
Evacuated Dry? Vcs. After25 gal. Time
80% Recovery =
% Recovery at Sample Time Time V _{4.5} " casing = 0.826 gal/ft
V ₆ " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/st
OHDIMORIE DIVITE.
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
——————————————————————————————————————
21.1/2
SAMPLE: Color Black Brown Odor Slight
Description of matter in sample: Black/prown particles
Sampling Method: <u>Occanted From WA Teflon bailer</u> Sample Port: Rategpm Totalizergal.
Time Totalizer
5
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Cont. ID Type ¹ (specify) Method
3 -F WICV 40ml N Y HCI EPA 8015/80ZD N SPA
3 -F WICV 40ml N Y HCI EPA 8015/8020 N SPA

Sample Type Codes: W = Water, S = Soil, Describe Other
 Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
 Cap Codes: PT = Plastic, Teflon lined;
 Volume per container; 3 = Filtered (Y/N); 4 = Refrigerated (Y/N)
 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
 ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

WATER SAMPLING DATA
Well Name TRIP BLANKS Date 2/13/92 Time of Sampling 7:40 Job Name CHEV. OAKLAND II Job Number 4-418-91 Initials PC
Sample Point Description (M = Monitoring Well)
Location
WELL DATA: Depth to Waterft (static, pumping) Depth to Productft.
Product Thickness Well Depth ft (spec) Well Depth ft(sounded) Well Diameter in
Initial Height of Water in Casingft. = volumegal.
Casing Volumes to be Evacuated. Total to be evacuated gal.
EVACUATION METHOD: Pump # and type Hose # and type
Bailer# and type DedicatedY/N)
Other
Evacuation Time: Stop
Start
Total Evacation Time
Total Evacuated Prior to Sampling gal. h = ht of water col in ft.
Evacuation Rate gal, per minute vol. in cyl. = $\pi r^2 h$
Depth to Water at Samplingttime V ₂ " casing = 0.163 gal/ft Evacuated Dry? Aftergal. Time V ₃ " casing = 0.367 gal/ft
Evacuated Dry! After gai. Time v ₃ casing = 0.567 gai/t
80% Recovery =
% Recovery at Sample Time V _{4.5} " casing = 0.826 gal/ft
V ₆ " casing = 1.47 gal/ft
CHEMICAL DATA: Meter Brand/Number V8 casing = 2.61 gal/ft
Calibration: 4.0 7.0 10.0
Measured: SC/μmhos pH T°C Time Volume Evacuated (gal.)
SAMPLE: Color Odor
Description of matter in sample:
Sampling Method: gal.
Time
of Sample Cont. Vol ² Fil ³ Ref ⁴ Preservative Analytic Turn ⁵ LAB
Cont. ID Type ¹ (specify) Method
3 022 -21 W/CV 40 N Y HCI EPA 8015/8020 N SPA
3 022 -21 W/CV 40ml N Y HC1 EPA 8015/8020 N SPA
3 022 -21 W/CV 40ml N Y HCL EPA 8015/8020 N SPA
3 022 -21 W/CV 40ml N Y HC1 EPA 8015/8020 N SPA
3 022 -21 W/CV 40ml N Y HCl EPA 8015/8020 N SPA

¹ Sample Type Codes: W = Water, S = Soil, Describe Other
Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B = Clear/Brown Glass, Describe Other
Cap Codes: PT = Plastic, Teflon lined;
2 = Volume per container; 3 = Filtered (Y/N), 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 week, R = 24 hour, HOLD (spell)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

ATTACHMENT B

ANALYTIC REPORT AND CHAIN-OF-CUSTODY FORMS



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

DATE RECEIVED: 02/14/92 LABORATORY NO.: 12808 DATE REPORTED: 02/18/92 CLIENT: Weiss Associates

CLIENT JOB NO.: 4-418-91

Page	1	οf	2

Lab Number 12808- 1 12808- 2 12808- 3 12808- 4 12808- 5 12808- 6 12808- 7 12808- 8 12808- 9 12808-10	Customer 022-A 022-B 022-B1 022-B2 022-B3 022-B4 022-EA1 022-EA2 022-F 022-21	Sample I	dentification	on	Dat Sampl 02/13 02/13 02/13 02/13 02/13 02/13 02/13 02/13	ed /92 /92 /92 /92 /92 /92 /92 /92	Date Analyzed 02/17/92 02/14/92 02/14/92 02/14/92 02/17/92 02/17/92 02/14/92 02/14/92 02/14/92
Laboratory N	umber:	12808	12808	12808	12808	1280 5)8
ANALYTE LIST	1	Amounts	/Quantitati	on Limits	(ug/L)		
OIL AND GREATPH/GASOLINETPH/DIESEL RENZENE: TOLUENE: ETHYL BENZEN XYLENES:	RANGE:	NA 8000 NA 860 ND<5 120 390	NA 6800 NA 2400 60 220 140	NA 20000 NA 500 100 150 920	NA 280000 NA 34000 2500 4600 23000	NA 1000 NA 2700 9900 1100) ())
Laboratory N	umber:	12808 6	12808 7	12808 8	12808 9	1280 10	08
ANALYTE LIST	1	Amounts	/Quantitati	on Limits	(ug/L)		
OIL AND GREATPH/GASOLINETPH/DIESEL FENZENE: TOLUENE: ETHYL BENZEN XYLENES:	E RANGE: RANGE:	NA 15000 NA 9100 86 570 350	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5 ND<0.5	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5	NA ND< NA ND< ND< ND< ND<	0.5 0.5 0.5

Certified Laboratories



1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

OF ANALYSIS CERTIFICATE

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION 12808

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E: Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Water: 50ug/L Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L Standard Reference: 10/12/91

SW-846 Method 8020/BTXE

Minimum Quantitation Limit in Water: 0.5ug/L

Standard Reference: 11/29/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease Diesel Gasoline Benzene Toluene Ethyl Benzene Total Xylene	NA NA 11/29/91 11/29/91 11/29/91 11/29/91 11/29/91	NA NA 200ng 200ng 200ng 200ng 600ng	NA NA 102/102 92/95 93/95 102/103 87/88	NA NA 0 3.2 2.1 1.5 1.1	NA NA 70-114 78-123 77-119 79-122 78-119

Richard Srna, Ph.D.

Duy t Noon (for Laboratory Director



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

MOCK INVOICE

Chevron USA P.O. Box 5004 San Ramon, CA 94583 Date: 02/18/92

Date Rcvd: 02/14/92 Date Rptd: 02/18/92 Our Job #: 12808

Invoice #: 12808

Weiss Associates Job # 4-418-91 Chevron USA Release # 4950430

Facility #: 9-1026

QTY/MATRIX ANALYSIS EXT. PRICE

10 WATER sample(s) for VPH-BTXE @ \$0.00 (NORMAL) 0.00

TOTAL INVOICE 0.00

Please Send Payment To: Superior Analytical Labs P.O. Box 1545 Martinez, CA 94553

TERMS: NET 30

A charge of 1.5% per month may be applied to unpaid balances

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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcool	Type G = Grab C = Composite D = Discrete		Sample Preservation	iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromotics (8020)	Purgeoble Organics S (8240)	anica	Metals Cd,Cr,Pb,Zn,Ni Cd,Cr,Pb,Zn,Ni (ICAP or AA)	ned					Remorks
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Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcool	Type G = Grab C = Composite		Sample Preservation	Iced (Yee or No)	BTEX + TPH GAS (8020 + 8015)	TPH Dicarel (8015)	Oil and Gream (5520)	Purpeable Halocorbons (8010)	Purgeable Aromatics (8020)			Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	ned					1	Remorks
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