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January 17, 2001

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Fourth Quarter 2000 Groundwater Monitoring at
Former Texaco Service Station
3800 Broadway
Oakland, CA

Monitoring performed on November 29, 2000

Groundwater Monitoring Report **001129-S-1**

This report covers the routine monitoring of groundwater wells at this Former Texaco facility. 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, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on 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,

Deidre Kerwin
Operations Manager

DK/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Keith Winemiller
Toxichem Management Systems, Inc.
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WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-1	06/28/1996	<100	<50	<0.5	<1.0	<1.0	<2.0	NA	NA	86.69	21.77	NA	64.92	NA	NA
MW-1	10/10/1996	520	<400	9.2	53	17	70	22	16**	86.69	23.26	NA	63.43	NA	NA
MW-1	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	86.69	23.27	NA	63.42	NA	NA
MW-1	12/18/1997	2,200	<50	<3.0	<3.0	<3.0	<3.0	<200	NA	86.69	19.70	NA	66.99	NA	NA
MW-1	04/06/1998	1,600	<50	16.4	0.8	<0.5	<0.5	38.3	NA	86.69	16.88	NA	69.81	NA	NA
MW-1	06/18/1998	330	280	7.8	<0.5	<0.5	<0.5	<0.5	NA	86.69	19.78	NA	66.91	NA	NA
MW-1	08/31/1998	<50	150	1.5	<0.5	<0.5	<0.5	<2.5	NA	86.69	21.71	NA	64.98	NA	NA
MW-1	12/21/1998	130	130	2.3	0.90	<0.5	<0.5	110	13	86.69	22.15	NA	64.54	NA	NA
MW-1	03/24/1999	1,520	305	11.7	<2.50	<2.50	<2.50	21.6	<25.0	86.69	19.55	NA	67.14	NA	NA
MW-1	06/25/1999	231	207	5.29	<0.500	<0.500	<0.500	3.94	1.01	86.69	21.60	NA	65.09	NA	NA
MW-1	09/24/1999	58.6	71.7	6.03	<0.500	<0.500	<0.500	3.70	NA	86.69	22.58	NA	64.11	NA	NA
MW-1	12/29/1999	117	345	4.26	<0.500	<0.500	1.97	26.2	<0.500	86.69	22.81	NA	63.88	NA	NA
MW-1	03/21/2000	834	319	<0.500	<0.500	<0.500	<0.500	21.5	NA	86.69	19.00	NA	67.69	NA	NA
MW-1	07/26/2000	<50.0	125	<0.500	<0.500	<0.500	<0.500	<2.50	NA	86.69	21.50	NA	65.19	NA	NA
MW-1	09/06/2000	88.1	192	15.60	<0.500	<0.500	<0.500	NA	NA	86.69	21.90	NA	64.79	NA	NA
MW-1	**11/29/2000**	**<50.0**	**331**	**3.52**	**<0.500**	**<0.500**	**<0.500**	**NA**	**NA**	**86.92**	**22.05**	**NA**	**64.87**	**NA**	**NA**
MW-2	06/28/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.10	NA	63.73	1.35	NA
MW-2	10/10/1996	99,000	1,800	4,100	9,400	2,300	9,900	390	<25**	85.83	22.36	NA	63.47	NA	NA
MW-2	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.39	NA	63.45	0.01	NA
MW-2	12/18/1997	24,000	4,700	600	1,800	750	2,400	<2,000	NA	85.83	20.19	NA	65.64	NA	NA
MW-2	04/06/1998	20,100	9.5	252	448	430	1,410	<200	NA	85.83	18.00	NA	67.83	NA	NA
MW-2	06/18/1998	20,000	5,200	240	370	270	790	<50	NA	85.83	19.63	NA	66.20	NA	NA
MW-2	08/31/1998	72,000	19,000	270	990	630	1,700	<125	NA	85.83	21.01	NA	64.82	NA	NA
MW-2	12/21/1998	290	13,000	8.7	18	9.7	38	10	29	85.83	21.31	NA	64.52	NA	NA
MW-2	03/24/1999	80,400	5,590	651	1,860	1,120	3,730	<40.0	<100	85.83	19.18	NA	66.65	NA	NA
MW-2	06/25/1999	34,700	12,100	504	1,300	716	2,160	<40.0	NA	85.83	20.78	NA	65.05	NA	NA

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-2	09/24/1999	6,510	108	1,030	350	183	680	<50.0	NA	85.83	21.82	NA	64.01	NA	1.0/.80
MW-2	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.17	21.87	63.90	0.30	2.6
MW-2	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	85.83	22.84	22.45	63.30	0.39	NA
MW-2	03/21/2000	54,100	41,100	1,260	3,320	2,180	8,200	<1,250	NA	a	18.19	NA	NA	NA	3.3/3.6
MW-2	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	06/28/1996	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.04	NA	64.14	NA	NA
MW-3	10/10/1996	110,000	1,200	6,600	16,000	2,200	12,000	<250	NA	83.18	19.51	NA	63.67	NA	NA
MW-3	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.40	NA	19.84	NA	NA
MW-3	12/18/1997	180,000	6,100,000	1,500	16,000	4,600	23,000	<3,000	NA	83.18	18.79	NA	64.39	NA	NA
MW-3	04/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	16.58	NA	66.64	0.05	NA
MW-3	06/18/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	NA*	NA	NA	>2.0	NA
MW-3	08/31/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.56	NA	63.68	0.07	NA
MW-3	12/21/1998	NA	NA	NA	NA	NA	NA	NA	NA	83.18	20.23	NA	65.13	2.73	NA
MW-3	03/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	16.76	15.90	67.11	0.86	NA
MW-3	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	18.47	18.17	64.95	0.30	NA
MW-3	09/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.43	19.35	63.81	0.08	NA
MW-3	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.25	19.21	63.96	0.04	NA
MW-3	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	83.18	19.87	19.80	63.37	0.07	NA
MW-3	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	06/28/1996	<100	<50	<0.5	<1.0	<1.0	<2.0	NA	NA	83.31	18.83	NA	64.48	NA	NA
MW-4	10/10/1996	650	<50	3.9	65	22	120	<5.0	NA	83.31	19.84	NA	63.47	NA	NA
MW-4	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	83.31	19.84	NA	63.47	NA	NA
MW-4	12/18/1997	<50	2,000	<0.5	<0.5	<0.5	<0.5	<30	NA	83.31	17.77	NA	65.54	NA	NA
MW-4	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	83.31	15.45	NA	67.86	NA	NA
MW-4	06/18/1998	<50	53	<0.5	<0.5	<0.5	<0.5	<0.5	NA	83.31	16.89	NA	66.42	NA	NA
MW-4	08/31/1998	<50	60	<0.5	<0.5	<0.5	<0.5	<2.5	NA	83.31	18.48	NA	64.83	NA	NA

WELL CONCENTRATIONS
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MW-4	12/21/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	83.31	18.80	NA	64.51	NA	NA
MW-4	03/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	83.31	16.70	NA	66.61	NA	NA
MW-4	06/25/1999	<50.0	128	<0.500	<0.500	<0.500	<0.500	<2.00	NA	83.31	18.16	NA	65.15	NA	NA
MW-4	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	83.31	19.12	NA	64.19	NA	NA
MW-4	12/29/1999	<50.0	169	<0.500	<0.500	<0.500	<0.500	<5.00	NA	83.31	19.08	NA	64.23	NA	NA
MW-4	03/21/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	83.31	16.10	NA	67.21	NA	NA
MW-4	07/26/2000	Obstruction in well		NA	NA	NA	NA	NA	NA	83.31	NA	NA	NA	NA	NA
MW-4	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	83.31	18.52	NA	64.79	NA	NA
MW-4	**11/29/2000**	**<50.0**	**183**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**NA**	**83.63**	**18.75**	**NA**	**64.88**	**NA**	**NA**
MW-5	10/10/1996	1,800	<50	34	4.7	11	44	21	5.0**	85.41	21.93	NA	63.48	NA	NA
MW-5	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	85.41	21.96	NA	63.45	NA	NA
MW-5	12/18/1997	1,200	<50	15	<1.0	15	<1.0	72	NA	85.41	19.81	NA	65.60	NA	NA
MW-5	04/06/1998	1,000	<50	126	0.5	0.8	1.5	<30	NA	85.41	17.43	NA	67.98	NA	NA
MW-5	06/18/1998	110	100	6.9	<0.5	<0.5	<0.5	<0.5	NA	85.41	19.15	NA	66.26	NA	NA
MW-5	08/31/1998	480	120	5.3	<2.5	<2.5	<2.5	<12	NA	85.41	20.46	NA	64.95	NA	NA
MW-5	12/21/1998	270	100	16	2.9	1.3	<1.0	34	<2.0	85.41	20.91	NA	64.50	NA	NA
MW-5	03/24/1999	143	93.3	2.80	<0.500	0.749	<0.500	<2.00	<5.00	85.41	18.74	NA	66.67	NA	NA
MW-5	06/25/1999	847	125	6.61	<0.500	0.611	<0.500	2.69	<2.00	85.41	20.31	NA	65.10	NA	NA
MW-5	09/24/1999	563	94.0	6.00	<2.50	<2.50	<2.50	25.1	NA	85.41	21.36	NA	64.05	NA	NA
MW-5	12/29/1999	896	173	16.6	1.48	8.92	2.67	61.1	<0.500	85.41	21.41	NA	64.00	NA	NA
MW-5	03/21/2000	858	158	53.7	<1.00	21.4	8.00	11.6	NA	85.41	18.13	NA	67.28	NA	NA
MW-5	07/26/2000	Obstruction in well		NA	NA	NA	NA	NA	NA	85.41	NA	NA	NA	NA	NA
MW-5	09/06/2000	670	231	153	<2.50	7.87	<2.50	NA	NA	85.41	20.33	NA	65.08	NA	NA
MW-5	**11/29/2000**	**Obstruction in well**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**85.13**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-6	10/10/1996	45,000	500	8,300	2,900	810	3,100	190	40**	86.09	22.44	NA	63.65	NA	NA
MW-6	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	86.09	22.60	NA	63.49	NA	NA
MW-6	12/18/1997	60,000	1,900	12,000	9,800	1,800	8,600	<2,000	NA	86.09	22.28	NA	63.81	NA	NA

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MW-6	04/06/1998	30,500	<50	5,950	3,720	952	3,750	<1,000	NA	86.09	19.90	NA	66.19	NA	NA
MW-6	06/18/1998	23,000	1,100	2,600	540	410	1,300	<250	NA	86.09	20.49	NA	65.60	NA	NA
MW-6	08/31/1998	17,000	1,800	3,400	460	530	1,800	<250	NA	86.09	21.05	NA	65.04	NA	NA
MW-6	12/21/1998	7,900	930	1,900	510	280	730	150	2.6	86.09	21.74	NA	64.35	NA	NA
MW-6	03/24/1999	12,200	763	1,970	327	338	794	<40.0	<50.0	86.09	21.18	NA	64.91	NA	NA
MW-6	06/25/1999	14,800	1,050	2,040	1,080	406	1,430	<40.0	NA	86.09	21.34	NA	64.75	NA	NA
MW-6	09/24/1999	17,200	1,720	2,810	1,330	489	2,340	<50.0	NA	86.09	22.28	NA	63.81	NA	1.0/1.2
MW-6	12/29/1999	14,700	1,480	2,790	974	469	1,720	<500	NA	86.09	24.96	NA	61.13	NA	1.3/1.5
MW-6	03/21/2000	20,000	1,120	4,160	962	719	2,330	<250	NA	86.09	18.70	NA	67.39	NA	3.0/4.3
MW-6	07/26/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	86.09	NA	NA	NA	NA	NA
MW-6	09/06/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	86.09	NA	NA	NA	NA	NA
MW-6	**11/29/2000**	**22,800**	**2,060**	**4,120**	**2,010**	**872**	**3,180**	**NA**	**NA**	**86.48**	**21.30**	**NA**	**65.18**	**NA**	**2.0/1.8**
MW-7	10/10/1996	<50	<50	0.6	<0.5	<0.5	<0.5	<5.0	NA	84.11	20.78	NA	63.33	NA	NA
MW-7	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	84.11	20.80	NA	63.31	NA	NA
MW-7	12/18/1997	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	84.11	17.27	NA	66.84	NA	NA
MW-7	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	84.11	15.91	NA	68.20	NA	NA
MW-7	06/18/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	84.11	17.95	NA	66.16	NA	NA
MW-7	08/31/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	84.11	19.40	NA	64.71	NA	NA
MW-7	12/21/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	84.11	19.75	NA	64.36	NA	NA
MW-7	03/24/1999	<50.0	51.3	<0.500	<0.500	<0.500	<0.500	<2.00	NA	84.11	17.54	NA	66.57	NA	NA
MW-7	06/25/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	84.11	19.22	NA	64.89	NA	NA
MW-7	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	20.18	NA	63.93	NA	1.4/1.6
MW-7	12/29/1999	<50.0	99.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	84.11	20.15	NA	63.96	NA	2.3/1.8
MW-7	03/21/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	16.35	NA	67.76	NA	5.8/9.0
MW-7	07/26/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	84.11	18.99	NA	65.12	NA	6.0/6.6
MW-7	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	84.11	19.49	NA	64.62	NA	4.3/5.0
MW-7	**11/29/2000**	**<50.0**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**NA**	**84.44**	**19.52**	**NA**	**64.92**	**NA**	**4.0/3.7**

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MW-8	10/10/1996	17,000	110	1,300	1,200	64	1,300	110	<5.0**	84.01	20.82	NA	63.19	NA	NA
MW-8	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.44	NA	63.57	NA	NA
MW-8	12/18/1997	15,000	630	3,600	1,800	410	930	<600	NA	84.01	19.36	NA	64.65	NA	NA
MW-8	04/06/1998	32,300	<50	8,230	5,900	718	2,120	<1,000	NA	84.01	16.19	NA	67.82	NA	NA
MW-8	06/18/1998	74,000	<50	5,400	4,500	700	2,200	2,400	NA	84.01	17.75	NA	66.26	NA	NA
MW-8	08/31/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	12/21/1998	9,600	1,200	2,600	410	220	300	700	<2.0	84.01	19.48	NA	64.53	NA	NA
MW-8	03/24/1999	86,100	2,890	9,890	11,700	1,650	7,130	<200	<250	84.01	17.44	NA	66.57	NA	NA
MW-8	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.69	20.59	63.40	0.10	NA
MW-8	07/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.45	18.56	65.07	1.89	NA
MW-8	09/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.98	19.45	64.25	1.53	NA
MW-8	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	84.01	20.25	19.99	63.97	0.26	NA
MW-8	01/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	84.01	21.00	20.60	63.33	0.40	NA
MW-8	NA	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	10/10/1996	80	520	2.5	13	2.2	13	<5.0	NA	82.17	18.62	NA	63.55	NA	NA
MW-9	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	63.53	NA	63.53	NA	NA
MW-9	12/18/1997	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	82.17	16.42	NA	65.75	NA	NA
MW-9	04/06/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	NA	82.17	14.00	NA	68.17	NA	NA
MW-9	06/18/1998	<50	100	<0.5	<0.5	<0.5	<0.5	<0.5	NA	82.17	15.33	NA	66.84	NA	NA
MW-9	08/31/1998	<50	57	<0.5	<0.5	<0.5	<0.5	<2.5	NA	82.17	17.14	NA	65.03	NA	NA
MW-9	12/21/1998	<50	71	<0.5	<0.5	<0.5	<0.5	<2.5	NA	82.17	17.40	NA	64.77	NA	NA
MW-9	03/24/1999	<50.0	84.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	82.17	16.22	NA	65.95	NA	NA
MW-9	06/25/1999	<50.0	92.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	82.17	16.90	NA	65.27	NA	NA
MW-9	09/24/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	17.89	NA	64.28	NA	1.0/1.2
MW-9	12/29/1999	<50.0	52.8	<0.500	<0.500	<0.500	<0.500	<5.00	NA	82.17	18.01	NA	64.16	NA	3.3/2.7
MW-9	03/21/2000	<50.0	72.4	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	14.80	NA	67.37	NA	3.2/7.3

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)
MW-9	07/26/2000	<50.0	83.6	<0.500	<0.500	<0.500	<0.500	<2.50	NA	82.17	17.17	NA	65.00	NA	3.6/1.8
MW-9	09/06/2000	<50.0	74.3	<0.500	<0.500	<0.500	<0.500	NA	NA	82.17	17.95	NA	64.22	NA	3.8/4.0
MW-9	**11/29/2000**	**<50.0**	**96.2**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**NA**	**82.52**	**18.10**	**NA**	**64.42**	**NA**	**2.0/2.0**
MW-10	10/10/1996	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	81.83	18.40	NA	63.43	NA	NA
MW-10	11/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	81.83	18.43	NA	63.40	NA	NA
MW-10	12/18/1997	350	<50	6.9	0.87	0.88	0.77	<30	NA	81.83	16.18	NA	65.65	NA	NA
MW-10	04/06/1998	2,300	<50	224	168	81.4	253	<30	NA	81.83	14.39	NA	67.44	NA	NA
MW-10	06/18/1998	7,200	320	310	210	83	280	<0.5	NA	81.83	15.11	NA	66.72	NA	NA
MW-10	08/31/1998	460	120	51	8.2	5.1	10	<5.0	NA	81.83	17.03	NA	64.80	NA	NA
MW-10	12/21/1998	120	79	5.5	<1.0	<1.0	<1.0	8.7	<2.0	81.83	17.32	NA	64.51	NA	NA
MW-10	03/24/1999	1,330	923	85.9	42.9	29.7	95.2	20.4	<25.0	81.83	15.25	NA	66.58	NA	NA
MW-10	06/25/1999	1,130	167	115	32.6	17.2	36.3	<4.00	NA	81.83	16.82	NA	65.01	NA	NA
MW-10	09/24/1999	382	76.7	20.0	<1.00	2.21	1.37	8.83	NA	81.83	17.75	NA	64.08	NA	NA
MW-10	12/29/1999	114	107	9.03	<0.500	0.531	<0.500	<5.00	NA	81.83	18.13	NA	63.70	NA	NA
MW-10	03/21/2000	1,270	194	86.3	52.3	38.1	102	19.5	NA	81.83	14.22	NA	67.61	NA	NA
MW-10	07/26/2000	562	192	74.8	7.51	24.3	14.8	13.3	<1.00b	81.83	16.61	NA	65.22	NA	NA
MW-10	09/06/2000	606	205	93.4	5.36	16.7	38.9	NA	NA	81.83	17.08	NA	64.75	NA	NA
MW-10	**11/29/2000**	**583**	**258**	**40.0**	**1.46**	**4.69**	**15.8**	**NA**	**NA**	**82.16**	**16.90**	**NA**	**65.26**	**NA**	**NA**
MW-11	08/08/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.61	NA	NA	NA	NA
MW-11	08/16/2000	<50.0	56.80	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	25.50	NA	NA	NA	NA
MW-11	09/06/2000	<50.0	c	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	25.90	NA	NA	NA	NA
MW-11	**11/29/2000**	**<50.0**	**63.8**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**NA**	**90.63**	**25.80**	**NA**	**64.83**	**NA**	**NA**

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ppm)

Abbreviations:
TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
D.O. = Dissolved Oxygen
ug/L = parts per billion
ppm = parts per million
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable
n/n = Pre-purge/Post-purge D.O. reading.

Notes:
* Free product could not be accurately measured (>2.0 feet of product in well).
** MTBE confirmation by 8240.
a = TOC for MW-2 has changed.
b = This sample analyzed outside of EPA recommended hold time.
c = During shipment by laboratory, sample containers for MW-4, MW-7, and MW-11 were broken.
Survey information provided by Toxichem Management Systems, Inc., on December 11, 2000.

TOXICHEM
Management
Systems, Inc.
Environmental & Occupational Health Services
1562 44th Avenue
San Francisco, California 94122
(415) 681-8816 / Fax (415) 681-8132

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Industrial Hygiene - Exposure Assessment
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Air, Soil, and Groundwater Sampling
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Litigation Support Services

REPORTS

September 11, 2000
Project EQ-02.1A

Mr. Barney M. Chan
Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Well MW-11 Installation Report**
Former Texaco Service Station
3810 Broadway, Oakland, California

Dear Mr. Chan:

On behalf of Equiva Services LLC (Equiva), Toxichem Management Systems, Inc. (TOXICHEM) has prepared this report to document the installation of Well MW-11 at the site referenced above (Figures 1 and 2). The purpose of this work was to further define the extent of petroleum hydrocarbon-impacted groundwater at the site. Well installation was completed on August 4, 2000 in accordance with the your June 15, 2000 letter to Ms. Karen Petryna of Equiva.

A complete record of site background, previous investigations, conceptual release and transport model, and corrective action goals are presented in the *Corrective Action Plan* (TOXICHEM, November 15, 1998) and subsequent activities are presented in *Soil Excavation Report* (TOXICHEM, June 5, 2000). Included in this report is a discussion of the scope of work, findings, and conclusions and recommendations. The field and laboratory procedures, site health and safety plan, permits, boring logs, well development field data sheets, and soil disposal documentation are presented as Attachment A. The certified analytical report and chain-of-custody documentation are presented as Attachment B.

SCOPE OF WORK

The scope of this investigation included the following activities:

- Installation of Well MW-11

FINDINGS

TOXICHEM drilled one soil boring at the site on August 4, 2000. Soil samples were collected ~~from the boring~~ analyzed for total purgeable petroleum hydrocarbons (TPPH) and total extractable petroleum hydrocarbons (TEPH), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and methyl tertiary butyl ether (MtBE). The boring was completed as a 2-inch diameter groundwater monitoring well (MW-11) that is screened from 15 to 40 feet bgs.

The well was developed by Blaine Tech Services, Inc. on August 8, 2000, and groundwater samples were collected from the well and sampled for TPPH, TEPH, and BTEX compounds on August 16, 2000. MtBE in groundwater was not analyzed since previous sampling data confirms that MtBE is not a chemical of concern at the site. The well has not yet been surveyed to mean sea level pending correction of several well deficiencies resulting from the property owner's construction activities and a complete re-survey of all wells. A summary of subsurface conditions, and soil and groundwater analytical data follows.

Copies of the field and laboratory procedures, the required permits, the Health and Safety Plan, boring logs, well development field data sheets, and soil disposal documentation are presented as Attachment A. A copy of the certified analytical report and chain-of-custody documentation is presented as Attachment B.

Subsurface Conditions

Soils encountered during drilling consisted of sandy clays and silts, and sands. Groundwater was encountered at approximately 35 feet bgs, and then stabilized at approximately 28 feet bgs. A more complete description of the subsurface lithology is shown on the boring logs that are presented in Attachment A.

Soil Analytical Data

Soil analytical data are summarized below and are presented in Table 1.

- TPPH, TEPH, BTEX compounds, and MtBE were not detected in any soil sample.

Groundwater Analytical Data

Groundwater analytical data are summarized below and are presented in Table 2.

- TPPH and BTEX compounds were not detected in any groundwater sample.
- TEPH was detected at a concentration of 56.8 µg/L, however the laboratory noted that the chromatogram pattern was an unidentified hydrocarbon in the C9-C24 range.

CONCLUSIONS AND RECOMMENDATIONS

Based on these results, TOXICHEM concludes that:

- The existing monitoring well network is adequate to monitor the extent of impacted groundwater.

TOXICHEM recommends continuing the existing groundwater monitoring and sampling program, and considering the use of the PVC piping array in the future if dissolved petroleum hydrocarbon concentrations do not attenuate. No further soil or groundwater investigation is recommended. Progress toward correcting the well deficiencies resulting from the property owner's construction activities will be reported in the next quarterly groundwater monitoring report. OK

If you have any questions regarding this report, please contact me at your convenience at (415) 681-8816.

Sincerely,

Toxichem Management Systems, Inc.

Keith Winemiller, P.E.
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
KEITH WINEMILLER
C 57744
Exp. 12/31/01
CIVIL
STATE OF CALIFORNIA

Attachments:
- Table 1 - Soil Analytical Data – TPPH, TEPH, BTEX Compounds, and MtBE
- Table 2 - Groundwater Analytical Data – TPPH, TEPH, and BTEX Compounds,
- Figure 1 - Site Map
- Attachment A - Field and Laboratory Procedures, Site Health and Safety Plan, Permits, Boring Logs, Well Development Field Data Sheets, and Soil Disposal Documentation
- Attachment B - Certified Analytical Report and Chain-of-Custody Documentation

cc: Ms. Karen Petryna, P.E., Equiva Services LLC, P. O. Box 7869, Burbank, CA 91510-7869
Mr. Joe Zadik, 8255 San Leandro Street, Oakland, CA 94621

Table 1
Soil Analytical Data
(TPPH, TEPH, BTEX Compounds, and MtBE)

Former Texaco Service Station
3810 Broadway, Oakland, California

Boring Number	Sample Depth (feet, bgs)	Date Sampled	TPPH (mg/kg)	TEPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MtBE by 8020 (mg/kg)
MW-11	29.5	08/04/00	<1	<1	<0.005	<0.005	<0.005	<0.010	<0.05
	34.5	08/04/00	<1	<1	<0.005	<0.005	<0.005	<0.010	<0.05

TPPH = Total purgeable petroleum hydrocarbons
TEPH = Total extractable petroleum hydrocabrons
MtBE = Methyl tert-butyl ether
bgs = Below ground surface
mg/kg = Milligrams per kilogram

Table 2
Groundwater Analytical Data
TPPH, TEPH, and BTEX Compounds

Former Texaco Service Station
3810 Broadway, Oakland, California

Boring Number	Date Sampled	TPPH (µg/L)	TEPH (µg/L)		Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)
MW-11	08/16/00	<50.0	**56.8**	**a**	<0.500	<0.500	<0.500	<0.500

TPPH = Total purgeable petroleum hydrocarbons
TEPH = Total extractable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether, by EPA Method 8020
µg/L = Micrograms per liter
a = Chromatogram Pattern: Unidentified Hydrocarbons C9 - C24

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

20 December, 2000

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 3800 Broadway
Sequoia Report: MJL0093

Enclosed are the results of analyses for samples received by the laboratory on 11/30/00 14:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Client Services Manager

CA ELAP Certificate #1210

Sequoia Analytical

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Morgan Hill, CA 95037
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www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJL0093-01	Water	11/29/00 12:25	11/30/00 14:19
MW-4	MJL0093-02	Water	11/29/00 12:00	11/30/00 14:19
MW-6	MJL0093-03	Water	11/29/00 13:15	11/30/00 14:19
MW-7	MJL0093-04	Water	11/29/00 11:15	11/30/00 14:19
MW-9	MJL0093-05	Water	11/29/00 10:45	11/30/00 14:19
MW-10	MJL0093-06	Water	11/29/00 12:50	11/30/00 14:19
MW-11	MJL0093-07	Water	11/29/00 11:35	11/30/00 14:19

Wayne Stevenson, Client Services Manager

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJL0093-01) Water Sampled: 11/29/00 12:25 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0L12002	12/12/00	12/12/00	DHS LUFT	
Benzene	**3.52**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*70-130*		"	"	"	"	
MW-4 (MJL0093-02) Water Sampled: 11/29/00 12:00 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0L08005	12/08/00	12/08/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0 500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate. a,a,a-Trifluorotoluene		*98.2 %*	*70-130*		"	"	"	"	
MW-6 (MJL0093-03) Water Sampled: 11/29/00 13:15 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	**22800**	5000	ug/l	100	0L08005	12/08/00	12/08/00	DHS LUFT	P-01
Benzene	**4120**	50 0	"	"	"	"	"	"	
Toluene	**2010**	50.0	"	"	"	"	"	"	
Ethylbenzene	**872**	50.0	"	"	"	"	"	"	
Xylenes (total)	**3180**	50.0	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*105 %*	*70-130*		"	"	"	"	
MW-7 (MJL0093-04) Water Sampled: 11/29/00 11:15 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	ND	50 0	ug/l	1	0L08005	12/08/00	12/08/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*93 4 %*	*70-130*		"	"	"	"	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (MJL0093-05) Water Sampled: 11/29/00 10:45 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0L08005	12/08/00	12/08/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*		*70-130*		"	"	"	
MW-10 (MJL0093-06) Water Sampled: 11/29/00 12:50 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	**583**	100	ug/l	2	0L08005	12/08/00	12/08/00	DHS LUFT	P-01
Benzene	**40.0**	1.00	"	"	"	"	"	"	
Toluene	**1.46**	1.00	"	"	"	"	"	"	
Ethylbenzene	**4.69**	1.00	"	"	"	"	"	"	
Xylenes (total)	**15.8**	1.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*		*70-130*		"	"	"	
MW-11 (MJL0093-07) Water Sampled: 11/29/00 11:35 Received: 11/30/00 14:19									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0L08005	12/08/00	12/08/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.1 %*		*70-130*		"	"	"	

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJL0093-01) Water	**Sampled: 11/29/00 12:25**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**331**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*88.9 %*	*50-150*		"	"	"	"	
MW-4 (MJL0093-02) Water	**Sampled: 11/29/00 12:00**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**183**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate n-Pentacosane		*92 5 %*	*50-150*		"	"	"	"	
MW-6 (MJL0093-03) Water	**Sampled: 11/29/00 13:15**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**2060**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate. n-Pentacosane		*85.8 %*	*50-150*		"	"	"	"	
MW-7 (MJL0093-04) Water	**Sampled: 11/29/00 11:15**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	ND	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	
Surrogate: n-Pentacosane		*88 4 %*	*50-150*		"	"	"	"	
MW-9 (MJL0093-05) Water	**Sampled: 11/29/00 10:45**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**96.2**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		*93 7 %*	*50-150*		"	"	"	"	
MW-10 (MJL0093-06) Water	**Sampled: 11/29/00 12:50**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**258**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate· n-Pentacosane		*87 1 %*	*50-150*		"	"	"	"	
MW-11 (MJL0093-07) Water	**Sampled: 11/29/00 11:35**	**Received: 11/30/00 14:19**							
Diesel Range Hydrocarbons	**63.8**	50.0	ug/l	1	0L11015	12/11/00	12/12/00	DHS LUFT	D-15
Surrogate· n-Pentacosane		*85.9 %*	*50-150*		"	"	"	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L08005 - EPA 5030B [P/T]										
Blank (0L08005-BLK1)				Prepared & Analyzed: 12/08/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: a,a,a-Trifluorotoluene	*9.69*		"	*10.0*		*96.9*	*70-130*			
LCS (0L08005-BS1)				Prepared & Analyzed: 12/08/00						
Benzene	10.6	0.500	ug/l	10.0		106	70-130			
Toluene	9.88	0.500	"	10.0		98.8	70-130			
Ethylbenzene	9.85	0.500	"	10.0		98.5	70-130			
Xylenes (total)	29.1	0.500	"	30.0		97.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*70-130*			
Matrix Spike (0L08005-MS1)		**Source: MJL0093-02**		Prepared & Analyzed: 12/08/00						
Benzene	10.9	0.500	ug/l	10.0	ND	109	60-140			
Toluene	10.2	0.500	"	10.0	ND	102	60-140			
Ethylbenzene	10.0	0.500	"	10.0	ND	100	60-140			
Xylenes (total)	30.1	0.500	"	30.0	ND	100	60-140			
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*70-130*			
Matrix Spike Dup (0L08005-MSD1)		**Source: MJL0093-02**		Prepared & Analyzed: 12/08/00						
Benzene	10.9	0.500	ug/l	10.0	ND	109	60-140	0	25	
Toluene	10.2	0.500	"	10.0	ND	102	60-140	0	25	
Ethylbenzene	10.0	0.500	"	10.0	ND	100	60-140	0	25	
Xylenes (total)	29.8	0.500	"	30.0	ND	99.3	60-140	1.00	25	
Surrogate: a,a,a-Trifluorotoluene	*10.2*		"	*10.0*		*102*	*70-130*			

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L12002 - EPA 5030B [P/T]										
Blank (0L12002-BLK1)				Prepared & Analyzed: 12/12/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: a,a,a-Trifluorotoluene	*9.94*		"	*10.0*		*99.4*	*70-130*			

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L11015 - EPA 3510B										
Blank (0L11015-BLK1)				Prepared: 12/11/00 Analyzed: 12/12/00						
Diesel Range Hydrocarbons	ND	50 0	ug/l							
Surrogate: n-Pentacosane	*79.7*		"	*100*		*79.7*	*50-150*			
LCS (0L11015-BS1)				Prepared: 12/11/00 Analyzed: 12/12/00						
Diesel Range Hydrocarbons	771	50.0	ug/l	1000		77.1	60-140			
Surrogate: n-Pentacosane	*86.7*		"	*100*		*86.7*	*50-150*			
Matrix Spike (0L11015-MS1)		**Source: MJL0172-01**		Prepared: 12/11/00 Analyzed: 12/13/00						
Diesel Range Hydrocarbons	866	50.0	ug/l	1000	166	70.0	50-150			
Surrogate: n-Pentacosane	*90.3*		"	*100*		*90.3*	*50-150*			
Matrix Spike Dup (0L11015-MSD1)		**Source: MJL0172-01**		Prepared: 12/11/00 Analyzed: 12/13/00						
Diesel Range Hydrocarbons	848	50 0	ug/l	1000	166	68 2	50-150	2.10	50	
Surrogate: n-Pentacosane	*92 4*		"	*100*		*92.4*	*50-150*			

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Blaine Tech Services (Shell)	Project: 3800 Broadway	
1680 Rogers Avenue	Project Number: 3800 Broadway/ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	12/20/00 13:23

Notes and Definitions

D-15	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
P-01	Chromatogram Pattern. Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BLAINE TECH SERVICES INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY: 001129-S1

CLIENT: Equiva - Karen Petryna

SITE: 3800 Broadway
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB ______ DHS # ______

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ______
☐ LIA
☐ OTHER

MJL0093

SPECIAL INSTRUCTIONS
Send invoice to Equiva
Incident # 93995026
Send report to Blaine Tech Services
Attn: ~~Ann Pember~~ Nick Sudano

SAMPLE I.D.	Date	Time	MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	11/29/00	1225	W	5		X			X							01
MW-4	↓	1200	↓	↓		X			X							02
MW-6	↓	1315	↓	↓		X			X							03
MW-7	↓	1115	↓	↓		X			X							04
MW-9	↓	1045	↓	↓		X			X							05
MW-10	↓	1250	↓	↓		X			X							06
MW-11	↓	1135	↓	↓		X			X							07

SAMPLING COMPLETED — DATE 11/29/00 TIME 1315
SAMPLING PERFORMED BY [signature]
RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	11/30	10:10	[signature]	11/30	10/10
RELEASED BY [signature]			RECEIVED BY [signature]	11/30/00	12:19
RELEASED BY			RECEIVED BY		

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 091129-S1 Date 11/29/00 Client Equiva # 93995026

Site 3500 Broadway - 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	D.O. Readings Pre / Post
MW-1	2					22.05	27.64	TOC	
MW-4	2					18.75	25.70		
MW-5	2		Obstruction in well			well is dry, "	8.80		
MW-6	2					21.30	28.35		2.0 / 1.9
MW-7	2					19.52	33.24		4.0 / 3.2
MW-9	2					18.10	33.97		2.0 / 2.0
MW-10	2	odor				16.90	33.14		
MW-11	2					25.80	39.30		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-S1	Site: 23995026
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 29.64	Depth to Water: 22.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
- (Bailer)
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method: (Bailer)
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

1.21 (Gals.) X 3 = 3.64 Gals
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond	Turbidity	Gals. Removed	Observations
1216	65.1	6.7	1114	95	1.21	Cloudy
1218	63.9	6.7	1106	>200	2.43	Turbid
1220	64.4	6.7	1085	>200	3.64	"

Did well dewater? Yes (No) Gallons actually evacuated: 4.00

Sampling Time: 1225 Sampling Date: 11/29/00

Sample I.D.: MW-1 Laboratory: (Sequoia) Columbia Other ____

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

@ Time

E.B I.D. (if applicable): Duplicate I.D. (if applicable): ____

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-SI	Site: 9975026
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 29.70	Depth to Water: 18.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

(Bailer) Waterra
Disposable Bailer Peristaltic
Middleburg Extraction Pump
Electric Submersible Other_____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

1.11 (Gals.) X 3 = 3.34 Gals
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1150	65.2	7.6	538.7	78	1.11	clear
1153	66.3	7.7	528.7	33	2.23	"
1155	66.1	7.6	528.5	42	3.34	"

Did well dewater? Yes (No) Gallons actually evacuated: 3.50

Sampling Time: 1200 Sampling Date: 11/29/00

Sample I.D.: MW-4 Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991129-51	Site: 9399026
Sampler: Stephen	Date: 11/29/99
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: ~~8.80~~ 8.80	Depth to Water: ____
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer	Waterra	
Disposable Bailer	Peristaltic	
Middleburg	Extraction Pump	
Electric Submersible	Other ____	

Sampling Method: (Bailer)

Disposable Bailer	
Extraction Port	
Dedicated Tubing	
Other: ____	

____ (Gals.) X 3 = ____ Gals
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
"Not able to			"obstruction In Well			
sample well." →			Well IS dry			
			total Depth was only 8.80."			

Did well dewater? Yes (NO) Gallons actually evacuated:

Sampling Time: Sampling Date: 11/29/00

Sample I.D.: MW-5 Laboratory: (Sequoia) Columbia Other ____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-S1	Site: #939950 Alo
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 28.35	Depth to Water: 21.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:
(Bailer)
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

1.13 (Gals.) X 3 = 3.38 Gals
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1307	63.6	6.5	1091	118	1.13	cloudy / odor
1309	64.0	6.6	1097	110	2.25	"
1310	64.3	6.6	1098	104	3.38	"

Did well dewater? Yes (No) Gallons actually evacuated: 3.50

Sampling Time: 1315 Sampling Date: 11/29/00

Sample I.D.: MW-6 Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	(Pre-purge)	2.0	mg/L	(Post-purge)	1.8 mg/L
O.R.P. (if req'd):	(Pre-purge)	98	mV	(Post-purge)	79 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-S1	Site: #939950 Alo
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.24	Depth to Water: 19.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:
- (Bailer)
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method: (Bailer)
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

2.20 (Gals.) X 3 = 4.59 Gals
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond	Turbidity	Gals. Removed	Observations
1104	64.5	6.7	477.5	87	2.20	clear
1107	65.8	6.7	482.4	51	4.39	"
1110	66.3	6.7	499.6	150	6.59	cloudy

Did well dewater? Yes (No)	Gallons actually evacuated: 7.00
Sampling Time: 1115	Sampling Date: 11/29/00
Sample I.D.: MW-7	Laboratory: (Sequoia) Columbia Other _____
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)	Other:
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

D.O. (if req'd):	(Pre-purge):	4.0 mg/L	(Post-purge):	3.7 mg/L
O.R.P. (if req'd):	(Pre-purge):	54 mV	(Post-purge):	53 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-S1	Site: #939950240
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.97	Depth to Water: 18.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:

(Bailer) Waterra
Disposable Bailer Peristaltic
Middleburg Extraction Pump
Electric Submersible Other_____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other_____

2.54 (Gals.) X 3 = 7.62 Gals
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1032	67.0	6.7	378.1	138	2.54	clear
1036	68.0	6.7	370.6	125	5.08	"
1040	68.3	6.7	364.1	118	7.62	"

Did well dewater? Yes (No) Gallons actually evacuated: 8.00

Sampling Time: 1045 Sampling Date: 11/29/00

Sample I.D.: MW-9 Laboratory: (Sequoia) Columbia Other:_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	(Pre-purge)	2.0	mg/L	(Post-purge)	2.0 mg/L
O.R.P. (if req'd):	(Pre-purge)	116	mV	(Post-purge)	124 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-SI	Site: 939950=6
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.14	Depth to Water: 16.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

(Bailer)
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other ____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

2.60 (Gals.) X 3 = 7.80 Gals
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1037	65.3	6.7	622.1	197	2.60	cloudy/odor
1241	66.4	6.7	792.4	>200	5.20	turbid/odor
1245	66.9	6.8	792.5	>200	7.80	"

Did well dewater? Yes (No) Gallons actually evacuated: 7.80

Sampling Time: 1250 Sampling Date: 11/29/00

Sample I.D.: MW-10 Laboratory: (Sequoia) Columbia Other ____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 001129-S1	Site: # 93995026
Sampler: Stephen	Date: 11/29/00
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 37.30	Depth to Water: 25.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

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

Sampling Method: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing Other ___

2.16 (Gals.) X 3 = 6.48 Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	$radius^2 * 0.163$

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1124	63.3	6.7	730.1	109	2.16	cloudy
1127	64.4	6.8	726.2	89	4.32	"
1130	64.8	6.8	738.8	7200	6.48	Turbid

Did well dewater? Yes (No)	Gallons actually evacuated: 6.50
Sampling Time: 1135	Sampling Date: 11/29/00
Sample I.D.: MW-11	Laboratory: (Sequoia) Columbia Other ___
Analyzed for: ~~TPH-G BTEX MTBE~~ TPH-D	Other:
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
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