5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-450-6000

September 29, 1995

95 PB

Scott O. Seery
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Third Ouarter 1995

Shell Service Station WIC #204-6852-0703 1285 Bancroft Avenue San Leandro, California 94577

WA Job #81-0423-205

Dear Mr. Seery:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

Third Quarter 1995 Activities:

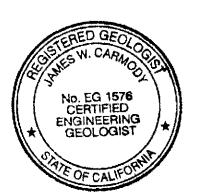
- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2, respectively), contoured ground water elevations and plotted benzene concentrations in ground water (Figure 2).

Anticipated Fourth Quarter 1995 Activities:

 WA will submit a report presenting the results of the fourth quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, contoured ground water elevations and plotted benzene concentrations in ground water.



Please call if you have any questions or comments.



Sincerely, Weiss Associates

Grady S. Glasser Technical Assistant

James W. Carmody, C.E.G. Senior Project Hydrogeologist

Attachments:

A - Ground Water Monitoring Report and Analytic Report

cc:

Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524 Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Oakland, California 94612

GSG/JWC:all

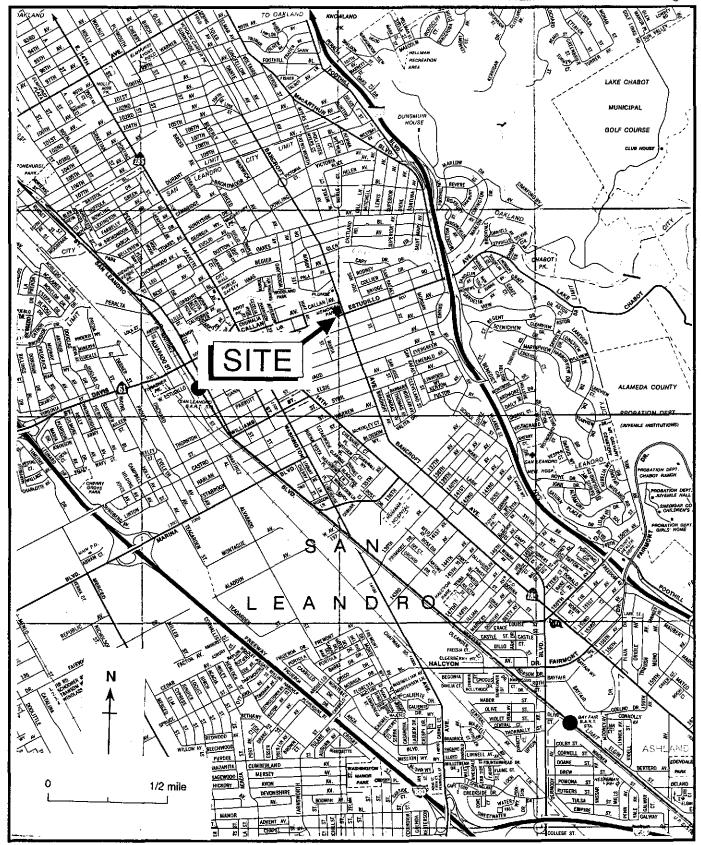


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

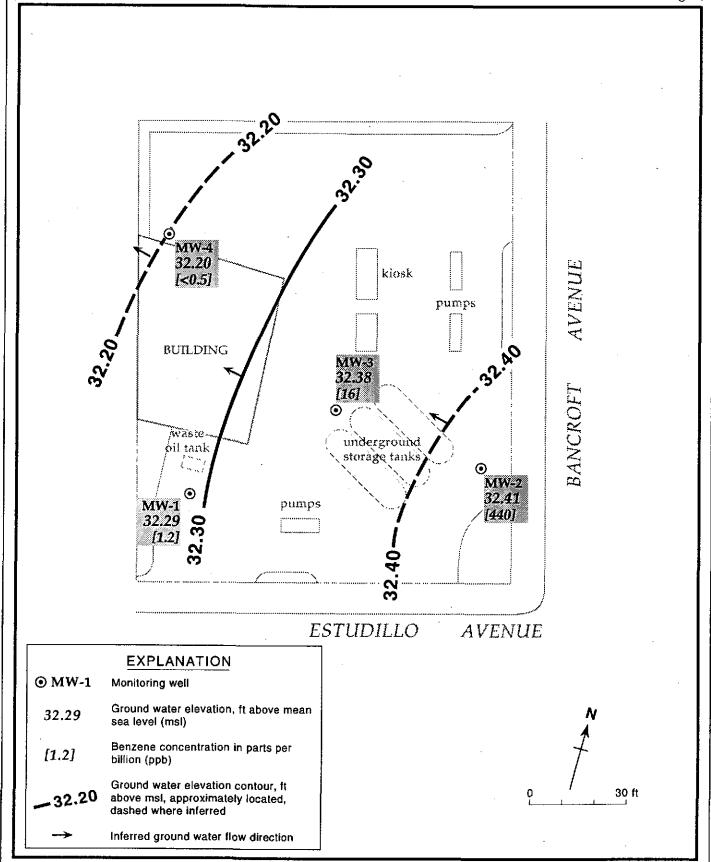


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours and Benzene Concentrations in Ground Water - July 12, 1995 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Table 1. Ground Water Elevations, Shell Service Station WIC #204-6852-0703, 1285
Bancroft Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/13/90	66.29	42.65	23.64
	06/12/90	00.27	43.14	23.15
	09/13/90		44.71	21.58
	12/18/90		45.23	21.06
	03/07/91		43.32	22.97
	06/07/91		42.18	24.11
	09/17/91		44.85	21.44
	03/01/92		41.56	24.73
	06/03/92		40.74	25.55
	09/01/92		43.05	23.24
	12/07/92		44.19	22.10
	03/01/93		34.96	31.33
	06/22/93		36.75	29.54
	09/09/93		39.36	26.93
	12/13/93		40.74	25.55
	03/03/94		38.40	27.89
	07/27/94	66.90 ^a	40.49	26.41
	08/09/94	00.50	40.84	26.06
	10/05/94 ^b		41.98	24.92
	11/11/94		41.34	25.56
	12/29/94		42.06	24.84
	01/04/95		39.90	27.00
	04/14/95		31.02	35.88
	07/12/95	I	34.61	32.29
MW-2	03/01/92	66.91	41.57	25.34
	06/03/92	00.51	40.56	26.35
	09/01/92		4 2.94	23.97
	12/07/92		44.13	22.78
	03/01/93	•	34.82	32.09
	06/22/93		36.64	30.27
	09/09/93		39.24	27.67
	12/13/93	•	40.64	26.27
	03/03/94		38.98	27.93
	07/27/94	66.91 ª	40.40	26.51
	08/09/94	00.71	40.71	26.20
	10/05/94 ^b	•	41.89	25.02
	11/11/94		41.22	25.69
	12/29/94		41.99	24.92
	01/04/95		39.81	27.10
	04/14/95		. 30.83	36.08
	04/14/95 07/12/95	\$54866 KOMONO 1 KOON KUNO 8888 KOMONO KOMONO KOOS	. 30.83 34.50	30.08 32.41

Table 1. Ground Water Elevations, Shell Service Station WIC #204-6852-0703, 1285
Bancroft Avenue, San Leandro, California (continued)

Well		Top-of-Casing Elevation	Depth to Water	Ground Water Elevation
ID	Date	(ft above msl)	(ft)	(ft above msi)
MW-3	03/01/92	66.31	42.00	24.31
	06/03/92		44.30	22.01
	09/01/92		43.62	22.69
	12/07/92	•	44.77	21.54
	03/01/93		35.50	30.81
	06/22/93		37.30	29.01
	09/09/93		39.90	26.41
	12/13/93		41.30	25.01
	03/03/94		38.32	27.99
	07/27/94	67.52 a	41.07	26.45
	08/09/94		41.37	26.15
	10/05/94 ^b		42.55	24.97
	11/11/94		41.86	25.66
	12/29/94		42.59	24.93
	01/04/95		40.54	26.98
	04/14/95		31.50	36.02
	07/12/95		35.14	32,38
MW-4	07/27/94	68.08 a	41.78	26.30
	08/09/94		42.09	25.99
	10/05/94 ^b		43.25	24.83
	11/11/94		42.54	25.54
•	12/29/94		43.34	24.74
	01/04/95		41.57	26.51
	04/14/95		32.24	35.84
	07/12/95		35.88	32.20

Notes:

a = Top-of-Casing Elevation resurveyed March 29, 1994

b = Measurements this date represent 3rd month of 3rd Quarter 1994.

Weiss Associates

Table 2A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

	Date	Depth to	TPH-G	TPH-D	В	E	T	X
Well ID	Sampled	Water (ft)			parts per	billion (mg/L) -		·
) (137 d	00/45/04			h				
MW-1	09/17/91	44.85	50°	160 ^b	< 0.5	< 0.5	< 0.5	< 0.5
	03/01/92	41.56	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	06/03/92	40.74	< 50		0.8	0.9	< 0.5	< 0.5
	09/01/92	43.05	< 50		< 0.5	5.3	5.8	7.2
	12/07/92	44.19	68		< 0.5	< 0.5	0.8	1.2
	03/01/93	34.96	< 50		< 0.5	< 0.5	< 0.5	< 0.5
	03/01/93 ^{dup}	34.96	< 50		< 0.5	< 0.5	< 0.5	< 0.5
	06/22/93	36.75	< 50		< 0.5	< 0.5	< 0.5	< 0.5
•	09/09/93	39.36	200°	**=	16	2.0	5.2	< 0.5
	12/13/93	40.74	89 ^d		3.4	< 0.5	< 0.5	< 0.5
	03/03/94	38.40	65 ^d		2.6	< 0.5	< 0.5	< 0.5
	07/27/94	40.49	180		30	2.6	1.8	5.0
	07/27/94 ^{dup}	40.49	240		25	2.2	2.2	4.0
	10/05/94	41.98	< 50		< 0.3	< 0.3	< 0.3	< 0.6
	01/04/95	39.90	< 50		2.4	< 0.5	< 0.5	< 0.5
	01/04/95 ^{dup}	39.90	< 50		2.5	< 0.5	< 0.5	< 0.5
	04/14/95	35.88	< 50		< 0.5	< 0.5	0.5	<0.5
	04/14/95 ^{dup}	35.88	< 50		< 0.5	< 0.5	< 0.5	<0.5
	07/12/95	34.61	< 50		1.2	< 0.5	0.8	<0.5
MW-2	03/01/92	41 57	010	- FO	• •			a ya ili kan isa ya katanan tenan ta isan matasa a tanan sana s
V1 VY -Z	06/03/92	41.57	910	< 50	11	50	5.2	140
		40.56	1,400		33	150	16	240
	09/01/92	42.94	230		5.2	15	4.1	19
	09/01/92 ^{dup}	42.94	320		5.6	18	5	220
	12/07/92	44.13	240		1.5	9.5	1.3	9.9
	12/07/92 ^{dup}	44.13	< 50		1.7	13	1	12
	03/01/93	34.82	230		260	27	310	66
	06/22/93	36.64	220		18	3.6	3.4	5.2
	06/22/93 ^{dup}	36.64	320		29	4.2	4.8	6.1
	09/09/93	39.24	260		18	16	4.6	12

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Table 2A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

	Date	Depth to	TPH-G	TPH-D	В	Е	T	X
Well ID	Sampled	Water (ft)			parts per	billion (mg/L) —		
	09/09/93 ^{dup}	39.24	210		16	1.4	2.0	0.1
	12/13/93	40.64	1,300°			14	3.9	9.1
	12/13/93 ^{dup}	40.64	1,400°	***	82	73 72	34	15
	03/03/94				110	72	45	19
•	03/03/94 ^{dup}	38.98	9,600		1,200	390	600	710
	07/27/94	38.98	10,000		930	330	500	590
	08/09/94	40.40	190		< 0.5	< 0.5	1.0	< 0.5
		40.71	1,500		53.5	46.2	12.4	44.0
	10/05/94	41.89	<485		< 0.3	< 0.3	< 0.3	< 0.6
	01/04/95	39.81	1,300		150	23	35	51
	04/14/95	30.83	5,000		1,000	400	340	810
	07/12/95	34.50	4,500	220	440	170	170	290
	07/12/95 ^{dap}	34.50	4,300		430	160	160	280
/W-3	03/01/92	42.00	< 50	<50	< 0.5	< 0.5	< 0.5	< 0.5
	06/03/92	44.30	< 50		< 0.5	< 0.5	< 0.5	< 0.5
	09/01/92	43.62	< 50	·	< 0.5	1.1	< 0.5	3.2
	12/07/92	44.77	52		< 0.5	< 0.5	< 0.5	0.5
	03/01/93	35.50	< 50		< 0.5	< 0.5	< 0.5	< 0.5
	06/22/93	37.30	< 50		< 0.5	< 0.5	< 0.5	< 0.5
	09/09/93	39.90	50°		5.0	< 0.5	< 0.5	< 0.5
	12/13/93	41.30	120 ^d		7.5	1.6	< 0.5	6.3
	03/03/94	38.32	< 50		0.81	< 0.5	< 0.5	< 0.5
	07/27/94	41.07	< 50		3.5	< 0.5	< 0.5	< 0.5
	10/05/94°	42.55	< 57		< 0.3	<0.3	<0.3	< 0.6
	01/04/95	40.54	< 50		6.0	<0.5	< 0.5	< 0.5
•	04/14/95	31.50	<50		< 0.5	<0.5	<0.5	<0.5
	07/12/95	35.14	90		16	<0.5	<0.5	<0.5

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Table 2A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

	Date	Depth to	TPH-G	TPH-D	В	E	T	X	
Well ID	Sampled	Water (ft)	· · · · · ·		parts per	billion (mg/L) —		3.9 4.9 <0.3 <0.6 <0.3 <0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	
MW-4	07/27/94	41.78	120		3.4	0.6	3.9	4 9	
	10/05/94°	43.25	< 50		< 0.3	< 0.3			
	10/05/94 ^{dup}	43.25	< 50		< 0.3	< 0.3			
	01/04/95	41.57	< 50		1.4	< 0.5			
	04/14/95	32.24	< 50		< 0.5	< 0.5			
	07/12/95	35.88	< 50		< 0.5	< 0.5			
Bailer	09/01/92		<50		<0.5	< 0.5	< 0.5	1	
Blank	12/07/92		< 50		< 0.5	< 0.5			
	01/04/95		< 50		< 0.5	< 0.5			
	07/12/95		<50	===	0.6	<0.5			
Ггір	09/17/91		< 50		< 0.5	< 0.5	< 0.5	<0.5	
Blank	03/01/92		< 50	~~=	< 0.5	< 0.5			
	06/03/92		< 50		<0.5	< 0.5			
	09/01/92		< 50		<0.5	< 0.5			
	12/07/92		< 50		< 0.5	< 0.5			
	03/01/93		< 50		<0.5	< 0.5			
	06/22/93		< 50		< 0.5	< 0.5			
	09/09/93		< 50		< 0.5	< 0.5			
	12/13/93		< 50		< 0.5	< 0.5			
	03/03/94		< 50		< 0.5	< 0.5			
	07/27/94		< 50		< 0.5	< 0.5			
	08/09/94		< 500		< 0.3	< 0.3	< 0.3	< 0.6	
	10/05/94		< 50		< 0.3	< 0.3	< 0.3	< 0.6	
	01/04/95		< 50		< 0.5	< 0.5	< 0.5	< 0.5	
	04/14/95		< 50		< 0.5	< 0.5	< 0.5	< 0.5	

Table 2A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G ←	TPH-D	TPH-D		E per billion (mg/L) —	T	X
DTSC MCLs			NE	NE		1	680	100 ^g	1,750
TPH-D = Total 8015 B = Benzene E = Ethylben T = Toluene X = Xylenes dup = Duplicate NE = Not estal	petroleum hydroc by EPA Method 8 zene by EPA Met by EPA Method 8 e sample blished	arbons as diesel by N 8020 thod 8020 8020	y Modified EPA Metho Modified EPA Method nces Control maximum		b = c = d = f = f	= Result due = Result due = The concer of a combin gasoline. = The concer of a discret = Data not re = Results this	to a non-gasoline hydro to a non-diesel hydrocal attrations reported as gas- nation of gasoline and a attrations reported as gas- te peak not indicative of equired, extra sample co- s date represent 3rd mon- perimended action level;	rbon compound oline are primarily discrete peak not oline are primarily gasoline llected by sampling th of 3rd Quarter	indicative of due to the presence g consultant. 1994

Not analyzed

Not detected at detection limits of n ppm

Weiss Associates

Table 2B. Analytic Reports for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

TT 11 190	Date	Depth to	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE	
Well ID	Sampled	Water			— parts per bil	llion (mg/L) ——			
MW-1	03/08/90	42.65		<10,000	35	6.3		****	
	06/12/90	43.14	*	< 10,000	1.9	63			
	09/13/90	44.71		< 10,000	26	9			
	12/18/90	45.23		< 10,000	< 0.4	5.3			
	03/07/91	43.32			23	3.7			
	06/07/91	42.18			21	6.6			
	09/17/91	44.85			23	7.4			
	03/01/92	41.56	< 0.4	·	21	6.3	*	< 0.4	
	06/03/92	40.74	17		< 0.5	6.7	< 0.5	< 0.5	
	09/01/92	43.05	12		< 0.5	5.8	<0.5	< 0.5	
	12/07/92	44.19	< 0.5		17	9	<0.5	< 0.5	
	03/01/93	34.96	< 0.5		22	13	< 0.5	< 0.5	
	03/01/93 ^{dup}	34.96	< 0.5		22	13	<0.5	< 0.5	
	06/23/93	36.75	< 0.5		18	8	<0.5	< 0.5	
	09/09/93	39.36	< 0.5		17	6.5	<0.5	<0.5	
	12/13/93	40.74							
	04/14/95	31.02						·	
MW-2	03/01/92	41.57	< 0.4		11	8.9		<0.4	
	06/03/92	40.56	7.4		< 0.5	< 0.5	0.76	6.3	
	09/01/92	42.94	8.4		< 0.5	9.1	< 0.5	< 0.5	
	09/01/92 ^{dup}	42.94	8.4		< 0.5	8.1	< 0.5	< 0.5	
	12/07/92	44.13	< 0.5		10	10	<0.5	<0.5	
	12/07/92 ^{dup}	44.13	< 0.5		10	9	<0.5	< 0.5	
	03/01/93	34.82	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	
	06/22/93	36.64	< 0.5		13	7.9	<0.5	<0.5	
	06/22/93 ^{dup}	36.64	< 0.5		12	6.9	<0.5	<0.5	
	09/09/93	39.24	< 0.5		11	5.9	1.9	< 0.5	

Table 2B. Analytic Reports for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

	Date	Depth to	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCI
Well ID	Sampled	Water			— parts per bil	llion (mg/L) ——		
	09/09/93	39.24	< 0.5		12	7.3	1.1	< 0.5
	12/13/93	40.64			***			
	07/27/94	40.40	< 0.4		< 0.4	7.5		< 0.4
	08/09/94	40.71	< 0.1		10.1	5.8	< 0.1	< 0.3
	10/05/94 *	41.89	<5		9	5	<5	< 5
	01/04/95	39.81	< 0.4		12	3.8		< 0.4
	04/14/95	30.83	< 0.4		8.4	2.3	< 0.4	
MW-3	03/01/92	42.00	< 0.4		8.8	2.4		< 0.4
	06/03/92	44.30	3		< 0.5	1.5	< 0.5	< 0.5
	09/01/92	43.62	8.8	-	< 0.5	2.3	< 0.5	< 0.5
	12/07/92	44.77	< 0.5	F9.7	10	3	< 0.5	<0.5
	03/01/93	35.50	< 0.5		9.2	9.4	< 0.5	<0.5
	06/22/93	37.30	< 0.5		7.8	9.6	< 0.5	<0.5
	09/09/93	39.90	< 0.5		7.9	7.3	< 0.5	< 0.5
	12/13/93	41.30					***	
Bailer	09/01/92		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Blank	12/07/92		< 0.5		<0.5	< 0.5	<0.5	< 0.5
Тгір	09/01/92		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Blank	12/07/92 ^b		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
	03/01/93		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
	06/22/93°		< 0.5		< 0.5	< 0.5	< 0.5	<0.5
DTSC MCLs			5	NE	5	NE	6	10

Table 2B. Analytic Reports for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Abbreviations:

TCE = Trichloroethene by EPA Method 601

TOG = Total non-polar oil and grease by American Public Health Association Standard Methods 503A&E

PCE = Tetrachloroethene by EPA Method 601

cis-1,2-DCE = cis-1,2-Dichloroethene by EPA Method 601 trans-1,2-DCE = trans-1,2-Dichlorethene by EPA Method 601

--- = Not analyzed dup = Duplicate sample

DTSC MCLs = Department of Toxic Substances Control Maximum Contaminant

Levels for drinking water

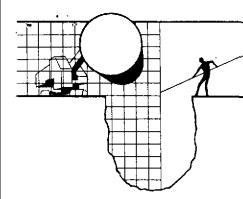
NE = DTSC MCL not established

Notes:

- a = Results this date represent 3rd month of 3rd quarter 1994
- b = Sample contained 0.014 mg/L of 1,3-Dichlorobenzene
- c = Although 1.4 ppb methylene chloride was detected in one of the ground water samples from well MW-2, the laboratory indicated that this was within normal laboratory background concentrations.

ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE SAN JOSE, CA 95133 (408) 995-5535 FAX (408) 293-8773

July 31, 1995

Shell Oil Company P.O. Box 4023 Concord, CA 94524

Attn: Daniel T. Kirk

SITE: Shell WIC #204-6852-0703 1285 Bancroft Avenue San Leandro, California

QUARTER: 3rd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950712-G-3

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1386.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

From The fr.
Richard C. Blaine

RCB/lp

attachments: table of well gauging data

chain of custody

certified analytical report

cc: Weiss Associates

5500 Shellmound Street Emeryville, CA 94608-2411

ATTN: Grady Glasser

DEPTH TO WELL BOTTOM (feet)	59.18 59.40 57.56 54.64
DEPTH TO WATER ((001)	34.61 34.50 35.14 35.88
VOLUME OF IMMISCIBLES REMOVED (ml)	1 1 1
THICKNESS OF IMMISCIBLES LIQUID ZONE (1001)	- 1 1 1 1 1
DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	NONE NONE NONE
QUALITATIVE OBSERVATIONS (sheen)	1 1 1 1
MEASUREMENT REFERENCED TO	50 50 50 50 50 50
DATA COLLECTION DATE	7/12/95 7/12/95 7/12/95 7/12/95
WELL I.D.	MW-2 MW-3 MW-3

* Sample DUP was a duplicate sample taken from well MW-2

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VIA! NOS



Santa Rosa Division 3636 North Laughlin Road Suite 110 Santa Rosa, CA 95403-8226

Tel: (707) 526-7200 Fax: (707) 541-2333

Jim Keller Blaine Tech Services 985 Timothy Dr. San Jose, CA 95133 Date: 07/24/1995

NET Client Acct. No: 1821

NET Job No: 95.02731 Received: 07/14/1995

Client Reference Information

Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Ken Larson

Division Manager

Jennifer I/ Roseberry Project/Manager

Enclosure(s)





Client Acct: 1821 ® NET Job No: 95.02731 ELAP Cert: 1386

Page: 2

Date: 07/24/1995

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: MW1

Date Taken: 07/12/1995

NET Sample No: 246117								Run
		1	Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						07/17/1995	3018
Purgeable TPH	ND		50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12							07/17/1995	3018
METHOD 8020 (GC, Liquid)							07/17/1995	3018
Benzene	1.2	C	0.5	ug/L	8020		07/17/1995	3018
Toluene	0.8	С	0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND		0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND		0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS			•				07/17/1995	3018
Bromofluorobenzene (SURR)	78			% Rec.	8020		07/17/1995	3018

 $^{{\}tt C}\,:\,{\tt Positive}$ result confirmed by secondary column or ${\tt GC/MS}$ analysis.



Client Acct: 1821

® NET Job No: 95.02731

Date: 07/24/1995

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Page: 3

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: MW2

Date Taken: 07/12/1995

NET Sample No: 246118							
		Reporting			Date	Date	Batch
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	10					07/17/1995	3018
Purgeable TPH	4,500	500	ug/L	5030/M8D15		07/17/1995	3018
Carbon Range: C6 to C12						07/17/1995	3018
METHOD 8020 (GC, Liquid)						07/17/1995	3018
Benzene	440	5	ug/L	8020		07/17/1995	3018
Toluene	170	5	ug/L	8020		07/17/1995	3018
Ethylbenzene	170	5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	290	S	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS					•	07/17/1995	3018
Bromofluorobenzene (SURR)	102		% Rec.	8020		07/17/1995	3018



Client Acct: 1821

95.02731

Date: 07/24/1995

ELAP Cert: 1386 Page: 4

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: MW3

Date Taken: 07/12/1995

NET Sample No: 246119								Run
		1	Reporting	Date	Date	Batch		
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						07/17/1995	3016
Purgeable TPH	90		50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12							07/17/1995	3018
METHOD 8020 (GC, Liquid)							07/17/1995	3018
Benzene	16	С	0.5	ug/L	8020		07/17/1995	3018
Toluene	ND		0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND		0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND		0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS							07/17/1995	3018
Bromofluorobenzene (SURR)	88			% Rec.	8020		07/17/1995	3018

 $[\]ensuremath{\mathtt{C}}$: Positive result confirmed by secondary column or GC/MS analysis.



Client Acct: 1821 ® NET Job No: 95.02731 Date: 07/24/1995

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Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: MW4

Date Taken: 07/12/1995

NET Sample No: 246120								Run	
		!	Reporting			Date	Date Analyzed	Batch No.	
Parameter	Results	Flags	Limit	Units	Method	Extracted			
METHOD 5030/8015-M (Shell)									
DILUTION FACTOR*	1						07/17/1995	3018	
Purgeable TPH	ND		50	ug/L	5030/M8015		07/17/1995	3018	
Carbon Range: C6 to C12							07/17/1995	3018	
METHOD 8020 (GC, Liquid)							07/17/1995	3018	
Benzene	ND		0.5	ug/L	8020		07/17/1995	3018	
Toluene	ND		0.5	ug/L	8020		07/17/1995	3018	
Ethylbenzene	ND		0.5	ug/L	8020		07/17/1995	3018	
Xylenes (Total)	ND		0.5	ug/L	8020		07/17/1995	3018	
SURROGATE RESULTS							07/17/1995	3018	
Bromofluorobenzene (SURR)	79			% Rec.	8020		07/17/1995	3018	



® NET Job No: 95.02731

Date: 07/24/1995

ELAP Cert: 1386 Page: 6

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: EB

Date Taken: 07/12/1995

NET Sample No: 246121								Run
		1	Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							-	
DILUTION FACTOR*	1						07/17/1995	3018
Purgeable TPH	ND		50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12							07/17/1995	3018
METHOD 8020 (GC, Liquid)							07/17/1995	3018
Benzene	0.6	C	0.5	ug/L	8020		07/17/1995	3018
Toluene	0.7	C	0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND `		0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND		0.5	ug/L	B020		07/17/1995	3018
SURROGATE RESULTS							07/17/1995	3018
Bromofluorobenzene (SURR)	82			% Rec.	8020		07/17/1995	3018

C : Positive result confirmed by secondary column or GC/MS analysis.



Client Acct: 1821 ® NET Job No: 95.02731 Date: 07/24/1995

ELAP Cert: 1386 Page: 7

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: DUP

Date Taken: 07/12/1995

Time Taken:

NET Sample No: 246122

NBI Sample NO: 246122							
		Reporting			Date	Date Analyzed	Batch
Parameter	Results Flac	s Limit	Units	Method	Extracted		No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	10					07/17/1995	3018
Purgeable TPH	4,300	500	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12						07/17/1995	3018
METHOD 8020 (GC, Liquid)						07/1 7/1 995	3018
Benzene	430	5	ug/L	8020	-	07/17/1995	3018
Toluene	160	5	ug/L	8020		07/17/1995	3018
Ethylbenzene	160	5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	280	. 5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS						07/17/1995	3018
Bromofluorobenzene (SURR)	99		% Rec.	8020		07/17/1995	3018



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Date: 07/24/1995

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

SAMPLE DESCRIPTION: TB

Date Taken: 07/12/1995

Time Taken:

NET Sample No: 246123							Run
	:	Reporting	Date	Date	Batch		
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)			,				
DILUTION FACTOR*	1					07/17/1995	3018
Purgeable TPH	ND	50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12						07/17/1995	3018
METHOD 8020 (GC, Liquid)						07/17/1995	3018
Benzene	ND	0.5	ug/L	8020		07/17/1995	3018
Toluene	ND	0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND .	0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND .	0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS						07/17/1995	3018
Bromofluorobenzene (SURR)	82		₹ Rec.	8020		07/17/1995	3018



Date: 07/24/1995

ELAP Cert: 1386

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

	CCV Standard	CCV Standard Amount	CCV Standard Amount		Date	Analyst	Run Batch
Parameter	% Recovery	Found	Expected	Units	Analyzed	Initials	Number
METHOD 5030/8015-M (Shell)							
Purgeable TPH	110.0	0.55	0.50	mg/L	07/17/1995	tts	3018
Benzene	97.6	4.88	5,00	ug/L	07/17/1995	tts	3018
Toluene	91.8	4.59	5.00	u g /L	07/17/1995	tts	3018
Ethylbenzene	103,4	5.17	5.00	ug/L	07/17/1995	tts	3018
Xylenes (Total)	100.7	15.1	15.0	ug/L	07/17/1995	tts	3018
Bromofluorobenzene (SURR)	83.0	83	100	% Rec.	07/17/1995	tts	3018



® NET Job No:

Date: 07/24/1995

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Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

METHOD BLANK REPORT

Method

	Blank					Run	
	Amount	Reporting		Date	Analyst	Batch	
Parameter	Found	Limit	Units	Analyzed	Initials	Number	
METHOD 5030/8015-M (Shell)							
Purgeable TPH	ND	0.05	mg/L	07/17/1995	tts	3018	
Benzene	ND	0.5	ug/L	07/17/1995	tts	3018	
Toluene	ND	0.5	ug/L	07/17/1995	tts	3018	
Ethylbenzene	ND	0.5	ug/L	07/17/1995	ttø	3018	
Xylenes (Total)	ND	0.5	ug/L	07/17/1995	tts	3018	
Bromofluorobenzene (SURR)	84		% Rec.	07/17/1995	tts	3018	



Client Name: 1

Blaine Tech Service

Client Acct: 1821

® NET Job No: 95.02731

Date: 07

ELAP Cert: 1386

Ref: Shell 1285 Bancroft Avenue, San Leandro, CA/950712-G3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
METHOD 5030/8015-M (Shell)											245763
Purgeable TPH	102.0	116.0	12.8	0.5	ND	0.51	0.58	mg/L	07/17/1995	3018	245763
Benzene	88.8	99.1	11.0	10.8	NĎ	9.59	10.7	ug/L	07/17/1995	3018	245763
Toluene	94.5	110.1	15.1	32.6	ND	30.8	35.9	ug/L	07/17/1995	3018	245763



KEY TO ABBREVIATIONS and METHOD REFERENCES

*	Less than; When appearing in results column indicates	analyte
	not detected at the value following. This datum super the listed Reporting Limit.	cedes

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 950712-G3	Log No: 757	2
Cooler received on: ापिय a	nd checked on July by	
Were gustody namers present?	(signature)	ио
	•	
	lled out? YES	NO
_	YES	
		NO TEMP! 200
·	condition (unbroken)?YES	NO
,	······································	NOTA
Were proper bottles used for an	alysis indicated? .YES	ио 📿
Correct preservatives used?	······································	ЙО
VOA vials checked for headspace Note which voas (if any	bubbles? YES) had bubbles:*	NO
Sample descriptor:	Number of vials:	
		•
	s have been set aside so they wi	.ll not be NO
List here all other jobs receiv	ed in the same cooler:	
Client Job #	NET log #	
of Chent transposed	Somple Dates!	
Should be 7/12 no	x 7/21	(coolerrec)
	- -	