



ENVIRONMENTAL
PROTECTION
SG MAY -2 PM 1:53

April 22, 1996

Susan Hugo
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502

Re: **First Quarter 1996**
Shell Service Station
WIC #204-2495-0101
1800 Powell Street
Emeryville, California
WA Job #81-0794-206

Dear Ms. Hugo:

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.

First Quarter 1996 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). The BTS report describing these activities, including the analytic report for the ground water samples, is included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations, compiled the analytic data (Table 1) and prepared a map showing ground water elevations and benzene concentrations (Figure 2).
- WA submitted a subsurface investigation workplan to assess the extent of hydrocarbons downgradient of the site.

Anticipated Second Quarter 1996 Activities:

- WA will submit a report presenting the results of the first quarter 1996 ground water sampling and ground water depth measurements. The report will

Susan Hugo
April 23, 1996

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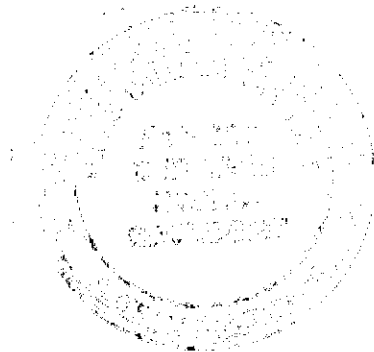
Weiss Associates 

include tabulated chemical analytic results, ground water elevations and a ground water elevation contour.

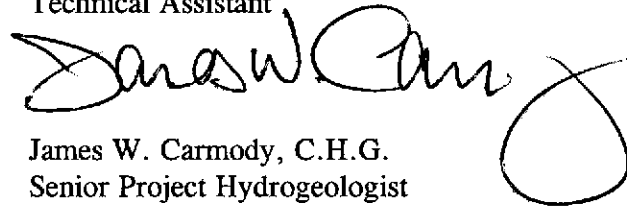
- WA will proceed with the proposed Subsurface Investigation.

Please call if you have any questions.

Sincerely,
Weiss Associates



Grady S. Glasser
Technical Assistant



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

Attachments: A - BTS' Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Company, P.O. Box 4023, Concord, California 94524

GSG/JWC:all
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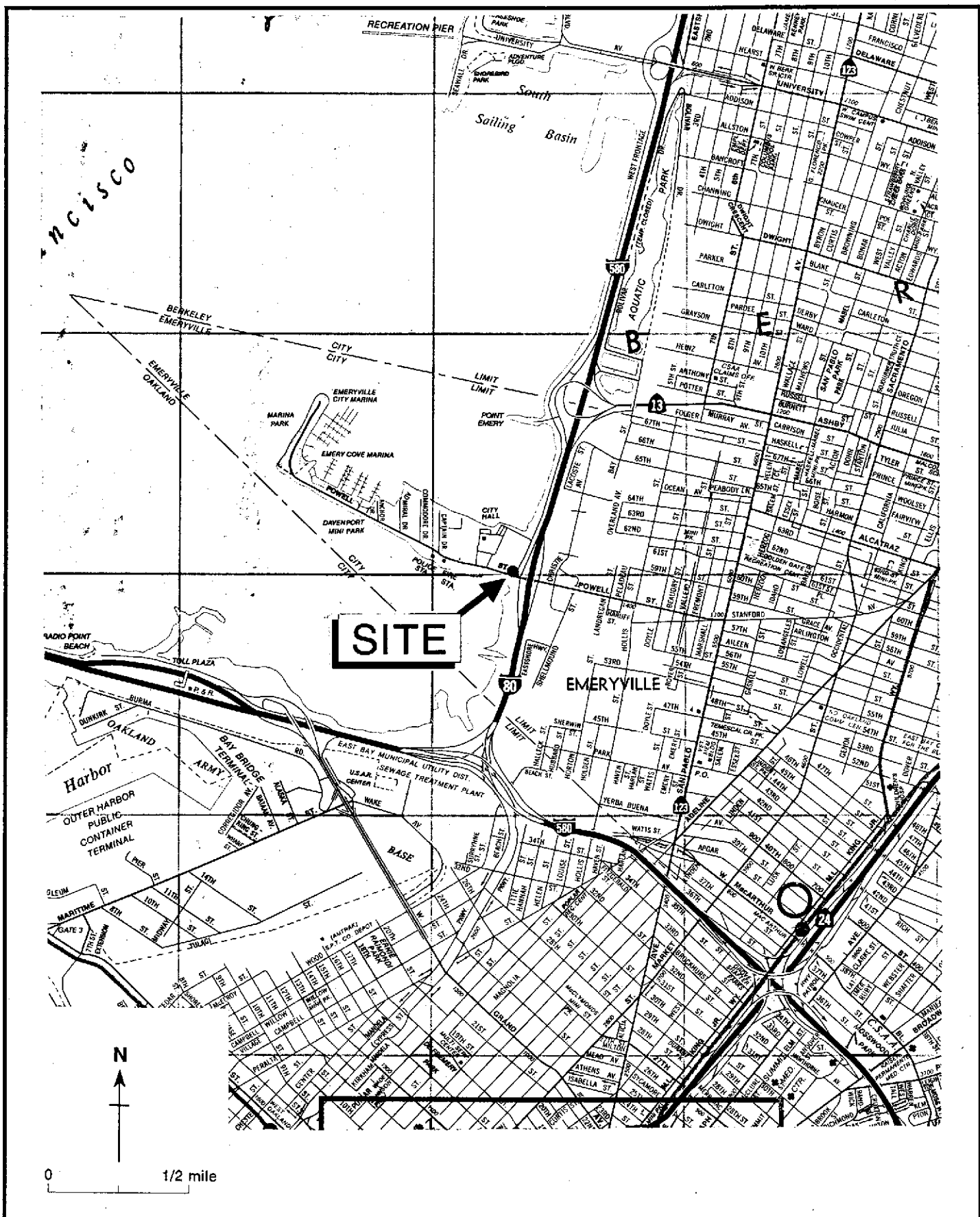
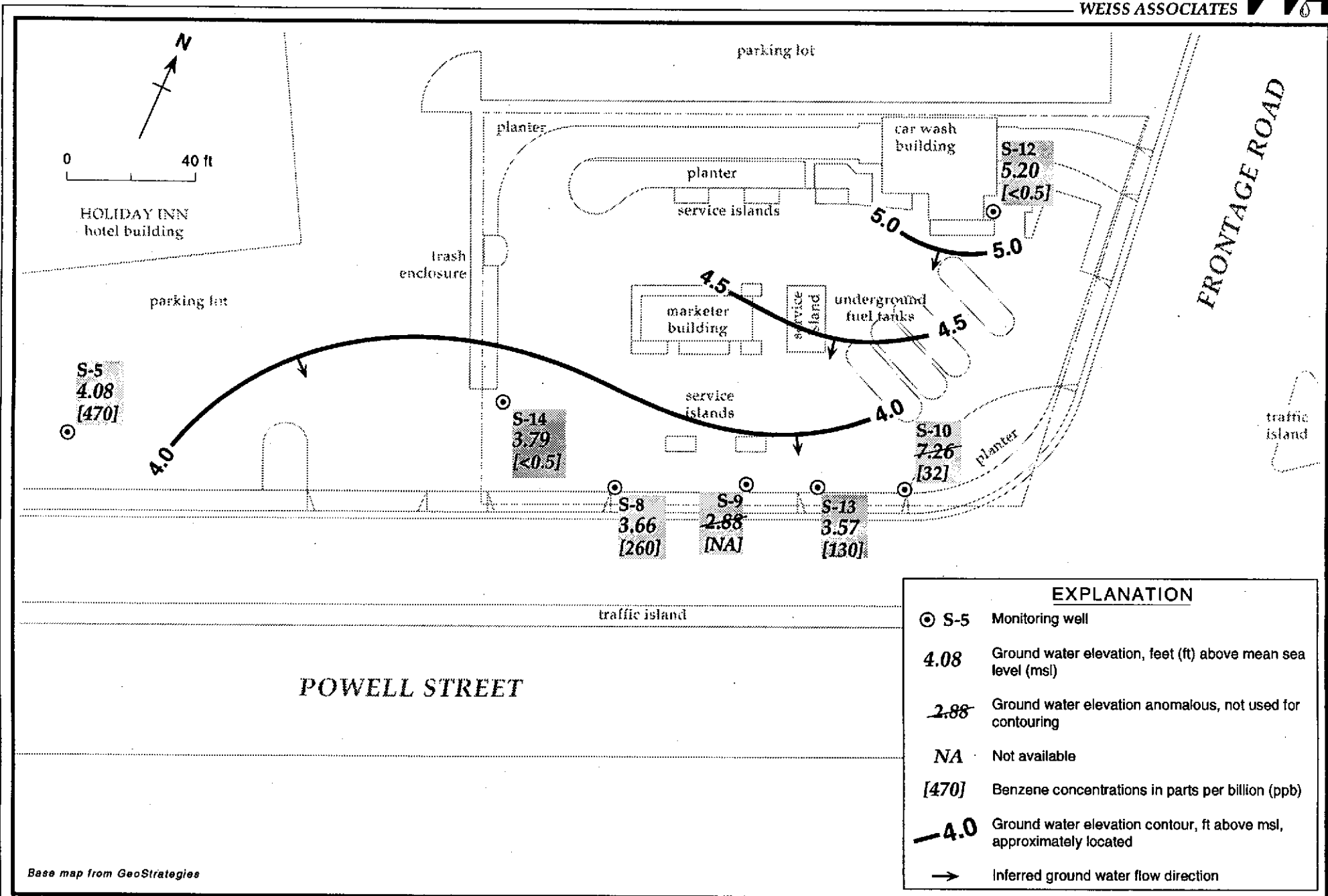


Figure 1. Site Location Map - Shell Service Station WIC# 204-2495-01, 1800 Powell Street, Emeryville, California



Base map from GeoStrategies

Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - DATE????, 1996 - Shell Service Station - WIC# 204-2495-0107, 1800 Powell Street, Emeryville, California

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	B	parts per billion (µg/L)			MTBE
										T	E	X	
S-5	10/26/84	11.72	---	---	---	---	3,000	---	660	20	20	70	---
	02/09/85		---	---	---	---	2,800	---	740	20	20	140	---
	04/27/85		---	---	---	---	4,300	---	750	10	20	<30	---
	07/06/85		---	---	---	---	1,500	---	300	8.0	7.0	9.0	---
	10/24/85		---	---	---	---	2,100	---	760	10	40	50	---
	01/03/86		---	---	---	---	1,300	---	520	9.0	8.0	10	---
	07/05/86		8.36	---	3.36	---	1,400	---	500	10	4.0	<10	---
	10/18/86		---	---	---	---	4,200	---	1,100	9.0	14	7.0	---
	01/13/87		---	---	---	---	4,500	6,100	1,100	15	30	25	---
	07/07/87		9.15	---	2.57	---	3,200	---	1,000	16	9.0	12	---
	10/10/87		9.67	---	2.05	---	1,700	---	16	5.7	5.2	8.9	---
	02/11/88		9.00	---	2.72	---	1,300	---	300	5.0	<5	<5	---
	05/10/88		8.61	---	3.11	---	1,900	---	490	<0.5	<5	<5	---
	08/31/88		9.61	---	2.11	---	6,700	---	760	26	<25	<25	---
	12/03/88		9.47	---	2.25	---	2,900	---	890	5.3	7.3	13	---
	02/16/89		8.29	---	3.43	---	1,300	---	280	3.0	3.4	9.4	---
	08/10/89		9.30	---	2.42	---	1,700	---	530	5.5	<5	5.8	---
	11/11/89		9.42	---	2.30	---	---	---	---	---	---	---	---
	02/21/94		7.95	---	3.77	---	1,000	---	250	<5	<5	<5	---
	02/21/94 ^{dup}		7.95	---	3.77	---	1,300	---	220	<5	<5	11	---
	05/16/94		8.00	---	3.72	---	1,200	---	230	<5	<5	<5	---
	08/09/94 ^a		---	---	---	---	---	---	---	---	---	---	---
	11/09/94		8.32	---	3.40	---	1,600	---	220	3.2	1.8	5.0	---
	11/09/94 ^{dup}		8.32	---	---	---	1,600	---	250	3.3	1.9	5.9	---
	02/22/95 ^a		---	---	---	---	---	---	---	---	---	---	---
	05/02/95 ^a		---	---	---	---	---	---	---	---	---	---	---
	05/10/95		---	---	---	---	910	---	170	1.5	1.3	5.2	---
	08/24/95		8.78	---	2.94	---	620	---	210	<0.5	1.2	5.3	---
	12/08/95		9.78	---	1.94	---	1,600	---	510	3.3	1.5	6.6	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	parts per billion (µg/L)						
							TPH-G	TPH-D	B	T	E	X	MTBE
	12/08/95 ^{dup}		9.78	---	1.94	---	1,600	---	530	1.8	1.1	5.4	---
	02/29/96		7.64	---	4.08	---	1,900	---	470	5.8	<5.0	<5.0	46
	02/29/96 ^{dup}		7.64	---	4.08	---	1,700	---	440	5.4	<5.0	<5.0	40
S-6 ^b	04/27/85		---	---	---	---	6,500	---	2,400	30	50	210	---
	07/06/85		---	---	---	---	3,700	---	1,700	34	55	200	---
	10/24/85		---	---	---	---	<50	---	23	<0.5	<5	10	---
S-7 ^b	10/26/84		---	---	---	---	50	---	1.1	<1	<1	4	---
	02/09/85		---	---	---	---	---	---	0.90	<1	<1	<3	---
	04/27/85		---	---	---	---	<50	---	<1	<1	<1	<3	---
	07/06/85		---	---	---	---	70	---	2.2	<1	<1	<3	---
	10/24/85		---	---	---	---	6,200	---	2,200	130	190	660	---
S-8	10/26/84	12.76	---	---	---	---	1,000	---	610	9.0	1.0	42	---
	02/09/85		---	---	---	---	500	---	160	5.0	<2	17	---
	04/27/85		---	---	---	---	2,700	---	1500	20	10	40	---
	07/06/85		---	---	---	---	440	---	180	5.0	2.0	12	---
	10/24/85		---	---	---	---	2,000	---	1,100	17	5.0	70	---
	01/03/86		---	---	---	---	1,900	---	1,300	20	<10	70	---
	07/05/86		9.50	---	3.26	---	1,600	---	920	30	<10	60	---
	10/18/86		---	---	---	---	1,400	---	640	<10	<10	30	---
	01/13/87		---	---	---	---	670	760	190	5.8	<0.5	19	---
	04/22/87		---	---	---	---	2,400	---	740	54	5.7	59	---
	07/07/87		10.45	---	2.31	---	1,100	---	450	15	<2.5	42	---
	10/10/87		10.83	---	1.93	---	340	---	4.0	0.60	<0.5	17	---
	02/11/88		10.44	---	2.32	---	<1,000	---	260	<10	<10	11	---
	05/10/88		10.17	---	2.59	---	1,800	---	700	14	<5	46	---
	08/31/88 ^{SPH}		10.81	---	1.95	---	---	---	---	---	---	---	---
	12/03/88		10.81	---	1.95	---	960	---	250	4.3	<2.5	14	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	B	parts per billion (µg/L)			X	MTBE
										T	E			
	02/16/89		9.65	---	3.11	---	2,700	---	800	35	10	83	---	
	05/28/89		10.46	---	2.3	---	960	---	710	25	84	80	---	
	08/10/89		10.59	---	2.17	---	1,300	---	630	17	<5	46	---	
	11/11/89		10.29	---	2.47	---	910	---	180	8	<2.5	15	---	
	02/21/94		9.52	---	3.24	2,910	3,200	---	480	52	<5	130	---	
	05/16/94		9.49	---	3.27	---	1,000	---	220	7.3	<5	28	---	
	05/16/94 ^{dup}		9.49	---	3.27	---	1,000	---	280	10	<5	29	---	
	08/09/94		10.37	---	2.39	4,500	400	---	27	6.6	<0.5	18	---	
	11/09/94		9.58	---	3.18	4,600	650	---	170	5.3	<0.5	17	---	
	02/22/95		9.02	---	3.74	---	650	---	210	10	1.2	22	---	
	05/02/95		8.45	---	4.31	---	1,000	---	280	17	1.4	32	---	
	08/24/95		10.02	---	2.74	---	480	---	180	11	1.0	19	---	
	08/24/95 ^{dup}		10.02	---	2.74	---	700	---	180	6.5	<0.5	17	---	
	12/08/95		10.65	---	2.11	---	740	---	230	6.9	0.7	15	---	
	02/29/96		9.10	---	3.66	---	740	---	260	8.1	<5.0	19	58	
S-9	10/26/84 ^{SPH}	12.75	---	---	---	---	---	---	---	---	---	---	---	
	02/09/85 ^{SPH}		---	1.30	---	---	---	---	---	---	---	---	---	
	04/27/85 ^{SPH}		---	1.25	---	---	---	---	---	---	---	---	---	
	07/06/85 ^{SPH}		---	1.20	---	---	---	---	---	---	---	---	---	
	10/24/85 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	01/03/86 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	04/11/86 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	07/05/86 ^{SPH}		9.67	---	3.08	---	---	---	---	---	---	---	---	
	10/18/86 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	01/13/87 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	04/22/87 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	07/07/87 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	
	10/10/87 ^{SPH}		22.30	---	-9.55	---	---	---	---	---	---	---	---	
	02/24/94 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	



Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	B	T E X				MTBE
										parts per billion (µg/L)				
	05/16/94 ^{SPH}		---	1.5	---	---	---	---	---	---	---	---	---	---
	08/09/94 ^{SPH}		11.80	2.0	---	---	---	---	---	---	---	---	---	---
	11/09/94 ^{SPH}		---	---	---	---	---	---	---	---	---	---	---	---
	02/22/95 ^{SPH}		11.40	2.38	---	---	---	---	---	---	---	---	---	---
	05/02/95 ^{SPH}		11.83	2.12	---	---	---	---	---	---	---	---	---	---
	12/08/95		11.92	1.06	---	---	---	---	---	---	---	---	---	---
	02/29/96		12.10	2.79	2.88	---	---	---	---	---	---	---	---	---
S-10	10/26/84	12.58	---	---	---	---	700,000	---	37,000	100,000	20,000	110,000	---	---
	02/09/85		---	---	---	---	6,500	---	480	700	100	1,800	---	---
	04/27/85		---	---	---	---	13,000	---	1,300	500	600	3,700	---	---
	07/06/85		---	---	---	---	14,000	---	1,300	310	270	2,400	---	---
	10/24/85		---	---	---	---	4,200	---	580	34	4	440	---	---
	01/03/86		---	---	---	---	1,700	---	360	10	7.8	170	---	---
	04/11/86 ^{SPH}		---	0.01	---	---	---	---	---	---	---	---	---	---
	07/05/86 ^{SPH}		9.16	0.01	3.42	---	---	---	---	---	---	---	---	---
	10/18/86 ^{SPH}		---	0.03	---	---	---	---	---	---	---	---	---	---
	01/13/87 ^{SPH}		---	0.03	---	---	---	---	---	---	---	---	---	---
	04/22/87 ^{SPH}		---	0.01	---	---	---	---	---	---	---	---	---	---
	07/07/87 ^{SPH}		9.41	0.03	3.17	---	---	---	---	---	---	---	---	---
	10/10/87 ^{SPH}		7.77	---	4.81	---	---	---	---	---	---	---	---	---
	02/11/88		6.41	---	6.17	---	1,200	---	470	16	<5	14	---	---
	05/10/88		9.04	---	3.54	---	1,100	---	100	6	4	19	---	---
	08/31/88 ^{SPH}		9.38	0.01	3.20	---	---	---	---	---	---	---	---	---
	12/03/88 ^{SPH}		6.89	---	5.69	---	---	---	---	---	---	---	---	---
	02/16/89		7.34	---	5.24	---	530	---	89	8.5	1.6	4.5	---	---
	05/28/89		6.60	---	5.98	---	240	---	65	3.8	2.2	8.6	---	---
	08/10/89		9.09	---	3.49	---	250	---	23	4.1	<1	6.4	---	---
	11/11/89		6.58	---	6.00	---	320	---	1.6	1.3	1.4	6.2	---	---
	02/21/94		8.32	---	4.26	---	1,400	---	190	9.9	<2.5	19	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	parts per billion (µg/L)						
							TPH-G	TPH-D	B	T	E	X	MTBE
	05/16/94		8.35	---	4.23	---	300	---	45	8.6	6.2	19	---
	08/08/94		8.66	---	3.92	---	700	---	57	14	<0.5	9.3	---
	11/09/94		6.68	---	5.90	---	640	---	130	2.0	1.6	4.1	---
	02/22/95		9.12	---	3.46	---	500	---	65	5.9	1.0	8.2	---
	05/02/95		9.50	---	3.08	---	530	---	59	2.3	0.8	8.2	---
	08/24/95		10.06	---	2.52	---	350	---	35	4.6	<0.5	6.7	---
	12/08/95		10.08	---	2.50	---	690	---	28	4.6	0.9	8.6	---
	02/29/96		5.32	---	7.26	---	430	---	32	1.8	0.5	5.8	16
S-12	07/06/85	12.84	8.22	---	---	---	<250	2,200	0.71	<0.5	<0.5	<3.6	---
	11/16/85		---	---	---	---	<250	1,400	18	<2	<2	<5	---
	01/03/86		---	---	---	---	<250	---	24	2	<2	<5	---
	07/05/86		8.27	---	4.57	---	80	---	15	0.7	<0.5	2	---
	10/18/86		---	---	---	---	150	---	12	9	<0.5	3.6	---
	01/13/87		---	---	---	---	120	1,000	3.6	0.8	<0.5	2.9	---
	04/22/87		---	---	---	---	100	820	3.7	3.8	0.8	11	---
	07/07/87		9.5	---	3.34	---	70	---	2.5	0.8	<0.5	2.4	---
	10/10/87		9.9	---	2.94	---	220	2,500	2.1	0.7	<0.5	1.2	---
	02/11/88		9.43	---	3.41	---	110	2,500	0.8	<0.5	<0.5	1.3	---
	05/10/88		8.65	---	4.19	---	140	3,800 ^d	0.8	0.8	<0.5	2.5	---
	08/31/88		9.86	---	2.98	---	190	2,600 ^d	3	15	0.5	4.5	---
	12/03/88		9.93	---	2.91	---	180	3,900 ^d	1.2	1	1	7.7	---
	02/16/89		8.08	---	4.76	---	350 ^e	2,100 ^d	0.6	<0.5	0.5	5.5	---
	05/28/89		9.08	---	3.76	---	290	2,200	2	1.6	4.4	6	---
	08/10/89		9.35	---	3.49	---	240	720	0.7	<0.5	<0.5	1.1	---
	11/11/89		9.28	---	3.56	---	210 ^e	4,100	0.7	0.5	<0.5	3.4	---
	02/21/94		8.22	---	4.62	---	240 ^f	2,200 ^g	0.7	<0.5	<0.5	3.6	---
	05/16/94		8.92	---	3.92	---	96	2,200	1.5	<0.5	<0.5	2.0	---
	08/08/94		---	---	---	---	110 ^h	3,500 ⁱ	<0.5	<0.5	<0.5	<0.5	---
	11/09/94		7.56	---	5.28	---	80	5,400 ⁱ	80	<0.5	<0.5	0.6	---



Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	parts per billion (µg/L)					MTBE
									B	T	E	X		
	02/22/95		7.98	---	4.86	---	110	2,900 ^{ij}	0.7	<0.5	<0.5	3.7	---	
	02/22/95 ^{dup}		7.98	---	4.86	---	110	3,400 ^{ij}	4.8	7.1	<0.5	2.1	---	
	05/02/95		8.44	---	4.40	---	140	2,800	2.4	1.1	0.8	4.3	---	
	08/24/95		9.00	---	3.84	---	200	1,600	19	12	5.6	24	---	
	12/08/95		9.62	---	3.22	---	170	2,700	2.2	0.7	0.9	3.6	---	
	02/29/96		7.64	---	5.20	---	1,700	2,200	<5.0	<5.0	<5.0	<5.0	5,600	
S-13	07/06/85	12.59	9.26	---	---	---	700	3,600	200	<5	<5	45	---	
	11/16/85		---	---	---	---	1,900	2,000	700	160	70	340	---	
	01/03/86		---	---	---	---	2,800	---	1,400	130	10	500	---	
	07/05/86		9.47	---	3.12	---	3,100	---	1,800	60	40	270	---	
	10/23/86		---	---	---	---	3,400	---	1,500	28	28	250	---	
	01/13/87		---	---	---	---	1,900	900	830	15	<10	99	---	
	04/22/87		---	---	---	---	2,900 ^e	770 ^j	1,100	20	30	140	---	
	07/07/87		10.38	---	2.21	---	1,500	---	880	10	6	160	---	
	10/10/87		10.78	---	1.81	---	480	2,400	830	15	<0.5	120	---	
	02/11/88		10.48	---	2.11	---	1,300	1,300	510	<10	<10	86	---	
	05/10/88		9.48	---	3.11	---	1,000	1,300 ^d	470	<0.5	<5	50	---	
	08/31/88 ^{SPH}		10.74	---	1.85	---	---	---	---	---	---	---	---	
	12/03/88		10.3	---	2.29	---	900	2,400 ^d	290	4.6	<2.5	20	---	
	02/16/89		7.6	---	4.99	---	840 ^e	1,200 ^d	310	3.5	<2.5	27	---	
	05/28/89 ^c		10.6	---	1.99	---	2,100	4,600	1,100	19	50	350	---	
	08/10/89 ^c		10.58	---	2.01	---	900	2,300	230	16	6.9	65	---	
	11/11/89		9.84	---	2.75	---	2,800	2,800	200	15	8.6	58	---	
	02/21/94		9.26	---	3.33	---	700	1,800 ^f	200	<5	<5	45	---	
	05/16/94		9.62	---	2.97	---	650	1,700	180	2.5	<2.5	21	---	
	08/08/94		10.32	---	2.27	---	470	2,600 ^l	12	1.5	0.5	14	---	
	11/09/94 ^a		---	---	---	---	---	---	---	---	---	---	---	
	02/22/95		8.92	---	3.67	---	550	2,400 ^{ij}	190	4.0	<0.5	17	---	
	05/02/95		9.52	---	3.07	---	790	2,100	250	6.9	1.2	22	---	

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	B	parts per billion (µg/L)			X	MTBE
										T	E			
	08/24/95		10.02	---	2.57	---	330	1,500	93	<0.5	<0.5	2.0	---	
	12/08/95		10.75	---	1.84	---	440	2,400	110	2.2	0.8	23	---	
	02/29/96		9.02	---	3.57	---	560	2,500	130	<5.0	<5.0	30	30	
S-14	11/16/85	12.69	---	---	---	---	<250	400	3	<2	<2	<5	---	
	01/03/86		---	---	---	---	<250	---	3	2	<2	<5	---	
	04/22/87		---	---	---	---	1,200	18,000	7.4	2.7	15	110	---	
	07/07/87		10.32	---	2.37	---	190	---	6.5	0.6	1.9	26	---	
	10/10/87		10.77	---	1.92	---	4,900	21,000	7	1.2	<0.5	25	---	
	02/11/88		10.4	---	2.29	---	370	12,000 ^f	4.6	<2.5	<2.5	26	---	
	05/10/88		9.66	---	3.03	---	660	2,200 ^d	2.9	<2.5	<2.5	24	---	
	08/31/88		10.74	---	1.95	---	700	7,900	3.2	<2.5	<2.5	15	---	
	12/03/88		10.69	---	2.00	---	210	11,000 ^d	<0.5	<0.5	0.8	6.8	---	
	02/16/89		9.69	---	3.00	---	130 ^e	5,700 ^d	<0.5	<0.5	<0.5	4.4	---	
	05/28/89		10.42	---	2.27	---	770	5,200	<0.5	<0.5	<0.5	4.5	---	
	08/10/89		10.54	---	2.15	---	920	8,800	<1	<1	1.6	17	---	
	11/11/89		9.91	---	2.78	---	710	28,000	20	57	25	69	---	
	02/21/94		9.3	---	3.09	---	2,800	3,600	<5	<5	<5	14	---	
	02/21/94		9.30	---	3.39	---	2,300 ^f	3,600 ^e	<5.0	<5	<5	14	---	
	05/16/94		9.54	---	3.15	---	310	6,700	<2.5	<2.5	<2.5	3.1	---	
	08/08/94		10.29	---	2.4	---	480 ^k	2,900	<0.5	0.6	<0.5	0.8	---	
	08/08/94 ^{dup}		10.29	---	2.4	---	590 ^k	2,900	<0.5	0.6	<0.5	1.5	---	
	11/09/94		9.52	---	3.07	---	170 ^k	6,400 ^j	0.7	<0.5	<0.5	2.7	---	
	02/22/95		9.18	---	3.51	---	550	7,000 ^{i,j}	<0.5	<0.5	<0.5	1.6	---	
	05/02/95		9.49	---	3.2	---	210	2,300	1.0	0.9	1.1	6.3	---	
	05/02/95 ^{dup}		9.49	---	3.2	---	160	2,600	0.6	0.6	0.7	3.8	---	
	08/24/95		9.94	---	2.75	---	180	3,700	0.5	<0.5	<0.5	1.3	---	
	12/08/95		10.65	---	2.04	---	190	4,900	1.0	<0.5	0.6	4.6	---	
	02/29/96		8.90	---	3.79	---	200	11,000	<0.5	<0.5	<0.5	2.0	3.0	

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-2495-0101, 1800 Powell Street, Emeryville, California (continued)

Well ID	Sampling Date	Top-of-Box Elevation (ft msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft msl)	TDS (ppm)	TPH-G	TPH-D	parts per billion (µg/L)				
									B	T	E	X	MTBE
Trip	02/21/94		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
Blank	02/24/94		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	05/16/94		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	08/08/94		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	11/09/94		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	02/22/95		---	---	---	---	<50	---	<0.5	0.9	<0.5	<0.5	---
	05/02/95		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	05/10/95		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	12/08/95		---	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
DHS MCLs				---	---	---	NE	NE	1	100 ^c	680	1,750	NE

Abbreviations:

ft msl = Feet above mean sea level
 TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
 B = Benzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 MTBE = Methyl tertiary butyl ether by EPA Method 8020
 DHS MCLs = California Department of Health Services maximum contaminant levels for drinking water
 NE = Not established
 <n = Not detected at a detection limit of n ppb
 dup = Duplicate sample
 SPH = Separate-phase hydrocarbons present, often unable to measure thickness accurately
 --- = Not analyzed/not measured

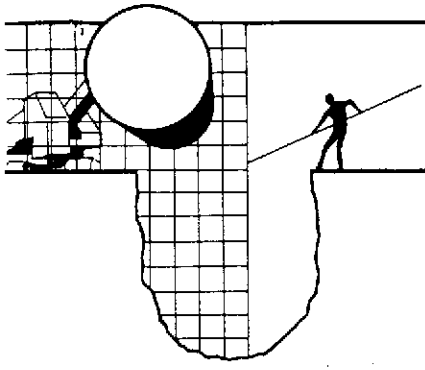
Notes:

a = Well inaccessible
 b = Well abandoned on 11/09/85
 c = DHS recommended action level; MCL not established
 d = Compounds detected within the chromatographic range appear to be weathered diesel
 e = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.
 f = The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak
 g = The concentrations reported as diesel for samples S-12, S-13 and S-14 are due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18 - C36, possibly motor oil
 h = The result for gasoline is an unknown hydrocarbon which consists of several peaks
 i = The positive result appears to be a heavier hydrocarbon than diesel
 j = Compounds detected within the chromatographic range of diesel appears to include gasoline compounds.
 k = The positive result appears to be a heavier hydrocarbon than gasoline



ATTACHMENT A

BTS' GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

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

March 22, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-2495-0101
1800 Powell Street
Emeryville, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960229-J-3

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-5 *	2/29/96	TOB	--	NONE	--	--	7.64	12.48
S-8	2/29/96	TOB	--	NONE	--	--	9.10	18.84
S-9	2/29/96	TOB	FREE PRODUCT	9.35	2.75	--	12.10	--
S-10	2/29/96	TOB	ODOR	NONE	--	--	5.32	19.72
S-12	2/29/96	TOB	--	NONE	--	--	7.64	24.40
S-13	2/29/96	TOB	--	NONE	--	--	9.02	20.26
S-14	2/29/96	TOB	ODOR	NONE	--	--	8.90	23.70

* Sample DUP was a duplicate sample taken from well S-5.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

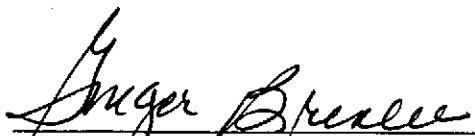
Date: 03/14/1996
NET Client Acct. No: 1821
NET Job No: 96.00773-A
Received: 03/02/1996

Client Reference Information

Shell 1800 Powell Street, Emeryville, CA/960229-J3

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. 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 free to call me at (707) 541-2305.

Submitted by:



Ginger Brinlee
Project Coordinator

Enclosure (s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773-A

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: S-5
NET SAMPLE NUMBER: 261365

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						03/05/1996		3573
Methyl-tert-butyl ether	46		20		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	104				µ Rec.	8020	03/05/1996		3573

SAMPLE DESCRIPTION: S-8
NET SAMPLE NUMBER: 261366

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						03/05/1996		3573
Methyl-tert-butyl ether	58		20		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	98				µ Rec.	8020	03/05/1996		3573

SAMPLE DESCRIPTION: S-10
NET SAMPLE NUMBER: 261367

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1						03/05/1996		3573
Methyl-tert-butyl ether	16		2		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	106				µ Rec.	8020	03/05/1996		3573

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773-A

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: S-12
NET SAMPLE NUMBER: 261368

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						03/05/1996	3573
Methyl-tert-butyl ether	5,600		200	ug/L	8020		03/13/1996	3590
SURROGATE RESULTS	--						03/05/1996	3573
Bromofluorobenzene (SURR)	97			% Rec.	8020		03/05/1996	3573

SAMPLE DESCRIPTION: S-13
NET SAMPLE NUMBER: 261369

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						03/05/1996	3573
Methyl-tert-butyl ether	30		20	ug/L	8020		03/05/1996	3573
SURROGATE RESULTS	--						03/05/1996	3573
Bromofluorobenzene (SURR)	98			% Rec.	8020		03/05/1996	3573

SAMPLE DESCRIPTION: S-14
NET SAMPLE NUMBER: 261370

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						03/07/1996	3579
Methyl-tert-butyl ether	3.0		2	ug/L	8020		03/07/1996	3579
SURROGATE RESULTS	--						03/07/1996	3579
Bromofluorobenzene (SURR)	92			% Rec.	8020		03/07/1996	3579

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773-A

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: EB
NET SAMPLE NUMBER: 261371

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1							03/05/1996	3573
Methyl-tert-butyl ether	ND		2		ug/L	8020		03/05/1996	3573
SURROGATE RESULTS	--							03/05/1996	3573
Bromofluorobenzene (SURR)	99				% Rec.	8020		03/05/1996	3573

SAMPLE DESCRIPTION: DUP
NET SAMPLE NUMBER: 261372

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10							03/05/1996	3573
Methyl-tert-butyl ether	40		20		ug/L	8020		03/05/1996	3573
SURROGATE RESULTS	--							03/05/1996	3573
Bromofluorobenzene (SURR)	102				% Rec.	8020		03/05/1996	3573

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773-A

Date: 03/14/1996
 ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found					
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	100.0	0.50	0.50	mg/L	03/05/1996	lss	3573
Benzene	95.6	4.78	5.00	ug/L	03/05/1996	lss	3573
Toluene	92.4	4.62	5.00	ug/L	03/05/1996	lss	3573
Ethylbenzene	95.4	4.77	5.00	ug/L	03/05/1996	lss	3573
Xylenes (Total)	96.7	14.5	15.0	ug/L	03/05/1996	lss	3573
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	03/05/1996	lss	3573
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	108.0	0.54	0.50	mg/L	03/07/1996	aal	3579
Benzene	94.0	4.70	5.00	ug/L	03/07/1996	aal	3579
Toluene	92.0	4.60	5.00	ug/L	03/07/1996	aal	3579
Ethylbenzene	95.2	4.76	5.00	ug/L	03/07/1996	aal	3579
Xylenes (Total)	96.0	14.4	15.0	ug/L	03/07/1996	aal	3579
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	03/07/1996	aal	3579
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	102.0	0.51	0.50	mg/L	03/13/1996	aal	3590
Benzene	96.6	4.83	5.00	ug/L	03/13/1996	aal	3590
Toluene	90.6	4.53	5.00	ug/L	03/13/1996	aal	3590
Ethylbenzene	95.6	4.78	5.00	ug/L	03/13/1996	aal	3590
Xylenes (Total)	97.3	14.6	15.0	ug/L	03/13/1996	aal	3590
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	03/13/1996	aal	3590

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773-A

Date: 03/14/1996
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METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	03/05/1996	lss	3573
Benzene	ND	0.5		ug/L	03/05/1996	lss	3573
Toluene	ND	0.5		ug/L	03/05/1996	lss	3573
Ethylbenzene	ND	0.5		ug/L	03/05/1996	lss	3573
Xylenes (Total)	ND	0.5		ug/L	03/05/1996	lss	3573
Methyl-tert-butyl ether	ND	2		ug/L	03/05/1996	lss	3573
Bromofluorobenzene (SURRE)	93			% Rec.	03/05/1996	lss	3573
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	03/07/1996	aal	3579
Benzene	ND	0.5		ug/L	03/07/1996	aal	3579
Toluene	ND	0.5		ug/L	03/07/1996	aal	3579
Ethylbenzene	ND	0.5		ug/L	03/07/1996	aal	3579
Xylenes (Total)	ND	0.5		ug/L	03/07/1996	aal	3579
Methyl-tert-butyl ether	ND	2		ug/L	03/07/1996	aal	3579
Bromofluorobenzene (SURRE)	101			% Rec.	03/07/1996	aal	3579
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	03/13/1996	aal	3590
Benzene	ND	0.5		ug/L	03/13/1996	aal	3590
Toluene	ND	0.5		ug/L	03/13/1996	aal	3590
Ethylbenzene	ND	0.5		ug/L	03/13/1996	aal	3590
Xylenes (Total)	ND	0.5		ug/L	03/13/1996	aal	3590
Methyl-tert-butyl ether	ND	2		ug/L	03/13/1996	aal	3590
Bromofluorobenzene (SURRE)	92			% Rec.	03/13/1996	aal	3590

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773-A

Date: 03/14/1996
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike Dup.			Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Conc.	Conc.	Conc.					
5030/8015-M/8020 Shell+MTBE													
Purgeable TPH	98.0	96.0	2.1	0.50	ND	0.49	0.48		mg/L	03/05/1996	3573		261336
Benzene	99.0	97.1	1.9	6.99	ND	6.92	6.79		ug/L	03/05/1996	3573		261336
Toluene	98.9	97.4	1.5	26.5	ND	26.2	25.8		ug/L	03/05/1996	3573		261336
Bromofluorobenzene (SURRE)	106.0	105.0	0.9	100	94	106	105		% Rec.	03/05/1996	3573		261336
5030/8015-M/8020 Shell+MTBE													
Purgeable TPH	108.0	108.0	0.0	0.5	ND	0.54	0.54		mg/L	03/07/1996	3579		261526
Benzene	99.6	101.2	1.5	7.38	ND	7.35	7.47		ug/L	03/07/1996	3579		261526
Toluene	100.0	102.3	2.3	25.7	ND	25.7	26.3		ug/L	03/07/1996	3579		261526
Bromofluorobenzene (SURRE)	108.0	114.0	5.4	100.0	101	108	114		% Rec.	03/07/1996	3579		261526
5030/8015-M/8020 Shell+MTBE													
Purgeable TPH	90.0	88.0	2.2	0.5	ND	0.45	0.44		mg/L	03/13/1996	3590		261828
Benzene	92.3	88.6	4.1	7.03	ND	6.49	6.23		ug/L	03/13/1996	3590		261828
Toluene	97.7	97.7	0.0	25.8	ND	25.2	25.2		ug/L	03/13/1996	3590		261828
Bromofluorobenzene (SURRE)	102.0	101.0	1.0	100.0	86	102	101		% Rec.	03/13/1996	3590		261828

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO RESULT FLAGS

- * : RPD between sample duplicates exceeds 30%.
- *M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.

KEY TO ABBREVIATIONS

ICVS : Initial Calibration Verification Standard (External Standard) .

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

mg/Kg : Concentration in units of milligrams of analyte per kilogram of sample.

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.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference.

SNA : Standard not available.

ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample.

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

umhos/cm : Micromhos per centimeter.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

0527

Serial No: 960229-53

Date:
 Page 1 of 1

Silo Address: 1800 Powell Street, Emeryville

WICK: 204-2495-0101

Shall Engineer: Don Kirk R. Jeff Granberry Phone No.: (510) 675-6168
Fax #: 675-6160

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller Phone No.: (408) 995-5535
Fax #: 293-8773

Commons:

Sampled by: [Signature]

Printed Name: Matt James

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	441	24 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	442	14 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	443	Other <input type="checkbox"/>
Soil/Air Rem. of Sp. O & M <input type="checkbox"/>	442	
Water Rem. of Sp. O & M <input type="checkbox"/>	443	
Other <input type="checkbox"/>		

NOTE: Holky Lab as soon as possible of 24/48 hrs. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1 S-5	2/24			W		3						X						
1 S-8						3						X						
1 S-10						3						X						
+ S-12						5		X				X						
+ S-13						5		X				X						
+ S-14						5		X				X						
1 EB						3						X						
1 DUP						3						X						

CUSTODY SEALED
Date: 3/1/96 Time: 1420 Initials: [Signature]
SEAL INTACT?
Yes No Initials: [Signature]

Relinquished By (Signature): <u>[Signature]</u>	Printed Name: <u>Matt James</u>	Date: <u>3-1</u>	Received (Signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>3/1/96</u>
Relinquished By (Signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Time: <u>1420</u>	Received (Signature): <u>[Signature]</u>	Printed Name: <u>PAUL GREENE</u>	Time: <u>1416</u>
Relinquished By (Signature):	Printed Name:	Date:	Received (Signature):	Printed Name:	Date: <u>3/29/96</u>
		Time:			Time: <u>08:45</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA: NS

CLIENT: Blaine Teen JOB #: _____ LOG #: 0527
Project ID: 960229-3
Samples Received On: 3/2/96 Checked in on: 3/2/96

- 1) Custody Seals: N/A Present Absent Broken
- 2) Chain of Custody Present Absent # (s): _____
Forms: Complete Incomplete _____

3) Type of packing material used: ice

4) Temperature(s) _____ ° C Thermometer #(s) _____

5) Sample Container(s) Intact Broken _____

6) Container Label(s) Match COC Do Not Match _____

7) Sample Volume Sufficient Insufficient _____

8) Preservative(s) Correct Incorrect pH verified Res. CI chk
(CN & PHLs)

9) Headspace (VOAs) None Present (list ID's / number vials affected)

Sample ID	# of Vials	Sample ID	# of Vials
S-5	1		
S-8	3		
S-10	3		
S-12	1		
S-13	3		
S-14	1		
DUP	2		

10) Form Completed By: [Signature] Date: 3/2/96
Attach shipper's packing slip to this form before routing

Problem Resolution:

- 1) Project Coordinator Verbally Informed on _____
- 2) Client Informed on _____ By _____

Project Coordinator: _____ Date _____ Resolved: Y N

Comments: _____



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

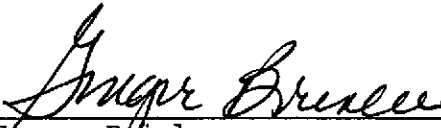
Date: 03/14/1996
NET Client Acct. No: 1821
NET Job No: 96.00773
Received: 03/02/1996

Client Reference Information

Shell 1800 Powell Street, Emeryville, CA/960229-J3

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. 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 free to call me at (707) 541-2305.

Submitted by:



Ginger Brinlee
Project Coordinator

Enclosure(s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773

Date: 03/14/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: S-5
NET SAMPLE NUMBER: 261365

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						03/05/1996		3573
Purgeable TPH	1,900		500		ug/L	8015	03/05/1996		3573
Carbon Range: C6 to C12	--					8015	03/05/1996		3573
8020 (GC, Liquid)	--					8020	03/05/1996		3573
Benzene	470		5		ug/L	8020	03/05/1996		3573
Toluene	5.8		5		ug/L	8020	03/05/1996		3573
Ethylbenzene	ND		5		ug/L	8020	03/05/1996		3573
Xylenes (Total)	ND		5		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	104				% Rec.	8020	03/05/1996		3573

SAMPLE DESCRIPTION: S-8
NET SAMPLE NUMBER: 261366

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						03/05/1996		3573
Purgeable TPH	740		500		ug/L	8015	03/05/1996		3573
Carbon Range: C6 to C12	--					8015	03/05/1996		3573
8020 (GC, Liquid)	--					8020	03/05/1996		3573
Benzene	260		5		ug/L	8020	03/05/1996		3573
Toluene	8.1		5		ug/L	8020	03/05/1996		3573
Ethylbenzene	ND		5		ug/L	8020	03/05/1996		3573
Xylenes (Total)	19		5		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	98				% Rec.	8020	03/05/1996		3573

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Elaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773

Date: 03/14/1996
 ELAP Cert: 1386
 Page: 3

Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: S-10
 NET SAMPLE NUMBER: 261367

DATE TAKEN: 02/29/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	1						03/05/1996		3573
Purgeable TPH	430		50		ug/L	8015	03/05/1996		3573
Carbon Range: C6 to C12	--					8015	03/05/1996		3573
8020 (GC, Liquid)	--					8020	03/05/1996		3573
Benzene	32		0.5		ug/L	8020	03/05/1996		3573
Toluene	1.8		0.5		ug/L	8020	03/05/1996		3573
Ethylbenzene	0.5		0.5		ug/L	8020	03/05/1996		3573
Xylenes (Total)	5.8		0.5		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	106				% Rec.	8020	03/05/1996		3573

SAMPLE DESCRIPTION: S-12
 NET SAMPLE NUMBER: 261368

DATE TAKEN: 02/29/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE									
DILUTION FACTOR*	10						03/05/1996		3573
Purgeable TPH	1,700		500		ug/L	8015	03/05/1996		3573
Carbon Range: C6 to C12	--					8015	03/05/1996		3573
8020 (GC, Liquid)	--					8020	03/05/1996		3573
Benzene	ND		5		ug/L	8020	03/05/1996		3573
Toluene	ND		5		ug/L	8020	03/05/1996		3573
Ethylbenzene	ND		5		ug/L	8020	03/05/1996		3573
Xylenes (Total)	ND		5		ug/L	8020	03/05/1996		3573
SURROGATE RESULTS	--						03/05/1996		3573
Bromofluorobenzene (SURR)	97				% Rec.	8020	03/05/1996		3573
3510/8015-M (Shell)							03/06/1996		
DILUTION FACTOR*	1						03/07/1996		1202
Extractable TPH	2,200		50		ug/L	3510/M8015	03/07/1996		1202
Carbon range: C9 to C24	--						03/07/1996		1202

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773

Date: 03/14/1996
 ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: S-13
 NET SAMPLE NUMBER: 261369

DATE TAKEN: 02/29/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						03/05/1996	3573
Purgeable TPH	560		500	ug/L	8015		03/05/1996	3573
Carbon Range: C6 to C12	--				8015		03/05/1996	3573
8020 (GC, Liquid)	--				8020		03/05/1996	3573
Benzene	130		5	ug/L	8020		03/05/1996	3573
Toluene	ND		5	ug/L	8020		03/05/1996	3573
Ethylbenzene	ND		5	ug/L	8020		03/05/1996	3573
Xylenes (Total)	30		5	ug/L	8020		03/05/1996	3573
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			% Rec.	8020		03/05/1996	3573
3510/8015-M (Shell)								
DILUTION FACTOR*	1					03/06/1996		
Extractable TPH	2,500		50	ug/L	3510/M8015		03/07/1996	1202
Carbon range: C9 to C24	--						03/07/1996	1202

SAMPLE DESCRIPTION: S-14
 NET SAMPLE NUMBER: 261370

DATE TAKEN: 02/29/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						03/07/1996	3579
Purgeable TPH	200		50	ug/L	8015		03/07/1996	3579
Carbon Range: C6 to C12	--				8015		03/07/1996	3579
8020 (GC, Liquid)	--				8020		03/07/1996	3579
Benzene	ND		0.5	ug/L	8020		03/07/1996	3579
Toluene	ND		0.5	ug/L	8020		03/07/1996	3579
Ethylbenzene	ND		0.5	ug/L	8020		03/07/1996	3579
Xylenes (Total)	2.0		0.5	ug/L	8020		03/07/1996	3579
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	92			% Rec.	8020		03/07/1996	3579
3510/8015-M (Shell)								
DILUTION FACTOR*	10					03/06/1996		
Extractable TPH	11,000		500	ug/L	3510/M8015		03/07/1996	1202
Carbon range: C9 to C24	--						03/07/1996	1202

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

SAMPLE DESCRIPTION: EB
NET SAMPLE NUMBER: 261371

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						03/05/1996	3573
Purgeable TPH	ND		50	ug/L	8015		03/05/1996	3573
Carbon Range: C6 to C12	--				8015		03/05/1996	3573
8020 (GC, Liquid)	--				8020		03/05/1996	3573
Benzene	ND		0.5	ug/L	8020		03/05/1996	3573
Toluene	ND		0.5	ug/L	8020		03/05/1996	3573
Ethylbenzene	ND		0.5	ug/L	8020		03/05/1996	3573
Xylenes (Total)	ND		0.5	ug/L	8020		03/05/1996	3573
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	99			% Rec.	8020		03/05/1996	3573

SAMPLE DESCRIPTION: DUP
NET SAMPLE NUMBER: 261372

DATE TAKEN: 02/29/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						03/05/1996	3573
Purgeable TPH	1,700		500	ug/L	8015		03/05/1996	3573
Carbon Range: C6 to C12	--				8015		03/05/1996	3573
8020 (GC, Liquid)	--				8020		03/05/1996	3573
Benzene	440		5	ug/L	8020		03/05/1996	3573
Toluene	5.4		5	ug/L	8020		03/05/1996	3573
Ethylbenzene	ND		5	ug/L	8020		03/05/1996	3573
Xylenes (Total)	ND		5	ug/L	8020		03/05/1996	3573
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	102			% Rec.	8020		03/05/1996	3573

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773

Date: 03/14/1996
 ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found					
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	100.0	0.50	0.50	mg/L	03/05/1996	lss	3573
Benzene	95.6	4.78	5.00	ug/L	03/05/1996	lss	3573
Toluene	92.4	4.62	5.00	ug/L	03/05/1996	lss	3573
Ethylbenzene	95.4	4.77	5.00	ug/L	03/05/1996	lss	3573
Xylenes (Total)	96.7	14.5	15.0	ug/L	03/05/1996	lss	3573
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	03/05/1996	lss	3573
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	108.0	0.54	0.50	mg/L	03/07/1996	aal	3579
Benzene	94.0	4.70	5.00	ug/L	03/07/1996	aal	3579
Toluene	92.0	4.60	5.00	ug/L	03/07/1996	aal	3579
Ethylbenzene	95.2	4.76	5.00	ug/L	03/07/1996	aal	3579
Xylenes (Total)	96.0	14.4	15.0	ug/L	03/07/1996	aal	3579
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	03/07/1996	aal	3579
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	102.0	0.51	0.50	mg/L	03/13/1996	aal	3590
Benzene	96.6	4.83	5.00	ug/L	03/13/1996	aal	3590
Toluene	90.6	4.53	5.00	ug/L	03/13/1996	aal	3590
Ethylbenzene	95.6	4.78	5.00	ug/L	03/13/1996	aal	3590
Xylenes (Total)	97.3	14.6	15.0	ug/L	03/13/1996	aal	3590
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	03/13/1996	aal	3590
3510/8015-M (Shell)							
Extractable TPH	106.6	1066	1000	mg/L	03/07/1996	dla	1202
3510/8015-M (Shell)							
Extractable TPH	97.3	973	1000	mg/L	03/07/1996	dla	1202

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773

Date: 03/14/1996
 ELAP Cert: 1386
 Page: 7

Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

METHOD BLANK REPORT

Parameter	Method		Reporting	Flags	Units	Date	Analyst	Run
	Blank	Amount						
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	ND		0.05		mg/L	03/05/1996	lss	3573
Benzene	ND		0.5		ug/L	03/05/1996	lss	3573
Toluene	ND		0.5		ug/L	03/05/1996	lss	3573
Ethylbenzene	ND		0.5		ug/L	03/05/1996	lss	3573
Xylenes (Total)	ND		0.5		ug/L	03/05/1996	lss	3573
Bromofluorobenzene (SURR)	93				% Rec.	03/05/1996	lss	3573
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	ND		0.05		mg/L	03/07/1996	aal	3579
Benzene	ND		0.5		ug/L	03/07/1996	aal	3579
Toluene	ND		0.5		ug/L	03/07/1996	aal	3579
Ethylbenzene	ND		0.5		ug/L	03/07/1996	aal	3579
Xylenes (Total)	ND		0.5		ug/L	03/07/1996	aal	3579
Bromofluorobenzene (SURR)	101				% Rec.	03/07/1996	aal	3579
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	ND		0.05		mg/L	03/13/1996	aal	3590
Benzene	ND		0.5		ug/L	03/13/1996	aal	3590
Toluene	ND		0.5		ug/L	03/13/1996	aal	3590
Ethylbenzene	ND		0.5		ug/L	03/13/1996	aal	3590
Xylenes (Total)	ND		0.5		ug/L	03/13/1996	aal	3590
Bromofluorobenzene (SURR)	92				% Rec.	03/13/1996	aal	3590
3510/8015-M (Shell)								
Extractable TPH	0.05		0.05		mg/L	03/07/1996	dla	1202

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00773

Date: 03/14/1996
 ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	Dup % Rec.				Conc.	Dup. Conc.					
5030/8015-M/8020 Shell+MTBE												
Purgeable TPH	98.0	96.0	2.1	0.50	ND	0.49	0.48		mg/L	03/05/1996	3573	261336
Benzene	99.0	97.1	1.9	6.99	ND	6.92	6.79		ug/L	03/05/1996	3573	261336
Toluene	98.9	97.4	1.5	26.5	ND	26.2	25.8		ug/L	03/05/1996	3573	261336
Bromofluorobenzene (SURRE)	106.0	105.0	0.9	100	94	106	105		% Rec.	03/05/1996	3573	261336
5030/8015-M/8020 Shell+MTBE												
Purgeable TPH	108.0	108.0	0.0	0.5	ND	0.54	0.54		mg/L	03/07/1996	3579	261526
Benzene	99.6	101.2	1.5	7.38	ND	7.35	7.47		ug/L	03/07/1996	3579	261526
Toluene	100.0	102.3	2.3	25.7	ND	25.7	26.3		ug/L	03/07/1996	3579	261526
Bromofluorobenzene (SURRE)	108.0	114.0	5.4	100.0	101	108	114		% Rec.	03/07/1996	3579	261526
5030/8015-M/8020 Shell+MTBE												
Purgeable TPH	90.0	88.0	2.2	0.5	ND	0.45	0.44		mg/L	03/13/1996	3590	261828
Benzene	92.3	88.6	4.1	7.03	ND	6.49	6.23		ug/L	03/13/1996	3590	261828
Toluene	97.7	97.7	0.0	25.8	ND	25.2	25.2		ug/L	03/13/1996	3590	261828
Bromofluorobenzene (SURRE)	102.0	101.0	1.0	100.0	86	102	101		% Rec.	03/13/1996	3590	261828
3510/8015-M (Shell)												
Extractable TPH	44.3	62.6	34.2	2.35	ND	1.04	1.47		mg/L	03/07/1996	1202	261311

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00773

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1800 Powell Street, Emeryville, CA/960229-J3

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS		RPD	DUP			Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	% Rec.	% Rec.		LCS Amount Found	LCS Amount Found	LCS Amount Exp.					
3510/8015-M (Shell)											
Extractable TPH	64.0			0.64		1.00		mg/L	03/07/1996	dla	1202

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO RESULT FLAGS

- * : RPD between sample duplicates exceeds 30%.
- *M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.

KEY TO ABBREVIATIONS

ICVS : Initial Calibration Verification Standard (External Standard) .

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

mg/Kg : Concentration in units of milligrams of analyte per kilogram of sample .

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 .

NTU : Nephelometric turbidity units .

RPD : Relative percent difference .

SNA : Standard not available .

ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample .

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

umhos/cm : Micromhos per centimeter .



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960229-53

Date: 05/27
 Page 1 of 1

Site Address: 1800 Powell Street, Emeryville

WIC#: 204-2495-0101

Shall Engineer: Don Kirk R. Jeff Granbery
 Phone No.: (510) 575-6168
 Fax #: 675-6160

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
 Phone No.: (408) 995-5535
 Fax #: 293-8773

Commons:

Sampled by: [Signature]

Printed Name: Matt James

Analysis Required

LAB: NET

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1 5-5	2/24			W		3						X						
1 5-8						3						X						
1 5-10						3						X						
+ 5-12						5						X						
+ 5-13						5						X						
+ 5-14						5						X						
1 EB						3						X						
1 DUP						3						X						

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	442	
Water Rem. or Sys. O & M <input type="checkbox"/>	443	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. LAT.

CUSTODY SEALED
 Date: 3/1/96 Time: 1420 Initials: [Signature]
SEAL INTACT?
 Yes No Initials: [Signature]

Relinquished By (Signature): <u>[Signature]</u>	Printed Name: <u>Matt James</u>	Date: <u>3-1</u>	Received (Signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>3/6/96</u>
Relinquished By (Signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Time: <u>1420</u>	Received (Signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Time: <u>1616</u>
Relinquished By (Signature):	Printed Name:	Date:	Received (Signature):	Printed Name:	Date: <u>3/2/96</u>
		Time:			Time: <u>08:45</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA: NS

CLIENT: Blaine Teen JOB #: _____ LOG #: 0527
Project ID: 9100229-3
Samples Received On: 3/2/96 Checked in on: 3/2/96

- 1) Custody Seals: N/A Present Absent Broken
- 2) Chain of Custody Present Absent # (s): _____
Forms: Complete Incomplete _____

3) Type of packing material used: foam

4) Temperature(s) _____ ° C Thermometer #(s) _____

5) Sample Container(s) Intact Broken _____

6) Container Label(s) Match COC Do Not Match _____

7) Sample Volume Sufficient Insufficient _____

8) Preservative(s) Correct Incorrect pH verified Res. CI chk (CN & PHLs)

9) Headspace (VOAs) None Present (list ID's / number vials affected)

Sample ID	# of Vials	Sample ID	# of Vials
<u>S-5</u>	<u>1</u>	_____	_____
<u>S-8</u>	<u>3</u>	_____	_____
<u>S-10</u>	<u>3</u>	_____	_____
<u>S-12</u>	<u>1</u>	_____	_____
<u>S-13</u>	<u>3</u>	_____	_____
<u>S-14</u>	<u>1</u>	_____	_____
<u>DUP</u>	<u>2</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

10) Form Completed By: Gary Sheen Date: 3/2/96
Attach shipper's packing slip to this form before routing

Problem Resolution:

- 1) Project Coordinator Verbally Informed on _____
- 2) Client Informed on _____ By _____

Project Coordinator: _____ Date _____ Resolved: Y N

Comments: _____