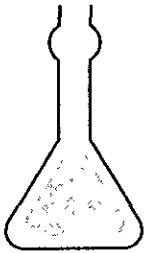


RO 56



**TOXICHEM
Management
Systems, Inc.**

Environmental & Occupational Health Services

1562 44th Avenue
San Francisco, California 94122
(415) 681-8816 / Fax (415) 681-8132

Industrial Hygiene - Exposure Assessment
Quantitative Risk Assessment
Compliance Audits
Real Property Environmental Assessments
Remedial Investigations
Air, Soil, and Groundwater Sampling
Remedial Engineering and Construction
Regulatory Compliance and Negotiation
Litigation Support Services

December 7, 2001
Project EQ-02.1A

435

DEC 11 2001

REPORTS

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

Re: **Quarterly Monitoring Report - Third Quarter 2001**
Former Texaco/Current Broadway Discount Gas Station
3810 Broadway, Oakland, California
Equiva Incident No. 93995026, SAP No. 128141

Dear Mr. Chan:

On behalf of Equiva Services LLC, this letter transmits the results of third quarter 2001 groundwater monitoring and sampling conducted at the site referenced above. This report presents an interpretation of results and recommendations and schedule for future actions. The groundwater elevation and analytical data are shown on Figures 1 and 2, respectively.

INTERPRETATION OF RESULTS

Groundwater Elevation

Groundwater monitoring and sampling data for the reporting was collected by Blaine Tech Services, Inc. on September 5, 2001. The average groundwater elevation at the site decreased approximately 1 to 3 feet since the previous quarterly groundwater monitoring and sampling event, and it remains within the historical range of groundwater elevation.

Groundwater Flow Direction and Gradient

During the reporting quarter, the predominant direction of groundwater flow was to the northeast and the groundwater gradient was estimated to range from 0.001 to 0.24.

Analytical Results

During the reporting quarter, separate phase hydrocarbons (SPH) were not measured in any well. Overall, the dissolved groundwater concentrations appear stable with no apparent fluctuations outside historical ranges. The analysis for methyl tertiary butyl ether by EPA Method 8260 has resumed, pursuant to Alameda County Health Care Services Agency's (ACHCSA's) request dated March 29, 2001.

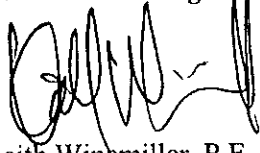
RECOMMENDATIONS AND SCHEDULE FOR FUTURE ACTIONS

1. Continue the quarterly groundwater monitoring and sampling program.
2. Properly destroy and replace Well MW-5, and install one new well to replace previously destroyed Wells MW-3 and MW-8 following ACHCSA approval of the proposed scope of work described in the *Quarterly Monitoring Report - Second Quarter 2001* (TOXICHEM, August 8, 2001).

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

Sincerely,

Toxichem Management Systems, Inc.



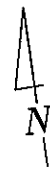
Keith Winemiller, P.E.
Senior Engineer



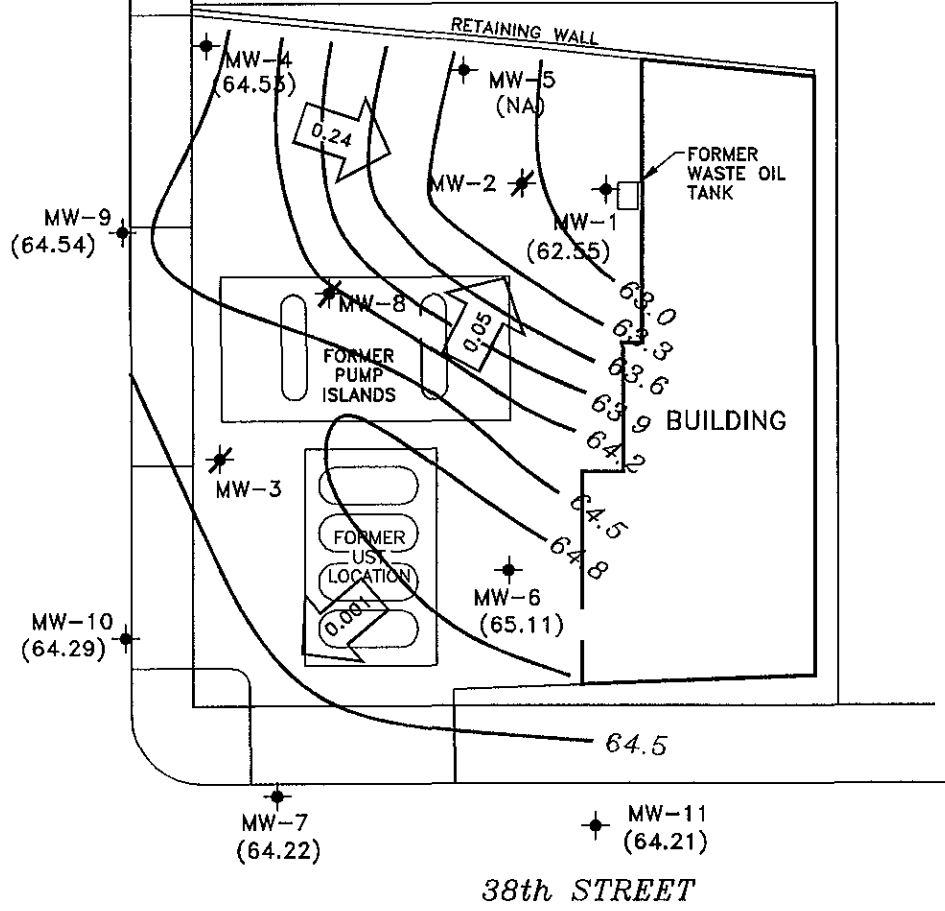
cc: Ms. Karen Petryna, P.E., Equiva Services LLC, P. O. Box 7869, Burbank, CA 91510-7869

cc (without CAR/COC and Field Data Sheets):

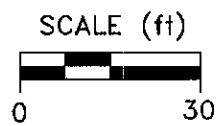
Mr. Joe Zadik, 8255 San Leandro Street, Oakland, CA 94621



BROADWAY



- EXPLANATION**
- MONITORING WELL
 - DESTROYED WELL
 - (64.69) GROUNDWATER ELEVATION (FT, MSL), 9-5-01
 - NA NOT AVAILABLE
 - APPROXIMATE DIRECTION OF GROUNDWATER AND APPROXIMATE GRADIENT

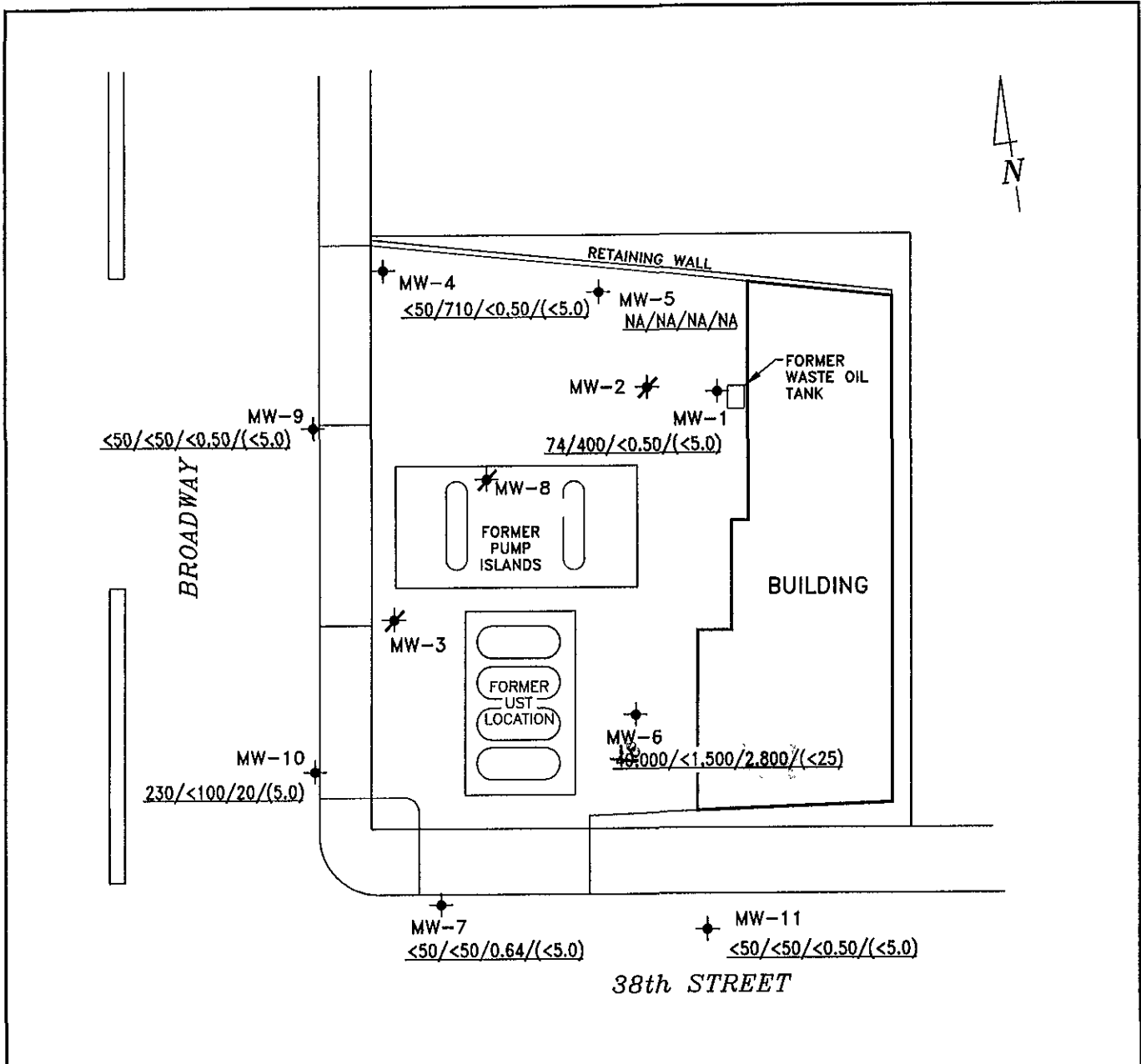


Reference: EQ-02.1A/EQ02QWR.DWG
 Basemap from Remediation Risk Management, Inc.



GROUNDWATER ELEVATION CONTOUR MAP, SEPTEMBER 5, 2001
 Former Texaco/Current Broadway Discount Gas Station
 3810 Broadway
 Oakland, California

FIGURE: 1
 PROJECT: EQ-02

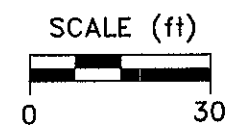


EXPLANATION

◆ MONITORING WELL
 ✱ DESTROYED WELL

<50/<50/0.64/<5.0) TPPH/TEPH/BENZENE CONCENTRATION IN GROUNDWATER, IN MICROGRAMS PER LITER, 9-5-01 MIBE BY EPA METHOD 8020, () BY EPA METHOD 8260

NA DATA NOT AVAILABLE



Reference: EQ-02.1A/EQ02QMR.DWG
 Basemap from Remediation Risk Management, Inc.



TPPH/TEPH/BENZENE CONCENTRATION MAP, SEPTEMBER 5, 2001

Former Texaco/Current Broadway Discount Gas Station
 3810 Broadway
 Oakland, California

FIGURE: 2

PROJECT: EQ-02

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

October 3, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2001 Groundwater Monitoring at
Former Texaco Service Station
3800 Broadway
Oakland, CA

Monitoring performed on September 5, 2001

Groundwater Monitoring Report **010905-B-2**

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. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

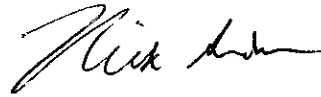
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,



Nick Sudano
Project Coordinator

NS/jt

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

cc: Keith Winemiller
Toxichem Management Systems, Inc.
1562 44th Avenue
San Francisco, CA 94122

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)
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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-1	03/06/2001	NA	NA	NA	NA	NA	NA	NA	NA	86.92	19.79	NA	67.13	NA	NA
MW-1	03/23/2001	204	d	10.7	<0.500	<0.500	<0.500	NA	NA	86.92	20.15	NA	66.77	NA	NA
MW-1	06/19/2001	<50	330	<0.50	<0.50	<0.50	<0.50	NA	0.87	86.92	21.78	NA	65.14	NA	NA
MW-1	09/05/2001	74	400	<0.50	0.63	<0.50	2.7	NA	<5.0	86.92	24.37	NA	62.55	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

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)
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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
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

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-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
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-4	03/06/2001	<50.0	50.9	<0.500	<0.500	<0.500	<0.500	NA	NA	83.63	17.81	NA	65.82	NA	NA
MW-4	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	83.63	18.55	NA	65.08	NA	NA
MW-4	09/05/2001	<50	710	<0.50	<0.50	<0.50	<0.50	NA	<5.0	83.63	19.10	NA	64.53	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

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)
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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-5	03/06/2001	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	06/19/2001	Obstruction in well		NA	NA	NA	NA	NA	NA	85.13	NA	NA	NA	NA	NA
MW-5	09/05/2001	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
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-6	03/06/2001	32,100	2,220	3,760	4,590	1,160	5,360	NA	NA	86.48	19.05	NA	67.43	NA	3.7/4.0
MW-6	06/19/2001	40,000	<1,500	2,800	6,000	1,200	5,300	NA	<25	86.48	21.11	NA	65.37	NA	3.0/3.4
MW-6	09/05/2001	18,000	<1,000	3,800	800	730	1,400	NA	<200	86.48	21.37	NA	65.11	NA	10.4/10.8

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

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-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
MW-7	03/06/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	84.44	17.15	NA	67.29	NA	4.7/5.1
MW-7	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	84.44	19.30	NA	65.14	NA	3.8/4.2
MW-7	09/05/2001	<50	<50	0.64	0.84	0.94	5.2	NA	<5.0	84.44	20.22	NA	64.22	NA	6.7/7.1
p															
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

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)
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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
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-9	03/06/2001	<50.0	94.2	<0.500	<0.500	<0.500	<0.500	NA	NA	82.52	16.75	NA	65.77	NA	4.0/4.9
MW-9	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	82.52	17.83	NA	64.69	NA	3.4/4.0
MW-9	09/05/2001	<50	<50	<0.50	<0.50	<0.50	1.6	NA	<5.0	82.52	17.98	NA	64.54	NA	2.7/2.0

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

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)
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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-10	03/06/2001	837	199	34.2	26.4	20.8	27.5	NA	NA	82.16	14.80	NA	67.36	NA	NA
MW-10	06/19/2001	400	<50	47	2.6	8.8	17	NA	0.60	82.16	16.85	NA	65.31	NA	NA
MW-10	09/05/2001	230	<100	20	<0.50	1.2	5.3	NA	<5.0	82.16	17.87	NA	64.29	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
MW-11	03/06/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	90.63	23.32	NA	67.31	NA	NA
MW-11	06/19/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	90.63	25.57	NA	65.06	NA	NA
MW-11	09/05/2001	<50	<50	<0.50	<0.50	<0.50	0.68	NA	<5.0	90.63	26.42	NA	64.21	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)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 19, 2001, analyzed by EPA method 8015.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 19, 2001, analyzed 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.

d = Sample containers for TEPH broke during transport to lab.

Survey information provided by Toxicchem Management Systems, Inc., on December 11, 2000.



Report Number : 22163

Date : 9/24/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 7 Water Samples
Project Name : 3800 Broadway, Oakland
Project Number : 010905-B2
P.O. Number : 93995026

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,


Joel Kiff



Report Number : 22163


Date : 9/24/2001

Subject : 7 Water Samples
Project Name : 3800 Broadway, Oakland
Project Number : 010905-B2
P.O. Number : 93995026

Case Narrative

The Method Reporting Limit for TPH as Diesel has been increased due to interference from Gasoline-Range Hydrocarbons for the following samples :

MW-6
MW-10

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Sample : MW-1

Matrix : Water

Lab Number : 22163-01

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Toluene	0.63	0.50	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Total Xylenes	2.7	0.50	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	74	50	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	86.5		% Recovery	EPA 8260B	9/16/2001
TPH as Diesel	400	50	ug/L	M EPA 8015	9/18/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Sample : MW-4

Matrix : Water

Lab Number : 22163-02

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	84.6		% Recovery	EPA 8260B	9/16/2001
TPH as Diesel	710	50	ug/L	M EPA 8015	9/17/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Sample : MW-6

Matrix : Water

Lab Number : 22163-03

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3800	20	ug/L	EPA 8260B	9/16/2001
Toluene	800	20	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	730	20	ug/L	EPA 8260B	9/16/2001
Total Xylenes	1400	20	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 200	200	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	18000	2000	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	88.3		% Recovery	EPA 8260B	9/16/2001
TPH as Diesel	< 1000	1000	ug/L	M EPA 8015	9/18/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2


Sample : MW-7

Matrix : Water

Lab Number : 22163-04

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.64	0.50	ug/L	EPA 8260B	9/16/2001
Toluene	0.84	0.50	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	0.94	0.50	ug/L	EPA 8260B	9/16/2001
Total Xylenes	5.2	0.50	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	88.1		% Recovery	EPA 8260B	9/16/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	9/18/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

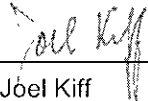
Sample : MW-9

Matrix : Water

Lab Number : 22163-05

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Total Xylenes	1.6	0.50	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	86.4		% Recovery	EPA 8260B	9/16/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	9/18/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Sample : MW-10

Matrix : Water

Lab Number : 22163-06

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	20	0.50	ug/L	EPA 8260B	9/17/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/17/2001
Ethylbenzene	1.2	0.50	ug/L	EPA 8260B	9/17/2001
Total Xylenes	5.3	0.50	ug/L	EPA 8260B	9/17/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/17/2001
TPH as Gasoline	230	50	ug/L	EPA 8260B	9/17/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/17/2001
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	9/17/2001
TPH as Diesel	< 100	100	ug/L	M EPA 8015	9/18/2001

Approved By:  Joel Kiff



Report Number : 22163

Date : 9/24/2001

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Sample : MW-11

Matrix : Water

Lab Number : 22163-07

Sample Date :9/5/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2001
Total Xylenes	0.68	0.50	ug/L	EPA 8260B	9/18/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/18/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/18/2001
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	9/18/2001
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	9/18/2001
TPH as Diesel	< 50	50	ug/L	M EPA 8015	9/18/2001

Approved By.  Joel Kiff

Report Number : 22163

Date : 9/24/2001

Project Name : **3800 Broadway, Oakland**

Project Number : **010905-B2**

22163 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	9/17/2001

Approved By:  Joel Kiff

Report Number : 22163

Date : 9/24/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	958	796	ug/L	M EPA 8015	9/17/2001	195.8	79.6	18.6	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 22163

Date : 9/24/2001

Project Name : **3800 Broadway, Oakland**

Project Number : **010905-B2**

22163 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/16/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/16/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/16/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	9/16/2001
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	9/16/2001

Approved By:  Joel Kiff

Report Number : 22163

Date : 9/24/2001

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 3800 Broadway, Oakland

Project Number : 010905-B2

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	22239-20	<0.50	18.4	19.1	19.0	19.7	ug/L	EPA 8260B	9/16/2001	103	103	0.0728	70-130	25
Toluene	22239-20	<0.50	18.4	19.1	19.3	20.0	ug/L	EPA 8260B	9/16/2001	105	105	0.0954	70-130	25
Tert-Butanol	22239-20	<5.0	92.0	95.6	80.4	86.9	ug/L	EPA 8260B	9/16/2001	187.4	90.9	3.92	70-130	25
Methyl-t-Butyl Ether	22239-20	<0.50	18.4	19.1	18.0	18.4	ug/L	EPA 8260B	9/16/2001	197.8	96.4	1.49	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 22163

Date : 9/24/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **3800 Broadway, Oakland**

Project Number : **010905-B2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	19.6	ug/L	EPA 8260B	9/16/2001	103	70-130
Toluene	19.6	ug/L	EPA 8260B	9/16/2001	104	70-130
Tert-Butanol	98.2	ug/L	EPA 8260B	9/16/2001	84.9	70-130
Methyl-t-Butyl Ether	19.6	ug/L	EPA 8260B	9/16/2001	79.0	70-130

KIFF ANALYTICAL, LLC

Approved By:



Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAB: KIFF

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary)
Address
City, State, Zip

Equiva Project Manager to be invoiced:
 SCIENCE & ENGINEERING
 ~~SCIENCE & ENGINEERING~~
 CRMT HOUSTON
Karen Petryna
22163

INCIDENT NUMBER (S&E ONLY)
 9 3 9 9 5 0 2 6
 SAP or CRMT NUMBER (IS/CRMT)

DATE: 9/5/01
 PAGE 1 of 1

CONSULTANT COMPANY
Blaine Tech Services
 ADDRESS
1680 Rogers Avenue
 CITY
San Jose, CA 95112
 TELEPHONE
408-573-0555 FAX
408-573-7771 E-MAIL
nsudano@blainetech.com

SITE ADDRESS (Street and City):
3800 Broadway, Oakland
 PROJECT CONTACT (Report to):
Nick Sudano CONSULTANT PROJECT NO.
BTS # 010905-B2
 SAMPLER NAME(S) (Print):
Shaun O Bryan LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQOCB REPORT FORMAT UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT OF _____

REQUESTED ANALYSIS

CAR USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO OF CONT	TPH- Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5 ppbRL)	Oxygenates (5) by (8260)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH-Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See note
	MW-1	9/5/01	1445	W	3	X	X	X							X	
	MW-4	9/5/01	1522			X	X	X							X	
	MW-6		1642			X	X	X							X	
	MW-7		1438			X	X	X							X	
	MW-9		1520			X	X	X							X	
	MW-10		1442			X	X	X							X	
	MW-11		1612			X	X	X							X	

FIELD NOTES:
 Container/Preservative
 or PID Readings
 or Laboratory Notes

Relinquished by: (Signature)
 Relinquished by: (Signature)
 Relinquished by: (Signature)

Received by: (Signature)
 Received by: (Signature)
 Received by: (Signature)
John Crowl Kiff Analytical

Date: _____ Time: _____
 Date: _____ Time: _____
 Date: 090601 Time: 12:30

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93975026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>28.80</u>	Depth to Water: <u>24.37</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

<input checked="" type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input type="radio"/> Middleburg <input type="radio"/> Electric Submersible	<input checked="" type="radio"/> Waterra <input type="radio"/> Peristaltic <input type="radio"/> Extraction Pump <input type="radio"/> Other _____
--	---

Sampling Method:

<input checked="" type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input type="radio"/> Extraction Port <input type="radio"/> Dedicated Tubing	Other: _____
---	--------------

$$\frac{.7 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = \frac{2.1 \text{ Gals.}}{\text{Calculated Volume}}$$

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
1632	67.1	7.0	1125	>200	.75	Grey
1637	67.9	7.0	1154	>200	1.5	"
1641	68.1	7.0	1156	>200	2.25	"

Did well dewater? Yes No

Gallons actually evacuated: 2.25

Sampling Time: 1645 Sampling Date: 9/5/01

Sample I.D.: MW-1 Laboratory: Sequoia Columbia Other KiFP

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 #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93995026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>35.00</u>	Depth to Water: <u>19.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible

- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: _____

$$2.5 \text{ (Gals.)} \times 3 = 7.5 \text{ Gals.}$$
 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
1510	69.7	7.4	440	7200	2.5	
1514	68.4	7.1	444	7200	5	
1518	67.6	7.2	455	7200	7.5	

Did well dewater? Yes No

Gallons actually evacuated: 7.5

Sampling Time: 1522

Sampling Date: 9/5/01

Sample I.D.: MW-4

Laboratory: Sequoia Columbia Other KiFP

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:

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93995026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: NA <u>10.20'</u>	Depth to Water: <u>NA</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
 Disposable Bailer
 Middleburg
 Electric-Submersible
 Water
 Peristaltic
 Extraction Pump
 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	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>Obstruction in well at 10.20'</u>						

Did well dewater? Yes No

Gallons actually evacuated: _____

Sampling Time: _____

Sampling Date: 9/5/01

Sample I.D.: _____

Laboratory: Sequoia Columbia Other K:FP

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 #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93975026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 10 12 14 16 18 20
Total Well Depth: <u>32.65</u>	Depth to Water: <u>21.37</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible

- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other _____

1.8 (Gals.) X 3 = 5.4 Gals.
 I 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
1630	67.8	6.8	1038	7200	2	Grey-clay like
1634	66.9	7.4	1027	7200	4	
1638	66.9	7.4	1022	168	5.5	clearing

Did well dewater? Yes No

Gallons actually evacuated: 5.5

Sampling Time: 1642

Sampling Date: 9/5/01

Sample I.D.: MW-6

Laboratory: Sequoia Columbia Other KiFP

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

EB 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:	<u>10.4</u> mg/L	Post-purge:	<u>10.8</u> mg/L
	O.R.P. (if req'd):	Pre-purge:	<u>-3</u> mV	Post-purge:

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93995026</u>
Sampler: <u>O' Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>33.87</u>	Depth to Water: <u>20.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

Bailei
 Disposable Bailei
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

Bailei
 Disposable Bailei
 Extraction Port
 Dedicated Tubing
 Other: _____

2.2 (Gals.) X 3 = 6.6 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
<u>1419</u>	<u>71.5</u>	<u>7.4</u>	<u>141</u>	<u>7200</u>	<u>2.5</u>	
<u>1425</u>	<u>69.1</u>	<u>7.2</u>	<u>600</u>	<u>7200</u>	<u>5</u>	
<u>1430</u>	<u>70.2</u>	<u>7.1</u>	<u>625</u>	<u>7200</u>	<u>6.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 6.5

Sampling Time: 1438 Sampling Date: 9/5/01

Sample I.D.: MW-7 Laboratory: Sequoia Columbia Other KiFP

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: <u>6.7</u> mg/L	Post-purge: <u>7.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>14</u> mV	Post-purge: <u>45</u> mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93995026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-9</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>34.10</u>	Depth to Water: <u>17.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

2.6 (Gals.) X 3 = 7.8 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
1508	74.1	7.7	452	7200	2.75	
1512	69.7	7.2	387	7200	5.5	
1516	70.0	7.1	399	7200	8	

Did well dewater? Yes No

Gallons actually evacuated: 8

Sampling Time: 1520 Sampling Date: 9/5/01

Sample I.D.: MW-9 Laboratory: Sequoia Columbia Other KiFF

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: <u>2.7</u> mg/L	Post-purge: <u>2.0</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>10</u> mV	Post-purge: <u>29</u> mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93975026</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-10</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>33.40</u>	Depth to Water: <u>18.87</u> <u>17.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible

- Watera
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: _____

$$\frac{2.5 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 7.5 \text{ Gals. Calculated Volume}$$

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
1424	68.9	7.0	791	7200	2.5	
1428	70.6	7.0	508	173	5	
1436	69.5	6.9	625	7200	7.5	

Did well dewater? Yes No Gallons actually evacuated: 7.5

Sampling Time: 1442 Sampling Date: 9/5/01

Sample I.D.: MW-10 Laboratory: Sequoia Columbia Other KiFP

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 #: <u>010905-B2</u>	Site: <u>3800 Broadway # 93975020</u>
Sampler: <u>O'Bryan</u>	Date: <u>9/5/01</u>
Well I.D.: <u>MW-11</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>39.30</u>	Depth to Water: <u>26.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

- | | |
|--|---|
| <ul style="list-style-type: none"> Bailer Disposable Bailer <u>Middleburg</u> Electric Submersible | <ul style="list-style-type: none"> Watera Peristaltic Extraction Pump Other _____ |
|--|---|

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other _____

$$\frac{2.1}{1} \text{ (Gals.)} \times \frac{3}{\text{Specified Volumes}} = \frac{6.3}{\text{Calculated Volume}} \text{ Gals}$$

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
1600	66.7	7.6	694	>200	2.25	
1604	66.2	7.8	801	>200	4.5	
1608	66.1	7.4	834	>200	6.5	

Did well dewater? Yes No

Gallons actually evacuated: 6.5

Sampling Time: 1612

Sampling Date: 9/5/01

Sample I.D.: MW-11

Laboratory: Sequoia Columbia Other K:FP

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: