November 26, 2007

VIA ALAMEDA COUNTY FTP SITE

Ms. Donna Drogos
Alameda County Environmental Health
1331 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Groundwater Monitoring Report – Third Quarter 2007**
5175 Broadway Street
Oakland, California
ACEH Fuel Leak Case No. RO#0000139

Dear Ms. Drogos:

On behalf of Rockridge Heights LLC, Pangea Environmental Services, Inc., has prepared this *Groundwater Monitoring Report – Third Quarter 2007.* The report describes groundwater monitoring, sampling, and other site activities.

The report will be uploaded to the Alameda County ftp site. As requested, Pangea will not submit a hard copy of this report to Alameda County Environmental Health.

If you have any questions or comments, please call me at (510) 435-8664.

Sincerely,
Pangea Environmental Services, Inc.

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – Third Quarter 2007*

cc: Rockridge Heights, LLC, C/O Gary Feiner, 34 Schooner Hill, Oakland, California, 94618
SWRCB Geotracker (Electronic copy)

GROUNDWATER MONITORING REPORT – THIRD QUARTER 2007

5175 Broadway
Oakland, California

November 26, 2007

Prepared for:

Rockridge Heights, LLC
C/O Gary Feiner
34 Schooner Hill
Oakland, California 94618

Prepared by:

Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, California 94612

Written by:

Morgan Gillies
Project Manager

Bob Clark-Riddell, P.E.
Principal Engineer

INTRODUCTION

On behalf of Rockridge Heights, LLC, Pangea Environmental Services, Inc. (Pangea) conducted groundwater monitoring and sampling at the subject site (Figure 1). The purpose of the monitoring and sampling is to evaluate dissolved contaminant concentrations, determine the groundwater flow direction, and inspect site wells for separate-phase hydrocarbons (SPH). Current groundwater analytical results and elevation data are shown on Figures 2 and 3. Current and historical data are summarized on Table 1.

SITE BACKGROUND

The subject property is located at 5175 Broadway Street, at the southwest corner of the intersection of Broadway and Coronado Avenue in Oakland, California in Alameda County (Figure 1). The site is approximately 0.6 miles south-southeast of Highway 24 and approximately 2.3 miles east of Interstate 80 and the San Francisco Bay. The property is relatively flat lying, with a slight slope to the south-southwest, and lies at an elevation of approximately 160 feet above mean sea level. Topographic relief in the area surrounding the site also slopes generally towards the south-southwest. The western site boundary is the top of an approximately 10 foot high retaining wall that separates the site from an adjacent apartment complex.

The property has been vacant since 1979 and was formerly occupied by an Exxon Service Station used for fuel sales and automobile repair. The site is approximately 13,200 square feet in area with about 10% of the area occupied by a vacant station/garage structure. The majority of the ground surface is paved with concrete and/or asphalt, although the former tank location is not paved. Land use to the west and northwest is residential, including apartment buildings and single family homes. Properties to the northeast, east and south of the site are commercial. The site and adjacent properties are shown on Figure 2.

Environmental compliance work commenced when the site USTs were removed in January 1990. Three 8,000-gallon steel single-walled USTs, associated piping, and a 500-gallon steel single-walled waste oil tank were removed. Tank Project Engineering, Inc. (TPE) conducted the tank removal and observed holes in all four tanks. Approximately 700 tons of contaminated soil was excavated during tank removal and was subsequently remediated and reused for onsite backfill by TPE. In April 1990, TPE installed and sampled monitoring wells MW-1, MW-2 and MW-3. In June 1991, Soil Tech Engineering (STE), subsequently renamed Environmental Soil Tech Consultants (ESTC) installed monitoring wells STMW-4 and STMW-5. Groundwater monitoring was conducted on the site intermittently until October 2002. Golden Gate Tank Removal (GGTR) performed additional assessment in January and February 2006. In June 2006, the property was purchased by Rockridge Heights, LLC. Pangea commenced quarterly groundwater monitoring at the site in July 2006. MTBE is not considered to be a contaminant of concern because use of the site for fuel sales

predates widespread use of MTBE in gasoline and because analytical results have not show significant detections of MTBE.

In January and March 2007, Pangea installed twelve wells (MW-2C, MW-3A, MW-3C, MW-4A, MW-5A, MW-5B, MW-5C, MW-6A, MW-7B, MW-7C, MW-8A and MW-8C) and three offsite soil borings to help define the vertical and lateral extent of groundwater contamination. Pangea also abandoned four monitoring wells (MW-2, MW-3, STMW-4 and STMW-5) to reduce the risk of vertical contaminant migration and improve the quality of monitoring data. New wells installed at the site were categorized according to the depths of their screen intervals. Shallow (A-zone) wells have screen intervals of approximately 10 to 15 feet bgs, which generally straddle the top of the water table and are generally screened in surficial fill and alluvium. Intermediate-depth (B-zone) wells are screened at approximately 15 to 20 feet bgs, either in surficial strata or underlying fractured bedrock, while deep (C-zone) wells are generally screened at approximately 20 to 25 feet bgs and into fractured bedrock. Well MW-1 is screened across both the A-zone and B-zone.

In April 2007, Pangea performed a dual-phase extraction (DPE) pilot test to evaluate whether DPE is an appropriate remedial technology to remove residual hydrocarbons from beneath the site. In July 2007, Pangea submitted an Interim Remedial Action Plan for site corrective action.

In August 2007, Pangea installed three offsite monitoring wells (MW-9A, MW-9C and MW-10A). The purpose of the offsite well installation was to determine the downgradient extent of contaminant migration, and to help evaluate downgradient effects of any future remediation conducted onsite. Offsite monitoring well installation is described in Pangea's *Soil Gas Sampling and Well Installation Report* dated October 23, 2007.

GROUNDWATER MONITORING AND SAMPLING

On September 29, 2007, Pangea conducted groundwater monitoring and sampling at the site. Site monitoring wells were gauged for depth-to-water and inspected for separate-phase hydrocarbons (SPH). To obtain water levels representative of the piezometric surface, technicians removed all well caps (allowing water levels to equilibrate) the night prior to sampling. Groundwater samples were collected from all site monitoring wells, except for MW-5A which had insufficient water to sample.

Prior to sample collection, approximately three casing volumes of water were purged using disposable bailers, an electric submersible pump, or a clean PVC bailer. During well purging, field technicians measured the pH, temperature and conductivity of the water. A groundwater sample was collected from each well with a disposable bailer and decanted into the appropriate containers supplied by the analytical laboratory. Groundwater samples were labeled, placed in protective plastic bags, and stored on crushed ice at or below 4°

C. All samples were transported under chain-of-custody to the State-certified analytical laboratory. Purge water was stored onsite in DOT-approved 55-gallon drums. Groundwater monitoring field data sheets, including purge volumes and field parameter measurements, are presented in Appendix A.

MONITORING RESULTS

Current and historical groundwater elevation and analytical data are described below and summarized on Table 1, Figure 2 and Figure 3. Groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015C with silica gel cleanup; total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015C; and benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. Samples were analyzed by McCampbell Analytical, Inc., of Pittsburg, California, a State-certified laboratory. The laboratory analytical report is included in Appendix B.

Groundwater Flow Direction

Based on depth-to-water data collected September 29, 2007, shallow groundwater (A-zone) flows generally southwards to southwestwards at a gradient of approximately 0.06 ft/ft throughout most of the site and in the area immediately downgradient (southwest) of the site, as shown on Figure 2. However, the relatively low groundwater elevations measured in MW-1 and MW-4A suggest that groundwater is mounded in the former UST excavation and that the local flow direction in the northeast corner of the site radiates outwards away from the former excavation area. These observations are interpreted as indicating that the unpaved former UST excavation has acted as a collector for rainwater and that the asphalt pavement covering the remainder of the site serves to reduce infiltration elsewhere while directing rainwater to the unpaved UST excavation area. The current inferred flow direction in shallow groundwater is generally consistent with previous monitoring results.

Groundwater flow in the deep groundwater (C-zone) is generally southwestwards at approximately the same gradient as the A-zone wells, as shown on Figure 3. The elevation of the piezometric surface for C-zone wells is lower than elevations for A-zone wells indicating that a downward gradient is present. The inferred flow direction is generally consistent with previous monitoring results.

Hydrocarbon Distribution in Groundwater

No measurable thickness of separate phase hydrocarbons (SPH) was observed in any monitoring wells this quarter, although a light but immeasurable sheen of SPH was observed by the field technician in the sample from monitoring well MW-3C, and the laboratory reported the presence of immiscible sheen or product in

samples from wells MW-3C, MW-4A, MW-7B, MW-7C and MW-9C. During previous quarterly monitoring, a thin layer of SPH had been observed in well STMW-4, but no SPH were detected this quarter in well MW-4A, which was installed in the drilled out borehole of STMW-4 but screened over a shallower depth interval than STMW-4.

The maximum TPHg concentration detected this quarter in shallow A-zone groundwater was 130,000 µg/L in well MW-4A, located just north of the former UST excavation area. In deeper B- and C-zone groundwater, the maximum TPHg concentration was detected in source area well MW-3C (48,000 µg/L). The maximum benzene concentration was detected in well MW-3A (3, 500 µg/L). The highest TPHd concentration was detected in well MW-4A (170,000 µg/L). The newly installed offsite monitoring wells contained significantly lower hydrocarbon concentrations than onsite wells, with the highest hydrocarbon concentrations detected in MW-9A (2.6 µg/L benzene) and MW-9C (390 µg/L TPHd and 68 µg/L TPHg) No hydrocarbons were detected in MW-10A.

Shallow (A-zone) groundwater contains petroleum hydrocarbons at elevated concentrations in two primary areas near the former UST excavation: a northern area in the vicinity of well MW-4A, and a southwestern area in the vicinity of wells MW-3A and MW-8A. Prior shallow grab groundwater sampling data also indicates that the southern area of contamination extends to the southern site boundary in the vicinity of wells MW-7B and MW-7C. The low to non-detect concentrations of hydrocarbons in newly installed wells MW-9A and MW-10A indicate that offsite migration of petroleum hydrocarbons in shallow groundwater is minimal. The observed distribution of hydrocarbons in A-zone groundwater is presumably due to plume migration radially away from the excavation area, likely caused by mounding of groundwater within the uncapped former UST excavation during the rainy season.

Contaminant distribution in deeper groundwater differs significantly from the distribution of hydrocarbons in shallow groundwater. High levels of contamination within deeper (B- and C-zone) groundwater only appear to be present in the vicinity of wells MW-3C, MW-7B and MW-7C in the central and southern portions of the site. The very low concentrations of petroleum hydrocarbons detected in newly installed offsite well MW-9C indicate that offsite plume migration is minimal.

Fuel Oxygenate Distribution in Groundwater

No measurable concentrations of MTBE were detected in any of the samples obtained from site monitoring wells this quarter. MTBE is not a contaminant of concern at this site.

OTHER SITE ACTIVITIES

Groundwater Monitoring

Groundwater monitoring and sampling will be conducted at the subject site on a quarterly basis. During the next quarter, Pangea will conduct gauging and sampling of all site groundwater monitoring wells. Groundwater samples will be analyzed for TPHg/BTEX/MTBE by EPA Method 8015Cm/8021B, and TPHd by EPA Method 8015C with silica gel cleanup. Pangea will summarize groundwater monitoring activities and results in a groundwater monitoring report.

Site Investigation

Pangea installed offsite monitoring wells MW-9A, MW-10A and MW-10C in August 2007 and completed soil vapor and subslab vapor sampling of adjacent downgradient properties in September 2007. These activities were reported in the *Soil Gas Sampling and Well Installation Report* dated October 23, 2007. Two of the vapor sampling locations had benzene concentrations exceeding Environmental Screening Levels (ESLs) published by the Regional Water Quality Control Board – San Francisco Region (RWQCB). The report included recommendations to further evaluate subsurface soil vapor by conducting additional soil gas sampling east of the apartment building located northwest of the site and by resampling subslab locations within the commercial building south of the site. Offsite groundwater contamination appears adequately defined by offsite wells MW-9A, MW-9C and MW-10A, so additional offsite groundwater characterization does not appear to be merited.

Site Remediation

The relatively low petroleum hydrocarbon concentrations detected in offsite soil gas and groundwater suggest that the hydrocarbon impact is primarily limited to the 5175 Broadway property. Pangea recommends implementing site remediation at the 5175 Broadway property. Pangea understands that Alameda County Environmental Health (ACEH) provided comments on Pangea's IRAP on September 11, 2007 to Rockridge Heights, LLC representative Lucy Armentrout and requested preparation of a Corrective Action Plan (CAP). The ACEH would like the CAP to include more aggressive remediation than the long-term biosparging proposed in the IRAP and the ACEH will provide public notice with the CAP. Pangea will prepare a CAP to address the ACEH requests.

Electronic Reporting

This report will be uploaded to the Alameda County ftp site. The report, laboratory data, and other applicable information will also be uploaded to the State Water Resource Control Board's Geotracker database. As requested, report hard copies will no longer be provided to the local agencies.

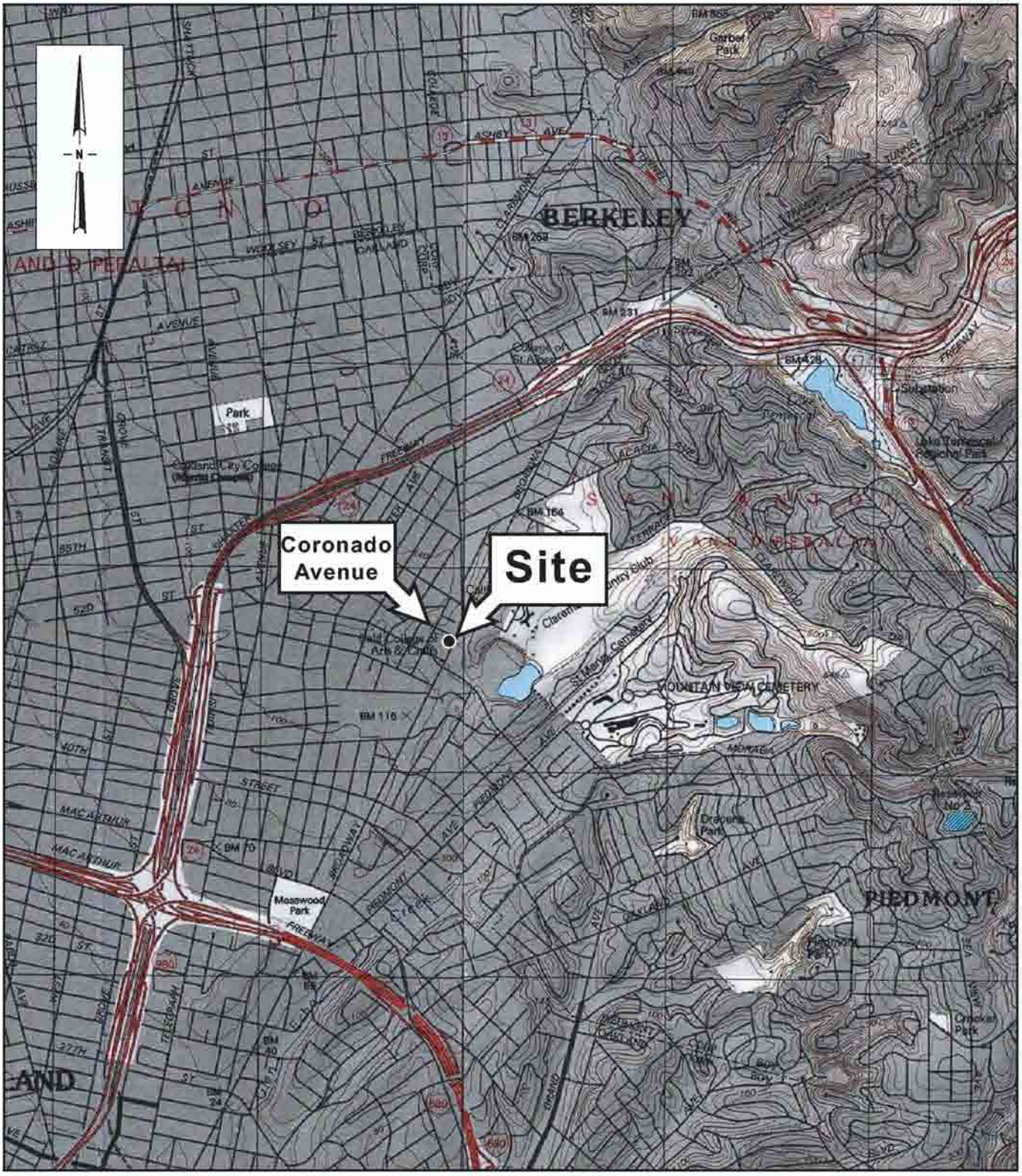
ATTACHMENTS

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map (Shallow)
Figure 3 – Groundwater Elevation Contour and Hydrocarbon Concentration Map (Deep)

Table 1 – Groundwater Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets
Appendix B – Laboratory Analytical Report

7/16/2007



SOURCE: TOPO! MAPS

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SCALE : 1" = 1/4 MILE

Figure 1

Site Location Map

Former Exxon Station
5175 Broadway
Oakland, California

PANGEA

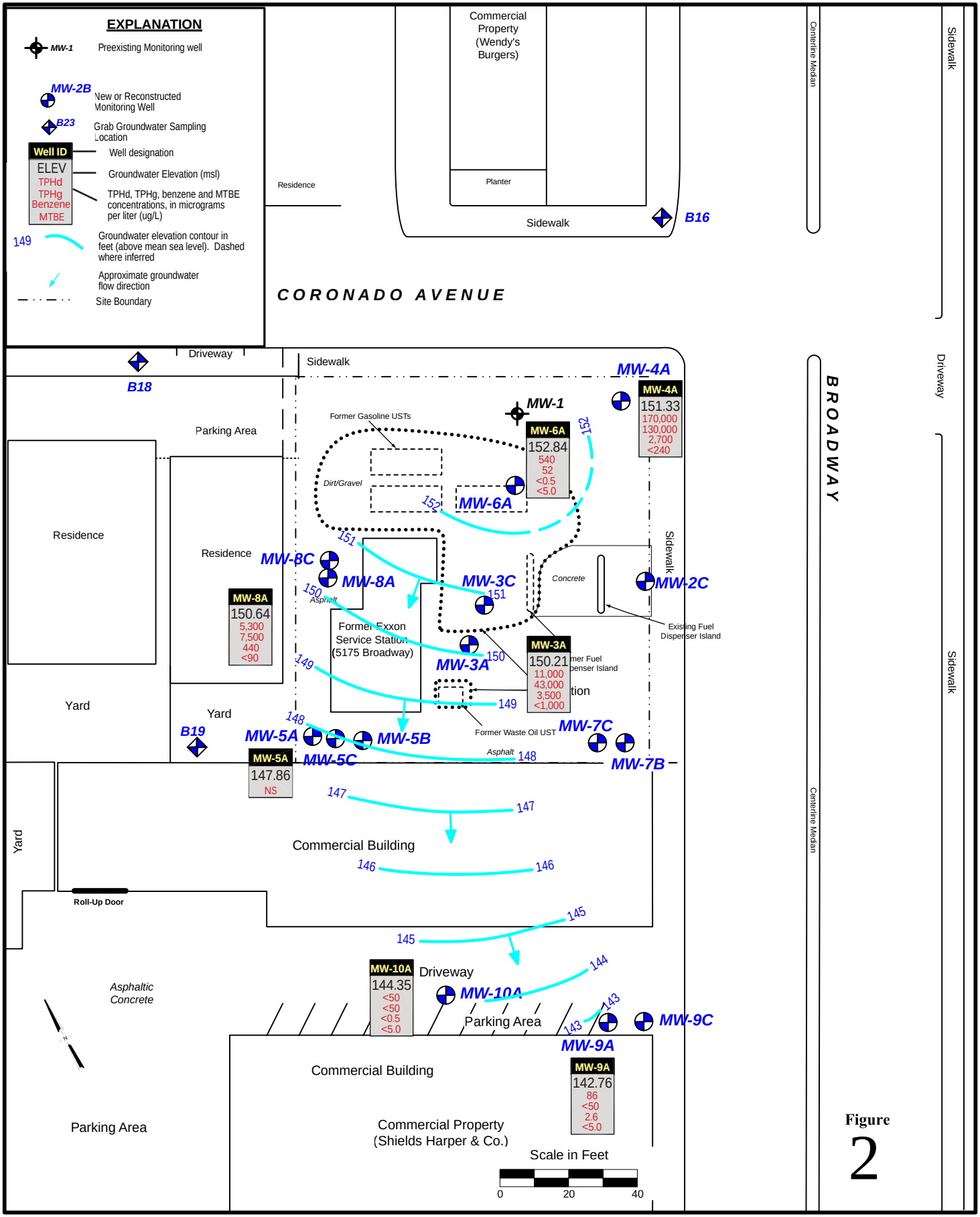

Figure 2

Former Exxon Station
5175 Broadway
Oakland, California

Locations of Monitoring Wells and Grab Groundwater Boring Locations
September 29, 2007

PANGEA

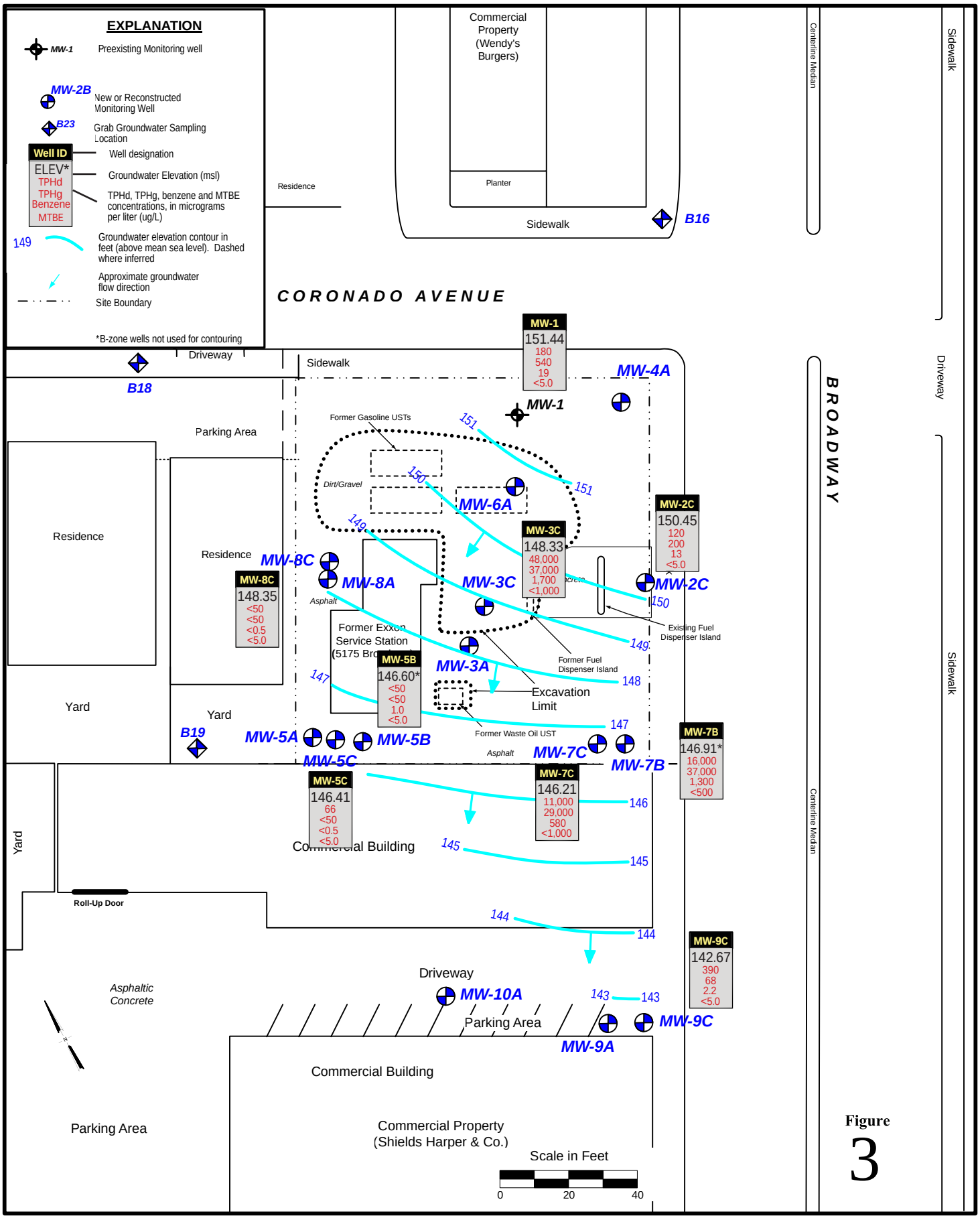

Figure
3

Former Exxon Station
5175 Broadway
Oakland, California

Groundwater Elevation Contour and Hydrocarbon Concentration Map (Deep)
September 29, 2007

PANGEA

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					←				µg/L				→	
MW-1	04/30/89	--	--	--	--	200	18	5	2	12	--	--	--	--
(97.71)	05/17/90	--	88.45	9.26	--	--	--	--	--	--	--	--	--	--
	09/26/90	--	87.79	9.92	--	1,300	55	31	120	100	--	--	--	--
	01/14/91	--	88.17	9.54	--	3,100	350	83	86	130	--	--	--	--
(102.04)	07/03/91	--	92.62	9.42	--	580	32	41	40	55	--	--	--	--
	11/11/91	--	92.59	9.45	--	330	20	2	2	11	--	--	--	--
(101.83)	03/04/92	--	93.90	7.93	--	810	11	5	10	23	--	--	--	--
	06/02/92	--	92.85	8.98	--	2,200	93	32	40	120	--	--	--	--
	09/28/92	--	92.54	9.29	--	2,900	24	78	19	37	--	--	--	--
	01/11/93	--	94.27	7.56	--	1,700	5.7	6	11	28	--	--	--	--
	08/15/94	--	92.64	9.19	--	2,000	120	3	6	16	--	--	--	--
(97.50)	11/07/96	--	88.77	8.73	270	1,200	3	1.1	1.5	3.8	<0.5	--	--	--
	02/12/97	--	89.58	7.92	<50	1,800	13	5.7	4.8	17	<0.5	--	--	--
	06/16/97	--	88.46	9.04	<50	330	27	<0.5	<0.5	1.2	<0.5	--	--	--
	09/30/97	--	89.94	7.56	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
(97.50)	01/27/98	--	89.54	7.96	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/24/98	--	89.52	7.98	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/17/98	--	88.52	8.98	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	11/16/98	--	88.60	8.90	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	02/16/99	--	88.86	8.64	<50	110	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/17/99	--	89.00	8.50	--	280	1.1	0.6	<0.5	<0.5	<0.5	--	--	--
	08/17/99	--	88.26	9.24	86	790	5.6	4.3	4.5	11	<5.0	--	--	--
	11/17/99	--	87.06	10.44	--	1,300	3.6	1.9	2.7	6.6	<1.0	--	--	--
	02/17/00	--	89.02	8.48	--	580	1.1	2.3	3.6	4.9	<5.0	--	--	--
	05/17/00	--	89.26	8.24	--	1,500	130	6.8	6.1	<5.0	<5.0	--	--	--
	08/17/00	--	88.73	8.77	--	550	160	<25	<25	<25	<25	--	--	--
	11/15/00	--	88.46	9.04	--	130	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--
	02/16/01	--	89.90	7.60	--	400	26	<5.0	<5.0	<5.0	<5.0	--	--	--
	01/11/02	--	89.42	8.08	160	600	74	53	14	52	110	--	--	--
(161.03)	07/01/02	--	152.01	9.02	280	670	25	<5.0	<5.0	<5.0	<5.0	--	--	--
	10/04/02	--	151.29	9.74	520	1,800	130	7.8	8.1	14	<5.0	--	--	--
	07/28/06	--	151.93	9.10	86	250	42	1.7	1.4	3.1	<1.0	51	1.5	0.21
	10/16/06	--	151.98	9.05	110	390	16	<0.5	1.5	2.2	<0.5	41	1.6	0.17
(161.10)	01/09/07	--	152.90	8.20	160	530	21	1.7	2.8	5.1	--	--	--	0.22
	03/26/07	--	152.84	8.26	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	152.12	8.98	220	500	24	1.1	2.2	4.2	<5.0	--	--	--
	09/29/07	--	**151.44**	**9.66**	**180**	**540**	**19**	**1.2**	**2.3**	**5.3**	**<5.0**	--	--	--
MW-2	04/30/89	--	--	--	--	230	39	18	5	23	--	--	--	--
(97.78)	05/17/90	--	87.78	10.00	--	--	--	--	--	--	--	--	--	--
	09/29/90	--	86.95	10.83	--	850	970	5	25	47	--	--	--	--
	01/14/91	--	87.15	10.63	--	3,100	30	52	24	34	--	--	--	--
(102.02)	07/03/91	--	91.94	10.08	--	1,590	30	52	24	34	--	--	--	--
	11/11/91	--	91.81	10.21	--	960	320	15	4	29	--	--	--	--
	03/04/92	--	93.32	8.70	--	1,500	9.5	8.4	9.8	22	--	--	--	--
	06/02/92	--	92.50	9.52	--	2,800	84	41	59	95	--	--	--	--

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					← µg/L →									
MW-2	09/28/92	--	91.93	10.09	--	1,600	47	20	47	97	--	--	--	--
(continued)	01/11/93	--	93.50	8.52	--	2,500	8.6	10	17	32	--	--	--	--
(97.49)	08/15/94	--	87.58	9.91	--	6,000	450	60	100	95	--	--	--	--
	11/07/96	--	87.47	10.02	780	4,200	25	4.9	8.1	14	<0.5	--	--	--
	02/12/97	--	88.58	8.91	5,700	1,800	16	3.1	3.4	8.8	<0.5	--	--	--
	06/16/97	--	87.74	9.75	<50	2,500	22	5.1	7.8	11	<0.5	--	--	--
	09/30/97	--	89.60	7.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/27/98	--	89.11	8.38	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/24/98	--	88.81	8.68	1,400	2,100	18	6.5	4.8	21	<0.5	--	--	--
	08/17/98	--	87.75	9.74	<50	2,900	5.1	4.5	5.8	17	<0.5	--	--	--
	11/16/98	--	87.35	10.14	<50	1,400	2.1	1.9	2.3	4.8	<0.5	--	--	--
	02/16/99	--	88.57	8.92	<50	1,600	82	16	<2.5	40	59	--	--	--
	05/17/99	--	88.23	9.26	--	8,200	43	73	140	100	<250	--	--	--
	08/17/99	--	87.45	10.04	260	2,900	20	81	17	38	<5.0	--	--	--
	11/17/99	--	85.97	11.52	<50	2,600	7	3.7	5.3	12.9	<1.0	--	--	--
	02/17/00	--	87.99	9.50	--	1,700	3.2	6.8	11	12.3	<5.0	--	--	--
	05/17/00	--	88.65	8.84	--	3,800	450	65	110	80	<25	--	--	--
	08/17/00	--	88.99	8.50	--	4,300	440	<50	78	<50	<50	--	--	--
	11/15/00	--	87.55	9.94	--	5,800	320	41	78	64	<25	--	--	--
	02/16/01	--	88.97	8.52	--	2,200	110	20	38	33	<5.0	--	--	--
	01/11/02	--	88.67	8.82	620	3,100	280	86	84	110	<50	--	--	--
(160.98)	07/01/02	--	151.34	9.64	940	2,600	300	29	45	27	<10	--	--	--
	10/04/02	--	150.46	10.52	390	4,000	440	66	140	120	<25	--	--	--
	07/28/06	--	150.96	10.02	340	1,300	150	9.9	6	18	<0.5	3.6	<0.5	0.17
	10/16/06	--	150.45	10.53	76	150	16	1.0	3.5	2.2	<0.5	1.2	<0.5	0.19
	01/09/07	--	151.65	9.33	84	210	27	2.6	8.1	6.8	--	--	--	0.14
	01/25/07	--				Well Abandoned								
MW-3	04/30/90	--	--	--	--	56,000	3,600	8,600	1,300	7,200	--	--	--	--
(98.14)	05/17/90	--	85.72	12.42	--	--	--	--	--	--	--	--	--	--
	09/26/90	--	84.64	13.50	--	54,000	5,100	420	1,600	8,000	--	--	--	--
	01/14/91	--	85.56	12.58	--	35,000	2,600	6,600	1,500	5,700	--	--	--	--
(102.46)	07/03/91	--	90.38	12.08	--	33,000	4,120	4,300	1,400	4,800	--	--	--	--
	11/11/91	--	90.17	12.29	--	57,000	3,900	8,400	2,100	14,000	--	--	--	--
(102.18)	03/04/92	--	91.92	10.26	--	57,000	720	870	81	3,100	--	--	--	--
(97.94)	06/02/92	--	86.54	11.40	--	50,000	240	240	220	740	--	--	--	--
	09/28/92	--	85.30	12.64	--	64,000	110	93	97	250	--	--	--	--
	01/11/93	--	87.84	10.10	--	68,000	210	280	360	990	--	--	--	--
	08/15/94	--	85.74	12.20	--	50,000	870	1,200	1,300	3,000	--	--	--	--
	11/07/96	--	85.54	12.40	470	68,000	33	27	63	120	<0.5	--	--	--
	02/12/97	--	87.71	10.23	3,500	25,000	39	43	15	91	<0.5	--	--	--
	06/16/97	--	86.15	11.79	<50	9,700	26	29	45	81	<0.5	--	--	--
	09/30/97	--	88.54	9.40	1,600	6,000	43	36	12	11	<0.5	--	--	--
	01/27/98	--	88.14	9.80	560	380	5.7	4.1	1.7	9.1	<0.5	--	--	--

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					← µg/L →									
MW-3	04/24/98	--	88.04	9.90	680	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
(continued)	08/17/98	--	86.48	11.46	<50	16,000	200	18	31	82	<0.5	--	--	--
	11/16/98	--	85.54	12.40	<50	68,000	86	54	69	130	<0.5	--	--	--
	02/16/99	--	87.22	10.72	<50	33,000	270	110	<5.0	770	170	--	--	--
	05/17/99	--	87.40	10.54	--	72,000	280	230	320	890	<250	--	--	--
	08/17/99	--	85.99	11.95	1,800	20,000	51	41	61	130	<5.0	--	--	--
	11/17/99	--	84.34	13.60	--	1,700	39	22	31	84	<1.0	--	--	--
	02/17/00	--	87.26	10.68	--	8,800	16	39	74	90	<5.0	--	--	--
	05/17/00	--	87.69	10.25	--	22,000	300	260	410	940	<5.0	--	--	--
	08/17/00	--	86.10	11.84	--	15,000	230	140	470	750	<50	--	--	--
	11/15/00	--	86.12	11.82	--	12,000	250	210	390	700	<25	--	--	--
	02/16/01	--	88.26	9.68	--	7,400	40	72	700	250	<25	--	--	--
	01/11/02	--	88.36	9.58	1,900	9,300	230	200	290	580	<25	--	--	--
(161.43)	07/01/02	--	150.29	11.14	5,200	13,000	230	220	450	890	<13	--	--	--
	10/04/02	--	148.61	12.82	4,900	11,000	280	170	450	730	<25	--	--	--
	07/28/06	--		Not Sampled - Unable to locate well										
	10/16/06	--		Not Sampled - Unable to locate well										
	01/09/07	--		Not Sampled - Unable to locate well										
	01/22/07	--	149.81	11.62	93,000	34,000	770	250	760	2,000	<1,000	--	--	--
	03/16/07	--					Well Abandoned							
STMW-4	07/03/91	--	92.58	11.00	--	3,100	610	62	39	150	--	--	--	--
(103.58)	11/11/91	--	92.50	11.08	--	3,600	990	15	2.6	180	--	--	--	--
(101.08)	03/04/92	--	91.64	9.44	--	5,000	35	20	22	71	--	--	--	--
(98.80)	06/02/92	--	88.48	10.32	--	13,000	140	45	63	210	--	--	--	--
	09/28/92	--	88.04	10.76	--	40,000	35	20	48	110	--	--	--	--
	01/11/93	--	89.52	9.28	--	24,000	26	88	92	280	--	--	--	--
	08/15/94	--	88.26	10.54	--	9,000	500	34	46	130	--	--	--	--
	11/07/96	--	88.43	10.37	180	13,000	40	2.9	7.8	19	<0.5	--	--	--
	02/12/97	--	89.44	9.36	5,700	5,300	95	5.3	5.9	18	<0.5	--	--	--
	06/16/97	--	88.40	10.40	<50	5,300	37	6.2	1.7	11	<0.5	--	--	--
	09/30/97	--	90.30	8.50	<50	2,700	42	7.7	5.7	26	<0.5	--	--	--
	01/27/98	--	89.90	8.90	300	3,000	60	17	12	49	<0.5	--	--	--
	04/24/98	--	89.30	9.50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/17/98	--	88.44	10.36	<50	29,000	36	24	59	160	<0.5	--	--	--
	11/16/98	--	88.24	10.56	<50	13,000	26	21	20	41	--	--	--	--
	02/16/99	--	89.16	9.64	<50	32,000	660	16	16	150	<100	--	--	--
	05/17/99	--	88.84	9.96	--	13,000	1600	30	45	78	<250	--	--	--
	08/17/99	--	88.16	10.64	990	12,000	260	22	33	72	<5.0	--	--	--
	11/17/99	--	86.78	12.02	--	7,900	21	12	17	40	<1.0	--	--	--
	02/17/00	--	89.48	9.32	--	4,900	8.9	21	38	50	<5.0	--	--	--
	05/17/00	--	89.15	9.65	--	9,600	840	<50	61	<50	<50	--	--	--
	08/17/00	--	88.46	10.34	--	5,100	680	<50	62	<50	<50	--	--	--
	11/15/00	--	88.28	10.52	--	3,900	640	<25	26	27	<25	--	--	--

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					← µg/L →									
STMW-4	02/16/01	--	89.60	9.20	--	5,700	560	<25	<25	<25	<25	--	--	--
(continued)	01/11/02	--	89.22	9.58	930	4,900	560	59	25	<25	<250	--	--	--
(162.13)	07/01/02	--	151.85	10.28	6,700	6,700	470	18	32	45	<13	--	--	--
	10/04/02	--	151.05	11.08	2,900	13,000	590	26	65	110	<25	--	--	--
	07/28/06	0.04	151.53	10.60	39,000	25,000	960	21	73	130	<5.0	65	<5.0	0.22
	10/16/06	0.06	151.30	10.83	14,000	14,000	790	28	81	130	<5.0	30	<5.0	0.26
	01/09/07	0.03	152.20	9.93			Not Sampled - SPH							0.24
	01/26/07						Well Abandoned							0.24
STMW-5	07/03/91	--	88.70	13.29	--	690	99	81	19	98	--	--	--	--
(101.99)	11/11/91	--	87.99	14.00	--	410	61	2.4	1.4	20	--	--	--	--
(101.36)	03/04/92	--	89.56	11.80	--	460	13	6.5	11	18	--	--	--	--
	06/02/92	--	88.30	13.06	--	1,800	27	20	21	43	--	--	--	--
	09/28/92	--	87.32	14.04	--	1,500	14	6.1	18	22	--	--	--	--
	01/11/93	--	89.75	11.61	--	800	1.8	3	3.1	9.4	--	--	--	--
	08/15/94	--	87.51	13.85	--	3,000	320	62	34	220	--	--	--	--
(97.14)	11/07/96	--	83.47	13.67	330	1,200	11	1.7	4.4	13	<0.5	--	--	--
	02/17/97	--	85.07	12.07	3,700	1,000	11	17	1.7	9.7	<0.5	--	--	--
	06/19/97	--	83.81	13.33	2,300	950	7.4	1	1	7.2	<0.5	--	--	--
	09/30/97	--	85.90	11.24	1,100	710	5.8	4	1	1	<0.5	--	--	--
	01/27/98	--	85.50	11.64	1,100	340	2	1.8	1.6	8.2	<0.5	--	--	--
	04/24/98	--	85.30	11.84	<50	3,300	12	9.4	8.5	37	<0.5	--	--	--
	08/17/98	--	83.94	13.20	<50	5,300	26	17	14	39	<0.5	--	--	--
	11/16/98	--	83.40	13.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
	02/16/99	--	84.92	12.22	<50	950	150	3.8	1.4	14	11	--	--	--
	05/17/99	--	84.56	12.58	--	2,800	67	9.4	<2.5	16	30	--	--	--
	08/17/99	--	83.66	13.48	230	2,800	18	17	18	36	<5.0	--	--	--
	11/17/99	--	82.26	14.88	--	1,600	3.9	2.3	3.2	7.5	<1.0	--	--	--
	02/17/00	--	84.58	12.56	--	770	1.5	3.2	5.8	7	<5.0	--	--	--
	05/17/00	--	85.06	12.08	--	4,500	<25	<25	<25	<25	<25	--	--	--
	08/17/00	--	83.58	13.56	--	2,900	170	64	100	250	<10	--	--	--
	11/15/00	--	83.86	13.28	--	2,100	120	24	40	54	<5.0	--	--	--
	02/16/01	--	85.54	11.60	--	850	58	9.8	9.4	18	<5.0	--	--	--
	01/11/02	--	85.42	11.72	<50	920	76	16	16	28	13	--	--	--
(160.65)	07/01/02	--	147.51	13.14	1,500	4,300	71	14	14	36	<5.0	--	--	--
	10/04/02	--	146.13	14.52	60	1,400	71	17	26	35	<5.0	--	--	--
	07/28/06	--	147.30	13.35	370	700	22	4.3	1.2	6.6	<0.5	<0.5	<0.5	0.24
	10/16/06	--	146.91	13.74	240	590	14	1.6	1.3	3.2	<0.5	<0.5	<0.5	0.21
	01/09/07	--	148.19	12.46	180	390	30	3.2	1.8	3.2	--	--	--	0.17
	01/18/07						Well Abandoned							
MW-2C	03/09/07	--	152.24	8.41	140	450	40	9.3	2.9	16	<10	--	--	--
(160.65)	03/26/07	--	151.93	8.72	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	151.21	9.44	160	440	30	1.8	5.9	7.4	<5.0	--	--	--
	09/29/07	**--**	**150.45**	**10.20**	**120**	**200**	**13**	**<0.5**	**<0.5**	**2.0**	**<5.0**	**--**	**--**	**--**
MW-3A	03/09/07	--	152.20	9.35	4,500	39,000	3,800	220	830	2,800	<500	--	--	--
(161.55)	03/26/07	--	152.33	9.22	--	--	--	--	--	--	--	--	--	--
(161.57)	06/24/07	--	151.61	9.94	11,000	34,000	3,200	330	990	3,200	<250	--	--	--
	09/29/07	**--**	**150.21**	**11.36**	**11,000**	**43,000**	**3,500**	**150**	**730**	**2,200**	**<1,000**	**--**	**--**	**--**

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					← µg/L →									
MW-3C	03/26/07	--	151.15	10.64	--	--	--	--	--	--	--	--	--	--
(161.79)	04/16/07	--	150.87	10.92	36,000	32,000	1,200	710	600	1,900	<500	--	--	--
	06/24/07	--	149.43	12.36	200,000	50,000	2,200	4,100	860	6,100	<500	--	--	--
	09/29/07	**--**	**148.33**	**13.46**	**48,000**	**37,000**	**1,700**	**3,300**	**830**	**4,800**	**<1,000**	**--**	**--**	**--**
MW-4A	03/09/07	--	152.88	9.56	3,600	16,000	1,600	36	37	150	<250	--	--	--
(162.44)	03/26/07	--	152.56	9.88	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	152.02	10.42	110,000	87,000	1,500	59	290	800	<500	--	--	--
	09/29/07	**--**	**151.33**	**11.11**	**170,000**	**130,000**	**2,700**	**69**	**400**	**1,400**	**<240**	**--**	**--**	**--**
MW-5A	03/09/07	--	150.40	10.42	56	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
(160.82)	03/26/07	--	150.00	10.82	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	148.94	11.88	<50	180	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	09/29/07	**--**	**147.86**	**12.96**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-5B	03/09/07	--	146.42	15.08	59	140	1.3	0.77	<0.5	1.6	<5.0	--	--	--
(161.50)	03/26/07	--	148.88	12.62	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	147.98	13.52	53	52	1.1	<0.5	<0.5	<0.5	<5.0	--	--	--
	09/29/07	**--**	**146.60**	**14.90**	**<50**	**<50**	**0.95**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**	**--**	**--**
MW-5C	03/09/07	--	148.12	12.91	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
(161.03)	03/26/07	--	148.41	12.62	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	147.58	13.45	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	09/29/07	**--**	**146.41**	**14.62**	**66**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**	**--**	**--**
MW-6A	03/09/07	--	154.91	6.67	380	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
(161.58)	03/26/07	--	154.41	7.17	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	153.79	7.79	590	140	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	09/29/07	**--**	**152.84**	**8.74**	**540**	**52**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**	**--**	**--**
MW-7B	03/09/07	--	147.97	11.18	930	18,000	1,500	1,600	140	1,800	<600	--	--	--
(159.15)	03/26/07	--	148.10	11.05	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	147.54	11.61	40,000	30,000	1,800	2,400	240	2,800	<700	--	--	--
(159.02)	**09/29/07**	**--**	**146.91**	**12.11**	**16,000**	**37,000**	**1,300**	**1,500**	**180**	**2,700**	**<500**	**--**	**--**	**--**
MW-7C	03/09/07	--	145.44	13.09	190	3,600	970	100	12	90	<120	--	--	--
(158.53)	03/26/07	--	147.53	11.00	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	146.65	11.88	7,100	16,000	510	520	190	1,300	<100	--	--	--
	09/29/07	**--**	**146.21**	**12.32**	**11,000**	**29,000**	**580**	**1,400**	**600**	**4,800**	**<1,000**	**--**	**--**	**--**
MW-8A	03/09/07	--	152.05	9.52	4,200	10,000	430	18	<10	88	<100	--	--	--
(161.57)	03/26/07	--	151.74	9.83	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	151.40	10.17	17,000	12,000	720	500	230	880	<300	--	--	--
(161.59)	**09/29/07**	**--**	**150.64**	**10.95**	**5,300**	**7,500**	**440**	**67**	**26**	**240**	**<90**	**--**	**--**	**--**
MW-8C	03/09/07	--	149.18	12.15	<50	150	9.8	1.3	2.0	3.9	<5.0	--	--	--
(161.33)	03/26/07	--	149.56	11.77	--	--	--	--	--	--	--	--	--	--
	06/24/07	--	148.96	12.37	<50	<50	0.57	<0.5	<0.5	<0.5	<5.0	--	--	--
	09/29/07	**--**	**148.35**	**12.98**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**	**--**	**--**

Table 1. Groundwater Analytical Data - Former Exxon Station, 5175 Broadway, Oakland, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	SPH (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	1,2-DCA	Dissolved Oxygen mg/L
					←			µg/L					→	
MW-9A	**09/29/07**	**--**	**142.76**	**12.61**	**86**	**<50**	**2.6**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**	**--**	**--**
(155.37)														
MW-9C	**09/29/07**	**--**	**142.67**	**12.27**	**390**	**68**	**2.2**	**0.88**	**<0.5**	**<0.5**	**<5.0**			
(154.94)														
MW-10A	**09/29/07**	**--**	**144.35**	**10.53**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**			
(154.88)														

Abbreviations:

µg/L = Micrograms per liter - approximately equal to parts per billion = ppb.

mg/L = Milligrams per liter - approximately equal to parts per million = ppm.

SPH = Separate-phase hydrocarbons encountered in well (value in parentheses is thickness in feet).

Groundwater elevation is calculated according to the relationship: groundwater elevation = TOC (elevation) - (depth to water) + (0.8)(SPH thickness).

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015Cm.

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8021B.

MTBE = Methyl tertiary-butyl ether by EPA Method 8021B. (Concentrations in parentheses are by EPA Method 8260B).

DIPE = Diisopropyl ether by EPA Method 8260B.

1,2-DCA = 1,2-Dichloroethane by EPA Method 8260B.

APPENDIX A

Groundwater Monitoring Field Data Sheets

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1145.001 212				Project Name: Feiner - 5175 Broadway			
Address: 5175 Broadway, Oakland, CA						Date: 9/29/07	
Name: Sanjiv Gill				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-1	4"	10:45			9.66	22.97	TOC
MW-2C	2"	10:00			10.20	23.03	
MW-3A	2"	10:55			11.36	13.83	
MW-3C	2"	10:15			13.46	26.75	
MW-4A	2"	10:50			11.11	14.73	
MW-5A	2"	10:30			12.96	13.52	
MW-5B	2"	10:25			14.90	19.23	
MW-5C	2"	10:05			14.62	26.70	
MW-6A	2"	10:40			8.74	14.92	
MW-7B	2"	9:55			12.11	18.55	
MW-7C	2"	10:20			12.32	24.41	X

Comments:

MW-7B & MW-7C labled incorrect on map & well box

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1145.001 212				Project Name: Feiner - 5175 Broadway			
Address: 5175 Broadway, Oakland, CA						Date: 9/29/07	
Name: Sanjiv Gill				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-8A	2"	10:35			10.95	14.90	TOC
MW-8C	2"	10:10			12.98	24.89	
MW-9A	2"	9:45			12.61	15.19	
MW-9C	2"	9:40			12.27	20.45	
MW-10A	2"	9:50			10.53	17.96	X

Comments:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-1

Project Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 4"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 22.97	Depth to Product:
Depth to Water (DTW): 9.66	Product Thickness:
Water Column Height: 13.31	1 Casing Volume: 8.65 gallons
Reference Point: TOC	3 Casing Volumes: 25.95 gallons

Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)

Sampling Device: Parastaltic Pump (tubing) Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
1:25	20.8	7.32	798				9	
1:30	20.2	7.30	800				18	
1:35	20.5	7.32	780				26	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-1	Sample Time: 1:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/29/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-2C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 23.03	Depth to Product:
Depth to Water (DTW): 10.20	Product Thickness:
Water Column Height: 12.83	1 Casing Volume: 2.05 gallons
Reference Point: TOC	3 Casing Volumes: 6.15 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump~~ (tubing) Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
1:05	20.2	7.39	844				2	
1:07	20.7	7.33	853				4	
1:09	20.7	7.33	850				6	

Comments: YSI 550A DO meter — pre purge DO = mg/l; post purge DO = mg/l

very turbid, silty

Sample ID: MW-2C	Sample Time: 1:11
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/29/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 13.83	Depth to Product:
Depth to Water (DTW): 11.36	Product Thickness:
Water Column Height: 2.47	1 Casing Volume: 0.39 gallons
Reference Point: TOC	3 Casing Volumes: 1.18 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump~~ (tubing) Disposable Bailer	

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2:30	22.2	8.90	694				0.3	
2:32	Dewatered before 0.6 gallons							

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

Sample ID: MW-3A	Sample Time: 10:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-3C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 26.75	Depth to Product:
Depth to Water (DTW): 13.46	Product Thickness:
Water Column Height: 13.29	1 Casing Volume: 2.12 gallons
Reference Point: TOC	3 Casing Volumes: 6.37 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2:15	19.7	7.00	1575				2	
2:19	19.8	7.02	1531				4	
2:21	Dewatered						4.5	

Comments: YSI 550A DO meter pre purge DO = mg/l

post purge DO = mg/l

odor, very turbid, silty, light SPH not measurable

Sample ID: MW-3C	Sample Time: 9:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-4A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 14.73	Depth to Product:
Depth to Water (DTW): 11.11	Product Thickness:
Water Column Height: 3.62	1 Casing Volume: 0.57 gallons
Reference Point: TOC	3 Casing Volumes: 1.73 gallons
Purging Device: (Disposable Bailer), 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
1:55	22.0	7.65	860				0.5	
1:56	22.5	7.68	902				1.0	
1:57	22.3	7.69	909				1.5	

Comments: YSI 550A DO meter — pre purge DO = mg/l

post purge DO = mg/l

odor, tarchid

Sample ID: MW-4A	Sample Time: 2:00
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/29/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-5A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 13.52	Depth to Product:
Depth to Water (DTW): 12.96	Product Thickness:
Water Column Height: 0.56	1 Casing Volume: 0.08 gallons
Reference Point: TOC	3 Casing Volumes: 0.26 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: Parastaltic Pump (tubing)	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
	Insufficient water							
	After purge, unable to obtain sufficient water in bailer							

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

Sample ID:	Sample Time:
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/ /07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-5B

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.23	Depth to Product:
Depth to Water (DTW): 14.90	Product Thickness:
Water Column Height: 4.33	1 Casing Volume: 0.69 gallons
Reference Point: TOC	3 Casing Volumes: 2.07 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:40	19.1	6.73	1564				.5	
11:42		Dewatered					.7	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

very turbid, very silty

Sample ID: MW-5B	Sample Time: 9:10
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-5C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 26.70	Depth to Product:
Depth to Water (DTW): 14.62	Product Thickness:
Water Column Height: 12.08	1 Casing Volume: 1.93 gallons
Reference Point: TOC	3 Casing Volumes: 5.79 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:20	19.7	7.20	1806				2	
11:23	18.9	7.15	1847				4	
11:25	18.7	7.13	1821				6	

Comments: YSI 550A DO meter pre purge DO = mg/l

post purge DO = mg/l

Very turbid silty

Sample ID: MW-5C	Sample Time: 11:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/29/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 14.92	Depth to Product:
Depth to Water (DTW): 8.74	Product Thickness:
Water Column Height: 6.18	1 Casing Volume: 0.98 gallons
Reference Point: TOC	3 Casing Volumes: 2.96 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp C°	pH	Cond.(us)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:45	22.6	7.00	1180				1	
12:47	22.7	6.95	1210				2	
12:49	22.6	6.91	1206					

Comments: YSI 550A DO meter — pre purge DO = mg/l

post purge DO = mg/l

very turbid, very silty

Sample ID: MW-6A	Sample Time: 12:52
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/29/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7B

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 18.55	Depth to Product:
Depth to Water (DTW): 12.11	Product Thickness:
Water Column Height: 6.44	1 Casing Volume: 1.03 gallons
Reference Point: TOC	3 Casing Volumes: 3.09 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailers	

Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:05	20.2	7.19	1456				1	
12:09		Dewatered					1.5	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

turbid

Sample ID: MW-7B	Sample Time: 9:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 24.41	Depth to Product:
Depth to Water (DTW): 12.32	Product Thickness:
Water Column Height: 12.09	1 Casing Volume: 1.93 gallons
Reference Point: TOC	3 Casing Volumes: 5.80 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:55	20.1	7.14	1438				2	
11:57	Dewatered						3.5	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

Odor, very turbid, very silty

Sample ID: MW-7C	Sample Time: 9:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 14.90	Depth to Product:
Depth to Water (DTW): 10.95	Product Thickness:
Water Column Height: 3.95	1 Casing Volume: 0.63 gallons
Reference Point: TOC	3 Casing Volumes: 1.89 gallons

Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)

Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:30	19.8	6.90	1372				0.5	
12:32	19.1	6.85	1360				1.5	
12:33	Dewatered before 2 gallons						~~2~~	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

oder, very turbid, very silty

Sample ID: MW-8A	Sample Time: 9:25
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-8C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 24.89	Depth to Product:
Depth to Water (DTW): 12.98	Product Thickness:
Water Column Height: 11.91	1 Casing Volume: 1.90 gallons
Reference Point: TOC	3 Casing Volumes: 5.71 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:20	18.8	7.10	1709				2	
12:22		Dewatered					3.5	

Comments: YSI 550A DO meter

pre purge DO = mg/l

post purge DO = mg/l

very turbid, very silty

Sample ID: MW-8C	Sample Time: 9:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30 /07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius^2 * 0.163
Total Depth (TD): 15.19	Depth to Product:
Depth to Water (DTW): 12.61	Product Thickness:
Water Column Height: 2.58	1 Casing Volume: 0.41 gallons
Reference Point: TOC	3 Casing Volumes: 1.23 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaltic Pump (tubing)	
Sampling Device: ~~Parastaltic Pump (tubing)~~ Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:30	21.6	7.02	1816				.3	
8:31	21.7	7.06	1891				.6	
8:33	21.6	7.04	1890				1.0	

Comments: YSI 550A DO meter — pre purge DO = mg/l; post purge DO = mg/l

very turbid, silty

Sample ID: MW-9A	Sample Time: 8:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9C

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 20.45	Depth to Product:
Depth to Water (DTW): 12.27	Product Thickness:
Water Column Height: 8.18	1 Casing Volume: 1.30 gallons
Reference Point: TOC	3 Casing Volumes: 3.90 gallons

Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Parastaltic Pump (tubing)

Sampling Device: Parastaltic Pump (tubing) Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:00	21.1	7.33	1186				1.5	
8:05	20.8	7.32	1194				3	
8:10	20.9	7.33	1190				4	

Comments: YSI 550A DO meter pre purge DO = mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-9C	Sample Time: 8:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-10A

Project.Task #: 1145.001 212	Project Name: Feiner - 5175 Broadway
Address: 5175 Broadway, Oakland, Ca	
Date: 9/29/07	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04, 3" = 0.37, 6" = 1.47, 2" = 0.16, 4" = 0.65, radius^2 * 0.163
Total Depth (TD): 17.96	Depth to Product:
Depth to Water (DTW): 10.53	Product Thickness:
Water Column Height: 7.43	1 Casing Volume: 1.18 gallons
Reference Point: TOC	3 Casing Volumes: 3.56 gallons

Purging Device: (Disposable Bailer), 3" PVC Bailer, Parastaltic Pump (tubing)

Sampling Device: Parastaltic Pump (tubing) Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:45	21.7	7.30	1514				1.5	
8:47	21.6	7.36	1450				2.5	
8:49	21.3	7.34	1465				3.5	

Comments: YSI 550A DO meter — pre purge DO = mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-10A	Sample Time: 8:52
Laboratory: McCampbell Analytical, INC.	Sample Date: 9/30/07
Containers/Preservative: Voa/HCl, Amber Glass Liter/ HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: [signature]

APPENDIX B

Laboratory Analytical Report

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1145001; Feiner-5175 Broadway Oakland, CA	Date Sampled: 09/29/07-09/30/07
		Date Received: 10/02/07
	Client Contact: Bob Clark-Riddell	Date Reported: 10/10/07
	Client P.O.:	Date Completed: 10/10/07

WorkOrder: 0710050

October 10, 2007

Dear Bob:

Enclosed are:

1). the results of **15** analyzed samples from your **#1145001; Feiner-5175 Broadway Oakland, CA project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

0710050

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: [redacted] Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ■ 5 DAY

EDF Required? Yes / No

Report To: Bob Clark-Riddel Bill To: Pangea Environmental
Company: Pangea Environmental Services Inc.
1710 Franklin Street Sutie 200
Oakland, CA 94612 E-Mail: bcr@pangeaenv.com
Tele: 510-836-3702 Fax: 510-836-3709
Project #: 141500l Project Name: Ferner-5175 Broadway Oakland, Ca
Project Location: 5175 Broadway, Oakland, CA
Sampler Signature: Muskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015) with Silica Gel Cleanup	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Arochors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	If Mtbe is detected by 8021 confirm by 8260B	Other	Comments
MW-1		9-29-07	1:45	3 2	VOA Amb	X					X	X			X		X												Filter Samples for Metals analysis: Yes / No
MW-2C		9-29-07	1:11																										
MW-3A		9-30-07	10:05																										
MW-3C		9-30-07	9:55																										
MW-4A		9-29-07	2:00																										
MW-5B		9-30-07	9:10																										
MW-5C		9-29-07	11:30																										
MW-6A		9-29-07	12:52																										
MW-7B		9-30-07	9:45																										
MW-7C		9-30-07	9:35																										
MW-8A		9-30-07	9:25																										
MW-8C		9-30-07	9:20																										
MW-9A		9-30-07	8:35																										
MW-9C		9-30-07	8:20																										
MW-10A		9-30-07	8:52	X	X	X					X	X			X		X												

ICE / t° 1.2
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION VOAS | O & G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
	10/2/07	1105	
Relinquished By:	Date:	Time:	Received By:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0710050 **ClientID: PEO**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Email: bcr@pangeaenv.com
TEL: (510) 836-370 FAX: (510) 836-370
ProjectNo: #1145001; Feiner-5175 Broadway Oakl
PO:

Bill t
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: 5 days

Date Received **10/02/2007**
Date Printed: **10/02/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0710050-001	MW-1	Water	9/29/2007 1:45:00	☐	A	A	B									
0710050-002	MW-2C	Water	9/29/2007 1:11:00	☐	A		B									
0710050-003	MW-3A	Water	9/30/2007	☐	A		B									
0710050-004	MW-3C	Water	9/30/2007 9:55:00	☐	A		B									
0710050-005	MW-4A	Water	9/30/2007 2:00:00	☐	A		B									
0710050-006	MW-5B	Water	9/30/2007 9:10:00	☐	A		B									
0710050-007	MW-5C	Water	9/29/2007	☐	A		B									
0710050-008	MW-6A	Water	9/29/2007	☐	A		B									
0710050-009	MW-7B	Water	9/30/2007 9:45:00	☐	A		B									
0710050-010	MW-7C	Water	9/30/2007 9:35:00	☐	A		B									
0710050-011	MW-8A	Water	9/30/2007 9:25:00	☐	A		B									
0710050-012	MW-8C	Water	9/30/2007 9:20:00	☐	A		B									
0710050-013	MW-9A	Water	9/30/2007 8:35:00	☐	A		B									
0710050-014	MW-9C	Water	9/30/2007 8:20:00	☐	A		B									
0710050-015	MW-10A	Water	9/30/2007 8:52:00	☐	A		B									

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3	TPH(D)WSG_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.** Date and Time Received: **10/2/2007 2:51:26 PM**

Project Name: **#1145001; Feiner-5175 Broadway Oakland, CA** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0710050** Matrix Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 1.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1145001; Feiner-5175 Broadway Oakland, CA	Date Sampled: 09/29/07-09/30/07
		Date Received: 10/02/07
	Client Contact: Bob Clark-Riddell	Date Extracted: 10/04/07-10/09/07
	Client P.O.:	Date Analyzed 10/04/07-10/09/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0710050

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	540,a	ND	19	1.2	2.3	5.3	1	116
002A	MW-2C	W	200,a,i	ND	13	ND	ND	2.0	1	112
003A	MW-3A	W	43,000,a	ND<1000	3500	150	730	2200	200	98
004A	MW-3C	W	37,000,a,h	ND<1000	1700	3300	830	4800	200	92
005A	MW-4A	W	130,000,a,g,h	ND<240	2700	69	400	1400	33	102
006A	MW-5B	W	ND	ND	0.95	ND	ND	ND	1	93
007A	MW-5C	W	ND,i	ND	ND	ND	ND	ND	1	90
008A	MW-6A	W	52,g,i	ND	ND	ND	ND	ND	1	92
009A	MW-7B	W	37,000,a,h	ND<500	1300	1500	180	2700	100	103
010A	MW-7C	W	29,000,a,h	ND<1000	580	1400	600	4800	200	101
011A	MW-8A	W	7500,a,h	ND<90	440	67	26	240	10	105
012A	MW-8C	W	ND	ND	ND	ND	ND	ND	1	92
013A	MW-9A	W	ND	ND	2.6	ND	ND	ND	1	92
014A	MW-9C	W	68,a,h	ND	2.2	0.88	ND	ND	1	88
015A	MW-10A	W	ND	ND	ND	ND	ND	ND	1	106
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Pangea Environmental Svcs., Inc.	Client Project ID: #1145001; Feiner-5175 Broadway Oakland, CA	Date Sampled: 09/29/07-09/30/07
1710 Franklin Street, Ste. 200		Date Received: 10/02/07
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 10/02/07
	Client P.O.:	Date Analyzed 10/05/07-10/09/07

Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C Analytical methods SW8015C Work Order: 0710050

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0710050-001B	MW-1	W	180,d	1	83
0710050-002B	MW-2C	W	120,d,i	1	119
0710050-003B	MW-3A	W	11,000,d	1	93
0710050-004B	MW-3C	W	48,000,d,b,h	20	104
0710050-005B	MW-4A	W	170,000,d,b,h	20	91
0710050-006B	MW-5B	W	ND	1	87
0710050-007B	MW-5C	W	66,b,i	1	88
0710050-008B	MW-6A	W	540,d,b,i	1	110
0710050-009B	MW-7B	W	16,000,d,b,h	1	100
0710050-010B	MW-7C	W	11,000,d,b,h	1	107
0710050-011B	MW-8A	W	5300,d,b	2	97
0710050-012B	MW-8C	W	ND	1	100
0710050-013B	MW-9A	W	86,b	1	99
0710050-014B	MW-9C	W	390,a,h	1	88
0710050-015B	MW-10A	W	ND	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0710050

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 31008** **Spiked Sample ID: 0710050-012A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	79.8	77.6	2.83	98.1	110	11.6	70 - 130	30	70 - 130	30
MTBE	ND	10	117	113	3.83	93	93	0	70 - 130	30	70 - 130	30
Benzene	ND	10	98.2	98.2	0	104	97.4	6.77	70 - 130	30	70 - 130	30
Toluene	ND	10	109	109	0	99.9	95.7	4.31	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	105	0.664	97.9	96.7	1.18	70 - 130	30	70 - 130	30
Xylenes	ND	30	113	110	2.99	90.9	90.9	0	70 - 130	30	70 - 130	30
%SS:	92	10	93	92	0.937	114	107	5.94	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 31008 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0710050-001A	09/29/07 1:45 PM	10/04/07	10/04/07 10:50 PM	0710050-002A	09/29/07 1:11 PM	10/05/07	10/05/07 8:11 PM
0710050-003A	09/30/07 10:05 AM	10/04/07	10/04/07 11:56 PM	0710050-004A	09/30/07 9:55 AM	10/05/07	10/05/07 12:29 AM
0710050-005A	09/30/07 2:00 PM	10/05/07	10/05/07 10:12 PM	0710050-006A	09/30/07 9:10 AM	10/05/07	10/05/07 1:35 AM
0710050-007A	09/29/07 11:30 AM	10/05/07	10/05/07 4:52 AM	0710050-008A	09/29/07 12:52 PM	10/09/07	10/09/07 1:52 PM
0710050-009A	09/30/07 9:45 AM	10/05/07	10/05/07 3:46 AM	0710050-010A	09/30/07 9:35 AM	10/05/07	10/05/07 7:15 AM
0710050-011A	09/30/07 9:25 AM	10/06/07	10/06/07 10:47 AM	0710050-012A	09/30/07 9:20 AM	10/05/07	10/05/07 5:57 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0710050

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 31012** **Spiked Sample ID: 0710066-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	77.6	79.6	2.57	100	101	1.23	70 - 130	30	70 - 130	30
MTBE	ND	10	112	117	4.40	91.6	99.2	7.94	70 - 130	30	70 - 130	30
Benzene	ND	10	95	97.5	2.62	94.9	100	5.33	70 - 130	30	70 - 130	30
Toluene	ND	10	105	108	2.74	94.7	98.3	3.67	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	102	105	3.10	94.2	99.6	5.58	70 - 130	30	70 - 130	30
Xylenes	ND	30	110	113	2.99	90.7	95.3	5.02	70 - 130	30	70 - 130	30
%SS:	91	10	86	90	4.49	104	107	2.77	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 31012 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0710050-013A	09/30/07 8:35 AM	10/05/07	10/05/07 6:30 AM	0710050-014A	09/30/07 8:20 AM	10/06/07	10/06/07 2:39 PM
0710050-015A	09/30/07 8:52 AM	10/05/07	10/05/07 4:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0710050

EPA Method SW8015C	Extraction SW3510C/3630C	BatchID: 30936	Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	120	112	6.95	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	113	87	25.4	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 30936 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0710050-001B	09/29/07 1:45 PM	10/02/07	10/05/07 5:11 AM	0710050-002B	09/29/07 1:11 PM	10/02/07	10/05/07 8:34 AM
0710050-003B	09/30/07 10:05 AM	10/02/07	10/09/07 8:46 AM	0710050-004B	09/30/07 9:55 AM	10/02/07	10/06/07 3:49 AM
0710050-005B	09/30/07 2:00 PM	10/02/07	10/06/07 2:33 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0710050

EPA Method SW8015C	Extraction SW3510C/3630C	BatchID: 31013	Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	106	104	1.95	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	116	116	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 31013 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0710050-006B	09/30/07 9:10 AM	10/02/07	10/08/07 9:14 PM	0710050-007B	09/29/07 11:30 AM	10/02/07	10/08/07 10:25 PM
0710050-008B	09/29/07 12:52 PM	10/02/07	10/05/07 5:20 PM	0710050-009B	09/30/07 9:45 AM	10/02/07	10/09/07 7:36 AM
0710050-010B	09/30/07 9:35 AM	10/02/07	10/05/07 1:42 PM	0710050-011B	09/30/07 9:25 AM	10/02/07	10/09/07 11:08 AM
0710050-012B	09/30/07 9:20 AM	10/02/07	10/05/07 12:34 PM	0710050-013B	09/30/07 8:35 AM	10/02/07	10/05/07 1:42 PM
0710050-014B	09/30/07 8:20 AM	10/02/07	10/09/07 5:09 PM	0710050-015B	09/30/07 8:52 AM	10/02/07	10/06/07 3:26 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer