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Environmental Health



February 5, 2009

VIA ALAMEDA COUNTY FTP SITE

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Groundwater Monitoring and Remediation Report – Fourth Quarter 2008**
Douglas Parking Company
1721 Webster Street
Oakland, California
ACEH File No. 129

Dear Ms. Jakub:

On behalf of the Douglas Parking Company, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring and Remediation Report – Fourth Quarter 2008* for the above-referenced site. The report describes groundwater monitoring and sampling, site remediation, and other site activities.

To help control project cost per Cleanup Fund request on October 23, 2008, Pangea proposes to reduce the groundwater monitoring frequency on select site wells. Pangea's proposed groundwater monitoring program includes quarterly monitoring of four (4) key groundwater monitoring wells, and annual monitoring (first quarter of each year) of three (3) site wells. Additional discussion of the rationale for sampling frequency and analysis reductions are presented below. The proposed monitoring reductions are shown in Appendix A.

To further control cost, Pangea proposes to temporarily discontinue active remediation and conduct bioparameter analyses to further evaluate subsurface conditions. Pangea will then propose modifications to the SVE/AS remediation system.

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

Sincerely,
Pangea Environmental Services, Inc.

A handwritten signature in blue ink, appearing to read "Bob Clark-Riddell".

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring and Remediation Report – Fourth Quarter 2008*

cc: Mr. Lee Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612 (2 copies)
SWRCB Geotracker Database (electronic copy)

PANGEA Environmental Services, Inc.



**GROUNDWATER MONITORING AND REMEDIATION REPORT
– FOURTH QUARTER 2008**

**Douglas Parking Company
1721 Webster Street
Oakland, California
File No. 4070**

February 5, 2009

Prepared for:

Mr. Lee Douglas
1721 Webster Street
Oakland, California 94612


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

PANGEA Environmental Services, Inc.

INTRODUCTION

On behalf of the Douglas Parking Company, Pangea Environmental Services, Inc. (Pangea), performed groundwater monitoring and sampling, and remediation system operation and sampling during this quarter at the subject site (Figure 1). Current groundwater analytical results and elevation data are shown on Figure 2. Current and historical groundwater data are summarized on Table 1. Site remediation data are summarized on Table 2.

SITE BACKGROUND

The site is currently being utilized as a parking garage, and is located between 17th and 19th Streets in downtown Oakland, California, approximately five miles east of San Francisco Bay and half a mile west of Lake Merritt (Figure 1). The site is relatively flat with an elevation of approximately 30 feet (ft) above mean sea level (msl).

Several former underground storage tank (UST) sites are located close to the site, including Prentiss Properties to the northeast at 1750 Webster Street, a former gas station to the east at 1700 Webster, and a former Chevron service station which is located approximately 400 feet to the southwest on the corner of 17th Street and Harrison Street.

On August 3 and 6, 1992, Parker Environmental Services removed one 1,000-gallon and two 500-gallon gasoline underground storage tanks (USTs) from the site. Up to 1,500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and up to 12 mg/kg benzene were detected in the soil samples collected from the UST excavation.

Several investigations have been completed at the site. On July 8 and September 8, 1994, Gen Tech/Piers Environmental, Inc. (Gen Tech) of San Jose, California drilled six exploratory borings and installed three groundwater monitoring wells (MW-1 through MW-3). In February and May 1996, Cambria Environmental Technology (Cambria) of Emeryville, California advanced seven geoprobe soil borings and installed two groundwater monitoring wells (MW-4 and MW-5). On June 27, 2003 Cambria installed two additional offsite monitoring wells (MW-6 and MW-7).

Limited site remediation has been conducted at the site. In January 1998, Cambria installed ORC socks in well MW-2 to enhance the natural attenuation of dissolved-phase hydrocarbons. Dissolved oxygen (DO) concentrations temporarily increased in well MW-2 following the ORC sock installation. In February and March 1999, a total of 120 gallons of 7.5% hydrogen peroxide solution was added into monitoring wells MW-2 and MW-3 to oxidize hydrocarbons and also increase DO levels to enhance biodegradation of

dissolved-phase hydrocarbons. The hydrogen peroxide *temporarily* increased groundwater DO levels, but hydrocarbon concentrations remained at elevated levels.

On March 4, 2003, Cambria installed a co-axial air sparging/soil vapor extraction well (SV-1/AS-1) and two angled air sparging wells (AS-2 and AS-3) to approximately 30 ft bgs (Figure 3). The wells were installed to facilitate feasibility testing and future site remediation. Site remediation via soil vapor extraction and air sparging began in October 2007.

GROUNDWATER MONITORING AND SAMPLING

On October 27, 2008, Pangea conducted groundwater monitoring and sampling at the site. Site monitoring wells were gauged for depth to water. Groundwater samples were collected from monitoring wells MW-2 through MW-7.

Before well purging, the dissolved oxygen (DO) concentration was measured in each well. DO was measured by lowering a downwell sensor to the approximate middle of the water column, and allowing the reading to stabilize during gentle height adjustment. Prior to sample collection approximately three casing volumes of water were purged using disposable bailers, an electric submersible pump or new polyethylene tubing with a check valve. During well purging field technicians measured pH, temperature and conductivity. 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. Field data sheets are presented as Appendix B.

Monitoring Results

Groundwater elevation and analytical data are described below and summarized on Table 1 and Figure 2. Groundwater samples were analyzed for 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 as Appendix C. Dissolved oxygen concentrations in groundwater monitoring wells ranged from 0.49 mg/L (MW-5) to 0.74 mg/L (MW-3).

Groundwater Flow Direction

Based on depth-to-water measurements collected on October 27, 2008, groundwater beneath the site flowed northwards to *north-northeastwards* (Figure 2). The groundwater depth measurements and inferred flow direction this quarter are consistent with historical site conditions. Groundwater depths at the site have historically ranged from approximately 14 to 23 ft bgs, equivalent to a groundwater elevation range from 5 to 13 feet above msl over nine years of monitoring (Table 1).

Hydrocarbon and MTBE Distribution in Groundwater

TPHg, benzene and MTBE concentrations in groundwater at the site are shown on Figure 2. The maximum TPHg concentration (31,000 µg/L) detected this quarter was in well MW-6, while the maximum benzene concentration (570 µg/L) was detected in well MW-2. No hydrocarbons were detected in perimeter wells MW-5 or MW-7. Detected hydrocarbon concentrations in site wells this quarter were within historical ranges. In general, TPHg and BTEX concentrations in site monitoring wells exhibit a stable long-term trend.

MTBE was not detected above reporting limits in any of the wells sampled this quarter. The only apparent historical MTBE detection at the site (48 µg/L in well MW-3 by EPA Method 8020) was interpreted to be a false positive, based on the results of confirmation testing using EPA Method 8260 on July 21, 2003. Since the tank was removed in 1992 and because of the lack of confirmed detectable historical MTBE, MTBE is not a compound of concern at this site.

REMEDIATION SYSTEM SUMMARY

Soil Vapor Extraction/Air Sparge System Description

The soil vapor extraction (SVE) remediation system consists of a blower that extracts soil vapor from well SVE-1. Extracted vapors are routed through a moisture separator then treated by two 2,000-lb canisters of granular activated carbon plumbed in series. The treated vapor is discharged to the atmosphere in accordance with Bay Area Air Quality Management District (BAAQMD) requirements. The air sparging (AS) system consists of a compressor for injecting air into wells AS-1, AS-2 and/or AS-3. Injection into AS wells is controlled by timer-activated solenoid valves. Wells SVE-1 and AS-1 are constructed as vertical co-axial wells, with angled wells AS-2 and AS-3 located in the same vault. A cross section of the remediation wells is included as Figure 3. The remediation system layout is shown on Figure 4.

Operation and Performance

SVE system operation commenced on October 29, 2007, and AS system operation started on November 12,

2007. During initial SVE system operation, the system was monitored *daily* in accordance with air permit requirements of the *Authority to Construct* issued by the Bay Area Air Quality Management District (BAAQMD). On November 27, 2007, the BAAQMD approved Pangea's request to reduce the monitoring frequency from *daily* to *weekly* to help control costs. System operation and performance data through December 31, 2008 are summarized on Table 2.

As of December 31, 2008, the SVE/AS system had been in operation for a total of 8,277 hours (approximately 344.8 days). On August 8, 2008, air sparge wells AS-1 and AS-3 were disconnected from the air compressor and air sparging was conducted solely in well AS-2 to target hydrocarbons in nearby well MW-2. Based on laboratory analytical data, the TPHg removal rates observed during the fourth quarter 2008 (October 14, 2008 through December 31, 2008) ranged from a low of 0.3 pounds per day (lbs/day) (October 23, 2008) to a high of 0.7 lbs/day (December 31, 2008). Benzene removal rates ranged from a low of 0.00 lbs/day (November 17 through December 31, 2008) to a high of 0.01 lbs/day (October 23 and 29, 2008). Pangea technicians periodically adjusted the system to optimize hydrocarbon removal and to minimize the equipment noise impact to the tenant. As of December 31, 2008, laboratory analytical data indicates that the system has removed a total of approximately 2,663 lbs TPHg and 5.46 lbs benzene. The laboratory analytical reports for soil vapor samples are included in Appendix C.

OTHER SITE ACTIVITIES

Temporary Shutdown of Remediation System for Bioparameter Evaluation

Despite over 12 months of SVE/AS system operation groundwater conditions have not significantly improved, although the recent benzene reduction in well MW-2 may be due to enhanced sparging efforts in well AS-2. The limited system effectiveness may be due to insufficient well spacing/quantity or due to a possible offsite source. Pangea plans to prepare a workplan proposing additional assessment to evaluate groundwater geochemistry and to delineate the offsite plume before proposing remediation modifications. The groundwater geochemistry analyses would evaluate existing bacteria and nutrients for hydrocarbon degradation. Grab groundwater sampling would assess downgradient and crossgradient locations to determine if the site plume extends under Webster Street or if contaminants detected in wells (MW-4 and MW-6) located across Webster Street are due to an offsite source (two former UST sites are shown on Figure 2). Based on the results of the assessment, Pangea may propose expansion of the SVE/AS system or an alternative remedial approach. We anticipate performing the assessment during the second quarter 2009 after receiving regulatory approval. In the meantime, the SVE/AS system will be shut off to control costs.

Groundwater Monitoring – Reduced Sampling Proposal

To help control project cost per Cleanup Fund request on October 23, 2008, Pangea proposes to reduce the groundwater monitoring frequency on select site wells. Pangea's proposed groundwater monitoring program includes quarterly monitoring of four (4) key groundwater monitoring wells, and annual monitoring (first quarter of each year) of three (3) site wells. The key wells to be monitored quarterly are two impacted source area wells (MW-2 and MW-3), one crossgradient well MW-6, and one cross/downgradient well (MW-4). The annually monitored wells include one 'clean' source area well (MW-1) and two up- and/or downgradient perimeter wells (MW-5 and MW-7) with no hydrocarbon impact.

Pangea will continue quarterly groundwater monitoring and sampling at the site in accordance with the proposed monitoring program shown in Appendix A. All monitoring wells will be gauged for depth to water and groundwater samples will be analyzed for TPHg, BTEX and MTBE by EPA Method 8015Cm/8021B.

ELECTRONIC REPORTING

This report will be submitted to Alameda County Environmental Health via upload to the County's ftp site. Applicable data, maps, and reports for groundwater monitoring and other activities will be uploaded to the State Water Resource Control Board's Geotracker database. As requested, report hard copies will no longer be provided to local agencies.

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevations and Hydrocarbon Concentration Map

Figure 3 – Cross Section of Remediation Wells

Figure 4 – Remediation System Layout

Table 1 – Groundwater Elevation and Analytical Data

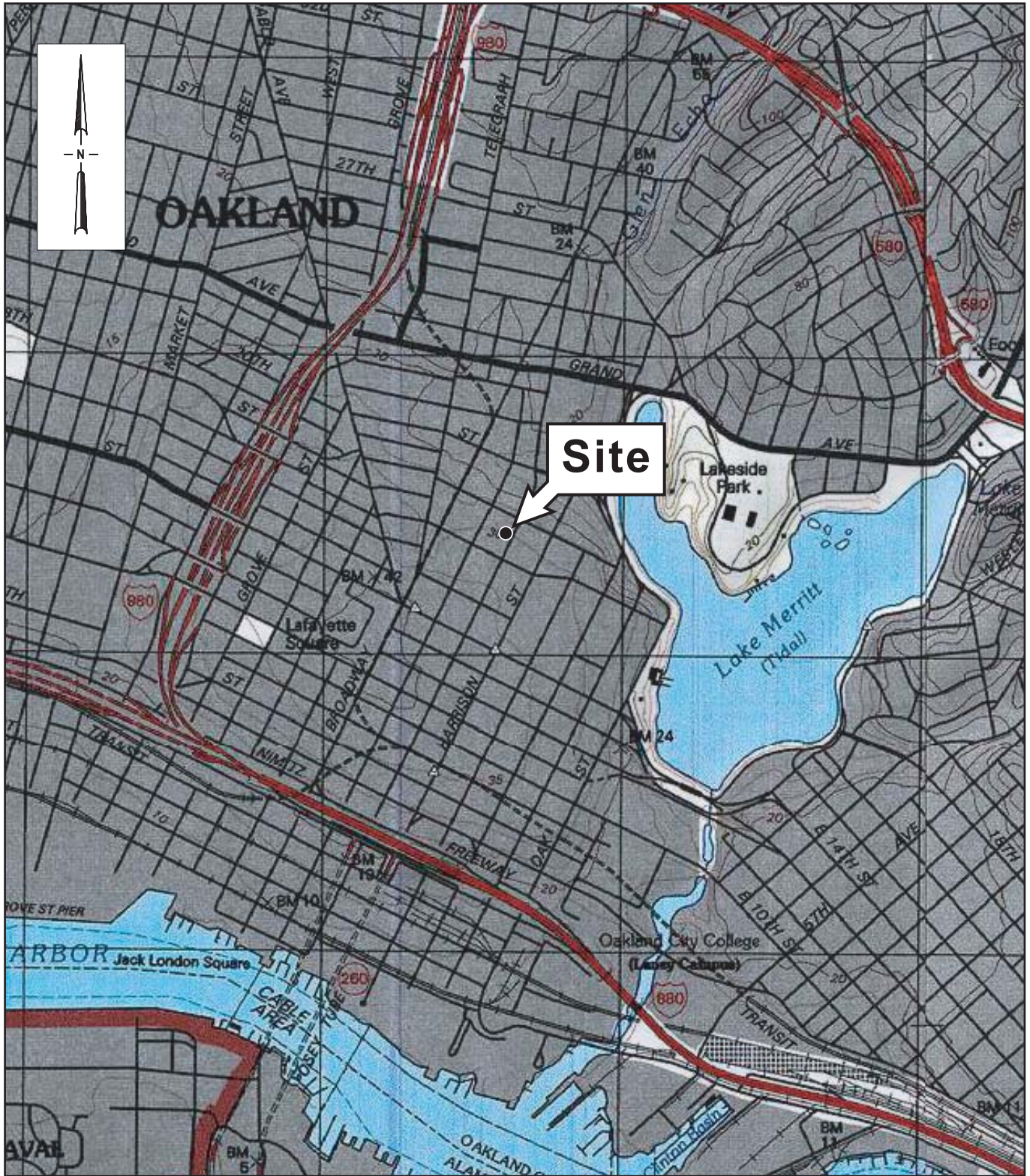
Table 2 – SVE System Performance Summary

Appendix A – Groundwater Monitoring Program

Appendix B – Groundwater Monitoring Field Data Sheets

Appendix C – Laboratory Analytical Reports

APPENDIX A



SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

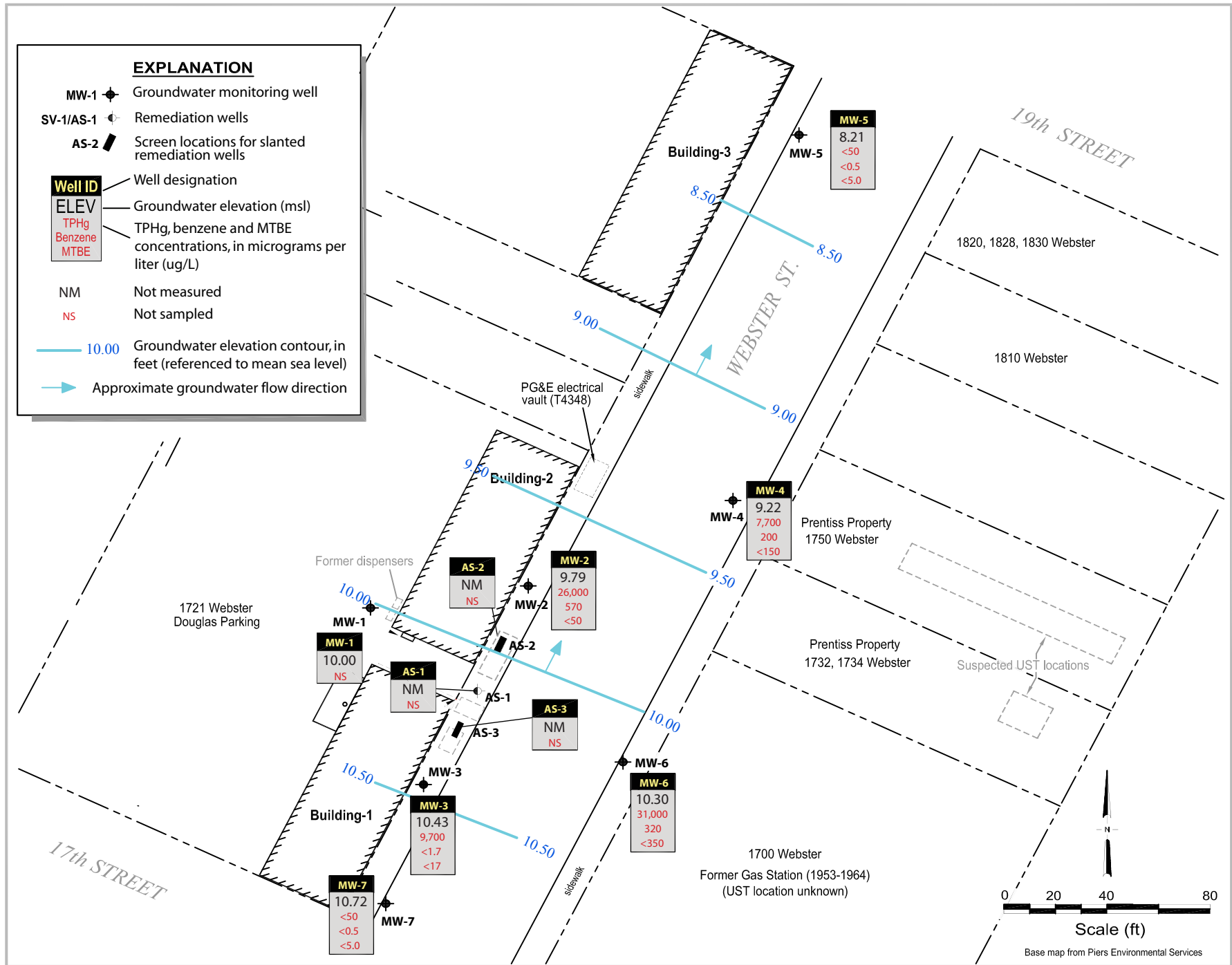
Figure

1

Vicinity Map

Douglas Parking Facility
 1721 Webster Street
 Oakland, California





Douglas Parking
 1721 Webster Street
 Oakland, California



**Groundwater Elevations and
 Hydrocarbon Concentration Map**
 October 27, 2008

FIGURE

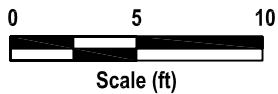
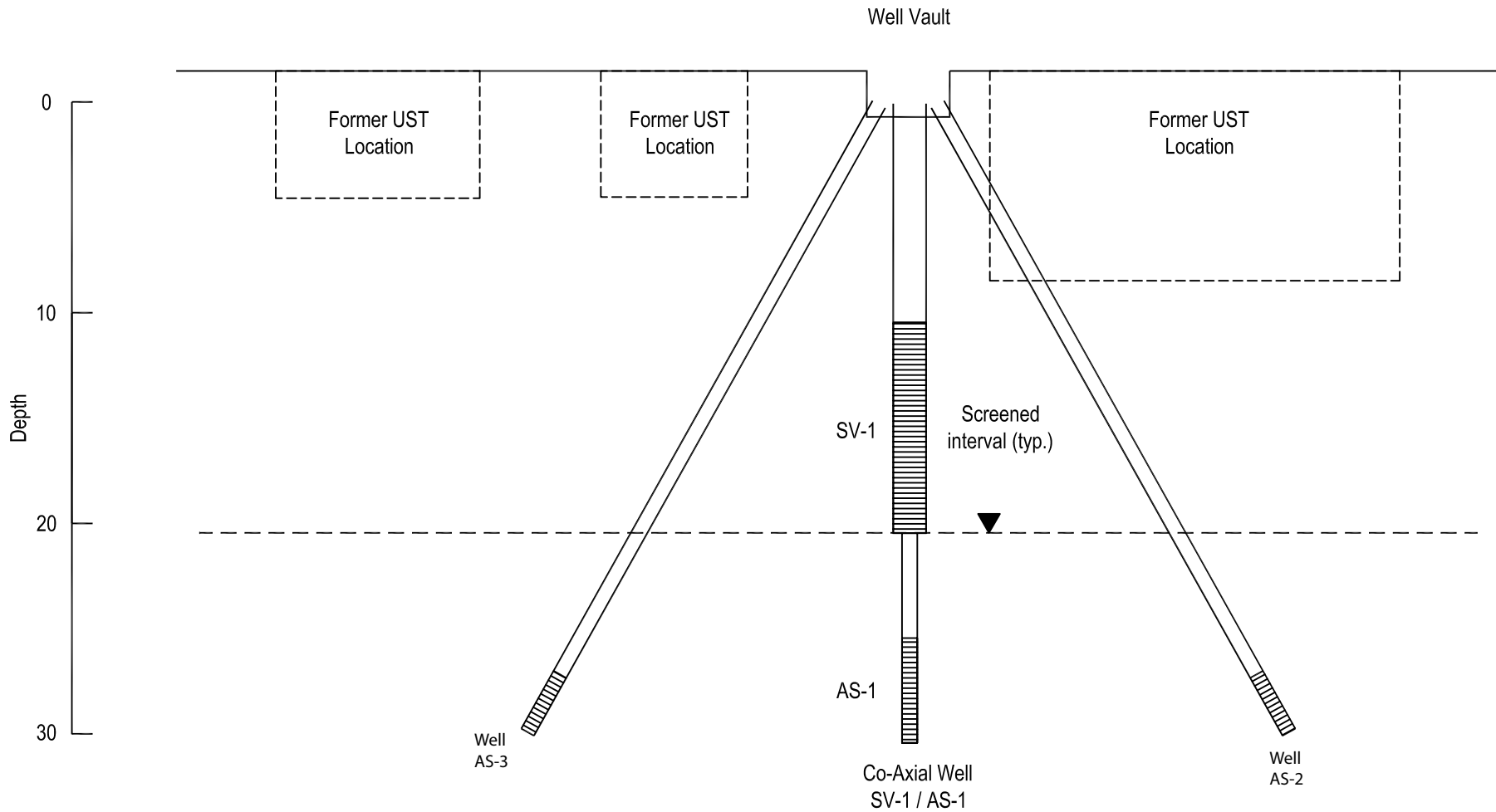



Figure
3

EXPLANATION	
MW-1	Groundwater monitoring well
SV-1, AS-1	Remediation Wells
	Former Underground Storage Tanks / Dispensers

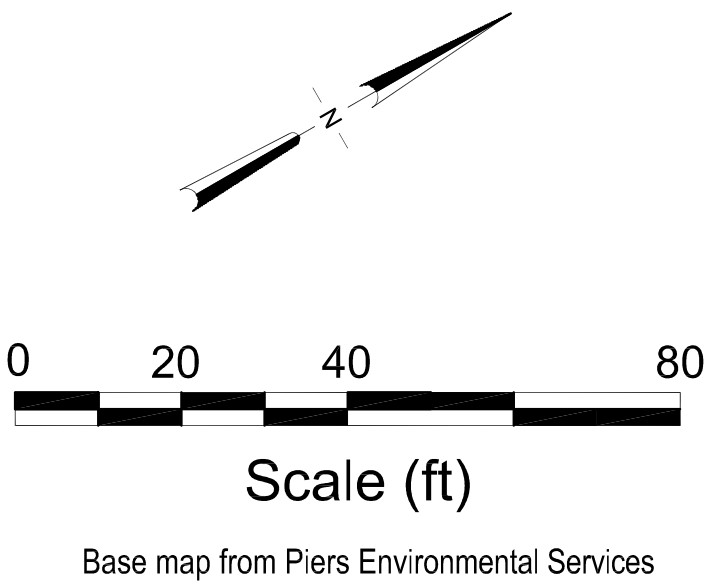
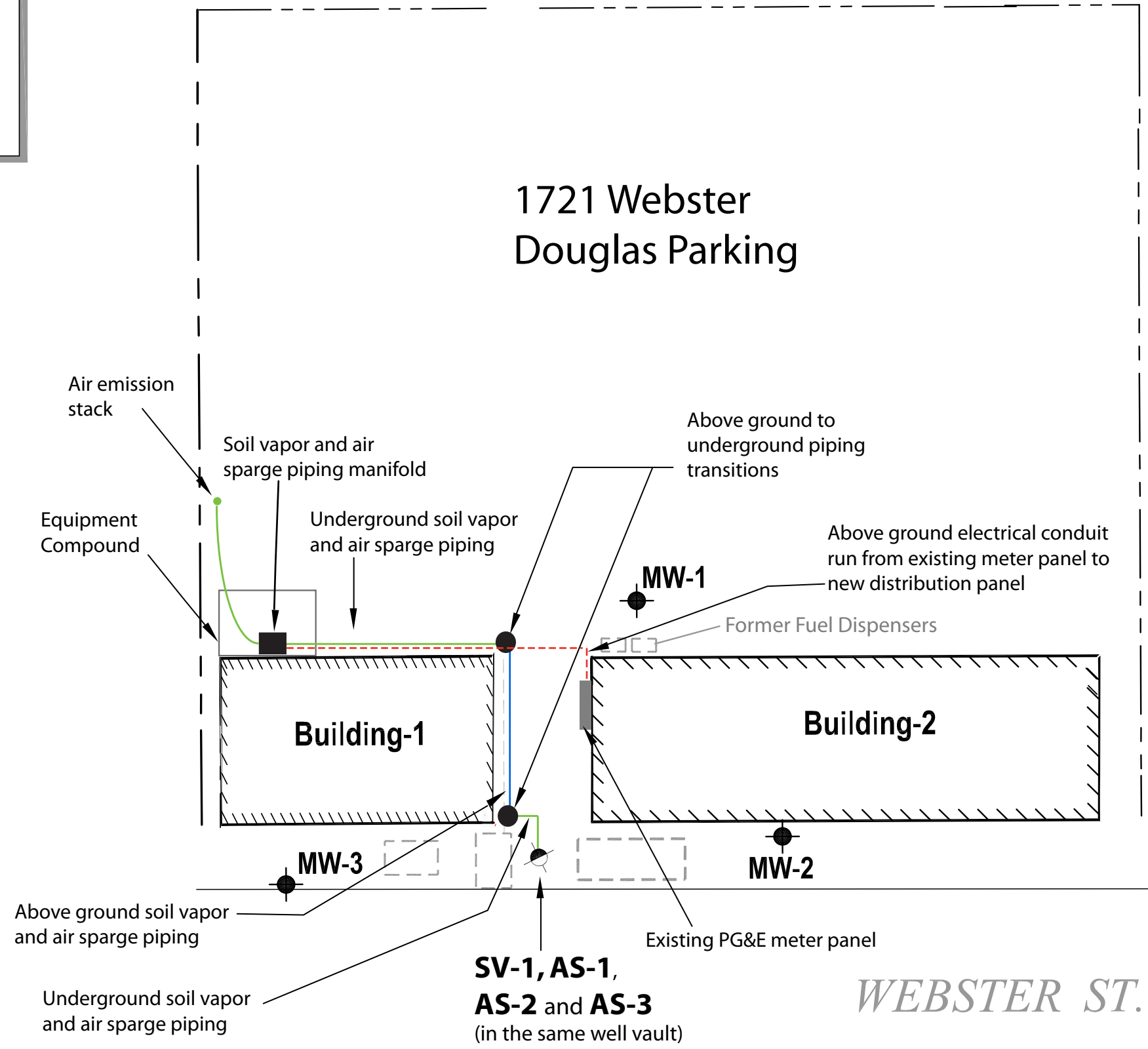


Figure 4

Douglas Parking
 1721 Webster Street
 Oakland, California



**Remediation System
 Layout**

PANGEA

Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1	12/2/1994	19.42	9.83	ND	ND	ND	ND	ND	-
29.25	3/6/1995	20.69	9.04	ND	ND	ND	ND	ND	-
29.73	7/11/1995	20.65	9.16	ND	ND	ND	ND	ND	-
29.81	5/10/1996	20.80	9.01	ND	ND	ND	ND	ND	-
	10/2/1996	21.35	8.46	-	-	-	-	-	-
	2/28/1997	20.57	9.24	-	-	-	-	-	-
	9/16/1997	21.50	8.31	-	-	-	-	-	-
	2/5/1998	20.91	8.90	-	-	-	-	-	-
	8/11/1998	20.50	9.31	-	-	-	-	-	-
	2/8/1999	21.42	8.39	-	-	-	-	-	-
	2/24/1999	22.99	6.82	-	-	-	-	-	-
	3/3/1999	20.84	8.97	-	-	-	-	-	-
	3/10/1999	20.89	8.92	-	-	-	-	-	-
	3/17/1999	20.84	8.97	-	-	-	-	-	-
	5/4/1999	20.80	9.01	-	-	-	-	-	-
	7/20/1999	21.25	8.56	-	-	-	-	-	-
	10/5/1999	21.37	8.44	-	-	-	-	-	-
	1/7/2000	21.65	8.16	-	-	-	-	-	-
	4/6/2000	21.05	8.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	21.13	8.68	-	-	-	-	-	-
	10/3/2000	21.69	8.12	-	-	-	-	-	-
	1/12/2001	22.00	7.81	-	-	-	-	-	-
	4/11/2001	22.16	7.65	-	-	-	-	-	-
	7/6/2001	22.57	7.24	-	-	-	-	-	-
	10/25/2001	22.71	7.10	-	-	-	-	-	-
	3/4/2002	22.53	7.28	-	-	-	-	-	-
	4/18/2002	22.81	7.00	-	-	-	-	-	-
	7/9/2002	22.95	6.86	-	-	-	-	-	-
	10/4/2002	23.13	6.68	-	-	-	-	-	-
	1/12/2003	22.05	7.76	-	-	-	-	-	-
	4/21/2003	21.17	8.64	-	-	-	-	-	-
32.75	7/21/2003	21.39	11.36	-	-	-	-	-	-
	10/2/2003	21.64	11.11	-	-	-	-	-	-
	1/15/2004	21.10	11.65	-	-	-	-	-	-
	4/5/2004	21.20	11.55	-	-	-	-	-	-
	8/9/2004	22.97	9.78	-	-	-	-	-	-
	10/7/2004	23.55	9.20	-	-	-	-	-	-
	2/7/2005	20.90	11.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	20.60	12.15	-	-	-	-	-	-
	7/6/2005	20.66	12.09	-	-	-	-	-	-
	10/10/2005	21.16	11.59	-	-	-	-	-	-
	1/26/2006	20.73	12.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/10/2006	20.05	12.70	-	-	-	-	-	-
	7/6/2006	20.90	11.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/26/2006	21.80	10.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/19/2007	22.02	10.73	--	--	--	--	--	--
	4/17/2007	22.13	10.62	--	--	--	--	--	--
	7/6/2007	21.83	10.92	--	--	--	--	--	--
	10/15/2007	22.28	10.47	--	--	--	--	--	--
	1/17/2008	22.33	10.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/9/2008	22.11	10.64	--	--	--	--	--	--
	7/17/2008	22.50	10.25	--	--	--	--	--	--
	10/27/2008	22.75	10.00	--	--	--	--	--	--

PANGEA

Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene			Xylenes	MTBE
							(µg/L)				
MW-2	12/2/1994	19.50	7.60	61,300	3,000	3,900	160			4,500	-
27.10	3/6/1995	18.49	8.61	98,000	8,400	16,000	2,000			2,600	-
27.40	7/11/1995	18.45	8.95	38,000	3,100	7,500	940			3,700	-
	5/10/1996	18.56	8.84	63,000	7,400	16,000	1,500			6,000	-
	10/2/1996	19.15	8.25	21,000	2,200	3,400	430			1,600	-
	2/28/1997	18.43	8.97	39,000	4,700	9,600	950			4,200	ND
	9/16/1997	19.26	8.14	29,000	3,300	5,800	690			2,900	<620
	2/5/1998	18.66	8.74	10,000	1,000	2,000	170			860	<330
	8/11/1998	18.41	8.99	12,000	1,200	2,300	260			1,400	300
	2/8/1999	19.84	7.56	5,500	740	1,200	150			780	60
	2/17/1999	18.94	8.46	-	-	-	-			-	-
	2/24/1999	20.76	6.64	-	-	-	-			-	-
	3/3/1999	18.55	8.85	-	-	-	-			-	-
	3/10/1999	20.74	6.66	-	-	-	-			-	-
	3/17/1999	18.57	8.83	-	-	-	-			-	-
	5/4/1999	18.55	8.85	90,000	9,200	21,000	1,600			10,000	560
	7/20/1999	18.98	8.42	28,000	2,100	3,700	900			4,200	<860
	10/5/1999	19.10	8.30	11,000	870	180	30			1,400	<110
	1/7/2000	19.41	7.99	15,000	1,300	2,100	440			1,800	<14
	4/6/2000	18.80	8.60	17,000	1,800	3,100	500			2,200	<50
	7/31/2000	18.87	8.53	17,000	1,500	2,700	430			2,100	<200
	10/3/2000	19.45	7.95	27,000	2,500	4,000	660			2,900	<50
	1/12/2001	19.80	7.60	25,000	2,700	4,100	670			3,000	<200
	4/11/2001	20.03	7.37	97,000	9,500	21,000	2,200			7,900	<200
	7/6/2001	20.19	7.21	3,500	500	150	11			420	<5.0
	10/25/2001	20.35	7.05	3,800	620	230	70			400	<50
	3/4/2002	20.37	7.03	46,000	7,300	12,000	870			3,200	<500
	4/18/2002	20.15	7.25	68,000	5,100	8,900	1,100			4,000	<1,000
	7/9/2002	21.09	6.31	1,000	200	8.9	0.67			82	<10
	10/4/2002	21.28	6.12	270	100	3.4	0.53			10	<5.0
	1/12/2003	20.59	6.81	67,000	7,600	13,000	1,400			5,600	<500
	4/21/2003	19.98	7.42	78,000	7,700	12,000	1,900			6,900	<500
30.40	7/21/2003	20.08	10.32	1,800	360	16	<5.0			190	<50
	10/2/2003	20.41	9.99	4,000	790	110	60			350	<50
	1/15/2004	19.93	10.47	8,100	6.1	23	44			530	<50
	4/5/2004	18.99	11.41	14,000	1,600	2,100	550			2,500	<500
	8/9/2004	19.79	10.61	1,200	210	16	14			100	<20
	10/7/2004	20.26	10.14	1,100	2.3	9.8	2.9			36	<5.0
	2/7/2005	18.80	11.60	45,000	4,400	4,800	1,400			5,800	<200
	4/5/2005	18.40	12.00	34,000	3,700	3,600	1,200			5,300	<500 (<5.0)
	7/6/2005	18.48	11.92	24,000	1,600	1,700	570			2,800	<500
	10/10/2005	19.00	11.40	25,000	1,700	2,100	710			3,200	<500
	1/26/2006	18.58	11.82	60,000	4,600	7,200	1,600			6,900	<1,000
	4/10/2006	17.84	12.56	56,000	4,900	7,500	1,200			7,400	<500
	7/6/2006	18.76	11.64	28,000	1,900	1,700	720			2,900	<500
	10/26/2006	19.60	10.80	43,000	2,800	2,500	1,700			7,600	<500
	1/19/2007	19.84	10.56	31,000	2,700	2,400	1,400			5,800	<150
	4/17/2007	19.90	10.50	37,000	3,200	2,900	1,600			6,400	<400
	7/6/2007	19.63	10.77	30,000	3,200	2,000	1,500			5,200	<250
	10/15/2007	20.11	10.29	20,000	1,200	990	650			2,300	<500
	1/17/2008	20.10	10.30	38,000	2,900	5,100	1,200			5,000	<210
	4/9/2008	20.12	10.28	51,000	3,000	6,400	1,700			6,500	<250
	7/17/2008	20.01	10.39	22,000	180	500	660			2,100	<250
	10/27/2008	20.61	9.79	26,000	570	2,100	670			3,400	<50

PANGEA

Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3	12/2/1994	22.15	7.35	394,000	1,200	ND	1,800	4,000	-
29.50	3/6/1995	20.09	9.16	21,000	400	150	24	62	-
29.25	7/11/1995	19.99	9.57	12,000	ND	10	16	99	-
29.56	5/10/1996	20.24	9.32	8,600	ND	7.6	16	84	-
	10/2/1996	20.90	8.66	11,000	ND	7.4	19	92	-
	2/28/1997	20.12	9.44	6,000	ND	4.4	17	88	50
	9/16/1997	20.97	8.59	6,500	<0.5	0.69	1.2	6.7	<5.0
	2/5/1998	20.39	9.17	5,400	<0.5	6.3	15	86	<63
	8/11/1998	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10
	2/8/1999	20.58	8.98	6,100	<0.5	8.1	18	80	<140
	2/17/1999	20.53	9.03	-	-	-	-	-	-
	2/24/1999	22.53	7.03	-	-	-	-	-	-
	3/3/1999	20.28	9.28	-	-	-	-	-	-
	3/10/1999	22.45	7.11	-	-	-	-	-	-
	3/17/1999	20.26	9.30	-	-	-	-	-	-
	5/4/1999	20.24	9.32	11,000	<2	<2	9.8	140	<10
	7/20/1999	20.68	8.88	11,000	<0.5	3.1	13	88	<80
	10/5/1999	20.81	8.75	31,000	62	<0.5	21	170	<90
	1/7/2000	21.09	8.47	13,000	<0.5	<2	21	140	<80
	4/6/2000	20.48	9.08	5,300	1.5	1.4	9.8	60	<30
	7/31/2000	20.62	8.94	7,100	3.5	1.0	12	66	<5.0
	10/3/2000	21.13	8.43	8,000	<0.5	3.3	11	70	<40
	1/12/2001	21.45	8.11	11,000	4.3	6.7	11	73	<70
	4/11/2001	21.69	7.87	10,000	<0.5	<0.5	11	65	<10
	7/6/2001	21.60	7.96	13,000	5.3	1.6	11	58	<5.0
	10/25/2001	21.70	7.86	11,000	<0.5	3.0	15	70	<10
	3/4/2002	21.65	7.91	1,900	1.3	0.8	<0.5	15	<5.0
	4/18/2002	21.77	7.79	1,500	1.0	0.97	1.3	5.8	<5
	7/9/2002	22.03	7.53	13,000	6.8	5.7	13	59	<90
	10/4/2002	22.15	7.41	8,400	<10	<10	<10	42	<100
	1/12/2003	21.13	8.43	9,000	9.5	5.1	8.5	46	<90
	4/21/2003	20.63	8.93	10,000	<5.0	<5.0	8.5	32	<50
32.56	7/21/2003	20.68	11.88	9,600	<2.5	<2.5	7.4	39	48 (<1.0)
	10/2/2003	20.99	11.57	12,000	<5.0	<5.0	10	40	<90
	1/15/2004	20.74	11.82	13,000	37	41	78	930	<50
	4/5/2004	20.59	11.97	4,500	<1.7	<1.7	<1.7	12	<17
	8/9/2004	22.18	10.38	2,100	<1.0	3.7	<1.0	8.1	<10
	10/7/2004	22.79	9.77	2,400	6.5	26	7.5	89	<15
	2/7/2005	20.35	12.21	6,800	2.2	5.6	2.0	12	<30
	4/5/2005	19.95	12.61	6,100	2.3	2.6	1.3	8.3	<45 (<0.5)
	7/6/2005	19.93	12.63	4,500	<1.0	1.5	1.0	8.3	<10
	10/10/2005	20.45	12.11	3,800	0.73	<0.5	0.98	5.7	<15
	1/26/2006	20.05	12.51	5,100	<0.5	1.1	<0.5	6.6	<15
	4/10/2006	19.39	13.17	1,900	0.55	1.6	0.51	4.1	<10
	7/6/2006	20.25	12.31	5,600	<1.0	2.3	<1.0	6.4	<20
	10/26/2006	21.07	11.49	8,000	2.5	1.0	2.3	12	<35
	1/19/2007	21.38	11.18	77,000	19	40	9.5	130	<300
	4/17/2007	21.45	11.11	7,400	2.7	6.6	1.1	12	<40
	7/6/2007	21.29	11.27	7,100	2.4	5.6	0.85	10	<30
	10/15/2007	21.62	10.94	10,000	<5.0	<5.0	<5.0	14	<50
	1/17/2008	21.68	10.88	6,400	1.8	<0.5	1.0	8.4	23
	4/9/2008	21.42	11.14	4,700	1.7	2.2	<0.5	3.8	<18
	7/17/2008	22.10	10.46	7,700	2.9	3.1	1.4	11	<60
	10/27/2008	22.13	10.43	9,700	<1.7	1.8	2.3	11	<17

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-4 25.29	5/10/1996	16.98	8.31	14,000	ND	1,200	720	3,100	-
	10/2/1996	17.65	7.64	12,000	ND	650	580	2,200	-
	2/28/1997	16.80	8.49	13,000	ND	1,100	750	2,700	110
	9/17/1997	17.93	7.36	13,000	<2.5	820	750	2,900	<190
	2/5/1998	16.78	8.51	13,000	<1.0	690	690	2,900	<170
	8/11/1998	16.59	8.70	15,000	<5	360	520	1,900	280
	2/8/1999	17.10	8.19	9,800	<5	680	770	2,200	300
	2/24/1999	18.95	6.34	-	-	-	-	-	-
	3/3/1999	16.80	8.49	-	-	-	-	-	-
	3/10/1999	16.86	8.43	-	-	-	-	-	-
	3/17/1999	16.82	8.47	-	-	-	-	-	-
	5/4/1999	16.86	8.43	11,000	46	600	620	1,900	<100
	7/20/1999	17.30	7.99	13,000	<0.5	470	7.0	2,000	<150
	10/5/1999	17.43	7.86	18,000	4.4	720	800	2,100	<120
	1/7/2000	17.78	7.51	18,000	<2	930	990	2,700	<30
	4/6/2000	17.17	8.12	8,000	31	390	530	1,300	<10
	7/31/2000	17.21	8.08	6,200	13	170	460	850	<10
	10/3/2000	18.00	7.29	14,000	42	820	730	2,000	<50
	1/12/2001	18.20	7.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	18.31	6.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
7/6/2001	18.35	6.94	470	2.3	1.6	0.81	43	<5.0	
10/25/2001	18.47	6.82	110	0.70	<0.5	<0.5	3.3	<5.0	
3/4/2002	18.43	6.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
4/18/2002	18.61	6.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
7/9/2002	19.50	5.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
10/4/2002	19.83	5.46	310	2.0	2.9	13	16	<0.5	
1/12/2003	19.07	6.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
4/21/2003	18.71	6.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
28.29	7/21/2003	18.81	9.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	19.02	9.27	59	0.78	<0.5	1.1	0.91	<5.0
	1/15/2004	18.68	9.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	17.41	10.88	6,200	29	250	450	730	<100
	8/9/2004	19.07	9.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	19.65	8.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	17.21	11.08	8,700	48	340	550	720	<100
	4/5/2005	16.78	11.51	6,900	27	290	520	660	<170 (<0.5)
	7/6/2005	16.98	11.31	5,600	<5.0	130	470	480	<50
	10/10/2005	17.59	10.70	6,300	23	78	530	430	<50
	1/26/2006	17.08	11.21	5,600	41	68	400	290	<120
	4/10/2006	16.27	12.02	2,900	39	32	200	140	<60
	7/6/2006	17.20	11.09	5,400	65	59	340	150	<120
	10/26/2006	18.06	10.23	7,200	72	46	460	200	<150
	1/19/2007	18.29	10.00	7,100	140	35	520	150	<200
	4/17/2007	18.30	9.99	4,900	90	32	290	89	<110
	7/6/2007	18.00	10.29	4,600	91	30	210	55	<90
10/15/2007	18.52	9.77	8,600	200	62	480	110	<210	
1/17/2008	18.46	9.83	820	15	3.7	25	9.3	<10	
4/9/2008	18.23	10.06	3,600	55	20	160	64	<60	
7/17/2008	18.72	9.57	6,500	210	47	510	180	<180	
10/27/2008	19.07	9.22	7,700	7,700	200	28	450	87	<150

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-5 21.97	5/10/1996	14.60	7.37	ND	ND	ND	ND	ND	-
	10/2/1996	15.25	6.72	ND	ND	ND	ND	ND	-
	2/28/1997	14.31	7.66	ND	ND	ND	ND	ND	ND
	9/17/1997	15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
	2/5/1998	13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/11/1998	13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/8/1999	14.19	7.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/1999	16.18	5.79	-	-	-	-	-	-
	3/3/1999	14.23	7.74	-	-	-	-	-	-
	3/10/1999	14.32	7.65	-	-	-	-	-	-
	3/17/1999	14.25	7.72	-	-	-	-	-	-
	5/4/1999	14.41	7.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/20/1999	14.44	7.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/5/1999	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/7/2000*	15.23	6.74	-	-	-	-	-	-
	4/6/2000	14.74	7.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	14.52	7.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/3/2000	15.37	6.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/12/2001	15.70	6.27	6,400	13	290	450	1,100	<40
	4/11/2001	15.78	6.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	15.97	6.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/25/2001	16.05	5.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	16.21	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	16.59	5.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
7/9/2002	16.94	5.03	170	1.0	0.65	2.1	4.0	<15	
10/4/2002	17.14	4.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
1/12/2003	16.58	5.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
4/21/2003	15.90	6.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
7/21/2003	16.03	8.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
24.99	10/2/2003	16.33	8.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/15/2004	16.21	8.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	15.01	9.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/9/2004	16.85	8.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	17.48	7.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	16.52	8.47	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	14.45	10.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (<0.5)
	7/6/2005	14.85	10.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/10/2005	15.44	9.55	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/26/2006	14.96	10.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/10/2006	14.01	10.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2006	15.17	9.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/26/2006	15.94	9.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/19/2007	16.05	8.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/17/2007	15.99	9.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2007	15.50	9.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/15/2007	16.27	8.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
1/17/2008	15.10	9.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
4/9/2008	15.96	9.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
7/17/2008	16.44	8.55	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
10/27/2008	16.78	8.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID <i>TOC</i>	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene Xylenes			MTBE
							(µg/L)			
MW-6 30.99	6/30/2003	19.60	11.39	68,000	950	6,000	2,400	10,000	<1,000	
	7/21/2003	19.67	11.32	120,000	170	1,400	1,100	10,000	<1,000	
	10/2/2003	19.97	11.02	16,000	7.6	200	38	1,800	<100	
	1/15/2004	19.55	11.44	14,000	48	51	94	1,100	<50	
	4/5/2004	19.17	11.82	24,000	180	900	430	1,800	<500	
	8/9/2004	20.98	10.01	5,300	6.4	25	5.3	69	<17 (<0.5)	
	10/7/2004	21.52	9.47	5,600	11	58	18	210	<50 (<0.5)	
	2/7/2005	19.00	11.99	31,000	120	620	310	1,200	<500	
	4/5/2005	18.60	12.39	21,000	170	1,100	350	1,300	<500 (<5.0)	
	7/6/2005	18.56	12.43	26,000	130	920	320	1,200	<500	
	10/10/2005	19.99	11.00	19,000	140	840	250	980	<500	
	1/26/2006	18.70	12.29	10,000	140	1,100	270	1,200	<170	
	4/10/2006	18.04	12.95	13,000	140	1,000	280	1,000	<250	
	7/6/2006	18.80	12.19	17,000	150	1,000	290	1,000	<250	
	10/26/2006	19.62	11.37	23,000	230	660	470	1,500	<500	
	1/19/2007	19.92	11.07	18,000	190	620	350	1,100	<150	
	4/17/2007	19.97	11.02	23,000	380	1,400	590	2,000	<450	
	7/6/2007	19.81	11.18	28,000	600	3,000	900	2,700	<500	
	10/15/2007	20.15	10.84	25,000	290	680	410	1,100	<250	
	10/15/2007	20.15	10.84	25,000	290	680	410	1,100	<250	
1/17/2007	20.22	10.77	16,000	200	130	130	460	<150		
4/9/2008	19.86	11.13	18,000	320	870	480	1,500	<250		
7/17/2008	20.36	10.63	18,000	320	510	420	1,200	<500		
10/27/2008	20.69	10.30	31,000	320	320	410	990	<350		
MW-7 33.11	6/30/2003	21.40	11.71	170	<0.5	2.1	2.0	8.7	<5.0	
	7/21/2003	21.44	11.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/2/2003	21.73	11.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/15/2004	21.57	11.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	4/5/2004	20.84	12.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	8/9/2004	22.68	10.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/7/2004	23.27	9.84	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	2/7/2005	20.60	12.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	4/5/2005	20.22	12.89	<50	<0.5	0.75	<0.5	<0.5	<5.0 (<0.5)	
	7/6/2005	20.25	12.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/10/2005	20.70	12.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/26/2006	20.32	12.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	4/10/2006	19.62	13.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	7/6/2006	20.47	12.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/26/2006	21.30	11.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/19/2007	21.62	11.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	4/17/2007		11.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	7/6/2007	21.59	11.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/15/2007	21.85	11.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/17/2007	21.90	11.21	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
4/9/2008	21.61	11.50	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
7/17/2008	22.09	11.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
10/27/2008	22.39	10.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	
AS-1	7/6/2006	19.53	--	18,000	2,700	570	700	1,900	<500	
	10/26/2006	20.33	--	15,000	1,900	340	360	1,400	<250	
	1/19/2007	20.64	--	5,700	1,100	110	88	630	<50	
	1/19/2007	20.64	--	5,700	1,100	110	88	630	<50	
	4/17/2007	20.71	--	--	--	--	--	--	--	
7/16/2007	--	--	--	--	--	--	--	--		

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Table 1 - Groundwater Elevation and Analytical Data.

Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene Xylenes MTBE		
							(µg/L)		
AS-1(cont'd)	10/15/2007	--	--	--	--	--	--	--	--
	1/17/2008	--	--	--	--	--	--	--	--
	4/9/2008	--	--	--	--	--	--	--	--
AS-2	7/6/2006	22.26	--	2,100	6.1	<0.5	33	200	<20
	10/26/2006	23.25	--	280	1.1	<0.5	<0.5	6.0	<15
	1/19/2007	23.61	--	2,100	2.3	<0.5	96	310	<35
	4/17/2007	23.70	--	--	--	--	--	--	--
	7/16/2007	--	--	--	--	--	--	--	--
	10/15/2007	--	--	--	--	--	--	--	--
	1/17/2008	--	--	--	--	--	--	--	--
	4/9/2008	--	--	--	--	--	--	--	--
AS-3	7/6/2006	21.77	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/26/2006	22.66	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/19/2007	22.97	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/17/2007	23.06	--	--	--	--	--	--	--
	7/16/2007	--	--	--	--	--	--	--	--
	10/15/2007	--	--	--	--	--	--	--	--
	1/17/2008	--	--	--	--	--	--	--	--
	4/9/2008	--	--	--	--	--	--	--	--
Trip Blank	01/12/01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/15/2007	--	--	--	--	--	--	--	--

Notes and Abbreviations:

TOC = Top of casing elevations in feet above mean sea level.

ft amsl = Measured in feet above mean sea level

µg/L = Micrograms per liter.

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

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

MTBE = Methyl tertiary butyl ether by EPA Method 8021B, and by EPA Method 8260 in parenthesis.

<0.5 = Concentration not detected above specific laboratory reporting limit.

-- = Not analyzed, not sampled, or not applicable.

ND = Not detected.

Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed monitoring wells using a benchmark in the top of the curb near the SW return of the NW corner of 34th and Broadway.

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
10/29/07	N/A	1.0	0	0	0	0	0	0	0	0	0	no	System start up
10/29/07	SYS-INF SYS-MID SYS-EFF	1.5	104	68	3,400 8 0	9,600 23 27	76 ND<0.077 0.15	320.3	6.7	2.30	0.14	no	
10/30/07	SYS-INF SYS-MID SYS-EFF	24.3	50	27	37,000 635 700	9,000 ND<7.0 60	74 ND<0.077 0.29	144.4	143.8	1.08	1.17	no	Readings upon arrival
10/30/07	SYS-INF SYS-MID SYS-EFF	25.2	45	27	3,200 620 530	1,500 ND<7.0 ND<7.0	11 ND<0.077 ND<0.077	21.7	144.6	0.14	1.17	no	Readings after dilution air introduced to reduce noise and limit hydrocarocarbon loading on carbon (prevent thermal
10/31/07	SYS-INF SYS-MID SYS-EFF	48.8	40	27	922* 0* 0*	880 ND<7.0 ND<7.0	8.6 ND<0.077 ND<0.077	11.3	155.7	0.10	1.27	no	Dilution airflow set at ~25% of total
11/01/07	SYS-INF SYS-MID SYS-EFF	78.8	39	27	1,475 14 9	--- --- ---	--- --- ---	11.0	169.5	0.10	1.39	no	
11/02/07	SYS-INF SYS-MID SYS-EFF	100.2	40	27	736 19 10	--- --- ---	--- --- ---	11.3	179.6	0.10	1.48	no	Shut system down at 100.5 hours for weekend
11/05/07	SYS-INF SYS-MID SYS-EFF	100.9	38	27	1,546 30 4	--- --- ---	--- --- ---	10.7	179.9	0.10	1.48	no	Restart system at 100.5 hours on 11/5/07
11/06/07	SYS-INF SYS-MID SYS-EFF	126.7	38	27	213 0 0	--- --- ---	--- --- ---	10.7	191.4	0.10	1.59	no	
11/07/07	SYS-INF SYS-MID SYS-EFF	154.7	45	27	170 0 0	--- --- ---	--- --- ---	12.7	206.2	0.11	1.72	no	
11/08/07	SYS-INF SYS-MID SYS-EFF	178.2	47	27	160 0 0	--- --- ---	--- --- ---	13.3	219.2	0.12	1.83	no	Lab analysis performed for methane; 2.4 ul/L detected in SYS EFF

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
11/09/07	SYS-INF	200.3	45	31	163	---	---	12.7	106.0	0.11	0.94	no	Shut system down at 200.3 hours for weekend
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/12/07	SYS-INF	206.3	42	28	211	---	---	11.9	109.0	0.11	0.97	yes	Restart system at 200.3 hours on 11/12/07; start air sparge system
	SYS-MID				0	---	---						
	SYS-EFF				2	---	---						
11/13/07	SYS-INF	225.6	46	28	2,937	---	---	13.0	119.4	0.12	1.06	yes	
	SYS-MID				0	---	---						
	SYS-EFF				4	---	---						
11/14/07	SYS-INF	253.0	45	28	4,113	---	---	12.7	133.9	0.11	1.19	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/15/07	SYS-INF	278.4	45	28	2,810	---	---	12.7	147.4	0.11	1.31	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/16/07	SYS-INF	301.4	43	28	2,570	---	---	12.1	159.0	0.11	1.41	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/17/07	SYS-INF	327.1	42	41	11	---	---	11.9	171.7	0.11	1.52	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/18/07	SYS-INF	352.1	44	41	530	---	---	12.4	184.6	0.11	1.64	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/19/07	SYS-INF	375.2	42	41	24	22	<0.077	0.3	188.7	0.00	1.64	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
11/20/07	SYS-INF	398.8	49	68	660	---	---	0.3	193.3	0.00	1.64	yes	Increased system vacuum by closing off recirculation valve on blower.
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments	
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)			
11/26/07	SYS-INF	NM	49	68	1,800	---	---	0.3	193.3	0.00	1.64	yes	Received verbal approval from BAAQMD to decrease monitoring from daily to weekly.	
	SYS-MID				0	---	---							
	SYS-EFF				0	---	---							
12/03/07	SYS-INF	593.5	48	61	1,300	---	---	0.3	200.2	0.00	1.64	yes		
	SYS-MID				0	---	---							
	SYS-EFF				0	---	---							
12/14/07	SYS-INF	853.0	52	54	280	280	0.17	4.7	293.2	0.003	1.69	yes		
	SYS-MID				0	<7.0	<0.077							
	SYS-EFF				0	<7.0	<0.077							
12/21/07	SYS-INF	1,021.5	58	54	0	170	0.14	3.2	315.5	0.00	1.70	yes		SVE shutdown after reading, restarted
	SYS-MID				0	<7.0	<0.077							
	SYS-EFF				0	<7.0	<0.077							
12/27/07	SYS-INF	1,163.5	--	--	--	---	---	NM	315.5	NM	1.70	yes	SVE shutdown on arrival, restart and monitor	
	SYS-MID				---	---	---							
	SYS-EFF				---	---	---							
12/28/07	SYS-INF	1,188.5	50	54	14	14	<0.077	0.2	317.0	0.00	1.70	yes		
	SYS-MID				0	<7.0	<0.077							
	SYS-EFF				0	<7.0	<0.077							
01/03/08	SYS-INF	1,329.5	51	54	50	50	<0.077	0.8	321.8	0.00	1.70	yes		
	SYS-MID				0	15	<0.077							
	SYS-EFF				0	<7.0	<0.077							
01/10/08	SYS-INF	1,430.2	50	54	0	16	<0.077	0.3	322.9	0.00	1.70	no		AS system off while sampling
	SYS-MID				0	13	<0.077							
	SYS-EFF				0	<7.0	<0.077							
1/15/2008*	SYS-INF	1,546.0	50	81	--	1,200	2.1	19.2	415.8	0.03	1.85	yes		
	SYS-MID					7.7	<0.077							
	SYS-EFF					<7.0	<0.077							
1/23/2008*	SYS-INF	1,694.5	50	95	--	1,300	1.6	20.9	544.8	0.02	2.00	yes		
	SYS-MID					11	<0.077							
	SYS-EFF					<7.0	<0.077							
01/30/08	SYS-INF	1,864.6	49	81	--	2,300	2.6	36.2	801.1	0.04	2.49	yes		
	SYS-MID					24	<0.077							
	SYS-EFF					<7.0	<0.077							

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
02/06/08	SYS-INF SYS-MID SYS-EFF	2,027.5	50	81	--	1,700 43 <7.0	2.9 <0.077 <0.077	27.3	986.2	0.04	2.77	yes	
02/12/08	SYS-INF SYS-MID SYS-EFF	2,173.3	60	95	--	1,500 520 28	1.7 1.1 <0.077	28.9	1,161.6	0.03	2.95	yes	
02/21/08	SYS-INF SYS-MID SYS-EFF	2,394.1	65	95	--	---	---	31.3	1,449.4	0.03	3.25	yes	Samples not picked up by the laboratory courier before hold time expired.
02/29/08	SYS-INF SYS-MID SYS-EFF	2,580.5	27	95	--	1,100 890 <7.0	1.4 5.3 <0.077	9.5	1,523.4	0.01	3.34	yes	System shut down for future changeout of carbon in first vessel.
04/07/08	SYS-INF SYS-MID SYS-EFF	2,581.4	44	7.5	--	1,100 ---	1.4 ---	15.5	1,524.0	0.02	3.34	yes	Restart system after carbon changeout
04/10/08	SYS-INF SYS-MID SYS-EFF	2,650.3	26	7	--	1,200 <7.0 <7.0	3.6 <0.077 <0.077	10.0	1,552.7	0.03	3.41	yes	
04/17/08	SYS-INF SYS-MID SYS-EFF	2,826.1	28	8	962 3 3	---	---	10.8	1,631.7	0.03	3.63	yes	
04/23/08	SYS-INF SYS-MID SYS-EFF	2,969.4	26	7.5	--	1,100 <7.0 <7.0	1.5 <0.077 <0.077	9.2	1,686.4	0.01	3.70	yes	
04/30/08	SYS-INF SYS-MID SYS-EFF	3,136.8	23	7.5	--	780 <7.0 <7.0	1.4 <0.077 <0.077	5.8	1,726.6	0.01	3.76	yes	
05/07/08	SYS-INF SYS-MID SYS-EFF	3,304.6	28	8	378 0 0	---	---	7.0	1,775.6	0.01	3.84	yes	
05/14/08	SYS-INF SYS-MID SYS-EFF	3,472.2	26	8	523 6 0	---	---	6.5	1,821.0	0.01	3.92	yes	

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
05/23/08	SYS-INF	3,690.2	28	7	264	---	7.0	1,884.7	0.01	4.02	yes		
	SYS-MID				0	---							
	SYS-EFF				0	---							
05/30/08	SYS-INF	3,859.2	36	7	317	---	9.0	1,948.1	0.01	4.12	yes		
	SYS-MID				1	---							
	SYS-EFF				0	---							
06/05/08	SYS-INF	3,999.6	38	7	350	---	9.5	2,003.7	0.02	4.21	yes		
	SYS-MID				0	---							
	SYS-EFF				0	---							
06/13/08	SYS-INF	4,193.1	38	7	--	700	8.5	2,072.5	0.02	4.36	yes		
	SYS-MID				<7.0	<0.077							
	SYS-EFF				<7.0	<0.077							
06/19/08	SYS-INF	4336.7	25	7	349	---	5.6	2,106.1	0.01	4.43	yes		
	SYS-MID				--	---							
	SYS-EFF				0	---							
06/27/08	SYS-INF	4,529.7	25	7	335	---	5.6	2,151.3	0.01	4.52	yes		
	SYS-MID				0	---							
	SYS-EFF				0	---							
07/10/08	SYS-INF	4,839.0	56	8	256	---	12.6	2,313.4	0.03	4.86	yes		
	SYS-MID				40	---							
	SYS-EFF				0	---							
07/18/08	SYS-INF	5,032.0	33	8	330	---	7.4	2,373.0	0.02	4.98	yes		
	SYS-MID				174	---							
	SYS-EFF				0	---							
7/24/2008**	SYS-INF	5,178.0	33	8	360	---	7.4	2,418.0	0.02	5.07	yes		
	SYS-MID				187	---							
	SYS-EFF				0	---							
8/1/2008**	SYS-INF	5,368.0	33	8	248	---	7.4	2,476.7	0.01	5.16	yes	Lowered motor speed of blower to reduce noise within garage per client	
	SYS-MID				193	---							
	SYS-EFF				0	---							
8/8/2008**	SYS-INF	5,536.7	17	4.5	146	---	4.6	2,508.9	0.01	5.19	yes	Stopped air sparging to wells AS-1 & AS-3. Sparging in well AS-2 full time.	
	SYS-MID				153	---							
	SYS-EFF				0	---							

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
8/18/2008**	SYS-INF	5,774.1	17	4.5	365	840	1.1	4.6	2,554.2	0.01	5.25	yes	
	SYS-MID				170	140	<0.077						
	SYS-EFF				0	<7.0	<0.077						
08/22/08	SYS-INF	5,873.9	17	4	325	---	---	4.6	2,573.3	0.01	5.27	yes	
	SYS-MID				207	---	---						
	SYS-EFF				0	---	---						
09/05/08	SYS-INF	6,208.4	14	5	385	---	---	3.6	2,624.0	0.004	5.33	yes	System shutdown for carbon changeout
	SYS-MID				219	---	---						
	SYS-EFF				23	---	---						
10/06/08	SYS-INF	6,211.0	13	5	443	1,000	1.8	3.4	2,624.4	0.004	5.33	yes	System restarted; samples collected after system ran for approximately 1 hour
	SYS-MID				23	---	---						
	SYS-EFF				0	<7.0	<0.077						
10/14/08	SYS-INF	6,405.0	15	5	215	---	---	0.4	2,627.3	0.00	5.33	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
10/23/08	SYS-INF	6,615.7	14	5	205	---	---	0.3	2,630.3	0.01	5.40	yes	
	SYS-MID				0	---	---						
	SYS-EFF				0	---	---						
10/29/08	SYS-INF	6,760.3	21	5	160	---	---	0.5	2,633.3	0.01	5.46	yes	
	SYS-MID				---	---	---						
	SYS-EFF				---	---	---						
11/17/08	SYS-INF	7,221.4	20	5	98	---	---	0.5	2,642.6	0.00	5.46	yes	
	SYS-MID				---	---	---						
	SYS-EFF				---	---	---						
11/25/08	SYS-INF	7,413.9	19	5	24	---	---	0.5	2,646.4	0.00	5.46	yes	
	SYS-MID				---	---	---						
	SYS-EFF				---	---	---						
12/05/08	SYS-INF	7,652.3	15	5	74	---	---	0.4	2,650.0	0.00	5.46	yes	Shutdown system to conduct maintenance on blower. Greased fittings and lowered motor speed at owner
	SYS-MID				---	---	---						
	SYS-EFF				---	---	---						
12/16/08	SYS-INF	7,915.0	15	5	21	77	<0.077	0.4	2,654.1	0.00	5.46	yes	
	SYS-MID				---	---	---						
	SYS-EFF				<7.0	<0.077	<0.077						

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Table 2. SVE/AS System Performance Summary - 1721 Webster Street, Oakland, California

Date	Sample ID	FIELD MEASUREMENTS				ANALYTICAL RESULTS		REMOVAL				Air Sparge Unit on? (yes/no)	Comments
		Hour Meter Reading (hours)	System Vapor Flow Rate (cfm)	Applied Vacuum ("H2O)	FID Reading (ppm)	TPHg Lab Data (ppmv)	Benzene Lab Data (ppmv)	SVE TPHg Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE Benzene Removal (lbs)		
12/23/08	SYS-INF	8,079.4	20	5	22	---	---	0.5	2,657.4	0.00	5.46	yes	
	SYS-MID					---	---						
	SYS-EFF					---	---						
12/31/08	SYS-INF	8,277.1	30	5	24	---	---	0.7	2,663.5	0.00	5.46	yes	
	SYS-MID					---	---						
	SYS-EFF					---	---						

Notes:

NM = not measured

cfm = cubic feet per minute.

ppmv = Parts per million by volume

lbs = Pounds

"H2O = Inches of water

SVE/AS = Soil vapor extraction and air sparge

FID = Flame Ionization Detector.

Hydrocarbon Removal/Emission Rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

Rate = vapor analytical concentration (ppmv) x system flowrate (scfm) x (1lb-mole/386 ft³) x molecular weight (86 lb/lb-mole for TPH-Gas hexane) x 1440 min/day x 1/1,000,000.

* = Subtracted carbon tip readings of 28, 17, and 10, respectively, from influent, midpoint and effluent readings without carbon tip to account for methane.

(--) = not sampled

*Soil vapor flow rates were not measured on 1/15/08 and 1/23/08 due to equipment breakage. For hydrocarbon mass removal calculation purposes, the flow rate recorded during the 1/10/08 visit was used.

**Vapor flow meter being serviced from 7-24-2008 through 8-18-2008. Flow rates assumed from previous data, field observations, and adjustments made to system.

APPENDIX A

Groundwater Monitoring Program

Table A - Groundwater Monitoring Program
 Douglas Parking Company, 1721 Webster Street, Oakland, CA.

Well ID	Well Type	Screened Interval (ft bgs)	Well Location for Monitoring	Casing Diam. (in)	Gauge Frequency	Sample Frequency	TPHg/BTEX/MTBE	TAME/TBA/DIPE/ETBE/MTBE
Onsite Monitoring and Remediation Wells								
MW-1	Mon	17-30	Source Area	2	All	1st	1st	---
MW-2	Mon	19.5-29.5	Downgradient	2	All	All	All	---
MW-3	Mon	20-30	Upgradient	2	All	All	All	---
AS-1	Rem	27-30	Source Area	1	---	---	---	---
AS-2	Rem	27-30	Source Area	2	---	---	---	---
AS-3	Rem	27-30	Source Area	2	---	---	---	---
Offsite Monitoring Wells								
MW-4	Mon	15-30	Mid-Downgradient	2	All	All	All	---
MW-5	Mon	10-25	Downgradient	2	All	1st	1st	---
MW-6	Mon	15-30	Crossgradient	2	All	All	All	---
MW-7	Mon	15-30	Upgradient	2	All	1st	1st	---

Notes and Abbreviations:

1st = First Quarter (Typically January, A month)

All = All four quarters. Typically A months (January, April, July, October)

Mon = Groundwater Monitoring Only

Rem= Remediation Well Only


--- = None or not applicable

AS-1 = Air Sparging Well

APPENDIX B

Groundwater Monitoring Field Data Sheets

Well Gauging Data Sheet

Project.Task #:1135.001 217				Project Name: Douglas Parking			
Address:1721 Webster Street, Oakland, CA						Date:10/27/08	
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	2"	5:40			22.75	26.65	TOC
MW-2	2"	2:20			20.61	25.95	TOC
MW-3	2"	2:17			22.13	26.90	TOC
MW-4	2"	2:12			19.07	29.42	TOC
MW-5	2"	2:00			16.78	24.50	TOC
MW-6	2"	2:25			20.69	25.79	TOC
MW-7	2"	2:07			22.39	28.46	TOC

Comments: MW-1 DO = 0.73


MONITORING FIELD DATA SHEET

Well ID: MW-7

Project.Task #: 1135.001 217		Project Name: Douglas Parking						
Address: 1721 Webster Street, Oakland, CA								
Date: 10/27/08		Weather: Clear						
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): 28.46	Depth to Product:							
Depth to Water (DTW): 22.39	Product Thickness:							
Water Column Height: 6.07	1 Casing Volume: 0.97		gallons					
Reference Point: TOC	3 Casing Volumes: 2.91		gallons					
Purging Device: Disposable Bailer, 3" PVC Bailer, Check Valve Tubing, What Pump								
Sampling Device: Disposable Bailer								
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Voi(gal)	DTW
3:15	19.0	7.18	389				1	
3:20	19.5	7.06	384				2	
3:25	19.5	7.09	376				3	

Comments: YSI 550A DO meter pre purge DO = 0.55 mg/l
 post purge DO = mg/l

very turbid, silty

Sample ID: MW-7	Sample Time: 3:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 10/27/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

APPENDIX C

Laboratory Analytical Report



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 10/27/08
	Client Contact: Celia Costarella	Date Received: 10/28/08
	Client P.O.:	Date Reported: 11/03/08
		Date Completed: 10/31/08

WorkOrder: 0810723

November 03, 2008

Dear Celia:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#1135.001; Douglas Parking,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 10/27/08
	Client Contact: Celia Costarella	Date Received: 10/28/08
	Client P.O.:	Date Extracted: 10/30/08
		Date Analyzed: 10/30/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0810723

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	26,000,d1	ND<50	570	2100	670	3400	10	117
002A	MW-3	W	9700,d2,d9	ND<17	ND<1.7	1.8	2.3	11	3.3	122
003A	MW-4	W	7700,d1	ND<150	200	28	450	87	10	118
004A	MW-5	W	ND	ND	ND	ND	ND	ND	1	94
005A	MW-6	W	31,000,d1,b6,b1	ND<350	320	320	410	990	20	112
006A	MW-7	W	ND	ND	ND	ND	ND	ND	1	93

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	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 McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
d1) weakly modified or unmodified gasoline is significant
d2) heavier gasoline range compounds are significant (aged gasoline?)
d9) no recognizable pattern



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 39197

WorkOrder: 0810723

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B						Spiked Sample ID: 0810723-006A			
	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) ^f	ND	60	99.1	90.2	9.45	95.8	93.5	2.35	70 - 130	20	70 - 130	20
MTBE	ND	10	104	91.6	12.8	89.8	89.6	0.250	70 - 130	20	70 - 130	20
Benzene	ND	10	98.2	94.1	4.31	95.1	92.3	3.00	70 - 130	20	70 - 130	20
Toluene	ND	10	88.5	84.3	4.86	85	83.1	2.20	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.4	94.4	4.15	93.6	92	1.78	70 - 130	20	70 - 130	20
Xylenes	ND	30	96.1	92.5	3.84	91.9	89.9	2.29	70 - 130	20	70 - 130	20
%SS:	93	10	97	97	0	99	99	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 39197 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0810723-001A	10/27/08 5:00 PM	10/30/08	10/30/08 10:20 AM	0810723-002A	10/27/08 4:35 PM	10/30/08	10/30/08 3:56 PM
0810723-003A	10/27/08 4:05 PM	10/30/08	10/30/08 3:23 AM	0810723-004A	10/27/08 3:00 PM	10/30/08	10/30/08 10:52 AM
0810723-005A	10/27/08 5:25 PM	10/30/08	10/30/08 4:30 AM	0810723-006A	10/27/08 3:30 PM	10/30/08	10/30/08 10:42 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.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **10/28/08 3:40:37 PM**

Project Name: **#1135.001; Douglas Parking**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0810723** 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: 4°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
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0810723

ClientCode: PEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 5 days
Celia Costarella	Email: ccostarella@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	cc:	Pangea Environmental Svcs., Inc.	Date Received: 10/28/2008
1710 Franklin Street, Ste. 200	PO:	1710 Franklin Street, Ste. 200	Date Printed: 10/28/2008
Oakland, CA 94612	ProjectNo: #1135.001; Douglas Parking	Oakland, CA 94612	
(510) 836-3702 FAX (510) 836-3709			

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0810723-001	MW-2	Water	10/27/2008 17:00	<input type="checkbox"/>	A	A											
0810723-002	MW-3	Water	10/27/2008 16:35	<input type="checkbox"/>	A												
0810723-003	MW-4	Water	10/27/2008 16:05	<input type="checkbox"/>	A												
0810723-004	MW-5	Water	10/27/2008 15:00	<input type="checkbox"/>	A												
0810723-005	MW-6	Water	10/27/2008 17:25	<input type="checkbox"/>	A												
0810723-006	MW-7	Water	10/27/2008 15:30	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

0810723

Pangea Environmental Services, Inc.

1710 Franklin Street
Oakland, CA 94612

Website: www.pangeaenv.com

Telephone: (510) 836-3700

Fax: (510) 836-3709

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Yes No (Normal) No Write On (DW) No

Report To: Celia Costarella Bill To: Pangea
Company: Pangea Environmental Technology, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: ccostarella@pangeaenv.com
Tele: (510) 735-1751 Fax: (510) 836-3709
Project #: 1135.001 Project Name: 1721 Webster Street Douglas Parking
Project Location: 1721 Webster St. Oakland, CA
Sampler Signature: Munk Environmental Sampling

Analysis Request Other Comments

SAMPLE ID (Field Point Name)	LOCATION (1721 Webster / Douglas Parking)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	TO3 / TO15	Filter Samples for Metals analysis: Yes / No				
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other																						
MW-2		10-27-08	5:00	3	VOA	X					X	X																								
MW-3			4:35																																	
MW-4			4:05																																	
MW-5			3:00																																	
MW-6			5:25																																	
MW-7			3:30																																	

Relinquished By: [Signature] Date: 10/28/08 Time: 12:58 Received By: [Signature]
Relinquished By: Date: Time: Received By:
Relinquished By: Date: Time: Received By:

ICE/r° 4.0
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓
PRESERVATION VOAS ✓ O&G METALS OTHER pH<2



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 12/16/08
	Client Contact: Bryce Taylor	Date Received: 12/16/08
	Client P.O.:	Date Reported: 12/19/08
		Date Completed: 12/17/08

WorkOrder: 0812495

December 19, 2008

Dear Bryce:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **#1135.001; Douglas Parking,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0812495

ClientCode: PEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 5 days
Bryce Taylor	Email: btaylor@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	cc:	Pangea Environmental Svcs., Inc.	Date Received: 12/16/2008
1710 Franklin Street, Ste. 200	PO:	1710 Franklin Street, Ste. 200	Date Printed: 12/16/2008
Oakland, CA 94612	ProjectNo: #1135.001; Douglas Parking	Oakland, CA 94612	
(510) 836-3700 FAX (510) 836-3709			

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0812495-001	INF	Air	12/16/2008 11:45	<input type="checkbox"/>	A	A											
0812495-002	EFF	Air	12/16/2008 11:45	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **12/16/08 6:55:55 PM**

Project Name: **#1135.001; Douglas Parking**

Checklist completed and reviewed by: **Samantha Arbuckle**

WorkOrder N°: **0812495** Matrix Air

Carrier: Rob Pringle (MAI Courier)

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: 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
- Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 12/16/08
	Client Contact: Bryce Taylor	Date Received: 12/16/08
	Client P.O.:	Date Extracted: 12/17/08
		Date Analyzed 12/17/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0812495

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	270,d7,d9	ND	ND	0.57	ND	2.9	1	112
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	94

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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 McC Campbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 12/16/08
	Client Contact: Bryce Taylor	Date Received: 12/16/08
	Client P.O.:	Date Extracted: 12/17/08
		Date Analyzed: 12/17/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0812495

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	77,d7,d9	ND	ND	0.15	ND	0.67	1	112
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	94

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

d9) no recognizable pattern



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 40314

WorkOrder 0812495

EPA Method SW8021B/8015Cm		Extraction SW5030B							Spiked Sample ID: 0812475-001A			
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) ^f	ND	60	84.8	89.7	5.58	109	101	7.29	70 - 130	20	70 - 130	20
MTBE	ND	10	98.3	91.9	6.65	101	103	1.88	70 - 130	20	70 - 130	20
Benzene	ND	10	91.7	85.1	7.57	84.9	84.7	0.299	70 - 130	20	70 - 130	20
Toluene	ND	10	84	79.1	6.03	89.2	87.7	1.67	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.4	89.6	4.21	90.5	89.4	1.19	70 - 130	20	70 - 130	20
Xylenes	ND	30	91.7	88.5	3.56	103	101	1.62	70 - 130	20	70 - 130	20
%SS:	93	10	102	98	4.28	100	101	1.22	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40314 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0812495-001A	12/16/08 11:45 AM	12/17/08	12/17/08 6:41 AM	0812495-002A	12/16/08 11:45 AM	12/17/08	12/17/08 7:11 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.

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.

0810144

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Brian Busch Bill To: Pangea Environmental
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, CA 94612 E-Mail: bbusch @pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 1135.001 Project Name: Douglas Parking
Project Location: 1721 Webster St. Oakland, CA
Sampler Signature: [Signature]

Analysis Request										Other	Comments						
BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)		Filter Samples for Metals analysis: Yes / No
INF	Douglas Parking	10-6	1300	1	Bag												
EFF	Douglas Parking	↓	↓	1	Bag												

Relinquished By: [Signature] Date: 10/6/17 Time: 1700 Received By: [Signature]
Relinquished By: [Signature] Date: 10/7/17 Time: 8240 Received By: [Signature]
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/° NA COMMENTS: Please Report Results in PPMU
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____
PRESERVATION VOAS | O&G | METALS | OTHER
pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0810144

ClientCode: PEO

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 5 days
Brian Busch	Email: bbusch@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	cc:	Pangea Environmental Svcs., Inc.	Date Received: 10/07/2008
1710 Franklin Street, Ste. 200	PO:	1710 Franklin Street, Ste. 200	Date Printed: 10/07/2008
Oakland, CA 94612	ProjectNo: #1135.001; Douglas Parking, 1721	Oakland, CA 94612	
	Webster St,		
(510) 836-3700 FAX (510) 836-3709			

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0810144-001	INF	Air	10/6/2008 13:00	<input type="checkbox"/>	A	A											
0810144-002	EFF	Air	10/6/2008 13:00	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.** Date and Time Received: **10/7/08 2:57:45 PM**
Project Name: **#1135.001; Douglas Parking, 1721 Webster St,** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder N°: **0810144** Matrix Air Carrier: Rob Pringle (MAI Courier)

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: 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
Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

Client contacted: Date contacted: Contacted by:

Comments:



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"When Quality Counts"

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

Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Client Project ID: #1135.001; Douglas
Parking, 1721 Webster St,

Client Contact: Brian Busch

Client P.O.:

Date Sampled: 10/06/08
Date Received: 10/07/08
Date Extracted: 10/07/08
Date Analyzed 10/07/08

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0810144

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	3600,d1	ND	6.0	17	5.2	44	1	93
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	96

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking, 1721 Webster St,	Date Sampled: 10/06/08
	Client Contact: Brian Busch	Date Received: 10/07/08
	Client P.O.:	Date Analyzed: 10/07/08
		Date Extracted: 10/07/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0810144

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	1000,d1	ND	1.8	4.5	1.2	9.9	1	93
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	96

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant