



DH

ENVIRONMENTAL
PROTECTION
00 JUL 19 AM 9: 59

BP Amoco Oil Corporation
295 SW 41st Street
Bldg 13, Suite N
Renton, WA 98055
206-251-0889
425-251-0736 FAX

5710 1108

July 12, 2000

Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, STE 250
Alameda, CA 94502-6577

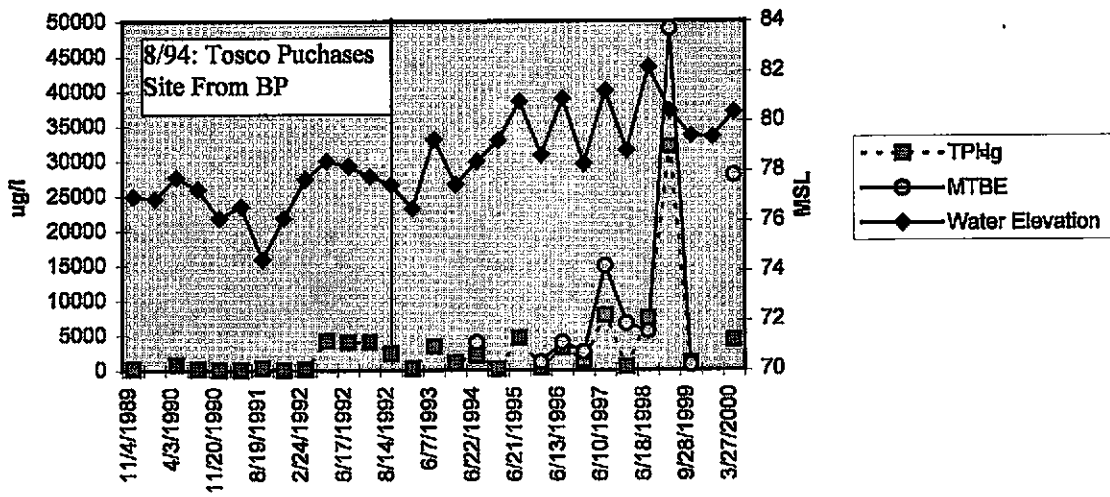
RE: Former BP Oil Site No. 11102
100 McArthur Boulevard (at Oakland)
Oakland, CA

Dear Ladies and Gentlemen:

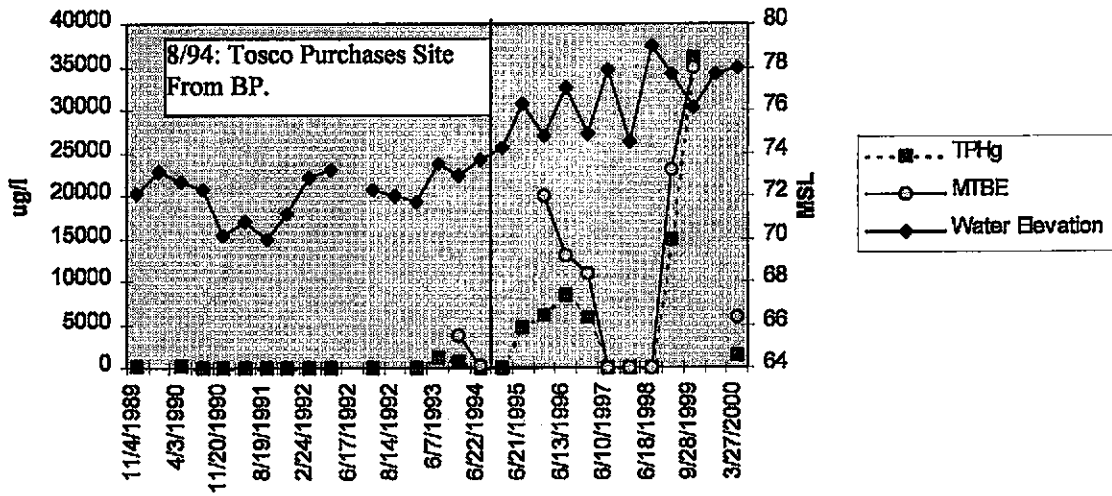
This transmits the May 15, 2000 *First Quarter 2000 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP. The report summarizes chemical data obtained since 1989, including results for samples recently obtained on 27 March 2000.

The report shows that aromatic hydrocarbons were detected in a sample obtained from MW-1; MTBE was also detected in samples obtained from wells MW-1 (28,000 µg/l by Method 8020 and 26,000 µg/l by Method 8260) and MW-2 (5,800 µg/l by Method 8020 and 6,000 µg/l by Method 8260). MTBE, TPHg and water elevation data for these wells is shown on the following graphs.

MW-1 TPHg, MTBE & Water Elevation



MW-2 TPHg, MTBE & Water Elevation



Please give me a call at (425) 251-0689 if you have any questions or comments.

Sincerely,


Scott Hooton

attachment

cc: site file
David Camille - Tosco (w/attachment)

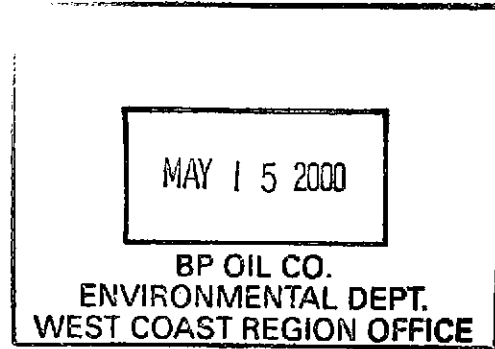
BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
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May 15, 2000

Scott Hooton
BP Oil Company
295 SW 41st Street, Bldg. 13, Suite N
Renton, WA 98055-4931



1st Quarter 2000 Monitoring at 11102

First Quarter 2000 Groundwater Monitoring
BP Service Station Number 11102
100 MacArthur Blvd.
Oakland, CA

Monitoring Performed on March 27, 2000

Groundwater Sampling Report 000327-N-1

This report covers the routine monitoring of groundwater wells at this BP facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, the appropriate calculated purge volume, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Seaport Petroleum Corporation for disposal.

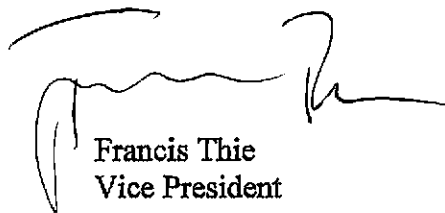
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix** contains a **Groundwater Elevation Map** and a **Dissolved Petroleum Hydrocarbon Concentration Map**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

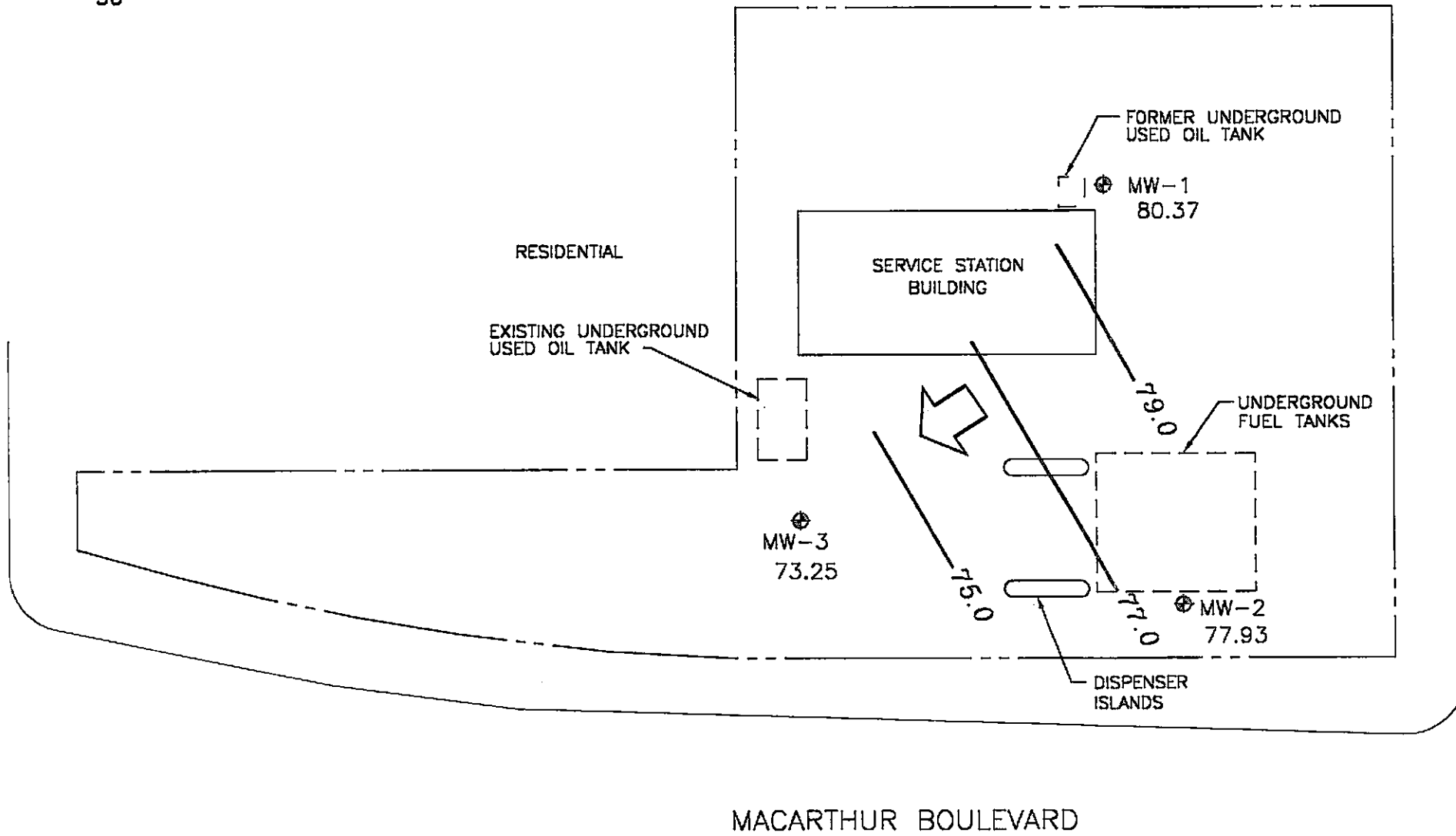
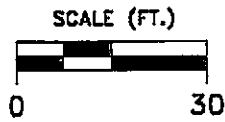


Francis Thie
Vice President

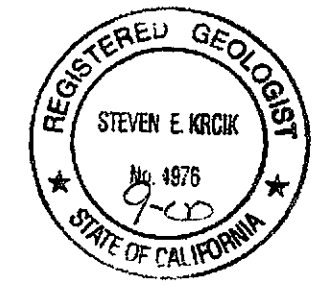
FPT/cm

attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix

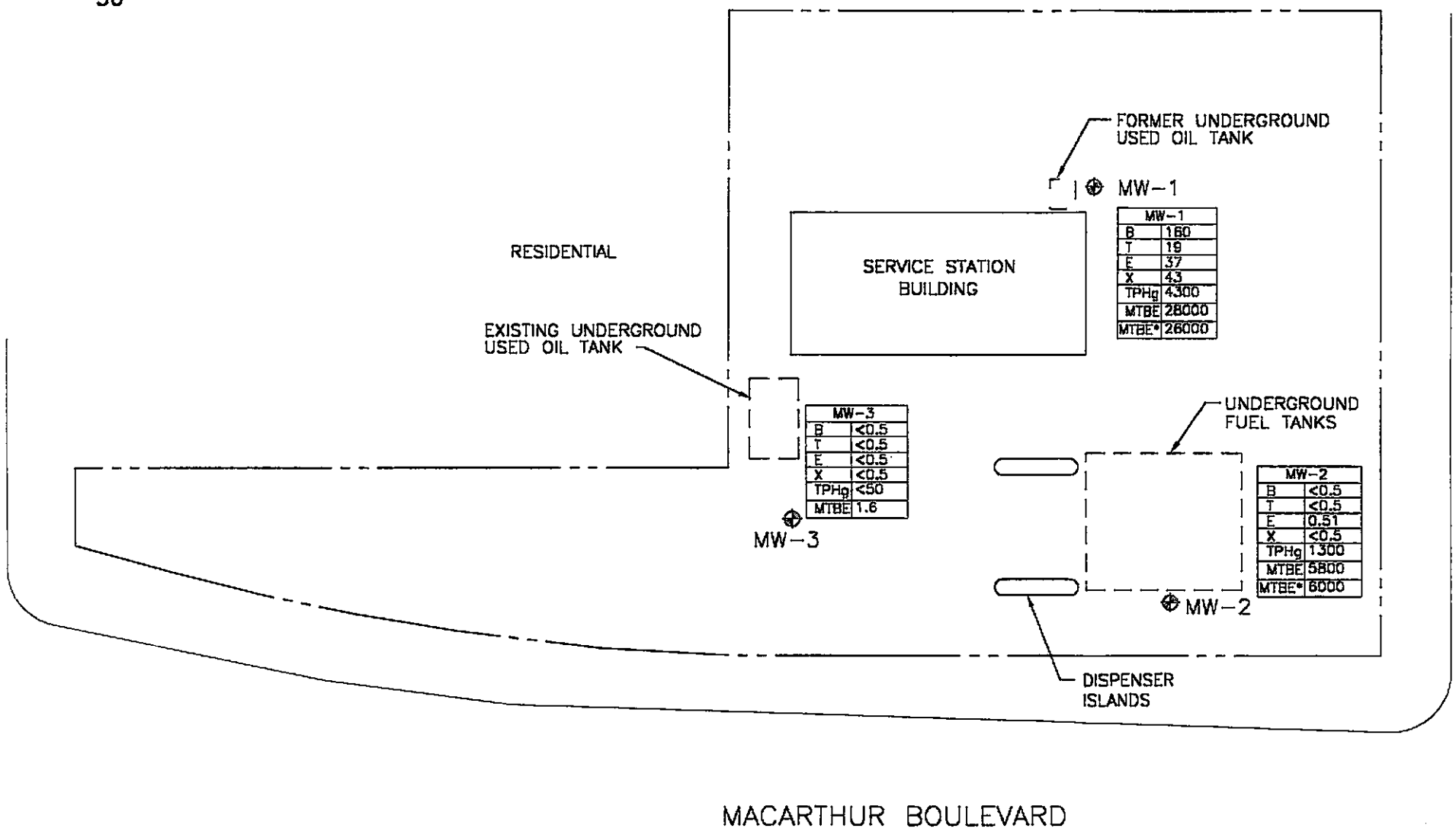
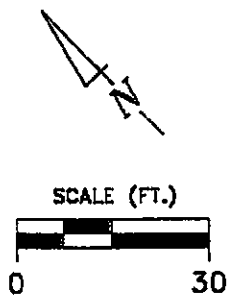


- EXPLANATION**
- ⊕ GROUNDWATER MONITORING WELL
 - 80.37 GROUNDWATER ELEVATION (FT, MSL)
 - 77.0 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.08



Ref. 11102bm.dwg
Bosernop from Aista Engineering Group

PREPARED BY 	GROUNDWATER ELEVATION CONTOUR MAP, MARCH 27, 2000	FIGURE: 1 PROJECT: DAC04
	BP Oil Service Station No. 1102 100 MacArthur Boulevard Oakland, California	



- EXPLANATION**
- ⊕ GROUNDWATER MONITORING WELL
 - TPHg TOTAL PETROLEUM HYDROCARBON CALCULATED AS GASOLINE IN PARTS PER BILLION (ppb)
 - B BENZENE, ppb
 - T TOLUENE, ppb
 - E ETHYLBENZENE, ppb
 - X XYLENE, ppb
 - MTBE METHYL-TERT-BUTYL-ETHER, ppb
 - MTBE* MTBE BY EPA 8260

MW-1

B	180
T	19
E	37
X	43
TPHg	4300
MTBE	28000
MTBE*	26000

MW-3

B	<0.5
T	<0.5
E	<0.5
X	<0.5
TPHg	<50
MTBE	1.6

MW-2

B	<0.5
T	<0.5
E	0.51
X	<0.5
TPHg	1300
MTBE	5800
MTBE*	6000

Table of Well Data and Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-1	11/04/89	90.20	13.21	76.99	ND<500	ND<50	3.4	0.6	ND<0.3	ND<0.3	---	ND<5000	---	0.9	---	---	SAL
MW-1	11/11/89	90.20	13.32	76.88	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	04/03/90	90.20	12.46	77.74	820	---	64	1.9	23	34	---	---	---	---	---	---	ANA
MW-1	07/30/90	90.20	12.92	77.28	190	ND<50	11	ND<5.0	ND<5.0	ND<5.0	---	ND<5000	---	ND	---	---	ANA
MW-1	11/20/90	90.20	14.08	76.12	50	79	2.4	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	4.0	---	---	SAL
MW-1	03/01/91	90.20	13.61	76.59	ND<100	ND<1000	0.9	ND<0.3	ND<0.3	0.3	---	14000	---	ND	---	---	SAL
MW-1	08/19/91	90.20	15.74	74.46	370	ND<50	35	0.73	6.4	5.6	---	ND<5000	---	1.4	---	---	SEQ
MW-1	11/13/91	90.20	14.08	76.12	60	ND<50	0.68	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	1.0	---	---	SEQ
MW-1	02/24/92	90.20	12.52	77.68	140	100	3.9	0.66	1.2	3.8	---	ND<5000	---	1.7	---	---	SEQ
MW-1	05/19/92	90.20	11.8	78.40	4200	910	440	21	250	37	---	ND<5000	---	ND	---	---	SEQ
MW-1	06/17/92	90.20	12.01	78.19	4000	560	350	14	150	17	---	ND<5000	---	ND	---	---	SEQ
MW-1	07/22/92	90.20	12.42	77.78	4000	---	ND<5.0	19	210	61	---	---	---	---	---	---	ANA
MW-1	08/14/92	90.20	12.75	77.45	2400	1700	330	20	150	47	---	ND<5000	---	ND<2.5	---	---	SEQ
MW-1	11/11/92	90.20	13.69	76.51	260	92	30	3.4	7.6	6.8	---	ND<5000	---	ND<2.5	---	---	ANA
MW-1	06/07/93	90.20	10.93	79.27	3400	440	98	11	21	7.6	---	---	6.2	0.9	---	---	PACE
QC-1 (c)	06/07/93	---	---	---	3700	---	120	12	26	9.5	---	---	---	---	---	---	PACE
MW-1	12/02/93	90.20	12.72	77.48	1100	120	8.3	3.6	0.6	1.5	---	ND<5000	2.6	1.8	---	---	PACE
MW-1	06/22/94	90.20	11.81	78.39	2100	ND<50	32	3.8	2.2	17	4000 (d)	ND<5000	2.3	3.3	---	3.2	PACE
QC-1 (c)	06/22/94	---	---	---	2100	---	30	3.2	2.0	15	2000 (d)	---	---	---	---	---	PACE
MW-1	01/10/95	90.20	10.97	79.23	ND<500	420	120	ND<5	ND<5	ND<10	---	---	ND<1	1	---	3.9	ATI
QC-1 (c)	01/10/95	---	---	---	ND<500	---	120	ND<5	5	ND<10	---	---	---	---	---	---	ATI
MW-1	06/21/95	90.20	9.38	80.82	4700	1300	16	ND<5.0	ND<5.0	ND<10	---	2900	2.0	0.38	0.6 (e)	6.7	ATI
QC-1 (c)	06/21/95	---	---	---	3600	---	ND<13	ND<5.0	ND<5.0	ND<10	---	---	---	---	---	---	ATI
MW-1	12/27/95	90.20	11.55	78.65	430	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1200	640	0.67	ND<0.20	---	6.3	ATI
MW-1	06/13/96	90.20	9.28	80.92	3200	920	51	ND<12	ND<12	ND<12	4000	2000	---	---	---	6.3	SPL
MW-1	12/04/96	90.20	11.91	78.29	1400	280	6.2	ND<5	ND<5	ND<5	2600	2000	ND<5.0	ND<5.0	6.0 (f)	6.7	SPL
MW-1	06/10/97	90.20	8.97	81.23	7900	1700	12	ND<10	ND<10	ND<10	15000	ND<5	ND<250	ND<250	ND	6.0	SPL
QC-1 (c)	06/10/97	---	---	---	7700	---	14	ND<25	ND<25	ND<25	13000	---	---	---	---	---	SPL
MW-1	12/12/97	90.20	11.37	78.83	440	760	8.8	ND<1.0	2.6	9.4	6700	1200	ND<1.0	ND<1.0	ND	5.5	SPL
MW-1	06/18/98	90.20	8.02	82.18	7500	2900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	5600	ND<5	ND<5.0	ND<5.0	ND	4.9	SPL
MW-1	03/09/99	90.20	9.80	80.40	32000	---	100	16	72	110	49000	---	---	---	---	---	SPL
MW-1	09/28/99	90.20	10.78	79.42	1000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	730	---	ND<1.0	ND<1.0	ND<1.0	---	SPL
MW-1	10/14/99	90.20	10.84	79.36	---	660	---	---	---	---	---	---	---	---	---	---	SPL
MW-1	03/27/00	90.20	9.83	80.37	4300 (h)	---	160	19	37	43	28000	---	---	ND<500	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-2	11/04/89	87.91	15.84	72.07	ND<500	---	6.5	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	11/11/89	87.91	14.75	73.16	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/03/90	87.91	15.25	72.66	ND<500	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	07/30/90	87.91	15.59	72.32	61	---	6.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	11/20/90	87.91	17.81	70.10	ND<50	---	0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	03/01/91	87.91	17.11	70.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	---	4.0	---	---	SAL
MW-2	08/19/91	87.91	17.97	69.94	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	11/13/91	87.91	16.76	71.15	38	---	0.32	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	02/24/92	87.91	15.07	72.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.58	---	---	---	16	---	---	SEQ
MW-2	05/19/92	87.91	14.7	73.21	ND<50	---	0.55	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-2	07/22/92	87.91	15.6	72.31	90	---	1.3	0.6	0.9	1.9	---	---	---	---	---	---	ANA
MW-2	08/14/92	87.91	15.88	72.03	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/11/92	87.91	16.19	71.72	52	---	2.8	ND<0.5	ND<0.5	0.9	---	---	---	---	---	---	ANA
QC-1 (c)	11/11/92	---	---	---	65	---	3.2	ND<0.5	ND<0.5	1.0	---	---	---	---	---	---	ANA
MW-2	06/07/93	87.91	14.42	73.49	1200	---	14	2.8	1.9	1.7	---	---	---	---	---	---	PACE
MW-2	12/02/93	87.91	14.94	72.97	790	---	3.4	0.5	10	ND<0.5	3700 (d)	---	---	---	---	---	PACE
QC-1 (c)	12/02/93	---	---	---	2100	---	32	3.8	2.2	17	3700 (d)	---	2.3	---	---	---	PACE
MW-2	06/22/94	87.91	14.25	73.66	110	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120 (d)	---	---	---	---	3.9	PACE
MW-2	01/10/95	87.91	13.64	74.27	ND<50	---	ND<0.5	ND<0.5	0.6	1	---	---	---	---	---	4.3	ATI
MW-2	06/21/95	87.91	11.66	76.25	4700	---	ND<10	ND<10	ND<10	ND<20	---	---	---	---	---	7.8	ATI
MW-2	12/27/95	87.91	13.11	74.80	6100	---	ND<25	ND<25	ND<25	ND<50	20000	---	---	---	---	6.7	ATI
QC-1 (c)	12/27/95	---	---	---	6300	---	ND<25	ND<25	ND<25	ND<50	19000	---	---	---	---	---	ATI
MW-2	06/13/96	87.91	10.86	77.05	8300	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	13000	---	---	---	---	6.5	SPL
QC-1 (c)	06/13/96	---	---	---	8700	---	ND<5	ND<5	ND<5	ND<5	13000	---	---	---	---	---	SPL
MW-2	12/04/96	87.91	13.03	74.88	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	6.3	SPL
QC-1 (c)	12/04/96	---	---	---	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	---	SPL
MW-2	06/10/97	87.91	10.04	77.87	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.8	SPL
MW-2	12/12/97	87.91	12.44	75.47	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.7	SPL
MW-2	06/18/98	87.91	8.89	79.02	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.3	SPL
QC-1 (c)	06/18/98	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	SPL
MW-2	03/09/99	87.91	10.20	77.71	15000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	23000	---	---	---	---	---	SPL
MW-2	09/28/99	87.91	11.81	76.10	36000	---	ND<5.0	12	7.0	26	35000	---	ND<5.0	7.7	ND<5.0	---	SPL
MW-2	10/14/99	87.91	10.27	77.64	---	100	---	---	---	---	---	---	---	---	---	---	SPL
MW-2	03/27/00	87.91	9.98	77.93	1300 (h)	---	ND<0.5	ND<0.5	0.51	ND<0.5	5800	---	---	ND<100	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-3	11/04/89	87.02	15.4	71.62	ND<500	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-3	11/11/89	87.02	14.1	72.92	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/03/90	87.02	13.90	73.12	ND<100	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-3	07/30/90	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	---	---	---	---	ANA
MW-3	11/20/90	87.02	14.67	72.35	ND<50	---	0.3	0.8	0.4	1.5	---	---	---	---	---	---	SAL
MW-3	03/01/91	87.02	15.22	71.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	---	ND	---	---	SAL
MW-3	08/19/91	87.02	13.15	73.87	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	11/13/91	87.02	15.66	71.36	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	02/24/92	87.02	15.01	72.01	ND<50	---	0.65	1.4	0.66	4.4	---	---	---	ND	---	---	SEQ
MW-3	05/19/92	87.02	15.52	71.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-3	07/22/92	87.02	15.63	71.39	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	---	ND<0.50	---	---	ANA
MW-3	08/14/92	87.02	13.57	73.45	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/11/92	87.02	14.13	72.89	ND<50	---	ND<0.5	0.7	ND<0.5	1.3	---	---	---	---	---	---	ANA
MW-3	06/07/93	87.02	12.13	74.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	12/02/93	87.02	13.29	73.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	06/22/94	87.02	12.78	74.24	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	2.9 PACE
MW-3	01/10/95	87.02	12.01	75.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	1	---	---	3.8 ATI
MW-3	06/21/95	87.02	11.57	75.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	7.4 ATI
MW-3	12/27/95	87.02	13.47	73.55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.7	---	---	---	---	---	7.3 ATI
MW-3	06/13/96	87.02	11.22	75.80	60	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	---	---	6.8 SPL
MW-3	12/04/96	87.02	13.28	73.74	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	---	---	6.7 SPL
MW-3	06/10/97	87.02	10.22	76.80	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	6.1 SPL
MW-3	12/12/97	87.02	12.61	74.41	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	5.6 SPL
QC-1 (c)	12/12/97	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	SPL
MW-3	06/18/98	87.02	9.07	77.95	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	5.3 SPL
MW-3	06/18/98	87.02	12.80	74.22	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/28/99	87.02	13.76	73.26	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/27/00	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	---	---	PACE
QC-2 (g)	11/11/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
QC-2 (g)	06/07/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (g)	12/02/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (g)	06/22/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2 (g)	01/10/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	---	ATI
QC-2 (g)	06/21/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	ATI
QC-2 (g)	12/27/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	---	ATI
QC-2 (g)	06/13/96	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

ADDITIONAL ANALYSES

Well ID	DATE OF SAMPLING/ MONITORING	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	1,2-DBA (ug/l)
MW-1	03/27/00	26000	ND<500	ND<500	ND<500	ND<500
MW-2	03/27/00	6000	ND<100	ND<100	190	ND<100

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline	(a)	Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
TPH-D	Total petroleum hydrocarbons as diesel	(b)	Groundwater elevations in feet above mean sea level.
B	Benzene	(c)	Blind duplicate.
T	Toluene	(d)	A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.
E	Ethylbenzene	(e)	Tetrachloroethene.
X	Total xylenes	(f)	Trans-1,2-Dichloroethene
TOG	Total oil and grease	(g)	Travel blank.
1,1-DCA	1,1-Dichloroethane	(h)	Concentration of MTBE in the calculation of TPH-g is an estimate only.
1,2-DCA	1,2-Dichloroethane		
1,2-DBA	1,2-Dibromoethane		
HVOC's	Halogenated volatile organic compounds		
MTBE	Methyl tert butyl ether		
DIPE	Di-Isopropyl Ether		
ETBE	Ethyl t-Butyl Ether		
TAME	t-Amyl Methyl Ether		
DO	Dissolved oxygen		
ug/l	Micrograms per liter		
ppm	Parts per million		
ND	Not detected above reported detection limit		
---	Not analyzed/measured/applicable		
SAL	Superior Analytical Laboratory		
ANA	Anametrix, Inc.		
SEQ	Sequoia Analytical Laboratory		
PACE	Pace, Inc.		
ATI	Analytical Technologies, Inc.		
SPL	Southern Petroleum Laboratories		

Analytical Appendix



Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

April 07, 2000

Mr. MORGAN HARGRAVE
BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

RE: Pace Project Number: 6039617
Client Project ID: BP 11102

Dear Mr. HARGRAVE:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 29, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati
Project Manager

Enclosures

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DATE: 04/07/00
 PAGE: 1

BLAINE TECH SERVICES, INC.
 1680 ROGERS AVE.
 SAN JOSE, CA 95112

Pace Project Number: 6039617
 Client Project ID: BP 11102

Attn: Mr. MORGAN HARGRAVE
 Phone: (408)573-0555 x218

Solid results are reported on a wet weight basis

Pace Sample No: 603345588 Date Collected: 03/27/00 Matrix: Water
 Client Sample ID: A Date Received: 03/29/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
GAS BTEX by 8015, Water Method: EPA 8015/8020 Modif Prep Method: EPA 8015/8020 Modif							
Gasoline	ND	ug/l	50	04/04/00	VN		
Benzene	ND	ug/l	0.5	04/04/00	VN	71-43-2	
Toluene	ND	ug/l	0.5	04/04/00	VN	108-88-3	
Ethylbenzene	ND	ug/l	0.5	04/04/00	VN	100-41-4	
Methyl-tert-butyl Ether	1.6	ug/l	0.5	04/04/00	VN	1634-04-4	
Xylene (Total)	ND	ug/l	0.5	04/04/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%		04/04/00	VN	2164-17-2	

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DATE: 04/07/00
 PAGE: 2

Pace Project Number: 6039617
 Client Project ID: BP 11102

Pace Sample No: 603345596 Date Collected: 03/27/00 Matrix: Water
 Client Sample ID: B Date Received: 03/29/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

Long Beach Laboratory

GAS BTEX by 8015, Water		Method: EPA 8015/8020 Modif			Prep Method: EPA 8015/8020 Modif		
Gasoline	4300	ug/l	50	03/31/00	VN		1
Benzene	160	ug/l	0.5	03/31/00	VN	71-43-2	
Toluene	19	ug/l	0.5	03/31/00	VN	108-88-3	
Ethylbenzene	37	ug/l	0.5	03/31/00	VN	100-41-4	
Methyl-tert-butyl Ether	28000	ug/l	75	03/31/00	VN	1634-04-4	
Xylene (Total)	43	ug/l	0.5	03/31/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	169	%		03/31/00	VN	2164-17-2	2

GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260		
1,2-Dichloroethane	ND	ug/l	500	04/06/00	RG	107-06-2	
1,2-Dibromoethane	ND	ug/l	500	04/06/00	RG	106-93-4	
Methyl-tert-butyl Ether	26000	ug/l	500	04/06/00	RG	1634-04-4	
Diisopropyl ether (DIPE)	ND	ug/l	500	04/06/00	RG	108-20-3	
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	500	04/06/00	RG	637-92-3	
tert-Amyl Methyl ether(TAME)	ND	ug/l	500	04/06/00	RG	994-05-8	
Dibromofluoromethane (S)	98	%		04/06/00	RG	1868-53-7	
Toluene-d8 (S)	103	%		04/06/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	107	%		04/06/00	RG	460-00-4	

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DATE: 04/07/00
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Pace Project Number: 6039617
 Client Project ID: BP 11102

Pace Sample No: 603345604 Date Collected: 03/27/00 Matrix: Water
 Client Sample ID: C Date Received: 03/29/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
GAS BTEX by 8015, Water Method: EPA 8015/8020 Modif Prep Method: EPA 8015/8020 Modif							
Gasoline	1300	ug/l	50	03/31/00	VN		1,3
Benzene	ND	ug/l	0.5	03/31/00	VN	71-43-2	
Toluene	ND	ug/l	0.5	03/31/00	VN	108-88-3	
Ethylbenzene	0.51	ug/l	0.5	03/31/00	VN	100-41-4	
Methyl-tert-butyl Ether	5800	ug/l	75	03/31/00	VN	1634-04-4	
Xylene (Total)	ND	ug/l	0.5	03/31/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	96	%		03/31/00	VN	2164-17-2	

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
GC/MS VOCs by 8260 Method: EPA 8260 Prep Method: EPA 8260							
1,2-Dichloroethane	ND	ug/l	100	04/06/00	RG	107-06-2	
1,2-Dibromoethane	ND	ug/l	100	04/06/00	RG	106-93-4	
Methyl-tert-butyl Ether	6000	ug/l	100	04/06/00	RG	1634-04-4	
Diisopropyl ether (DIPE)	ND	ug/l	100	04/06/00	RG	108-20-3	
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	100	04/06/00	RG	637-92-3	
tert-Amyl Methyl ether(TAME)	190	ug/l	100	04/06/00	RG	994-05-8	
Dibromofluoromethane (S)	100	%		04/06/00	RG	1868-53-7	
Toluene-d8 (S)	104	%		04/06/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	104	%		04/06/00	RG	460-00-4	

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DATE: 04/07/00

PAGE: 4

Pace Project Number: 6039617
Client Project ID: BP 11102

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Concentration of MTBE in the calculation of TPH-G is an estimate only.
[2] Matrix Effect
[3] Sample does not fit gasoline profile

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QUALITY CONTROL DATA

DATE: 04/07/00
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BLAINE TECH SERVICES, INC.
 1680 ROGERS AVE.
 SAN JOSE, CA 95112

Pace Project Number: 6039617
 Client Project ID: BP 11102

Attn: Mr. MORGAN HARGRAVE
 Phone: (408)573-0555 x218

QC Batch ID: 80493 QC Batch Method: EPA 8015/8020 Modif
 Analysis Method: EPA 8015/8020 Modif Analysis Description: GAS BTEX by 8015, Water
 Associated Pace Samples: 603345596 603345604

METHOD BLANK: 603352378
 Associated Pace Samples:

Parameter	Units	603345596	603345604	PRL	Footnotes
			Method Blank Result		
Gasoline	ug/l		ND	12	
Benzene	ug/l		ND	0.05	
Toluene	ug/l		ND	0.05	
Ethylbenzene	ug/l		ND	0.05	
Methyl-tert-butyl Ether	ug/l		ND	0.05	
Xylene (Total)	ug/l		ND	0.05	
a,a,a-Trifluorotoluene (S)	%		95		

LABORATORY CONTROL SAMPLE & LCSD: 603352386 603352394

Parameter	Units	603352386		603352394		Spike		Footnotes
		Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Dup % Rec	RPD	
Gasoline	ug/l	40	41.30	103	39.80	99.5	3	
Benzene	ug/l	6.667	6.760	101	6.470	97.1	4	
Toluene	ug/l	6.667	7.000	105	6.720	101	4	
Ethylbenzene	ug/l	6.667	7.060	106	6.740	101	5	
Methyl-tert-butyl Ether	ug/l	6.667	6.300	94.5	6.630	99.5	5	
a,a,a-Trifluorotoluene (S)				98		97		

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QUALITY CONTROL DATA

DATE: 04/07/00
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BLAINE TECH SERVICES, INC.
 1680 ROGERS AVE.
 SAN JOSE, CA 95112

Pace Project Number: 6039617
 Client Project ID: BP 11102

Attn: Mr. MORGAN HARGRAVE
 Phone: (408)573-0555 x218

QC Batch ID: 80744
 Analysis Method: EPA 8015/8020 Modif
 Associated Pace Samples: 603345588

QC Batch Method: EPA 8015/8020 Modif
 Analysis Description: GAS BTEX by 8015, Water

METHOD BLANK: 603362377
 Associated Pace Samples:

603345588

Parameter	Units	Method Blank Result	PRL	Footnotes
Gasoline	ug/l	ND	12	
Benzene	ug/l	ND	0.05	
Toluene	ug/l	ND	0.05	
Ethylbenzene	ug/l	ND	0.05	
Methyl-tert-butyl Ether	ug/l	ND	0.05	
Xylene (Total)	ug/l	ND	0.05	
a.a.a-Trifluorotoluene (S)	%	98		

LABORATORY CONTROL SAMPLE & LCSD: 603362385

603362393

Parameter	Units	Spike		LCSD		Spike		Footnotes
		Conc.	Result	% Rec	Result	% Rec	RPD	
Gasoline	ug/l	40	45.40	114	44.80	112	2	
Benzene	ug/l	6.667	6.800	102	6.880	103	1	
Toluene	ug/l	6.667	7.020	105	7.010	105	0	
Ethylbenzene	ug/l	6.667	7.180	108	7.180	108	0	
Methyl-tert-butyl Ether	ug/l	6.667	6.640	99.6	7.000	105	5	
a.a.a-Trifluorotoluene (S)				82		90		

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QUALITY CONTROL DATA

DATE: 04/07/00

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BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6039617
Client Project ID: BP 11102

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 80835 QC Batch Method: EPA 8260
Analysis Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Pace Samples: 603345596 603345604

METHOD BLANK: 603370198

Associated Pace Samples:

603345596 603345604

Parameter	Units	Method Blank Result	PRL	Footnotes
1,2-Dichloroethane	ug/l	ND	1	
1,2-Dibromoethane	ug/l	ND	1	
Methyl-tert-butyl Ether	ug/l	ND	1	
Diisopropyl ether (DIPE)	ug/l	ND	1	
Ethyl-tert-butyl ether(ETBE)	ug/l	ND	1	
tert-Amyl Methyl ether(TAME)	ug/l	ND	1	
Dibromofluoromethane (S)	%	101		
Toluene-d8 (S)	%	106		
4-Bromofluorobenzene (S)	%	104		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603368119 603368127

Parameter	Units	603365958 Conc.	Matrix Spike Result	Matrix Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Dibromofluoromethane (S)				99		98		
Toluene-d8 (S)				103		103		
4-Bromofluorobenzene (S)				93		95		

LABORATORY CONTROL SAMPLE: 603368101

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Dibromofluoromethane (S)				98	

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QUALITY CONTROL DATA

DATE: 04/07/00

PAGE: 8

Pace Project Number: 6039617

Client Project ID: BP 11102

LABORATORY CONTROL SAMPLE: 603368101

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Toluene-d8 (S)				102	
4-Bromofluorobenzene (S)				95	

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Pace Project Number: 6039617

Client Project ID: BP 11102

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate

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CHAIN OF CUSTODY

16205A

6029617

CONSULTANT'S NAME Blaine Tech Services, Inc.		CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose CA 95112		CONSULTANT PROJECT NUMBER
BP SITE NUMBER 11102	BP SITE / FACILITY ADDRESS 100 MacArthur Blvd., Oakland			CONSULTANT CONTRACT NUMBER
CONSULTANT PROJECT MANAGER Morgan Hargrave		PHONE NUMBER (408) 573-0555 x 218	FAX NUMBER (408) 573-7771	FAX NO. (425) 251-0736
BP CONTACT Scott Hooton		BP ADDRESS 295 SW 41st Street, Suite N, Renton WA	PHONE NUMBER (425) 251-0689	FAX NO. (562) 597-0786
LAB CONTACT Pace - Lily Bayati		LABORATORY ADDRESS 3970 Gilman Street, Long Beach, CA	PHONE NUMBER (562) 498-9515	SHIPMENT METHOD
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)		RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE

TAT: 24 HOURS 48 HOURS 72 HOURS Standard 7 or 14 Days

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	TPH-G + BTX / MTBE (8015M)	TPH-D (8015M)	FUEL OXYGENATES (8060)	1,2 DCA + EDB (8010)	* MT	COMMENTS
				NO.	TYPE (VOL)	LAB SAMPLE #						
A	3/27/00	10:45	W	63	40mL	Hcl	X		X			
B	↓	11:01	W	6	↓	↓	X		X			
C	↓	11:20	W	86	↓	↓	X		X			

SAMPLED BY (Please Print Name) Garrett Hertel			SAMPLED BY (Signature) 			ADDITIONAL COMMENTS * per client request		
RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME			
	3/28/00	1:00	NOEL TONG /	3/29/00	10:30			

Field Data Sheets

WELL GAUGING DATA

Project # 060327 N-1 Date 3/27/00 Client BP

Site 10 MacArthur Blvd Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4	B				32.05	32.05	↘
MW-2	4	.				32.35	32.35	↘
MW-3	4	A				13.77	32.51	↓

BP WELL MONITORING DATA SHEET

Project #: 000327 N-1	Station # 11102
Sampler: Gamett	Date: 3/27/00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 32.05	Depth to Water: 9.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC TOL 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 Disposable Bailer Middleburg <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: Bailer <u>Disposable Bailer</u> Extraction Port Other: _____
---	--

14.4	x	3	=	43.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:53	67.3	6.6	760	15	
10:55	69.3	6.6	762	30	
10:57	69.8	6.7	798	45	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 45
Sampling Time: 11:01	Sampling Date: 3/27/00
Sample I.D. (Blind): B	Laboratory: SPL <u>Other Price</u>

Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D	Other: 7 fuel Oxygenates
D.O. (if req'd):	Pre-purge: mg/L
O.R.P. (if req'd):	Pre-purge: mV

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

BP WELL MONITORING DATA SHEET

Project #: 000327 N-1	Station # 11102
Sampler: Gamett	Date: 3/27/00
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.35	Depth to Water: 9.90
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

14.5	x	3	=	43.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
11:11	60.2	6.7	461	15	
11:13	69.0	6.6	480	30	
11:15	69.1	6.6	493	45	

Did well dewater? Yes No Gallons actually evacuated: 45

Sampling Time: 11:20 Sampling Date: 3/27/00

Sample I.D. (Blind): C Laboratory: SPL Other: Pace

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

BP WELL MONITORING DATA SHEET

Project #: <u>000327 N-1</u>	Station # <u>11102</u>
Sampler: <u>Gannett</u>	Date: <u>3/27/00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>3251</u>	Depth to Water: <u>13.77</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC 300</u> 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: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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<u>12.2</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>36.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>10:35</u>	<u>70.3</u>	<u>6.8</u>	<u>694</u>	<u>13</u>	
<u>10:37</u>	<u>70.7</u>	<u>6.8</u>	<u>703</u>	<u>26</u>	
<u>10:39</u>	<u>69.9</u>	<u>6.9</u>	<u>703</u>	<u>39</u>	

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>39</u>
Sampling Time: <u>10:45</u>	Sampling Date: <u>3/27/00</u>
Sample I.D. (Blind): <u>A</u>	Laboratory: SPL <u>Other Pace</u>

Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:
D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV