bp

Scott T. Hooton
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LOP 1108
PH

December 13, 2000

00 DEC 19 PM 3:51
ENVIRONMENTAL PROTECTION

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

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

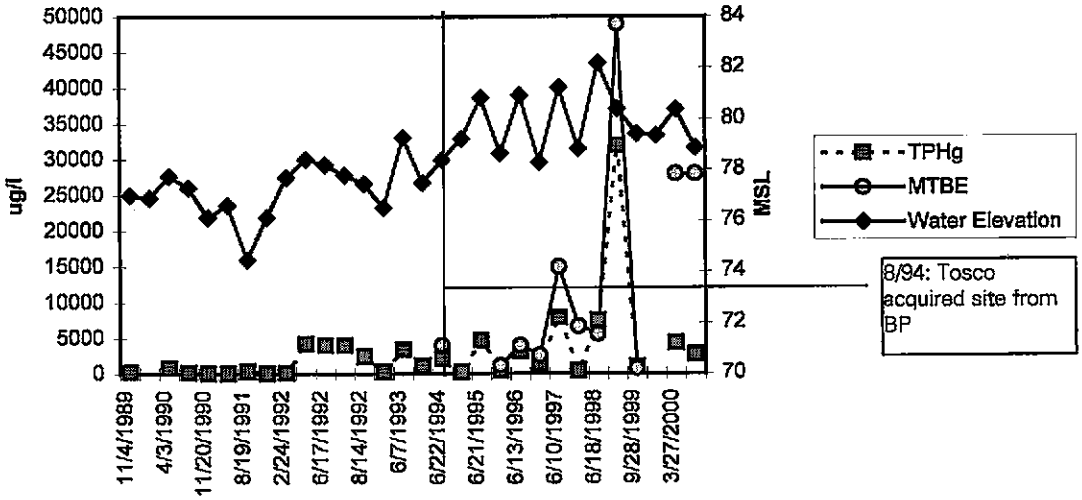
Direct: 425/251-0689
Cell: 206/919-5029
hootonst@bp.com
www.bp.com

Dear Ladies and Gentlemen:

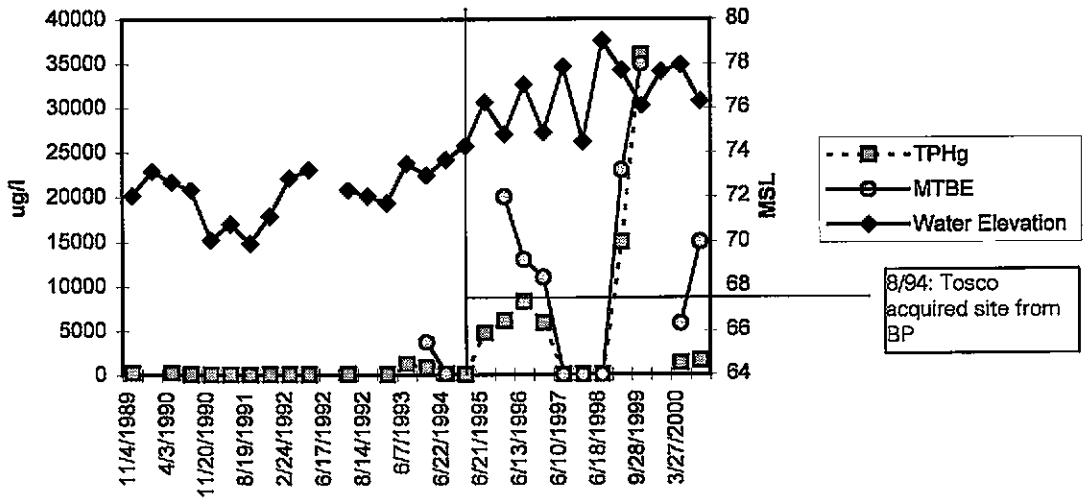
This transmits the 28 September 2000 *Third Quarter 2000 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP. The report summarizes chemical data obtained since 1989, including results for samples recently obtained on 28 September 2000.

The report shows that aromatic hydrocarbons and MTBE were detected in samples obtained from all of the monitoring wells sampled on 28 September 2000, with the highest concentrations associated with wells MW-1 and MW-2. 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
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November 15, 2000

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

3rd Quarter 2000 Monitoring at 11102

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

Monitoring Performed on September 28, 2000

Groundwater Sampling Report **000928-Z-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.

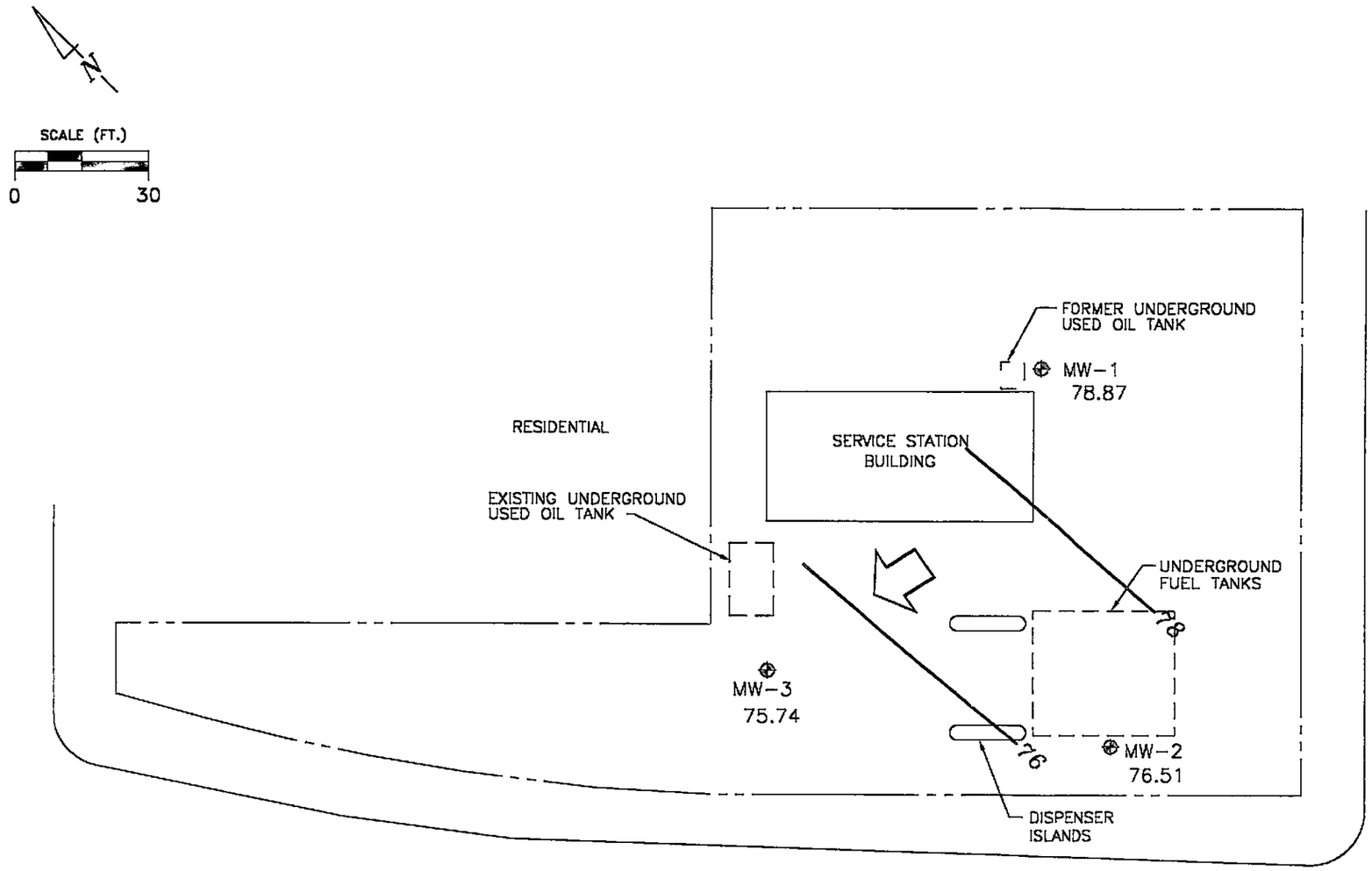
Yours truly,

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
- 78.87 GROUNDWATER ELEVATION (FT, MSL)
- 78 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.03

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4875
9-02
STATE OF CALIFORNIA

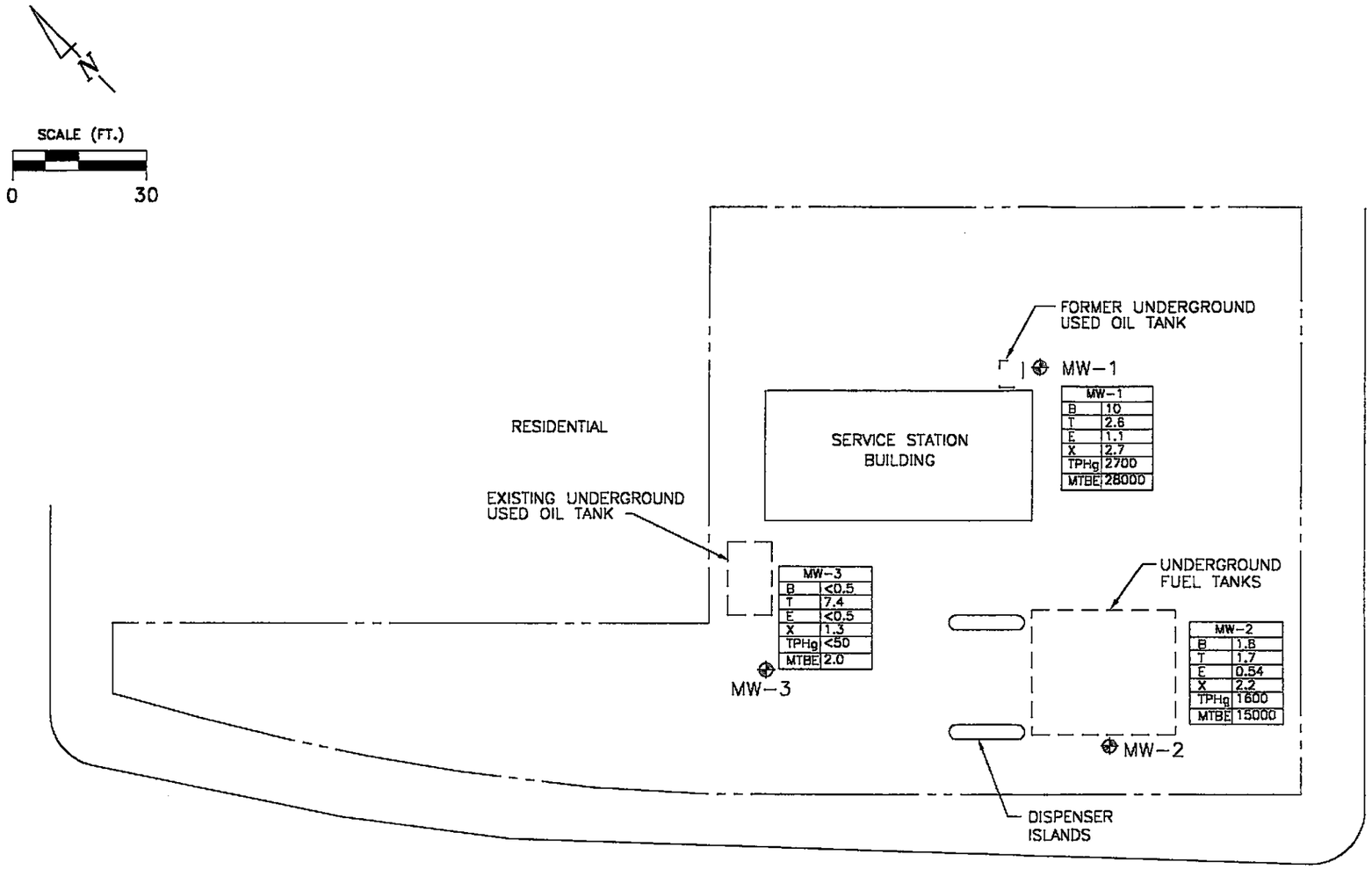
Ref. 11102bm.dwg
Basemap from Allsto Engineering Group

PREPARED BY
RRM
engineering contracting firm

GROUNDWATER ELEVATION CONTOUR MAP, SEPTEMBER 28, 2000

BP Oil Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

FIGURE: 1
PROJECT: DAC04



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

Ref. 11102tex.dwg
Basemap from Alisto Engineering Group

PREPARED BY
RRM
engineering contracting firm

HYDROCARBON CONCENTRATION MAP, SEPTEMBER 28, 2000

BP Oil Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

FIGURE: 2
PROJECT: DAC04

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<100	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	---	160	19	37	43	28000		---	---	ND<500	---		---	PACE
MW-1		09/28/00	90.20	11.33	78.87	2700	---	10	2.6	1.1	2.7	28000		---	---	---	---		---	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	---	ND<0.5	ND<0.5	0.51	ND<0.5	5800	---	---	ND<100	---	---	PACE
MW-2	09/28/00	87.91	11.40	76.51	1600	---	1.8	1.7	0.54	2.2	15000	---	---	---	---	---	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
MW-3		09/28/00	87.02	11.28	75.74	ND<50	---	ND<0.5	7.4	ND<0.5	1.3	2.0	---	---	---	---	---	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
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
1,1-DCA	1,1-Dichloroethane
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

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.

(b) Groundwater elevations in feet above mean sea level.

(c) Blind duplicate.

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.

(e) Tetrachloroethene.

(f) Trans-1,2-Dichloroethene

(g) Travel blank.

Analytical Appendix

Pace Analytical™
www.pacelabs.com

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

October 16, 2000

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

RE: Pace Project Number: 6045363
Client Project ID: BP 11102

Dear Mr. HARGRAVE:

Enclosed are the analytical results for sample(s)received by the laboratory on October 3, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati

Lily Bayati
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

DATE: 10/16/00

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

Pace Project Number: 6045363
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: 603866716 Date Collected: 09/28/00 Matrix: Water
Client Sample ID: A Date Received: 10/03/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Long Beach Lab							
GAS BTEX by 8015, Water		Method: EPA 8015/8020 Modif			Prep Method: EPA 8015/8020 Modif		
Gasoline	ND	ug/l	50	10/07/00	VN		
Benzene	ND	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	7.4	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	ND	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	2.0	ug/l	0.5	10/07/00	VN	1634-04-4	
Xylene (Total)	1.3	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	126	%		10/07/00	VN	2164-17-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Project Number: 6045363
Client Project ID: BP 11102

Pace Sample No: 603866724 Date Collected: 09/28/00 Matrix: Water
Client Sample ID: B Date Received: 10/03/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Long Beach Lab							
GAS BTEX by 8015, Water	Method: EPA 8015/8020 Modif				Prep Method: EPA 8015/8020 Modif		
Gasoline	1600	ug/l	50	10/07/00	VN		
Benzene	1.8	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	1.7	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	0.54	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	15000	ug/l	150	10/07/00	VN	1634-04-4	
Xylene (Total)	2.2	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	116	%		10/07/00	VN	2164-17-2	

REPORT OF LABORATORY ANALYSIS

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3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

Pace Project Number: 6045363
Client Project ID: BP 11102

Pace Sample No: 603866732 Date Collected: 09/28/00 Matrix: Water
Client Sample ID: C Date Received: 10/03/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Long Beach Lab							
GAS BTEX by 8015, Water	Method: EPA 8015/8020 Modif				Prep Method: EPA 8015/8020 Modif		
Gasoline	2700	ug/l	50	10/07/00	VN		
Benzene	10	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	2.6	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	1.1	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	28000	ug/l	75	10/07/00	VN	1634-04-4	
Xylene (Total)	2.7	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	186	%		10/07/00	VN	2164-17-2	1

REPORT OF LABORATORY ANALYSIS

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

Pace Project Number: 6045363
Client Project ID: BP 11102

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
[1]	Matrix Effect

REPORT OF LABORATORY ANALYSIS

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Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

QUALITY CONTROL DATA

DATE: 10/16/00

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

Pace Project Number: 6045363
Client Project ID: BP 11102

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

QC Batch ID: 92033
QC Batch Method: EPA 8015/8020 Modif
Analysis Method: EPA 8015/8020 Modif
Analysis Description: GAS BTEX by 8015, Water
Associated Pace Samples: 603866716 603866724 603866732

METHOD BLANK: 603877960
Associated Pace Samples:
603866716 603866724 603866732

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)	%	120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603877978 603877986

Parameter	Units	603866682	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Gasoline	ug/l	0	40	38.90	97.3	38.70	96.8	1	
Benzene	ug/l	0	6.667	6.850	103	6.890	103	1	
Toluene	ug/l	0	6.667	6.760	101	6.860	103	1	
Ethylbenzene	ug/l	0	6.667	6.963	104	7.050	106	1	
Methyl-tert-butyl Ether	ug/l	0.4778	6.667	7.890	111	8.190	116	4	
Xylene (Total)	ug/l	0	20	20.34	102	20.49	102	1	
a,a,a-Trifluorotoluene (S)					111		114		

REPORT OF LABORATORY ANALYSIS

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

Pace Project Number: 6045363
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

REPORT OF LABORATORY ANALYSIS

CHAIN OF CUSTODY

17121A 6045363

Page 1 of 1

CONSULTANT'S NAME	CONSULTANT'S ADDRESS		
Blaine Tech Services, Inc.	1680 Rogers Ave., San Jose CA 95112		
BP SITE NUMBER	BP SITE / FACILITY ADDRESS		CONSULTANT PROJECT NUMBER
11102	100 MacArthur Blvd., Oakland		000928-Z1
CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Morgan Hargrave	(408) 573-0555 x 218	(408) 573-7771	J264047
BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	295 SW 41st Street, Suite N, Renton WA	(425) 251-0689	(425) 251-0736
LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
Pace - Lily Bayati	3970 Gilman Street, Long Beach, CA	(562) 498-9515	(562) 597-0786
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE
			SHIPMENT METHOD: Airborne

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

ANALYSIS REQUIRED

AIRBILL NUMBER: 336 332155

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL)	PRESERVATIVE LAB SAMPLE #	TPH-G + BTEX / MTBE (8015M) (8020)	TPH-D (8015M)	FUEL OXYGENATES (8260)	1,2 DCA + EDB (8010)	COMMENTS
A	9-28-00	953	W	3	VOA		X				
B	9-28-00	1015	W	3	VOA		X				
C	9-28-00	1039	W	3	VOA		X				

SAMPLED BY (Please Print Name): AIDAN METZGER

SAMPLED BY (Signature): Aidan Metzger

ADDITIONAL COMMENTS: 4.0°C

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME
AIDAN METZGER Aidan Metzger	9-29-00	1:00	[illegible]	10/3/00	12:00

Field
Data
Sheets

WELL GAUGING DATA

Project # 000928-Z1 Date 9-28-00 Client BP

Site #11102 / 100 MacArthur Blvd, Oakland, CA

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	C				11.33	32.00		3
MW-2	4	B				11.40	32.43		2
MW-3	4	A				11.28	32.55		1

BP WELL MONITORING DATA SHEET

Project #: 000928-Z1	Station # 11102
Sampler: Ardan M	Date: 9-28-00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 32.00	Depth to Water: 11.33
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 / Disposable Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: ____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ____

13.4	x	3	=	40.2 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1029	68.6	6.7	775	14	
1031	67.8	6.7	789	27	
1034	68.5	6.8	815	40	

Did well dewater? Yes (No)		Gallons actually evacuated: 40	
Sampling Time: 1039		Sampling Date: 9-28-00	
Sample I.D. (Blind): C		Laboratory: Pace	Other ____
Analyzed for: (TPH-G) (BTEX) (MTBE) 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

BP WELL MONITORING DATA SHEET

Project #: 000928-Z1	Station # 11102
Sampler: Aidan M	Date: 9-28-00
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 32.43	Depth to Water: 11.40
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 / Disposable Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: _____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: _____

13.6	X	3	=	40.8 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1007	71.5	7.0	3523	14	
1009	69.5	6.6	3136	28	
1011	69.1	6.7	3592	41	

Did well dewater? Yes (No)		Gallons actually evacuated: 41	
Sampling Time: 1015		Sampling Date: 9-28-00	
Sample I.D. (Blind): B		Laboratory: (Pace)	Other_____
Analyzed for: (TPH-G) (BTEX) (MTBE) 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

BP WELL MONITORING DATA SHEET

Project #: 000928-Z1	Station # 11102
Sampler: Aidan M	Date: 9-28-00
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 32.55	Depth to Water: 11.28
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 / Disposable Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ___

13.8	X	3	=	41.4 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
945	69.4	7.0	905	14	
947	69.2	7.0	996	28	
950	69.2	7.1	957	42	

Did well dewater? Yes (No)		Gallons actually evacuated: 42	
Sampling Time: 953		Sampling Date: 9-28-00	
Sample I.D. (Blind): A		Laboratory: Pace	Other ___
Analyzed for: (TPH-G) (BTEX) (MTBE) 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