CAMBRIA

October 21, 1996

Susan Hugo
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502-6577

Re: **Third Quarter 1996**
Shell Service Station
WIC #204-0079-0109
999 San Pablo Avenue
Albany, California

Dear Ms. Hugo:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this status report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

Activities This Quarter:

- Blaine Tech Services, Inc. (BTS) of San Jose, California, measured ground water depths and collected ground water samples from the site wells (Figure 1). The BTS report describing these activities and the analytical report for the ground water samples are included as Attachment A. Samples from wells S-2 and S-7 were analyzed to estimate the ground water's ability to degrade hydrocarbons. The analytics indicate that BTEX Degrading Units (BDU) ranged form 10^0 to 10^5 units/liter.
- Cambria calculated ground water elevations (Table 1), compiled the analytic data (Table 2) and prepared a ground water elevation contour map (Figure 1).

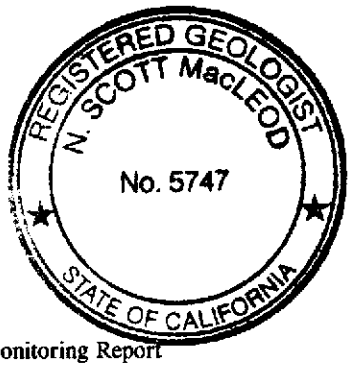
CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

Anticipated Activities Next Quarter:

Cambria will submit a report presenting a summary of activities for the upcoming quarter.

We appreciate this opportunity to work with you on this project. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



N. Scott MacLeod, R.G.
Principal Geologist

Attachment: A - Blaine Tech Services' Ground Water Monitoring Report

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

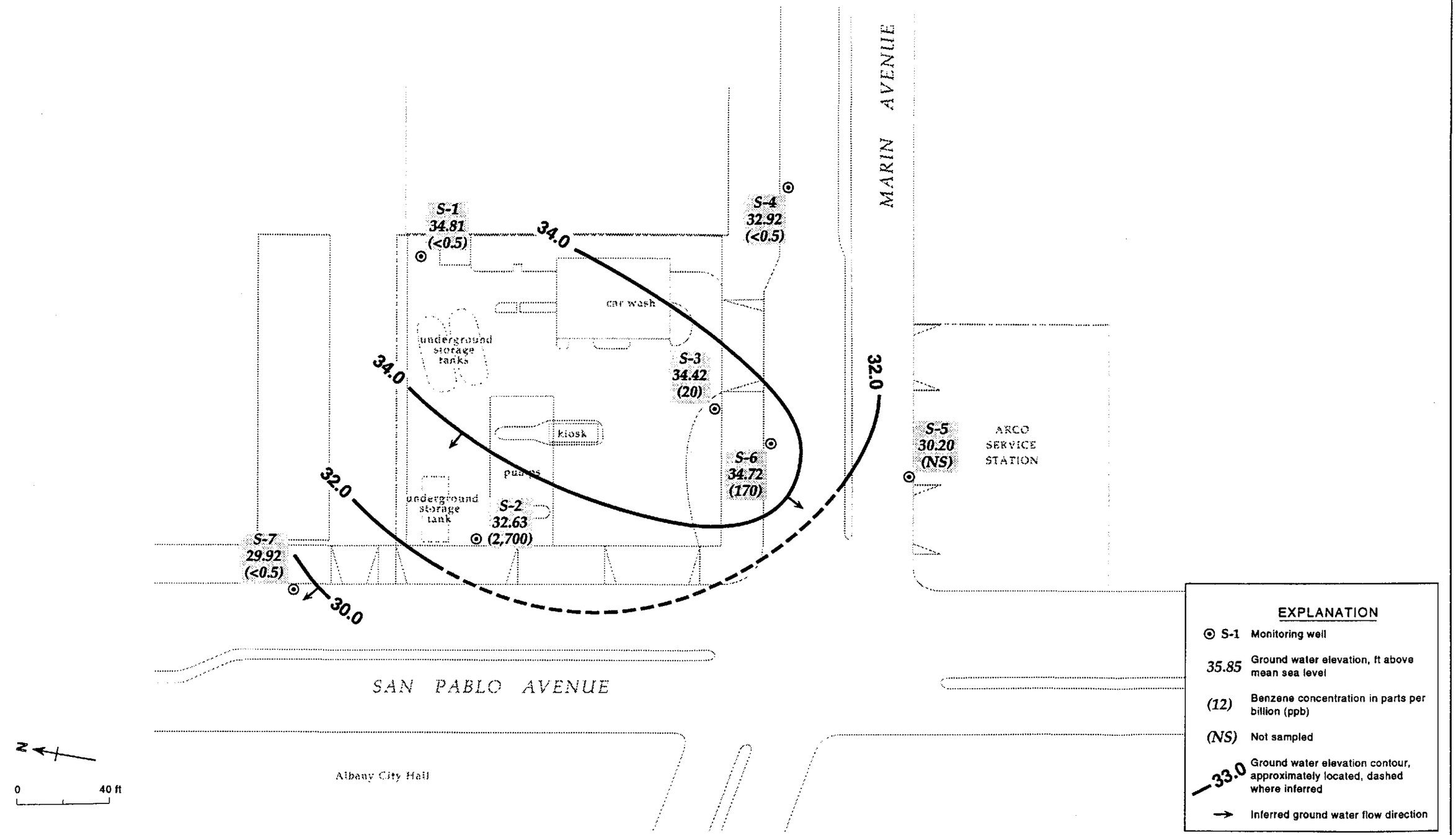


Figure 1. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - July 23, 1996 - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)[a]	Ground Water Elevation (ft above msl)
S-1	05/13/91	42.73	8.24	---	34.49
	08/23/91		8.37	---	34.36
	11/07/91		8.30	---	34.43
	01/28/92		7.84	---	34.89
	05/06/92		7.95	---	34.78
	08/26/92		8.24	---	34.49
	10/28/92		8.52	---	34.21
	01/19/93		6.54	---	36.19
	04/29/93		7.93	---	34.80
	07/22/93		8.09	---	34.64
	10/21/93		9.43	---	33.30
	01/04/94		8.25	---	34.48
	04/13/94		8.02	---	34.71
	07/25/94		8.22	---	34.51
	10/10/94		8.29	---	34.44
	01/26/95		6.88	---	35.85
	04/21/95		7.65	---	35.08
	07/28/95		7.90	---	34.83
	10/31/95		7.72	---	35.01
	01/10/96		8.24	---	34.49
	04/25/96		7.74	---	34.99
	07/23/96		**7.92**	**---**	**34.81**
S-2	05/13/91	40.73	8.50	---	32.23
	08/23/91		8.80	---	31.93
	11/07/91		8.61	---	32.12
	01/28/92		7.80	---	32.93
	05/06/92		8.10	---	32.63
	08/26/92		8.37	---	32.36
	10/28/92		8.64	---	32.09
	01/19/93		5.82	---	34.91
	04/29/93		7.70	---	33.03
	07/22/93		8.38	---	32.35
	10/21/93		8.58	---	32.15
	01/04/94		7.70	---	33.03
	04/13/94		7.62	---	33.11
	07/25/94		7.86	---	32.87
	10/10/94		8.12	---	32.61
	01/26/95		6.38	---	34.35
	04/21/95		7.01	---	33.72
	07/28/95		7.82	---	32.91

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID	Date	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)[a]	Ground Water Elevation (ft above msl)
	10/31/95		7.57	---	33.16
	01/10/96		8.13	---	32.60
	04/25/96		7.72	---	33.01
	07/23/96		**8.10**	**—**	**32.63**
S-3	05/13/91	41.46	7.90	---	33.56
	08/23/91		8.14	---	33.32
	11/07/91		7.91	---	33.55
	01/28/92		7.53	---	33.93
	05/06/92		7.55	---	33.91
	08/26/92		7.53	---	33.93
	10/28/92		7.95	---	33.51
	01/19/93		6.12	---	35.34
	04/29/93		7.27	---	34.19
	07/22/93		7.62	---	33.84
	10/21/93		7.81	---	33.65
	01/04/94		7.49	---	33.97
	04/13/94		7.32	---	34.14
	07/25/94		7.66	---	33.80
	10/10/94		7.49	---	33.97
	01/26/95		6.50	---	34.96
	04/21/95		6.79	---	34.67
	07/28/95		7.28	---	34.18
	10/31/95		6.74	---	34.72
	01/10/96		7.48	---	33.98
	04/25/96		6.90	---	34.56
	07/23/96		**7.04**	**—**	**34.42**
S-4	05/13/91	41.10	7.44	---	33.66
	08/23/91		8.32	---	32.78
	11/07/91		8.32	---	32.78
	01/28/92		7.40	---	33.70
	05/06/92		7.21	---	33.89
	08/26/92		8.13	---	32.97
	10/28/92		8.73	---	32.37
	01/19/93		5.86	---	35.24
	04/29/93		7.02	---	34.08
	07/22/93		7.76	---	33.34
	10/21/93		8.53	---	32.57
	01/04/94		7.92	---	33.18
	04/13/94		7.71	---	33.39

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID	Date	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)[a]	Ground Water Elevation (ft above msl)
	07/25/94		7.82	---	33.28
	10/10/94		8.15	---	32.95
	01/26/95		5.73	---	35.37
	04/21/95		6.26	---	34.84
	07/28/95		7.80	---	33.30
	10/31/95		8.45	---	32.65
	01/10/96		8.26	---	32.84
	04/25/96		7.14	---	33.96
	07/23/96		**8.18**	**---**	**32.92**
S-5	05/13/91	39.99	14.60	6.48	30.57
	08/23/91		15.14	5.50	29.25
	11/07/91		15.10	5.35	29.17
	01/28/92		14.05	4.90	29.86
	05/06/92		14.31	5.66	30.21
	08/26/92		14.26	3.80	28.77
	10/28/92		14.22	3.81	28.82
	01/19/93		12.36	3.96	30.80
	04/29/93		9.64	0.90	31.07
	07/22/93		9.55	0.90	31.16
	10/21/93		11.23	0.73	29.34
	01/04/94		11.69	1.90	29.82
	04/13/94		11.42	1.62	29.87
	07/25/94		12.01	1.79	29.41
	10/10/94		12.05	1.8	29.38
	01/26/95		8.42	1.72	32.95
	04/21/95		10.03	1.17	30.90
	07/28/95		11.42	1.87	30.07
	10/31/95		13.21	0.54	27.21
	01/10/96		12.05	0.13	28.04
	04/25/96		9.68	0.03	30.33
	07/23/96		**9.82**	**0.04**	**30.20**
S-6	05/13/91	40.12	7.82	---	32.30
	08/23/91		9.58	---	30.54
	11/07/91		10.86	---	29.26
	01/28/92		8.97	---	31.15
	05/06/92		8.27	---	31.85
	08/26/92		9.57	---	31.55
	10/28/92		8.90	---	32.22
	01/19/93		4.84	---	35.28

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID	Date	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)[a]	Ground Water Elevation (ft above msl)
	04/29/93		5.61	---	34.51
	07/22/93		6.56	---	33.56
	10/21/93		8.73	---	31.39
	01/04/94		7.14	---	32.98
	04/13/94		7.21	---	32.91
	07/25/94		6.85	---	33.27
	10/10/94		6.20	---	33.92
	01/26/95		4.89	---	35.23
	04/21/95		5.61	---	34.51
	07/28/95		5.30	---	34.82
	10/31/95		4.98	---	35.14
	01/10/96		5.67	---	34.45
	04/25/96		5.23	---	34.89
	07/23/96		**5.40**	**---**	**34.72**
S-7	05/13/91	40.10	10.56	---	29.54
	08/23/91		11.16	---	28.94
	11/07/91		11.48	---	28.62
	01/28/92		10.72	---	29.38
	05/06/92		10.34	---	29.76
	08/26/92		11.13	---	28.97
	10/28/92		11.52	---	28.58
	01/19/93		8.68	---	31.42
	04/29/93		9.90	---	30.20
	07/22/93		---	---	---
	10/21/93		11.10	---	29.00
	01/04/94		10.40	---	29.70
	04/13/94		10.20	---	29.90
	07/25/94		10.48	---	29.62
	10/10/94		10.64	---	29.46
	01/26/95		7.75	---	32.35
	04/21/95		8.51	---	31.59
	07/28/95		10.20	---	29.90
	10/31/95		10.86	---	29.24
	01/10/96		10.33	---	29.77
	04/25/96		9.13	---	30.97
	07/23/96		**10.18**	**---**	**29.92**

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
S-1	05/13/91	8.24	1,500	20	2.6	86	74	---	---	---
(Bi-annually,	08/23/91	8.37	2,900	27	<2.5	75	18	---	---	---
1st & 3rd	11/07/91	8.30	2,900	8	2.5	46	26	---	---	---
Qtrs)	01/28/92	7.84	2,000	11	<2.5	60	20	---	---	---
	05/06/92	7.95	1,200	5.5	<2.5	80	36	---	---	---
	07/29/93	8.24	2,000	9.4	<2.5	130	<2.5	---	---	---
	10/28/92	8.52	1,300	27	3.2	72	13	---	---	---
	01/19/93	6.54	1,500	13	3	29	31	---	---	---
	04/29/93	7.93	2,000	15	<2.5	82	<65	---	---	---
	07/22/93	8.09	620	1.1	4.2	3.5	13	---	---	---
	10/21/93	9.43	1,200	34	25	15	9.5	---	---	---
	01/04/94	8.25	860	<2.5	<2.5	5.7	5.3	---	---	---
	07/25/94	8.22	1,200	8.3	7.4	15	20	---	---	---
	01/26/95	6.88	1,000	12	0.6	12	420	---	---	---
	07/28/95	7.90	660	7.2	1.0	11	8.9	4.0	---	---
	01/10/96	8.24	1,100	3.5	7.0	5.1	9.4	7.4	---	---
	07/23/96	**7.92**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2.7**	**---**	**<2.5**
S-2	05/13/91	8.50	23,000	3,900	230	1,100	3,200	---	---	---
(Bi-annually,	08/23/91	8.80	23,000	4,400	260	1,900	2,400	---	---	---
1st & 3rd	11/07/91	8.61	40,000	4,000	160	1,020	3,400	---	---	---
Qtrs)	01/28/92	7.80	22,000	1,600	70	420	1,700	---	---	---
	05/06/92	8.10	20,000	2,600	110	860	1,900	---	---	---
	07/29/92	8.37	42,000	5,000	160	1,100	3,500	---	---	---
	10/28/92	8.64	34,000	4,800	330	1,600	2,900	---	---	---
	01/19/93	5.82	20,000	2,300	370	660	1,300	---	---	---

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
	04/29/93	7.70	40,000	2,000	67	900	1,900	---	---	---
	07/22/93	8.38	22,000	3,000	120	1,000	1,600	---	---	---
	07/22/93[dup]	8.38	17,000	3,000	110	1,000	1,500	---	---	---
	10/21/93	8.58	14,000	2,800	74	870	1,100	---	---	---
	10/21/93[dup]	8.58	13,000	3,200	53	960	820	---	---	---
	01/04/94	7.70	21,000	2,100	67	990	770	---	---	---
	01/04/94[dup]	7.70	22,000	2,000	64	910	750	---	---	---
	07/25/94	7.86	43,000	2,600	490	990	1,300	---	---	---
	01/26/95	6.38	21,000	790	12	290	570	5.5	10^4 to 10^5 [ab]	---
	07/28/95	7.82	14,000	2,400	360	960	370	4.0	---	---
	01/10/96	8.13	17,000	1,400	<50	480	170	7.2	---	---
	07/23/96	**8.10**	**16,000**	**2,700**	**69**	**1,100**	**110**	**2.2**	**—**	**9,500**
	07/23/96[dup]	**8.10**	**11,000**	**2,600**	**68**	**1,000**	**96**	**2.2**	**10^5 g**	**10,000***
S-3 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	7.90	3,300	30	3.6	26	13	---	---	---
	08/23/91	8.14	2,000	25	4	9.3	4.5	---	---	---
	11/07/91	7.91	4,000	20	3.9	5	4.9	---	---	---
	01/28/92	7.53	2,100	21	7.6	6.7	15	---	---	---
	01/28/92[dup]	7.53	2,100	18	6.1	7.1	14	---	---	---
	05/06/92	7.55	6,600	38	51	45	65	---	---	---
	07/29/92	7.53	5,800	18	12	29	60	---	---	---
	10/28/92	7.95	3,000	55	11	16	32	---	---	---
	01/19/93	6.12	3,100	<5	5.1	11	16	---	---	---
	04/29/93	7.27	3,000	31	22	<5	14	---	---	---
	07/22/93	7.62	2,600	3.1	43	23	53	---	---	---
	10/21/93	7.81	2,500	73	14	16	32	---	---	---

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
	01/04/94	7.49	4,800	13	21	<12.5	33	---	---	---
	07/25/94	7.66	2,600	6.1	4.0	3.8	12	---	---	---
	01/26/95	6.50	3,600	30	6.8	5.6	19	---	---	---
	01/26/95[dup]	6.50	2,200	9.9	15	14	22	---	---	---
	07/28/95	7.28	3,700	27	9.3	20	34	4.0	---	---
	01/10/96	7.48	4,000	10	<0.5	13	28	6.1	---	---
	07/23/96	**7.04**	**2,100**	**20**	**<0.5**	**<0.5**	**<0.5**	**2.1**	**---**	**<25**
S-4 (Annually 1st Qtr)	05/13/91	7.44	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	08/23/91	8.32	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/07/91	8.32	260	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/28/92	7.40	110[c]	<0.5	<0.5	<0.5	<0.5	---	---	---
	05/06/92	7.21	54	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/29/92	8.13	67	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/28/92	8.73	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/19/93	5.86	86	1.2	0.7	2.7	15	---	---	---
	04/29/93	7.02	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/29/93[dup]	7.02	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/22/93	7.76	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/21/93	8.53	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/04/94	7.92	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/26/95	5.73	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/28/95	7.80	---	---	---	---	---	---	---	---
	01/10/96	8.26	<50	1.0	2.8	<0.5	2.1	2.8	---	---
	07/23/96	**8.18**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3.8**	**---**	**<2.5**

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
S-5 (Quarterly)	05/13/91[SPH]	14.60	---	---	---	---	---	---	---	---
	08/23/91[SPH]	15.14	---	---	---	---	---	---	---	---
	11/07/91[SPH]	15.10	---	---	---	---	---	---	---	---
	01/28/92[SPH]	14.05	---	---	---	---	---	---	---	---
	05/06/92[SPH]	14.31	---	---	---	---	---	---	---	---
	07/29/92[SPH]	14.26	---	---	---	---	---	---	---	---
	10/28/92[SPH]	14.22	---	---	---	---	---	---	---	---
	01/19/93[SPH]	12.36	---	---	---	---	---	---	---	---
	04/29/93[SPH]	9.64	---	---	---	---	---	---	---	---
	07/22/93[SPH]	9.55	---	---	---	---	---	---	---	---
	10/21/93[SPH]	11.23	---	---	---	---	---	---	---	---
	01/04/94[SPH]	11.69	---	---	---	---	---	---	---	---
	07/25/94[SPH]	12.01	---	---	---	---	---	---	---	---
	10/10/94[SPH]	12.05	---	---	---	---	---	---	---	---
	01/26/95[SPH]	9.80	---	---	---	---	---	---	---	---
	04/21/95[SPH]	10.03	---	---	---	---	---	---	---	---
	07/28/95[SPH]	11.42	---	---	---	---	---	---	---	---
	10/31/95[SPH]		---	---	---	---	---	---	---	---
	01/10/96[SPH]	12.05	---	---	---	---	---	---	---	---
	04/25/96[SPH]	9.68	---	---	---	---	---	---	---	---
	07/23/96	**9.82**	---	---	---	---	---	---	---	---
S-6 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	7.82	13,000	600	140	210	310	---	---	---
	08/23/91	9.58	9,800	480	80	120	150	---	---	---
	11/07/91	10.86	6,200	240	23	25	27	---	---	---
	01/28/92	8.97	5,600	250	15	41	36	---	---	---

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
	05/06/92	8.27	7,100	330	29	110	210	---	---	---
	07/29/92	9.57	13,000	240	<50	56	780	---	---	---
	10/28/92	8.90	10,000	470	210	67	170	---	---	---
	01/19/93	4.84	4,800	100	26	27	45	---	---	---
	04/29/93	5.61	7,000	430	20	<12.5	42	---	---	---
	07/22/93	6.56	5,800	260	120	65	150	---	---	---
	10/21/93	8.73	5,500	270	69	120	140	---	---	---
	01/04/94	7.14	7,100	180	58	63	62	---	---	---
	07/25/94	6.85	12,000	190	52	30	39	---	---	---
	07/25/94[dup]	6.85	7,200	170	32	31	34	---	---	---
	01/26/95	4.89	5,800	120	23	24	44	---	---	---
	07/28/95	5.30	4,400	210	23	34	60	3.0	---	---
	07/28/95[dup]	5.30	6,100	230	20	38	59	3.0	---	---
	01/10/96	5.67	6,800	170	87	35	105	2.2	---	---
	01/10/96[dup]	5.67	7,800	230	120	50	210	2.2	---	---
	07/23/96	**5.40**	**2,600**	**170**	**<0.5**	**<0.5**	**8.5**	**1.4**	**---**	**<25**
S-7 (Quarterly)	05/13/91	10.56	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	08/23/91	11.16	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/07/91	11.48	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/28/92	10.72	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	05/06/92	10.34	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/29/92	11.13	160	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/28/92	11.52	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/19/93	8.68	50	1.1	0.6	1.9	9.2	---	---	---
	04/29/93	9.90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
	07/22/93[d]	---	---	---	---	---	---	---	---	---
	10/21/93	11.10	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/04/94	10.40	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/13/94	10.20	<50	1.4	0.61	<0.5	0.64	---	---	---
	04/13/94[dup]	10.20	<50	1.4	0.61	<0.5	0.66	---	---	---
	07/25/94	10.48	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/10/94[e]	10.64	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/26/95	7.75	<50	<0.5	<0.5	<0.5	<0.5	4.6	10^3 to 10^5 [ab]	---
	04/21/95	8.51	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/28/95	10.20	<50	<0.5	<0.5	<0.5	<0.5	3.0	---	---
	10/31/95	10.86	<50	<0.5	<0.5	<0.5	<0.5	4.9	---	---
	01/10/96	10.33	<50	<0.5	2.0	<0.5	2.6	7.6	---	---
	04/25/96	9.13	<50	<0.5	<0.5	<0.5	<0.5	6.2	10^0 to 10^5 [ab]	<2.5
	07/23/96	**10.18**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3.7**	10^0 g	**14**
Trip Blank	01/28/92		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/29/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/22/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/21/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/04/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/13/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/25/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/10/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/26/95		<50	<0.5	0.7	<0.5	<0.5	---	---	---
	04/21/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/28/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	DO (ppm)	HDM Units units/L	MTBE
			← parts per billion (µg/L) →							
	10/31/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
DTSC MCLs			NE	1	100[f]	680	1,750	---	---	---

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline 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 602 or 8020
--- = Not analyzed
DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
NE = Not established
<n = Not detected at detection limits of n ppb
dup = Duplicate sample
SPH = Separate-phase hydrocarbons detected, no sample collected
DO = Dissolved Oxygen
HDM = Hydrocarbon Degrading Microbes.

Notes:

a = Simple method
b = Estimated number
c = Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern
d = Well inaccessible
e = Sample analyzed for Total Dissolved Solids (450,000 ppb)
f = DTSC recommended action level for drinking water; MCL not established
g = Estimated BTEX degrading units per liter.

* = MTBE confirmed by EPA Method 8260

ATTACHMENT A

BLAINE TECH'S GROUND WATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

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

September 9, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-0079-0109
999 San Pablo Avenue
Albany, California

3rd Quarter 1996

Quarterly Groundwater Monitoring Report 960723-A-1

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-1	7/23/96	TOB	--	NONE	--	--	7.92	11.70
S-2 *	7/23/96	TOB	--	NONE	--	--	8.10	12.07
S-3	7/23/96	TOB	SHEEN	--	--	--	7.04	12.14
S-4	7/23/96	TOB	--	NONE	--	--	8.18	14.10
S-5	7/23/96	TOB	FREE PRODUCT	9.78	0.04	--	9.82	--
S-6	7/23/96	TOB	SHEEN	--	--		5.40	15.14
S-7	7/23/96	TOB	--	NONE	--		10.18	15.00

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Project: Shell Albany, 960723-A1

Enclosed are the results from samples received at Sequoia Analytical on July 24, 1996. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9607F11 -01	LIQUID, S-1	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -02	LIQUID, S-2	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -03	LIQUID, S-3	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -04	LIQUID, S-4	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -05	LIQUID, S-6	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -06	LIQUID, S-7	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -07	LIQUID, EB	07/23/96	TPGBMW Purgeable TPH/BTEX
9607F11 -08	LIQUID, DUP	07/23/96	MTBEMW Methyl t-Butyl Ethe
9607F11 -08	LIQUID, DUP	07/23/96	TPGBMW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: S-1	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-01	Reported: 08/12/96

QC Batch Number: GC073096BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	115

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: S-3	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-03	Reported: 08/12/96

QC Batch Number: GC073096BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**2100**
Methyl t-Butyl Ether	25	N.D.
Benzene	**5.0**	**20**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: S-4	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-04	Reported: 08/12/96

QC Batch Number: GC073096BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: S-6	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-05	Reported: 08/12/96

QC Batch Number: GC073096BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**2600**
Methyl t-Butyl Ether	25	N.D.
Benzene	**5.0**	**170**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	**5.0**	**8.5**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: S-7	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-06	Reported: 08/12/96

QC Batch Number: GC073096BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**14**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: EB	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-07	Reported: 08/12/96

QC Batch Number: GC073096BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: DUP	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: EPA 8260	Analyzed: 08/07/96
Attention: Jim Keller	Lab Number: 9607F11-08	Reported: 08/12/96

QC Batch Number: MS0806968260F3A
Instrument ID: F3

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	130	11000

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	93
Toluene-d8	88	110	98
4-Bromofluorobenzene	86	115	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services	Client Proj. ID: Shell Albany, 960723-A1	Sampled: 07/23/96
985 Timothy Drive	Sample Descript: DUP	Received: 07/24/96
San Jose, CA 95133	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/30/96
Attention: Jim Keller	Lab Number: 9607F11-08	Reported: 08/12/96

QC Batch Number: GC073096BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**11000**
Methyl t-Butyl Ether	**250**	**10000**
Benzene	**50**	**2600**
Toluene	**50**	**68**
Ethyl Benzene	**50**	**1000**
Xylenes (Total)	**50**	**96**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Shell, Albany / 960723-A1
Matrix: Liquid
Work Order #: 9607F11 -01-02, 04, 06-08

Reported: Aug 13, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC073096BTEX21A	GC073096BTEX21A	GC073096BTEX21A	GC073096BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9607E2102	9607E2102	9607E2102	9607E2102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/30/96	7/30/96	7/30/96	7/30/96
Analyzed Date:	7/30/96	7/30/96	7/30/96	7/30/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	33
MS % Recovery:	110	110	110	110
Dup. Result:	11	11	11	34
MSD % Recov.:	110	110	110	113
RPD:	0.0	0.0	0.0	3.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK072996	BLK072996	BLK072996	BLK072996
Prepared Date:	7/30/96	7/30/96	7/30/96	7/30/96
Analyzed Date:	7/30/96	7/30/96	7/30/96	7/30/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	11	11	34
LCS % Recov.:	110	110	110	113

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

for Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Shell, Albany / 960723-A1
Matrix: Liquid
Work Order #: 9607F11-03, 05

Reported: Aug 13, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC073096BTEX02A	GC073096BTEX02A	GC073096BTEX02A	GC073096BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	B. Sullivan	B. Sullivan	B. Sullivan	B. Sullivan
MS/MSD #:	9607E2102	9607E2102	9607E2102	9607E2102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/30/96	7/30/96	7/30/96	7/30/96
Analyzed Date:	7/30/96	7/30/96	7/30/96	7/30/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	10	9.9	30
MS % Recovery:	99	100	99	100
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	1.0	0.0	1.0	3.3
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK073096	BLK073096	BLK073096	BLK073096
Prepared Date:	7/30/96	7/30/96	7/30/96	7/30/96
Analyzed Date:	7/30/96	7/30/96	7/30/96	7/30/96
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.4	9.4	9.5	30
LCS % Recov.:	94	94	95	100
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

for Peggy Penner
Project Manager

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Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.	Client Project ID:	Shell, Albany / 960723-A1	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9607F11-08	Reported: Aug 13, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0806968260F3A	MS0806968260F3A	MS0806968260F3A	MS0806968260F3A	MS0806968260F3A
Analy. Method:	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analyst:	L. Zhu	L. Zhu	L. Zhu	L. Zhu	L. Zhu
MS/MSD #:	9608J0201	9608J0201	9608J0201	9608J0201	9608J0201
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	-	-	-	-	-
Analyzed Date:	8/6/96	8/6/96	8/6/96	8/6/96	8/6/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	44	47	47	49	49
MS % Recovery:	88	94	94	98	98
Dup. Result:	46	47	48	47	49
MSD % Recov.:	92	94	96	96	98
RPD:	4.4	0.0	2.1	4.2	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	VDB080796	VDB080796	VDB080796	VDB080796	VDB080796
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
Prepared Date:	-	-	-	-	-
Analyzed Date:	8/7/96	8/7/96	8/7/96	8/7/96	8/7/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	50	48	49	47	49
LCS % Recov.:	100	96	98	94	98
MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

for Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.	Client Project ID:	Shell, Albany / 960723-A1	
985 Timothy Drive	Matrix:	Liquid	
San Jose, CA 95133			
Attention: Jim Keller	Work Order #:	9607F11-08	Reported: Aug 13, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Vinyl Chloride
QC Batch#:	MS0806968260F3A
Analy. Method:	EPA 8260
Prep. Method:	N/A
Analyst:	L. Zhu
MS/MSD #:	9608J0201
Sample Conc.:	N.D.
Prepared Date:	-
Analyzed Date:	8/6/96
Instrument I.D.#:	F3
Conc. Spiked:	50 µg/L
Result:	44
MS % Recovery:	88
Dup. Result:	49
MSD % Recov.:	98
RPD:	11
RPD Limit:	0-25

LCS #:	VDB080796
Analyst:	M. Williams
Prepared Date:	-
Analyzed Date:	8/7/96
Instrument I.D.#:	F3
Conc. Spiked:	50 µg/L
LCS Result:	55
LCS % Recov.:	110

MS/MSD	60-140
LCS	70-130
Control Limits	

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

RI-6

CHAIN OF CUSTODY RECORD
Serial No: 960723-A1

Date: 7-23-96
Page 1 of 1

Site Address: 999 San Pablo Ave., Albany

WIC #: 204-0079-0109

Shell Engineer: 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: Fran Thse
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: RANDY VALENTINE

Printed Name:

Analysis Required: BTS

LAB: CROSBY

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	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	HDM		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-2	7/23			X		6							X						AA78410	
S-7	7/23			X		6							X						AA78411	

CHECK ONE (1) BOX ONLY — C1/D1

Quarterly Monitoring	X	6441
Site Investigation		6441
Soil Closure/Disposal		6442
Water Closure/Disposal		6443
Soil/Air Rem. or Sys. O & M		6452
Water Rem. or Sys. O & M		6453
Other		

TURN AROUND TIME

- 24 hours
- 48 hours
- 15 days X (Normal)
- Other

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Randy Valentine	RANDY VALENTINE	7-23-96	1900				
	HAWN GAIKWAD	7/23/96	19:00				

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

Testing and Data Management Services

1101 Richfield Road ■ Placentia, CA 92870 ■ (714) 572-3270 ■ Fax (714) 572-3274

Analytical Report

LAB RECEIVING #: **9607.138**

COVER SHEET

REPORT DATE: 9/3/96

REPORTED TO: BLAINE TECH SERVICES, INC.
985 TIMOTHY DRIVE
SAN JOSE, CA 95133

ATTN.: MR. FRANCIS THIE

WIC #: 204-0079-0109
PROJECT #: NONE
PROJECT NAME: SHELL - 999 SAN PABLO AVENUE, ALBANY

DATE SAMPLED: 7/23/96
DATE RECEIVED: 7/23/96
 # OF SAMPLES: 2
SAMPLE MATRIX: LIQUID
SAMPLE ID: S-2
S-7

SAMPLE HANDLING & CONTROL STATEMENT

The above mentioned sample(s) were received in appropriate container(s) accompanied by a fully signed and dated chain-of-custody record. The container(s) were assigned unique identification numbers and had sufficient amount for the test requested unless otherwise noted in the accompanying laboratory report. There were no site specific quality control requirements made at the time of sample submittal. Sample(s) submitted did not exceed the holding time of the requested test parameters.

QUALITY CONTROL SUMMARY STATEMENT

Laboratory Quality Control parameters and results of instrument calibration standards were all within control limits and the analytical data hereby submitted falls within acceptable limits of accuracy and precision unless otherwise indicated. Please see the attached Quality Control Data for additional information.

SUBMITTED BY:

Girma Selassie
QA/QC Director

CERTIFICATE OF APPROVED ANALYSIS

The information contained in this cover sheet is an integral part of the attached analytical report.

DOHS Lab Certificate #: 1552
Expiration Date: June 30, 1997

A2LA Certificate #: 0389.01
Expiration Date: September 30, 1996

Testing and Data Management Services

1101 Richfield Road ◘ Placentia, CA 92870 ◘ (714) 572-3270 ◘ Fax (714) 572-3274

Analytical Report

CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. FRANCIS THIE
WIC #: 204-0079-0109
PROJECT #: NONE
PROJECT NAME: SHELL - 999 SAN PABLO AVENUE, ALBANY

Spl. Prep. Meth.: EPA 5030

LAB RECEIVING#: 9607.138

MATRIX: LIQUID

Prepared:	7/25/96
Analyzed:	8/6/96
Analyst:	CM/AR

Lab ID: AA78411
Client Sample ID: S-7

ENUMERATION OF BTEX DEGRADERS

BTEX Components	Initial Sample Conc. (µg/l)	SAMPLE DILUTIONS 10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}
Benzene	ND	270	310	460	400	450	510
Toulene	ND	1.5	ND	ND	390	460	510
Ethyl Benzene	ND	170	260	390	380	450	500
P,M-Xylene	ND	ND	ND	ND	730	920	1000
O-Xylene	ND	280	270	430	400	480	520
Estimated BTEX Degrading Units, (BDU units/l)		10^{0}					

Testing and Data Management Services

1101 Richfield Road ◘ Placentia, CA 92870 ◘ (714) 572-3270 ◘ Fax (714) 572-3274

Analytical Report

CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. FRANCIS THIE
WIC #: 204-0079-0109
PROJECT #: NONE
PROJECT NAME: SHELL - 999 SAN PABLO AVENUE, ALBANY

Spl. Prep. Meth.: EPA 5030

LAB RECEIVING#: 9607.13B

MATRIX: LIQUID

Prepared:	7/25/96
Analyzed:	8/6/96
Analyst:	CM/AR

Lab ID: AA78410
Client Sample ID: S-2

ENUMERATION OF BTEX DEGRADERS

BTEX Components	Initial Sample Conc. (µg/l)	SAMPLE DILUTIONS 10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}
Benzene	2100	ND	28	ND	1.9	ND	520
Toulene	43	2.3	ND	ND	ND	ND	520
Ethyl Benzene	680	ND	ND	ND	ND	ND	510
P,M-Xylene	91	2.8	ND	ND	ND	ND	1000
O-Xylene	ND	140	9.5	ND	21	ND	530
Estimated BTEX Degrading Units, (BDU units/l)		*10^5*					

WELL GAUGING DATA

Project # 960723-A1 Date 7-23-96 Client SHELL 2040079 0109

Site 999 San Pablo Ave., Albany, CA

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
S-1	3					7.92	11.70	TOB
S-2	3					8.10	12.07	
S-3	3					7.04	12.14	
S-4	3					8.18	14.10	
S-5	3	FP	9.78	0.04	—	9.82	—	
S-6	3					5.40	15.14	
S7	3					10.15	15.00	

SHELL WELL MONITORING DATA SHEET

Project #: 960723-A1	WIC #: 204 0079 0109
Sampler: W	Date: 7-23-96
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 11.70	Depth to Water: 7.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: Bailer✓ Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer✓ Extraction Port / Other: ____

1.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
911	66.4	6.6	500	17	1.5	
913	67.8	6.7	500	30	3.0	
915	68.0	6.7	500	27	4.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 4.5
Sampling Time: 920	Sampling Date: 7-23-96
Sample I.D.: S-1	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ____ mg/L	Post-purge: 2.7 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 960723-A1	WIC #: 204 0079 0109
Sampler: RV	Date: 7-23-96
Well I.D.: S-2	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 12.07	Depth to Water: 8.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: ___

Sampling Method: Bailer, Extraction Port, Other: ___

1.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1000	71.0	6.8	1000	29	1.5	
1003	69.8	6.8	1000	40	3.0	
1006	69.6	6.8	1000	47	4.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 4.5
Sampling Time: 1010	Sampling Date: 7-23-96
Sample I.D.: S-2	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: DUP
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other:
D.O. (if req'd): Pre-purge: ___ mg/L	Post-purge: 2.2 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 960723-Q1	WIC #: 204007901 09
Sampler: RW	Date: 7-23-96
Well I.D.: S-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth: 12.14	Depth to Water: 7.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: (Bailer) Middleburg Electric Submersible Extraction Pump Other: ___

Sampling Method: (Bailer) Extraction Port Other: ___

1.8 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
929	70.8	6.8	710	57	2	SHEEN
933	68.8	6.8	700	60	4	~~DO~~
937	69.0	6.8	700	70	5.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 5.5
Sampling Time: 940	Sampling Date: 7-23-96
Sample I.D.: S-3	Laboratory: (Sequoia) Crosby
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: ___ mg/L	Post-purge: 2.1 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 960723-A1	Wic #: 204 0079 0109
Sampler: RV	Start Date: 7-23-96
Well I.D.: S-4	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before 14.10 After	Depth to Water: Before 8.18 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: PVC (Grade) Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1 Case Volume	x	Specified Volumes	=	gallons
2.2	x	3	=	6.6

Purging: Bailer ✓
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer ✓
Disposable Bailer
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
837	69.4	8.0	530	32	2.5	DO 3.8 mg/L
839	68.0	7.4	520	39	5.0	
843	68.2	7.3	510	29	7.0	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 7.0

Sampling Time: 845 Sampling Date: 7-23-96

Sample I.D.: S-4 Laboratory:

Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER: MTBE

Duplicate I.D.: Cleaning Blank I.D.: EB @ 848

Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:

SHELL WELL MONITORING DATA SHEET

Project #: 960723-A1	WIC #: 204 0079 0109
Sampler: RW	Date: 7-23-96
Well I.D.: S-6	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth: 15.14	Depth to Water: 5.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC (Grade)	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ____

Sampling Method: Bailer ✓ / Extraction Port / Other: ____

3.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 10.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
947	72.2	6.8	560	7200	4	SHEEN
948	70.6	6.8	570	7200	8	
949	70.4	6.8	570	7200	11	

Did well dewater? Yes (No) Gallons actually evacuated: 11

Sampling Time: 953 Sampling Date: 7-23-96

Sample I.D.: S-6 Laboratory: (Sequoia) Crosby

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: ____ mg/L Post-purge: 1.4 mg/L

SHELL WELL MONITORING DATA SHEET

Project #: 960723-A1	Wic #: 204 0079 0109
Sampler: M	Start Date: 7-23-96
Well I.D.: S-7	Well Diameter: (circle one) 2 (3) 4 6 ___
Total Well Depth: Before 15.00 After	Depth to Water: Before 10.18 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: PVC (Grade) Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

1.8	x	3	=	5.4
1 Case Volume		Specified Volumes		gallons

Purging: Bailer ✓
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other_____

Sampling: Bailer ✓
Disposable Bailer
Extraction Port
Other_____

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
853	69.4	6.6	490	42	2	DO 3.7 mg/L
857	68.4	6.7	500	60	4	
900	68.6	6.7	500	79	5.5	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 5.5

Sampling Time: 905 Sampling Date: 7-23-96

Sample I.D.: S-7 Laboratory: SEQ

Analyzed for: (Circle) TPH-G (BTEX) TPH-D OTHER: MTBE

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:

WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client SHELL Site # 204 0079 0109 Inspection date: 7-23-96

Site address 999 SAN PABLO Inspected by: P

ALBANY BTS Event # 960723-A1

1. Lid on the box? Yes No	5. Water standing in the well box?	7. Can cap be pulled loose?
2. Lid whole?	5a. Standing above well top?	8. Can cap seal out water?
3. Lid secure?	5b. Standing below well top?	9. Padlock present?
4. Lid seal intact?	5c. Water even with top of well cap?	10. Padlock found locked?
	6. Well cap/plug present?	11. Padlock functional?

☑ Check box if *no deficiences* were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken

Note below all deficiences that could not be corrected and *still need to be corrected.*

Well I.D.	Persisting Deficiency

BTS Office assigns or defers Correction to:	Date assigned	Date corrected

Office review and assignments made by _____ date _____