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Real Estate

April 15, 2011

Mr. Mark Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT CERTIFICATION
County File # RO 387
Mel Senna Brake Service
2301 East 12th Street
Oakland, CA

Dear Mr. Detterman:

P&D Environmental, Inc. has prepared the following document:

- Groundwater Monitoring and Sampling Report (February 17, 2011 Sampling Event) dated April 15, 2011 (document 0404.R7).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 834-9811.

Sincerely,

J.W. Silveira Realty

J.W. Silveira

0404.L15

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

April 15, 2011
Report 0404.R7

Mr. J.W. Silveira
J.W. Silveria Realty
499 Embarcadero
Oakland, CA 94606

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT
(FEBRUARY 17, 2011 SAMPLING EVENT)
County File # RO 387
Mel Senna Brake Service
2301 East 12th Street
Oakland, CA

Dear Mr. Silveira:

P&D Environmental, Inc. (P&D) is pleased to present this report documenting the results of monitoring and sampling of the groundwater monitoring wells at the subject site. Field activities were performed on February 17, 2011. The well monitoring and sampling was performed in response to a request in a letter from the Alameda County Environmental Health Department (ACDEH), dated December 23, 2010. The letter referenced previous correspondence that requested that semi-annual monitoring and sampling be performed during the first and third quarters of each year. A Site Location Map (Figure 1) and Site Vicinity Map showing groundwater monitoring well locations (Figure 2) are attached with this report.

BACKGROUND

The subject site was previously a gas station and vehicle repair facility, and is currently a tire and brake repair facility. The subject site is located in an industrially zoned area and bordered to the northeast by East 12th Street, to the southeast by railroad property, to the northwest by 23rd Avenue and a public park, and to the southwest by a furniture restoration facility.

Review of available reports prepared by others has identified the following historical activities and investigations at the subject site.

- Removal of one gasoline UST, one diesel UST, and two waste oil USTs from December 1990 through March 1991, and excavation of contaminated soil to a depth of approximately 17 to 18 feet below the ground surface. A total of 16 soil samples were collected from beneath USTs, a total of 6 UST pit sidewall samples were collected, and 2 UST pit water samples were collected. Some of the soil excavated during UST removal was reportedly used to backfill the UST pit.
- Installation of wells MW-1, MW-2, and MW-3 in June, 1991.

- Installation of wells MW-4, MW-5, MW-6, and EW-1, and drilling of two soil borings (B-1 and B-2), and the quarterly monitoring and sampling of wells MW-1, MW-2, and MW-3 from July 1992 through December 1993.
- Weekly and other periodic bailing of wells MW1, MW2 and MW3 at the site during April, May, October and November 1993 as an interim remedial measure to remove separate phase petroleum hydrocarbons from well MW-2 and reduce petroleum hydrocarbon concentrations in the groundwater monitoring wells.
- Collection of groundwater grab samples from boreholes SB-1 through SB-6 on March 31 and April 1, 1999 and quarterly groundwater monitoring well monitoring and sampling from June 1994 through April 1999. Although petroleum hydrocarbons and HVOCs were reported as detected at offsite location SB-6 to the northeast on the opposite side of East 12th Street from the subject site, review of the laboratory report shows that none of the analytes were detected.

The highest concentrations of petroleum hydrocarbons in soil at the site have been detected at depths ranging from 8 to 12 feet below the ground surface. The highest concentrations of petroleum hydrocarbons in groundwater at the site have been detected in well MW-2 (the well where separate phase petroleum hydrocarbons were detected in 1993), MW-3 (located near well MW-2), and in well MW-1 (located at one end of the former UST pit). The highest concentrations of HVOCs detected in groundwater have been at well MW-6, with trichloroethene, cis-1,2-dichlorethene, trans-1,2-dichloroethene and vinyl chloride detected in groundwater.

The measured depth to groundwater at the site has typically ranged from approximately 5 to 9 feet. The calculated groundwater flow direction at the site has historically been reported to be predominantly northwesterly. Separate phase hydrocarbons were historically reported to be present in well MW2, and groundwater sample results have consistently shown the presence of Total Petroleum Hydrocarbons as Gasoline (TPH-G), Total Petroleum Hydrocarbons as Diesel (TPH-D), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) in all of the wells at the site. TPH-G and TPH-D concentrations for all of the wells have almost invariably exceeded 1,000 ug/L during all sampling events, and have shown little evidence of decline since the beginning of monitoring. Groundwater benzene concentrations have ranged up to 5,200 ug/L in well MW-2, and have shown a decline with time for all of the wells. Halogenated Volatile Organic Compounds (HVOCs) have also been historically intermittently detected in groundwater samples at the site, with TCE ranging up to 160 ug/L, and vinyl chloride up to 230 ug/L. MTBE was not detected in any of the groundwater samples.

A review of the laboratory reports for the historical groundwater monitoring well sampling events shows that three of the last four sampling events performed by others where laboratory reports were available for review and the laboratory reported the presence of sheen on the laboratory report identified sheen as present in almost all of the samples.

Recent activities performed by P&D have included the following.

- Preparation of a review of historical investigation documents for the site that included summaries of historical groundwater level measurements, historical groundwater organic compound and metals concentrations, and historical laboratory report identification of sheen

on groundwater (Subsurface Investigation Work Plan (SB-7 Through SB-13 and SG-1 Through SG-5) dated December 16, 2008, document 0404.W1),

- Monitoring and sampling of all of the wells on June 4, 2007.
- Preparation of a Sensitive Receptor Survey Report dated December 8, 2008 (document 0404.R2) for wells located within a 1/2 – mile radius of the subject site.
- Preparation of a Preferential Pathway Survey Report dated December 15, 2008 (document 0404.R3) to identify buried utilities in the vicinity of the subject site that included cross sections showing utility trench and seasonal groundwater depths.
- Subsurface investigation in March 2009 that included collecting groundwater grab samples from seven borings with two of the groundwater grab samples collected at a depth of approximately 50 feet bgs; continuous coring for logging purposes at four of the borings; collection of soil samples from three of the borings; soil conductivity logging at two locations to a depth of 60 feet bgs; and collection of soil gas samples from five locations adjacent to the subject site building at a depth of 3 feet bgs except for SG6 that was collected at a depth of 5 feet bgs (Subsurface Investigation Report (SB7 Through SB13 and SG1 Through SG6) dated July 7, 2009, document 0404.R4).

FIELD ACTIVITIES

On February 17, 2011 P&D personnel monitored wells MW1, MW2, MW3, MW4, MW5, MW6, and EW1 for depth to water to the nearest 0.01 foot using an electric water level indicator, and sampled all seven wells. The wells were first evaluated for the presence of free product or sheen by using a transparent bailer. No free product was detected in any of the wells. Petroleum hydrocarbon sheen and strong or strong to moderate petroleum hydrocarbon odors were detected on the purge water from all seven wells with the exception of well MW4, where moderate odors were detected.

Prior to sampling, all of the wells were purged of a minimum of three casing volumes of water. During purging operations, the field parameters of pH, electrical conductivity and temperature were monitored. Once a minimum of three casing volumes had been purged, water samples were collected using a clean Teflon bailer. The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials containing hydrochloric acid preservative and to one-liter amber glass bottles that were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that no air bubbles were present.

The sample containers were then transferred to a cooler with ice, and later were transported to the laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

DRUM DISPOSAL

On February 22, 2011 two drums of well purge water were removed from the site as non-hazardous waste by Clearwater Environmental, Inc. (Clearwater) of Union City California to the Alviso Independent Oil facility in Alviso, California using non-hazardous waste manifest 09880. A copy of the non-hazardous waste manifest is attached with this report.

HYDROGEOLOGY

The water levels measured in wells MW1, MW2, MW3, MW4, MW5, MW6, and EW1 on February 17, 2011 are summarized in Table 1. Review of the water levels shown on Figure 2 shows that the water levels in the former fuel UST pit (see EW1) and adjacent to the former waste oil UST pit (see MW6) are elevated relative to the water levels in the surrounding wells. Review of historical water levels for the wells in Appendix A of P&D's December 16, 2008 Subsurface Investigation Work Plan (document 0404.W1) shows that the water level in well MW6 has historically been anomalously high relative to the water levels in the adjacent wells. Based on the groundwater levels in wells MW1 through MW6, the groundwater flow direction on February 17, 2011 appeared to be west-northwesterly with a gradient of approximately 0.035 in the vicinity of the monitoring wells located in 23rd Avenue. The groundwater surface contours and associated groundwater flow direction at the site on February 17, 2011 is shown on Figure 2.

Review of groundwater flow direction information for nearby sites that have groundwater monitoring wells shows that the groundwater flow direction at 2200 East 12th Street (located approximately 800 feet northwest of the subject site) has historically been to the west-southwest, and that the groundwater flow direction at 2345 International Boulevard (located approximately 500 feet northeast of the subject site) has historically been to the southwest. The calculated February 17, 2011 westerly to northwesterly groundwater flow direction for the subject site is approximately consistent with the groundwater flow directions identified for the nearby sites. The historical north-northwesterly groundwater flow direction reported for the subject site may be associated with elevated water levels in the former UST pits resulting in anomalously elevated water levels in wells located in the immediate vicinity of the former UST pits.

Groundwater surface elevations shown on Figure 2 were calculated by determining top of well casing elevations from historical depth to water measurements and associated reported groundwater surface level elevations.

LABORATORY RESULTS

The groundwater samples collected from all of the wells were analyzed at McCampbell Analytical, Inc. in Pittsburg, California for Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) and TPH-D using EPA Method 3510C in conjunction with EPA Method 8015B, and for TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B. The samples were also analyzed for methyl tertiary-butyl ether (MTBE), BTEX, other Volatile Organic Compounds (VOCs) including Lead Scavengers and Fuel Oxygenates, and for HVOCs using EPA Method 5030B in conjunction with EPA Method 8260B. The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

Review of Table 2 and the laboratory analytical report shows that MTBE was not detected in any of the samples; TPH-MO was not detected in MW4 and ranged in concentration from 620 to 2,600 ug/L; TPH-D ranged in concentration from 1,600 to 11,000 ug/L; TPH-G ranged in concentration from 3,600 to 10,000 ug/L; and benzene ranged in concentration from not detected to 350 ug/L. Review of the laboratory report notes shows that all of the TPH-G results were identified as consisting of weakly modified or unmodified gasoline with the exception of the results for MW4,

which were identified as heavier gasoline-range compounds. Similarly, the laboratory report notes for the Total Extractable Petroleum Hydrocarbons (TPH-D and TPH-MO) results for all of the samples were identified as Stoddard solvent/mineral spirit-range compounds; all of the sample results with the exception of MW1 were identified as consisting of diesel-range compounds with no recognizable pattern; the sample results from MW5, MW6 and EW1 were also identified as possibly consisting of gasoline-range compounds; and the sample results from wells MW1 and MW2 were also identified as consisting of oil-range compounds.

The only HVOCs, fuel oxygenates, or lead scavengers detected in any of the wells consisted of trichloroethene, cis-1,2-dichloroethene, and tert-Butyl alcohol in EW1 which were detected at concentrations of 6.4, 25, and 12 ug/L, respectively.

Since the previous sampling event on June 4, 2007 TPH-G, BTEX and all other VOC concentrations have decreased in all of the wells with the exception of toluene in MW2; TPH-G in MW3; and trichloroethene and cis-1,2-dichloroethene in EW1, which increased. Similarly, TPH-D and TPH-MO concentrations have decreased in wells MW1, MW4 and MW6, with the exception of TPH-D in MW4, which increased. In wells MW2, MW3, MW5 and EW1 TPH-D and TPH-MO concentrations have all increased since the previous sampling event, with separate phase hydrocarbon layer reported by the laboratory for the samples from MW2 and MW3.

DISCUSSION AND RECOMMENDATIONS

The groundwater flow direction at the site on February 17, 2011 was calculated to be to the west-northwest, which is consistent with historical groundwater flow directions at the site and which is generally consistent with the groundwater flow direction identified at two nearby sites that have groundwater monitoring wells. Petroleum hydrocarbon sheen and petroleum hydrocarbon odors were detected on the purge water from all seven wells. However, review of the laboratory report shows that the laboratory identified sheen only for the samples from wells MW2 and MW3, located immediately downgradient of the former UST pits.

Groundwater isoconcentration contours for TPH-G, TPH-D, and benzene, that include the April 1999 and March 2009 groundwater grab sample results and the February 2011 well sample results are shown in Figures 3, 4, and 5, respectively. Comparison of the isoconcentration contours for the current sampling event and the previous (June 4, 2007) sampling event shows that the TPH-D and TPH-G 1,000 ug/L isoconcentration contour and the benzene 100 ug/L isoconcentration contour have not changed, indicating that the shape of the groundwater plume is unchanged. Only the presence of 10,000 ug/L isoconcentration contours for TPH-G and TPH-D changed in the vicinity of the former UST pits. The presence and absence of elevated TPH-G and TPH-D groundwater concentrations in the vicinity of the former UST pits is interpreted to be related to seasonal changes in petroleum groundwater concentrations associated with changing water levels and wet season infiltration of rain.

The only HVOCs, fuel oxygenates, or lead scavengers detected in any of the wells consisted of trichloroethene, cis-1,2-dichloroethene, and tert-Butyl alcohol in EW1 which were detected at concentrations of 6.4, 25, and 12 ug/L, respectively. The absence of HVOCs in all of the wells except for EW1 (located near the former waste oil USTs) is consistent with the trend of decreasing HVOC concentrations and detections in all of the wells for the site, and is also

interpreted to be related to seasonal changes in petroleum groundwater concentrations associated with changing water levels and wet season infiltration of rain.

The isoconcentration contours shown on Figures 3 through 5 were prepared with data that included borehole groundwater grab sample results which could be positively biased due to sorption of petroleum to sediments in the borehole groundwater grab samples. For this reason the isoconcentration contours are assumed to provide a conservative approximation of the extent of impact to groundwater.

Based on the historical water quality data base that is summarized in Appendix A of P&D's December 16, 2008 Subsurface Investigation Work Plan (document 0404.W1), P&D recommends that well sampling be reduced to an annual basis pending implementation of remedial solutions for the site.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH website, in accordance with ACDEH requirements. In addition, a copy of this report will be uploaded to the GeoTracker database.

LIMITATIONS

This report was prepared solely for the use of J.W. Silveira Realty. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

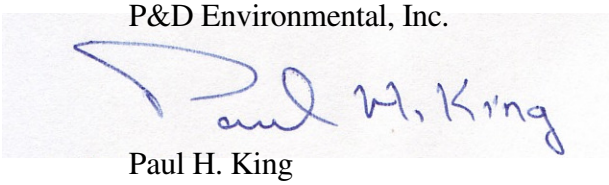
This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities, which are used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made.

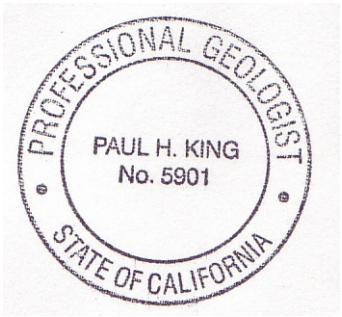
The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions or comments, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.





Paul H. King
Professional Geologist #5901
Expires: 12/31/11

Attachments:

Table 1 - Well Monitoring Data
Table 2 - Summary of Groundwater Sample Laboratory Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Vicinity Map Showing Groundwater Surface Elevations
Figure 3 - Site Vicinity Map Showing TPH-D Groundwater Isoconcentration Contours
Figure 4 - Site Vicinity Map Showing TPH-G Groundwater Isoconcentration Contours
Figure 5 - Site Vicinity Map Showing Benzene Groundwater Isoconcentration Contours

Groundwater Monitoring/Well Purging Data Sheets
Drum Disposal Manifest
Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

Table 1. Well Monitoring Data

Well Number	Date Monitored	* Top of Casing Elevation (ft-msl.)	Depth to Water (ft)	Water Table Elevation (ft-msl.)
MW1	2/17/2011	16.21	7.23	8.98
	6/4/2007		8.07	8.14
MW2	2/17/2011	14.43	5.78	8.65
	6/4/2007		6.77	7.66
MW3	2/17/2011	14.95	5.75	9.20
	6/4/2007		7.04	7.91
MW4	2/17/2011	14.66	6.42	8.24
	6/4/2007		7.45	7.21
MW5	2/17/2011	14.67	7.09	7.58
	6/4/2007		8.62	6.05
MW6	2/17/2011	15.28	5.15	10.13
	6/4/2007		7.88	7.40
EW1	2/17/2011	15.36	5.43	9.93
	6/4/2007		7.23	8.13

Abbreviations and Notes:

ft-msl = feet above mean sea level

ft = feet

*Elevations were surveyed by Epigene International using a spirit level relative to a City of Oakland benchmark and are reported in feet mean sea level.

Table 2. Summary of Groundwater Sample Laboratory Analytical Results

Well Number	Sample Date	TPH-MO	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW1	2/17/2011	**620, e,d**	**4,300, e,d**	**4,800**	ND<5.0	**(220)**	(6.7)	ND<5.0	(5.3)
	6/4/2007	**2,100**	**10,000, a, b,d,e**	**11,000, a, f**	ND< 45	**260 (280)**	6.9	5.6	9.5
MW2	2/17/2011	**2,500, e,b,d**	**9,000, e,b,d**	**9,200, a**	ND<10	**(350)**	(33)	ND<10	**(24)**
	6/4/2007	**1,600**	**8,300, b, e**	**28,000, f**	ND< 160	**480 (430)**	18 (31)	17	**41 (43)**
MW3	2/17/2011	**1,700, e,b**	**11,000, e,b**	**10,000, a**	ND<1.0	**(26)**	(3.7)	ND<1.0	ND<1.0
	6/4/2007	**580**	**4,200, b, e**	**9,200, f**	ND< 60	**58 (34)**	4.7 (4.8)	5.9 (2.4)	8.1 (2.7)
MW4	2/17/2011	ND<250	**1,600, e**	**2,800, f,g**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/4/2007	ND<250	**1,200, e**	**4,900, f**	ND< 25	ND< 2.5	ND< 2.5	ND< 2.5	3.0
MW5	2/17/2011	**450, e,b**	**2,800, e,b**	**5,400**	ND<2.5	**(24)**	ND<2.5	(5.1)	(8.3)
	6/4/2007	ND<250	**2,000, b, c**	**6,200, f**	ND< 25	**44 (41)**	3.7 (4.0)	10 (7.0)	13 (11)
MW6	2/17/2011	**880, e,b**	**2,300, e,b**	**3,600**	ND<5.0	**(260)**	ND<5.0	ND<5.0	ND<5.0
	6/4/2007	**880**	**2,700, b, c**	**7,100, f**	ND< 90	**580 (600)**	ND< 5.0	11	ND< 5.0
EW1	2/17/2011	**640, e,b**	**2,500, e,b**	**4,000**	ND<1.7	**(61)**	(2.0)	ND<1.7	(2.2)
	6/4/2007	ND<500	**1,200, b, c**	**6,400, f**	ND< 90	**160 (160)**	ND< 2.5	6.3	7.7
ESL		*100*	*100*	*100*	*5.0*	*1.0*	*40*	*30*	*20*

Abbreviations and Notes:

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-G = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl tertiary-butyl ether
ND = Not detected
a = Laboratory Note: lighter than water immiscible sheen/ product is present
b = Laboratory Note: diesel range compounds are significant; no recognizable pattern
c = Laboratory Note: gasoline range compounds are significant
d = Laboratory Note: oil range compounds are significant.
e = Laboratory Note: Stoddard solvent/mineral spirits.
f = Laboratory Note: no recognizable pattern.
g = Laboratory Note: heavier gasoline range compounds are significant (aged gasoline?)
MBTEX results were analyzed using EPA Method 8021B.
MBTEX compounds detected by EPA Method 8260B are in parentheses.
ESL = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water.
Values in bold indicate concentrations that exceed their respective ESL values.
Results in micrograms per liter (µg/L) unless otherwise specified.

Table 2. Summary of Groundwater Sample Laboratory Analytical Results (Continued)

Well Number	Sample Date	VOCs	ESL
MW1	2/17/2011	ND	
	6/4/2007	ND, except	
		Isopropylbenzene = 11,	None
		n-Propylbenzene = 14	None
MW2	2/17/2011	ND, except	
		n-Butylbenzene = 11,	None
		4-Isopropyltoluene = 18,	None
	6/4/2007	ND, except	
		Naphthalene = **260**,	17
		1,3,5-Trimethylbenzene = 36	None
MW3	2/17/2011	ND, except	
		n-Butylbenzene = 14,	None
		tert-Butylbenzene = 1.1,	None
		Isopropylbenzene = 22,	None
		sec-Butylbenzene = 8.0,	None
		4-Isopropyltoluene = 16,	None
		n-Propylbenzene = 16	None
	6/4/2007	ND, except	
		n-Butylbenzene = 16,	None
		Isopropylbenzene = 34,	None
		sec-Butylbenzene = 13,	None
		4-Isopropyltoluene = 19,	None
		Naphthalene = **21**,	17
		n-Propylbenzene = 30	None
MW4	2/17/2011	ND, except,	
		n-Butylbenzene = 1.0,	None
		tert-Butylbenzene = 0.74,	None
		Isopropylbenzene = 3.9,	None
		sec-Butylbenzene = 2.3,	None
		4-Isopropyl toluene = 1.3,	None
		n-Propylbenzene = 2.2	None
	6/4/2007	ND, except,	
		n-Butylbenzene = 8.7,	None
		tert-Butylbenzene = 1.0,	None
		Isopropylbenzene = 13,	None
		sec-Butylbenzene = 13,	None
		4-Isopropyl toluene = 5.7,	None
		n-Propylbenzene = 11	None

Table 2. Summary of Groundwater Sample Laboratory Analytical Results (Continued)

Well Number	Sample Date	VOCs	ESL
MW5	2/17/2011	ND, except	
		n-Butylbenzene = 13,	None
		Isopropylbenzene = 52,	None
		sec-Butylbenzene = 7.1,	None
		4-Isopropyl toluene = 2.9,	None
		n-Propylbenzene = 70	None
	6/4/2007	ND, except	
		n-Butylbenzene = 17,	None
		trans-1,2-Dichloroethene = 2.1,	10
		Isopropylbenzene = 72,	None
		Vinyl Chloride = **1.8**,	0.5
		sec-Butylbenzene = 11,	None
		Naphthalene = **39**,	17
		n-Propylbenzene = 100	None
MW6	2/17/2011	ND	
	6/4/2007	Isopropylbenzene = 27,	None
		Napthalene = **48**,	17
		n-Propylbenzene = 32	None
EW1	2/17/2011	ND, except	
		Trichloroethene = **6.4**,	5
		cis-1,2-dichloroethene = **25**,	6
		trans-1,2,-dichloroethene = **12**,	10
		tert-Butyl alcohol = **12**	12
	6/4/2007	ND, except	
		trans-1,2-Dichloroethene = 5.8,	10
		Isopropylbenzene = 21,	None
		4-Isopropyl toluene = 6.2,	None
		Naphthalene = 15,	17
		n-Propylbenzene = 13	None

Abbreviations and Notes:

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethane
DCA = Dichloroethane
ND = Not detected
VOC results were analyzed using EPA Method 8260B.

ESL = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water.

Values in bold indicate concentrations that exceed their respective ESL values.
Results in micrograms per liter (µg/L) unless otherwise specified.

FIGURES

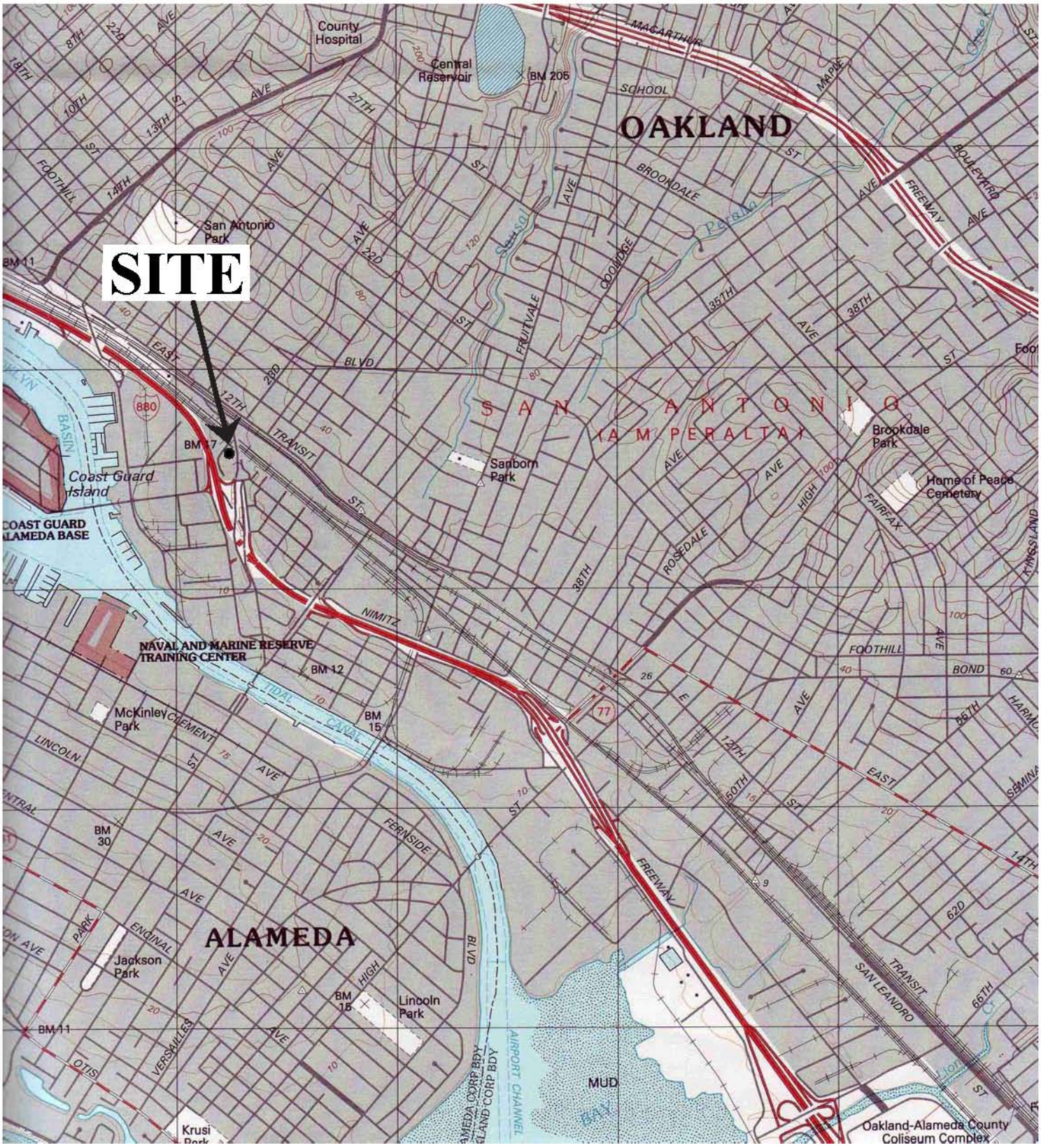


Figure 1
Site Location Map
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

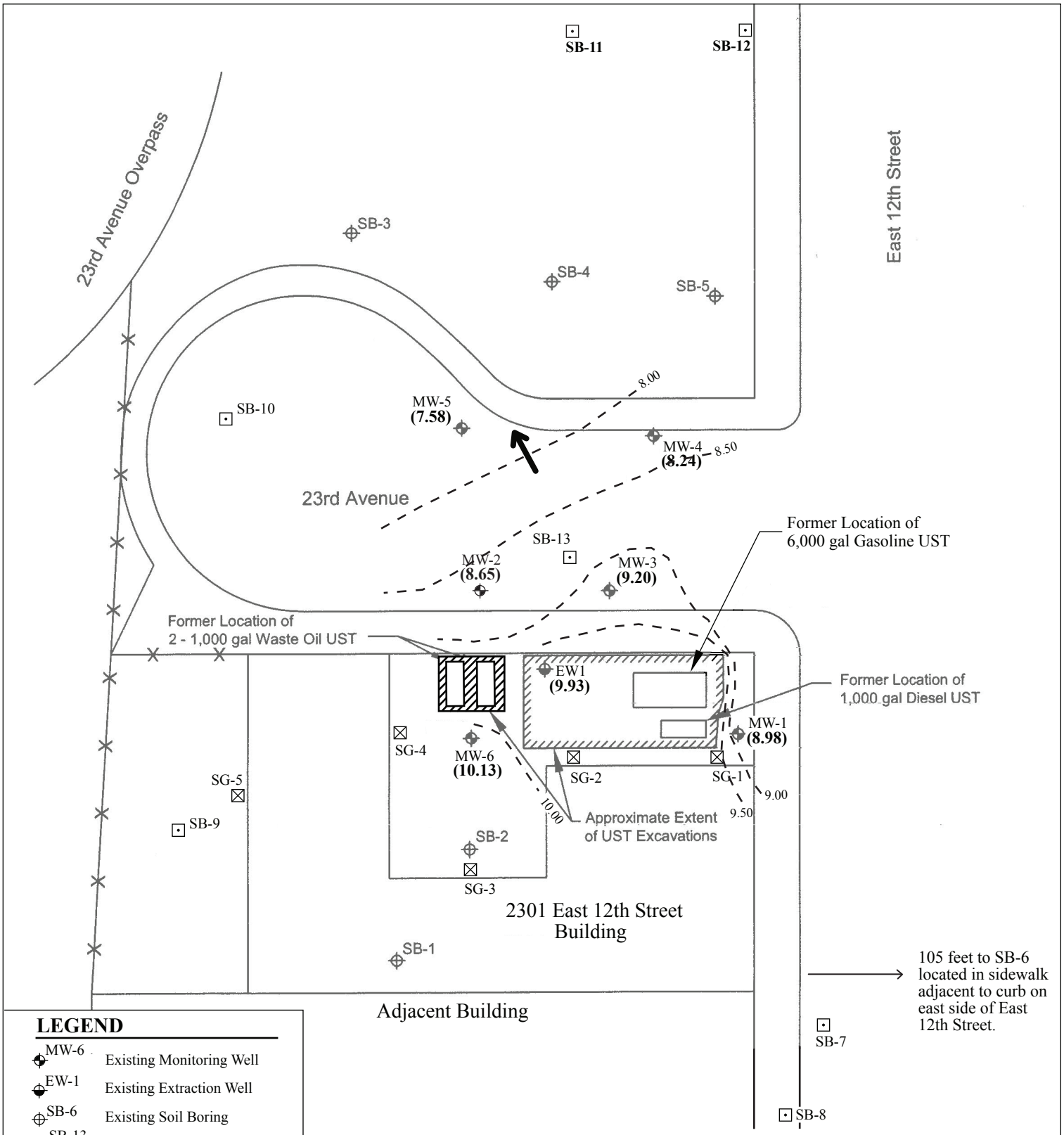
N

Base Map From:
U.S. Geological Survey
Oakland East, California
7.5 Minute Quadrangle
Map edited 1996

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000

APPROXIMATE SCALE IN FEET



LEGEND

MW-6	Existing Monitoring Well
EW-1	Existing Extraction Well
SB-6	Existing Soil Boring
SB-13	Proposed Soil Boring
SG-5	Proposed Soil Gas Sample Location
(10.13)	Groundwater Surface Elevation on 2/17/11 (Feet MSL)
- - -	Potentiometric Surface Contour
→	Groundwater Flow Direction

Figure 2
Site Vicinity Map Showing
Groundwater Surface Elevations
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

N

Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated November 10, 1999

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 15 30
APPROXIMATE SCALE IN FEET

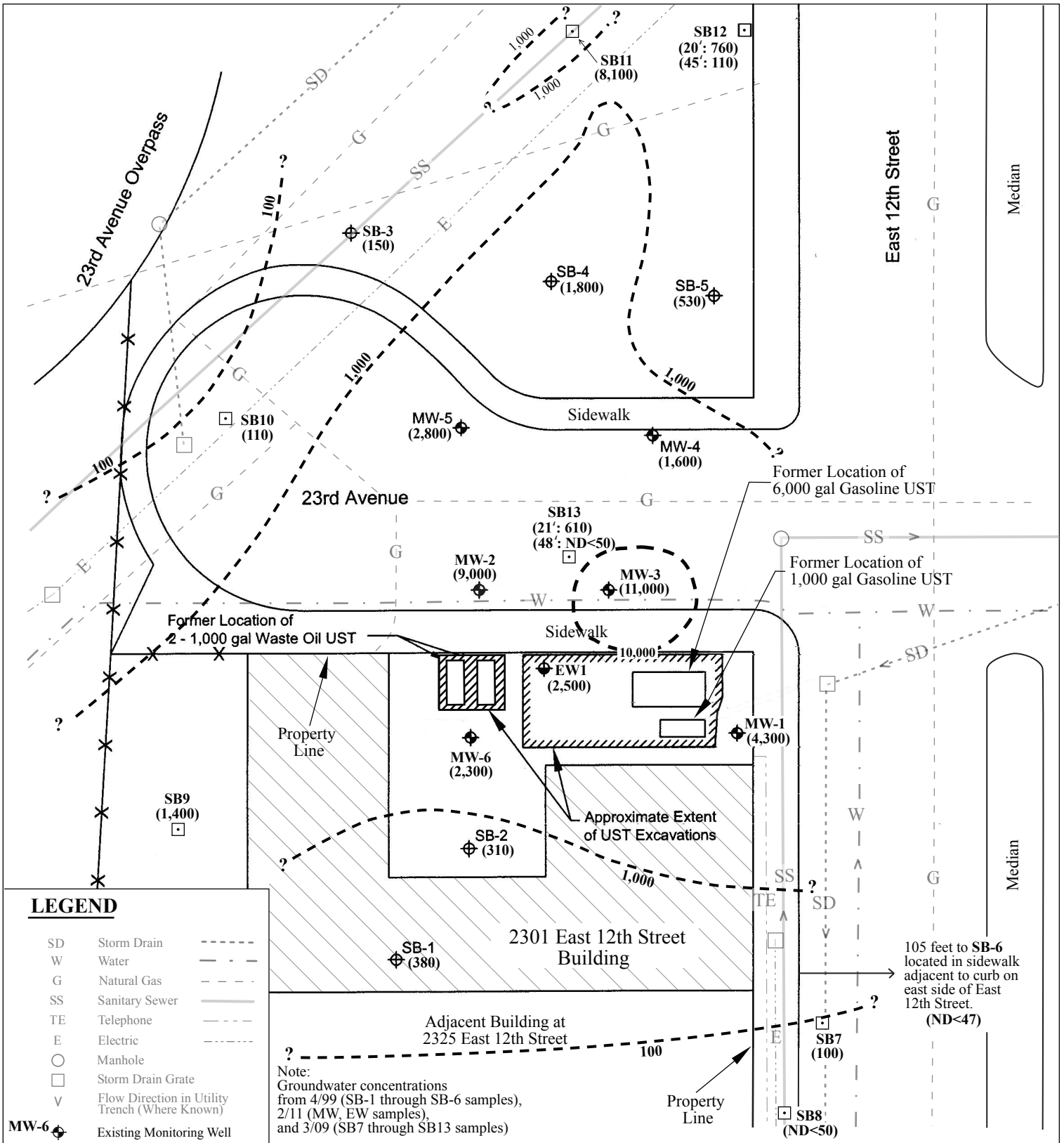


Figure 3
Site Vicinity Map Showing TPH-D in Groundwater
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 15 30
APPROXIMATE SCALE IN FEET

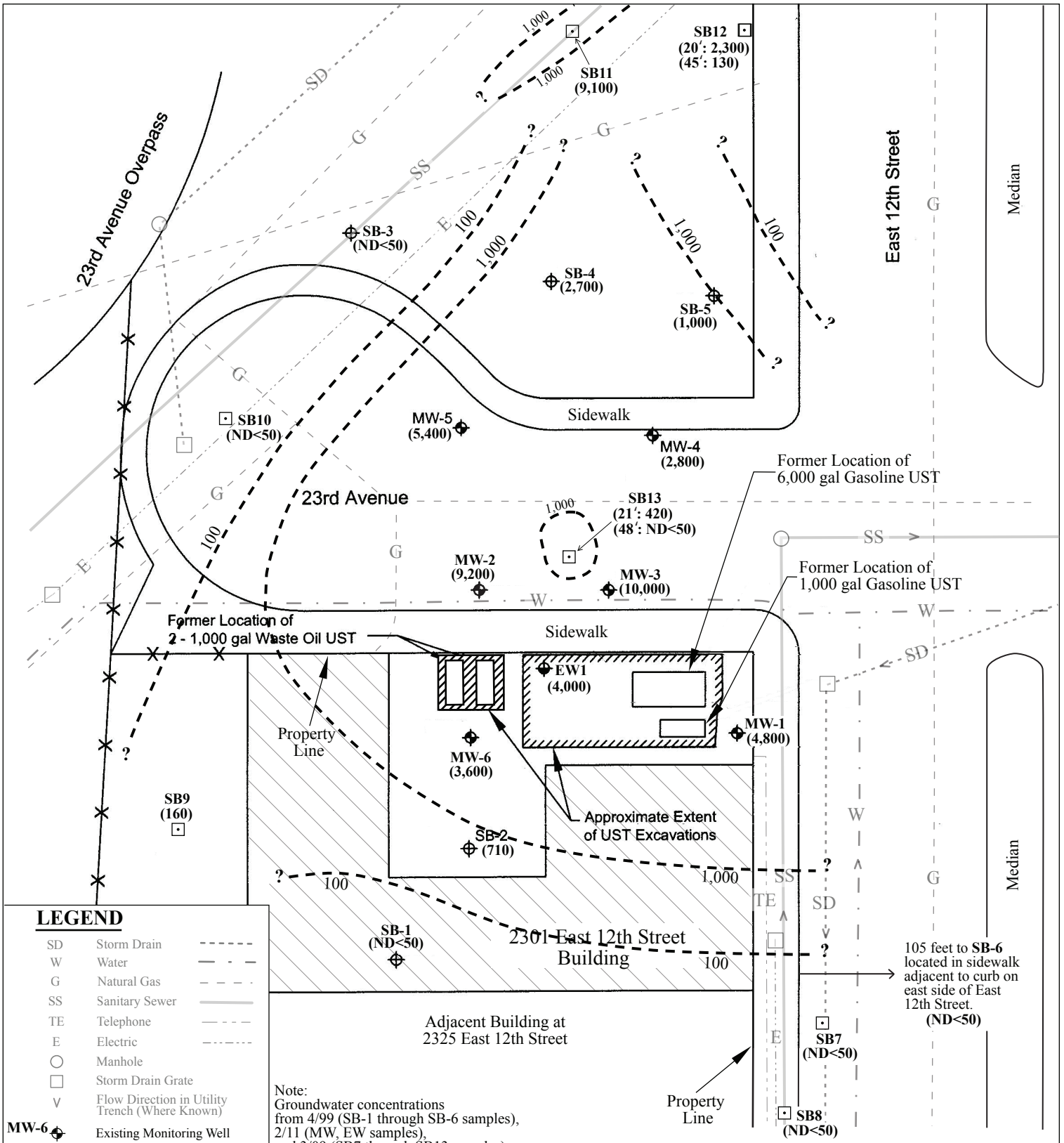


Figure 4
Site Vicinity Map Showing TPH-G in Groundwater
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 15 30
APPROXIMATE SCALE IN FEET

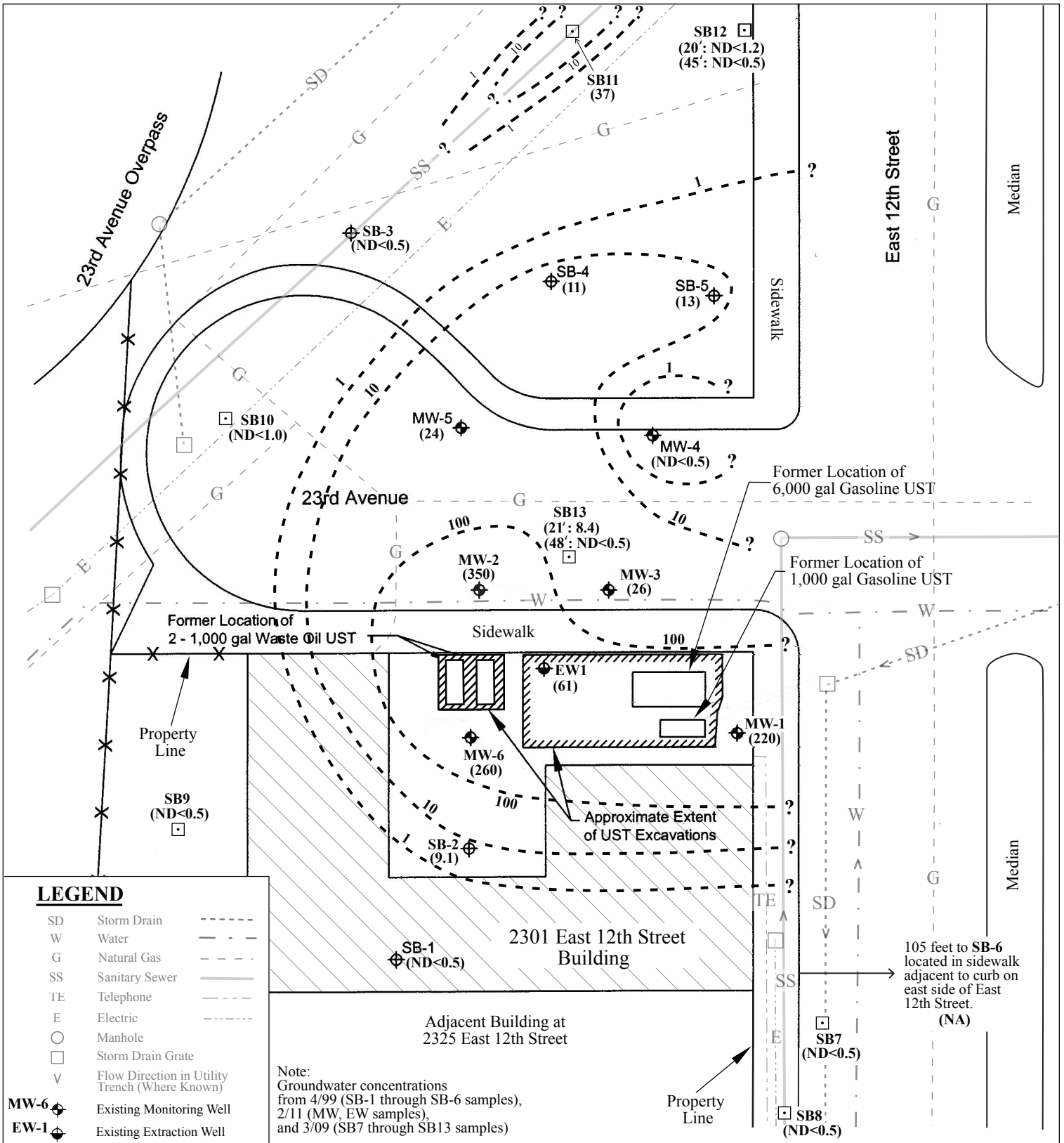


Figure 5
Site Vicinity Map Showing Benzene in Groundwater
Mel Senna Brake Service
2301 East 12th Street
Oakland, California

Base Map From:
Tetra Tech EM, Inc., Draft Summary Reports for Additional Site Characterization Work, dated 11/10/99

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 15 30
APPROXIMATE SCALE IN FEET

GROUNDWATER MONITORING/ WELL PURGING DATA SHEETS

(7)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Serna Brake Service, Oakland
Job No. 0404
TOC to Water (ft.) 7.23
Well Depth (ft.) 24.6 ± ic
Well Diameter 2" (0.16)
Gal./Casing Vol. 2.8
3 vol = 8.4

Well No. MW1
Date 2/17/11
Sheen Yes
Free Product Thickness Ø
Sample Collection Method
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1532	1.0	6.80	16.5	607
1534	1.9	6.79	17.5	603
1536	2.8	6.72	18.1	600
1538	3.8	6.74	18.3	608
1540	4.7	6.75	18.6	610
1541	5.6	6.73	18.8	618
1543	6.6	6.73	18.9	624
1545	7.5	6.72	19.0	629
1548	8.4	6.82	18.9	624

NOTES: Sheen + mild strong phenol.
Sample time = 1600

PURGE10.92

(6)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Sena Brake Service, Oakland Well No. MW 2
Job No. 0404 Date 2/17/11
TOC to Water (ft.) 5.78 Sheen yes
Well Depth (ft.) ~~sc 15.07~~ 15.1' Free Product Thickness Ø
Well Diameter 2" (0.16) Sample Collection Method
Gal./Casing Vol. 1.5 Disposable bailer
3 Vol = 4.5

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µS/cm
1654	0.5	7.06	15.2	578
1655	1.0	6.91	16.3	707
1657	1.5	6.86	16.9	762
1659	2.0	6.86	17.2	770
1701	2.5	6.81	17.1	770
1702	~~3.0~~	Well dewatered @ ~2.6gallons		
	3.5			
	4.0			
	4.5			

NOTES: Sheen / free product in water sample time ⇒ 1720
strong phc Odor

PURGE10.92

(5)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Sierra Brake Service Oakland Well No. MW3

Job No. 0404 Date 2/17/01

TOC to Water (ft.) 5.75 Sheen Yes

Well Depth (ft.) 15.8 Free Product Thickness Ø

Well Diameter 2"(0.16) Sample Collection Method

Gal./Casing Vol. 1.7 Disposable bailer

3rd = 5.1

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µS/cm
1621	0.5	6.52	15.5	1,770
1623	1.1	6.87	16.3	779
1625	1.7	6.78	16.5	772
1626	2.2	6.76	16.5	777
1628	2.8	6.74	16.7	775
1629	3.4	6.73	17.0	782
1631	3.9	6.71	17.5	796
1632	4.5	6.68	17.8	803
1634	5.1	6.64	18.2	821

NOTES: Sheen strong phenolic odor
sample time = 1645

PURGE10.92

(1)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former MelSenna Brake Service, Oakland Well No. MW4

Job No. 0404 Date 2/17/11

TOC to Water (ft.) 6.42 Sheen yes

Well Depth (ft.) 20.0' Free Product Thickness Ø

Well Diameter 2"(0.16) Sample Collection Method

Gal./Casing Vol. 2.2 Disposable bailer

3 vol = 6.6

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1447	0.7	7.07	16.2	326
1449	1.5	6.98	16.8	327
1451	2.2	6.91	17.3	329
1453	2.9	6.81	17.7	322
1454	3.7	6.79	17.7	335
1456	4.4	6.77	17.7	334
1457	5.1	6.79	17.7	345
1459	5.9	6.81	17.8	341
1501	6.6	6.84	~~17~~ sc 18.0	348

NOTES: Sheen + mod phc odor

Sample time ⇒ 1510 hrs

PURGE10.92

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Sears Brake Service, Oakland Well No. MW5

Job No. 0404 Date 2/17/11

TOC to Water (ft.) 7.09 Sheen yes

Well Depth (ft.) 19.5 Free Product Thickness Ø

Well Diameter 2" (0.16) Sample Collection Method

Gal./Casing Vol. 2.0 Disposable bailer

3 vol = 6.0

TIME	GAL. PURGED	pH	TEMPERATURE	ELECTRICAL CONDUCTIVITY
1137	0.6	6.67	16.7	403
1139	1.3	6.34	17.4	493
1141	2.0	6.84	17.2	512
1142	2.6	6.78	17.3	518
1143	3.3	6.72	17.5	521
1145	4.0	6.70	17.5	512
1147	4.6	6.68	17.5	507
1149	5.3	6.65	17.7	512
1151	6.0	6.65	17.7	512

NOTES: Sheen & mod-strong phc odor.

Raining sample time = 1210

PURGE10.92

(4)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Serra Brake Service, Oakland Well No. MW6

Job No. 0404 Date 2/17/11

TOC to Water (ft.) 5.15 Sheen Yes

Well Depth (ft.) 19.8' Free Product Thickness Ø

Well Diameter 2" (0.16) Sample Collection Method

Gal./Casing Vol. 2.4 Disposable bailer

3 Vol = 7.2

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1412	0.8	7.03	14.7	525
1414	1.6	6.67	16.0	852
1416	2.4	6.55	16.4	929
1417	3.2	6.53	16.8	942
1418	4.0	6.51	17.2	957
1421	4.8	6.53	17.2	952
1423	5.6	6.54	17.4	945
1425	6.4	6.51	17.5	95(
1427	7.2	6.48	17.7	960

NOTES: Sheen + Mod - strong hc odor
sample time = 1440

PURGE10.92

(3)

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Former Mel Senna Brake Senna, Oakland
Well No. EW1
Job No. 0404
Date 2/17/11
TOC to Water (ft.) 5.43
Sheen Yes
Well Depth (ft.) 29.9'
Free Product Thickness Ø
Well Diameter 4" ~~0.3~~ sic (0.646)
Sample Collection Method
Gal./Casing Vol. 15.9
3 Vol = 47.7
Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY µs/cm
1251	5.3	6.52	16.5	1055
1256	10.6	6.55	17.9	1037
1303	15.9	6.50	18.4	1033
1309	21.2	6.50	18.5	1,028
1315	26.5	6.51	18.6	1,023
1324	31.8	6.51	18.6	1037
1333	37.1	6.52	18.7	1,043
1340	42.4	6.52	19.1	1,048
1347	47.7	6.54	19.0	1,047

NOTES: Sheen & strong phc odor
sample time => 1355

PURGE10.92

DRUM DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number
		09880

GENERATOR

4. Generator's Name and Mailing Address

JW Silveira Co
499 Embarcadero #1-13
Oakland, CA 94606

Generator's Phone

Site:
2301 East 12th St
Oakland, Ca

5. Transporter Company Name	6. US EPA ID Number	7. Transporter Phone
CLEARWATER ENVIRONMENTAL	CAR000007013	(510) 476-1740

8. Designated Facility Name and Site Address	9. US EPA ID Number	10. Facility's Phone
Alviso Independent Oil 5002 Archer Street Alviso, CA 95002	CAL 000 161 743	510-476-1740

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste – Liquid	002	dm	75	G
b.				

15. Special Handling Instructions and Additional Information

Wear PPE
Emergency Contact
(510) 476-1740
Attn: Charles Seaton

Handling Codes for Wastes Listed Above	
11a.	11b.

TRANSPORTER

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Signed on behalf of Generator	Will Clark	02	22	11

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William Clark	Will Clark	02	22	11

FACILITY

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name	Signature	Month	Day	Year
Charles Seaton		02	23	11

WHITE–ORIGINAL (Return to Generator) YELLOW–TSDF (Retain Copy) PINK–TRANSPORTER COPY GOLDENROD-GENERATOR'S COPY

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

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

P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Reported: 02/28/11
Oakland, CA 94610	Client P.O.:	Date Completed: 02/28/11

WorkOrder: 1102631

February 28, 2011

Dear Paul:

Enclosed within are:

1) The results of the **7** analyzed samples from your project: **#0404; Former Mel Senna Brake Service,**
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

P & D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

1102631

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NUMBER:	PROJECT NAME:
0404	Former Mel Senna Brake Service Oakland, CA

SAMPLED BY: (PRINTED AND SIGNATURE)
Steve Carmack

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH/MtBE (GC/MS)	8260B Full List	PRESERVATIVE	REMARKS
MW1	2/17/11	1600	H2O		7	X	X	ICE	Normal Turnaround
MW2		1720			7	X	X		
MW3		1645			7	X	X		
MW4		1510			7	X	X		
MW5		1210			7	X	X		
MW6		1440			7	X	X		
EW1		1355			7	X	X		

	DATE	TIME		
RELINQUISHED BY: (SIGNATURE)	2/18/11	1645	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF SAMPLES (THIS SHIPMENT): 7 TOTAL NO. OF CONTAINERS (THIS SHIPMENT): 49 LABORATORY: McCampbell Analytical
RELINQUISHED BY: (SIGNATURE)	2/18/11	1745	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius LABORATORY PHONE NUMBER: (877) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( )YES (X)NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

ICE TEMP: 4.0
GOOD CONDITION ___ APPROPRIATE CONTAINERS ___
HEAD SPACE ABSENT ___ PRESERVED IN LAB ___
DECHLORINATED IN LAB ___

PRESERVATION	VOAS	O&G	METALS	OTHER

REMARKS:
All bottles preserved w/ HCL.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1102631 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: #0404; Former Mel Senna Brake Service

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 5 days

Date Received: **02/18/2011**
Date Printed: **02/18/2011**

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
1102631-001	MW1	Water	2/17/2011 16:00	☐	B	A										
1102631-002	MW2	Water	2/17/2011 17:20	☐	B	A										
1102631-003	MW3	Water	2/17/2011 16:45	☐	B	A										
1102631-004	MW4	Water	2/17/2011 15:10	☐	B	A										
1102631-005	MW5	Water	2/17/2011 12:10	☐	B	A										
1102631-006	MW6	Water	2/17/2011 14:40	☐	B	A										
1102631-007	EW1	Water	2/17/2011 13:55	☐	B	A										

Test Legend:

1	8260B_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A 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.

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

Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **2/18/2011 7:08:08 PM**

Project Name: **#0404; Former Mel Senna Brake Service**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1102631** Matrix Water
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: 4.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
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:

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

P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-001B
Client ID	MW1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	220	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	6.7	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	5.3	10	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	102
%SS3:	104		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-002B
Client ID	MW2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<200	20	10	tert-Amyl methyl ether (TAME)	ND<10	20	0.5
Benzene	350	20	0.5	Bromobenzene	ND<10	20	0.5
Bromochloromethane	ND<10	20	0.5	Bromodichloromethane	ND<10	20	0.5
Bromoform	ND<10	20	0.5	Bromomethane	ND<10	20	0.5
2-Butanone (MEK)	ND<40	20	2.0	t-Butyl alcohol (TBA)	ND<40	20	2.0
n-Butyl benzene	11	20	0.5	sec-Butyl benzene	ND<10	20	0.5
tert-Butyl benzene	ND<10	20	0.5	Carbon Disulfide	ND<10	20	0.5
Carbon Tetrachloride	ND<10	20	0.5	Chlorobenzene	ND<10	20	0.5
Chloroethane	ND<10	20	0.5	Chloroform	ND<10	20	0.5
Chloromethane	ND<10	20	0.5	2-Chlorotoluene	ND<10	20	0.5
4-Chlorotoluene	ND<10	20	0.5	Dibromochloromethane	ND<10	20	0.5
1,2-Dibromo-3-chloropropane	ND<4.0	20	0.2	1,2-Dibromoethane (EDB)	ND<10	20	0.5
Dibromomethane	ND<10	20	0.5	1,2-Dichlorobenzene	ND<10	20	0.5
1,3-Dichlorobenzene	ND<10	20	0.5	1,4-Dichlorobenzene	ND<10	20	0.5
Dichlorodifluoromethane	ND<10	20	0.5	1,1-Dichloroethane	ND<10	20	0.5
1,2-Dichloroethane (1,2-DCA)	ND<10	20	0.5	1,1-Dichloroethene	ND<10	20	0.5
cis-1,2-Dichloroethene	ND<10	20	0.5	trans-1,2-Dichloroethene	ND<10	20	0.5
1,2-Dichloropropane	ND<10	20	0.5	1,3-Dichloropropane	ND<10	20	0.5
2,2-Dichloropropane	ND<10	20	0.5	1,1-Dichloropropene	ND<10	20	0.5
cis-1,3-Dichloropropene	ND<10	20	0.5	trans-1,3-Dichloropropene	ND<10	20	0.5
Diisopropyl ether (DIPE)	ND<10	20	0.5	Ethylbenzene	ND<10	20	0.5
Ethyl tert-butyl ether (ETBE)	ND<10	20	0.5	Freon 113	ND<200	20	10
Hexachlorobutadiene	ND<10	20	0.5	Hexachloroethane	ND<10	20	0.5
2-Hexanone	ND<10	20	0.5	Isopropylbenzene	ND<10	20	0.5
4-Isopropyl toluene	18	20	0.5	Methyl-t-butyl ether (MTBE)	ND<10	20	0.5
Methylene chloride	ND<10	20	0.5	4-Methyl-2-pentanone (MIBK)	ND<10	20	0.5
Naphthalene	ND<10	20	0.5	n-Propyl benzene	ND<10	20	0.5
Styrene	ND<10	20	0.5	1,1,1,2-Tetrachloroethane	ND<10	20	0.5
1,1,2,2-Tetrachloroethane	ND<10	20	0.5	Tetrachloroethene	ND<10	20	0.5
Toluene	33	20	0.5	1,2,3-Trichlorobenzene	ND<10	20	0.5
1,2,4-Trichlorobenzene	ND<10	20	0.5	1,1,1-Trichloroethane	ND<10	20	0.5
1,1,2-Trichloroethane	ND<10	20	0.5	Trichloroethene	ND<10	20	0.5
Trichlorofluoromethane	ND<10	20	0.5	1,2,3-Trichloropropane	ND<10	20	0.5
1,2,4-Trimethylbenzene	ND<10	20	0.5	1,3,5-Trimethylbenzene	ND<10	20	0.5
Vinyl Chloride	ND<10	20	0.5	Xylenes	24	20	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	102
%SS3:	104		

Comments: b6

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-003B
Client ID	MW3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<20	2.0	10	tert-Amyl methyl ether (TAME)	ND<1.0	2.0	0.5
Benzene	26	2.0	0.5	Bromobenzene	ND<1.0	2.0	0.5
Bromochloromethane	ND<1.0	2.0	0.5	Bromodichloromethane	ND<1.0	2.0	0.5
Bromoform	ND<1.0	2.0	0.5	Bromomethane	ND<1.0	2.0	0.5
2-Butanone (MEK)	ND<4.0	2.0	2.0	t-Butyl alcohol (TBA)	ND<4.0	2.0	2.0
n-Butyl benzene	14	2.0	0.5	sec-Butyl benzene	8.0	2.0	0.5
tert-Butyl benzene	1.1	2.0	0.5	Carbon Disulfide	ND<1.0	2.0	0.5
Carbon Tetrachloride	ND<1.0	2.0	0.5	Chlorobenzene	ND<1.0	2.0	0.5
Chloroethane	ND<1.0	2.0	0.5	Chloroform	ND<1.0	2.0	0.5
Chloromethane	ND<1.0	2.0	0.5	2-Chlorotoluene	ND<1.0	2.0	0.5
4-Chlorotoluene	ND<1.0	2.0	0.5	Dibromochloromethane	ND<1.0	2.0	0.5
1,2-Dibromo-3-chloropropane	ND<0.40	2.0	0.2	1,2-Dibromoethane (EDB)	ND<1.0	2.0	0.5
Dibromomethane	ND<1.0	2.0	0.5	1,2-Dichlorobenzene	ND<1.0	2.0	0.5
1,3-Dichlorobenzene	ND<1.0	2.0	0.5	1,4-Dichlorobenzene	ND<1.0	2.0	0.5
Dichlorodifluoromethane	ND<1.0	2.0	0.5	1,1-Dichloroethane	ND<1.0	2.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.0	2.0	0.5	1,1-Dichloroethene	ND<1.0	2.0	0.5
cis-1,2-Dichloroethene	ND<1.0	2.0	0.5	trans-1,2-Dichloroethene	ND<1.0	2.0	0.5
1,2-Dichloropropane	ND<1.0	2.0	0.5	1,3-Dichloropropane	ND<1.0	2.0	0.5
2,2-Dichloropropane	ND<1.0	2.0	0.5	1,1-Dichloropropene	ND<1.0	2.0	0.5
cis-1,3-Dichloropropene	ND<1.0	2.0	0.5	trans-1,3-Dichloropropene	ND<1.0	2.0	0.5
Diisopropyl ether (DIPE)	ND<1.0	2.0	0.5	Ethylbenzene	ND<1.0	2.0	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.0	2.0	0.5	Freon 113	ND<20	2.0	10
Hexachlorobutadiene	ND<1.0	2.0	0.5	Hexachloroethane	ND<1.0	2.0	0.5
2-Hexanone	ND<1.0	2.0	0.5	Isopropylbenzene	22	2.0	0.5
4-Isopropyl toluene	16	2.0	0.5	Methyl-t-butyl ether (MTBE)	ND<1.0	2.0	0.5
Methylene chloride	ND<1.0	2.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.0	2.0	0.5
Naphthalene	ND<1.0	2.0	0.5	n-Propyl benzene	16	2.0	0.5
Styrene	ND<1.0	2.0	0.5	1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	2.0	0.5	Tetrachloroethene	ND<1.0	2.0	0.5
Toluene	3.7	2.0	0.5	1,2,3-Trichlorobenzene	ND<1.0	2.0	0.5
1,2,4-Trichlorobenzene	ND<1.0	2.0	0.5	1,1,1-Trichloroethane	ND<1.0	2.0	0.5
1,1,2-Trichloroethane	ND<1.0	2.0	0.5	Trichloroethene	ND<1.0	2.0	0.5
Trichlorofluoromethane	ND<1.0	2.0	0.5	1,2,3-Trichloropropane	ND<1.0	2.0	0.5
1,2,4-Trimethylbenzene	ND<1.0	2.0	0.5	1,3,5-Trimethylbenzene	ND<1.0	2.0	0.5
Vinyl Chloride	ND<1.0	2.0	0.5	Xylenes	ND<1.0	2.0	0.5

Surrogate Recoveries (%)

%SS1:	92	%SS2:	104
%SS3:	111		

Comments: b6

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-004B
Client ID	MW4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	1.0	1.0	0.5	sec-Butyl benzene	2.3	1.0	0.5
tert-Butyl benzene	0.74	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	3.9	1.0	0.5
4-Isopropyl toluene	1.3	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	2.2	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	101
%SS3:	98		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-005B
Client ID	MW5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<50	5.0	10	tert-Amyl methyl ether (TAME)	ND<2.5	5.0	0.5
Benzene	24	5.0	0.5	Bromobenzene	ND<2.5	5.0	0.5
Bromochloromethane	ND<2.5	5.0	0.5	Bromodichloromethane	ND<2.5	5.0	0.5
Bromoform	ND<2.5	5.0	0.5	Bromomethane	ND<2.5	5.0	0.5
2-Butanone (MEK)	ND<10	5.0	2.0	t-Butyl alcohol (TBA)	ND<10	5.0	2.0
n-Butyl benzene	13	5.0	0.5	sec-Butyl benzene	7.1	5.0	0.5
tert-Butyl benzene	ND<2.5	5.0	0.5	Carbon Disulfide	ND<2.5	5.0	0.5
Carbon Tetrachloride	ND<2.5	5.0	0.5	Chlorobenzene	ND<2.5	5.0	0.5
Chloroethane	ND<2.5	5.0	0.5	Chloroform	ND<2.5	5.0	0.5
Chloromethane	ND<2.5	5.0	0.5	2-Chlorotoluene	ND<2.5	5.0	0.5
4-Chlorotoluene	ND<2.5	5.0	0.5	Dibromochloromethane	ND<2.5	5.0	0.5
1,2-Dibromo-3-chloropropane	ND<1.0	5.0	0.2	1,2-Dibromoethane (EDB)	ND<2.5	5.0	0.5
Dibromomethane	ND<2.5	5.0	0.5	1,2-Dichlorobenzene	ND<2.5	5.0	0.5
1,3-Dichlorobenzene	ND<2.5	5.0	0.5	1,4-Dichlorobenzene	ND<2.5	5.0	0.5
Dichlorodifluoromethane	ND<2.5	5.0	0.5	1,1-Dichloroethane	ND<2.5	5.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	5.0	0.5	1,1-Dichloroethene	ND<2.5	5.0	0.5
cis-1,2-Dichloroethene	ND<2.5	5.0	0.5	trans-1,2-Dichloroethene	ND<2.5	5.0	0.5
1,2-Dichloropropane	ND<2.5	5.0	0.5	1,3-Dichloropropane	ND<2.5	5.0	0.5
2,2-Dichloropropane	ND<2.5	5.0	0.5	1,1-Dichloropropene	ND<2.5	5.0	0.5
cis-1,3-Dichloropropene	ND<2.5	5.0	0.5	trans-1,3-Dichloropropene	ND<2.5	5.0	0.5
Diisopropyl ether (DIPE)	ND<2.5	5.0	0.5	Ethylbenzene	5.1	5.0	0.5
Ethyl tert-butyl ether (ETBE)	ND<2.5	5.0	0.5	Freon 113	ND<50	5.0	10
Hexachlorobutadiene	ND<2.5	5.0	0.5	Hexachloroethane	ND<2.5	5.0	0.5
2-Hexanone	ND<2.5	5.0	0.5	Isopropylbenzene	52	5.0	0.5
4-Isopropyl toluene	2.9	5.0	0.5	Methyl-t-butyl ether (MTBE)	ND<2.5	5.0	0.5
Methylene chloride	ND<2.5	5.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<2.5	5.0	0.5
Naphthalene	ND<2.5	5.0	0.5	n-Propyl benzene	70	5.0	0.5
Styrene	ND<2.5	5.0	0.5	1,1,1,2-Tetrachloroethane	ND<2.5	5.0	0.5
1,1,2,2-Tetrachloroethane	ND<2.5	5.0	0.5	Tetrachloroethene	ND<2.5	5.0	0.5
Toluene	ND<2.5	5.0	0.5	1,2,3-Trichlorobenzene	ND<2.5	5.0	0.5
1,2,4-Trichlorobenzene	ND<2.5	5.0	0.5	1,1,1-Trichloroethane	ND<2.5	5.0	0.5
1,1,2-Trichloroethane	ND<2.5	5.0	0.5	Trichloroethene	ND<2.5	5.0	0.5
Trichlorofluoromethane	ND<2.5	5.0	0.5	1,2,3-Trichloropropane	ND<2.5	5.0	0.5
1,2,4-Trimethylbenzene	ND<2.5	5.0	0.5	1,3,5-Trimethylbenzene	ND<2.5	5.0	0.5
Vinyl Chloride	ND<2.5	5.0	0.5	Xylenes	8.3	5.0	0.5

Surrogate Recoveries (%)

%SS1:	94	%SS2:	101
%SS3:	97		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/25/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/25/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-006B
Client ID	MW6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	260	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	99
%SS3:	83		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1102631

Lab ID	1102631-007B
Client ID	EW1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<33	3.3	10	tert-Amyl methyl ether (TAME)	ND<1.7	3.3	0.5
Benzene	61	3.3	0.5	Bromobenzene	ND<1.7	3.3	0.5
Bromochloromethane	ND<1.7	3.3	0.5	Bromodichloromethane	ND<1.7	3.3	0.5
Bromoform	ND<1.7	3.3	0.5	Bromomethane	ND<1.7	3.3	0.5
2-Butanone (MEK)	ND<6.7	3.3	2.0	t-Butyl alcohol (TBA)	12	3.3	2.0
n-Butyl benzene	ND<1.7	3.3	0.5	sec-Butyl benzene	ND<1.7	3.3	0.5
tert-Butyl benzene	ND<1.7	3.3	0.5	Carbon Disulfide	ND<1.7	3.3	0.5
Carbon Tetrachloride	ND<1.7	3.3	0.5	Chlorobenzene	ND<1.7	3.3	0.5
Chloroethane	ND<1.7	3.3	0.5	Chloroform	ND<1.7	3.3	0.5
Chloromethane	ND<1.7	3.3	0.5	2-Chlorotoluene	ND<1.7	3.3	0.5
4-Chlorotoluene	ND<1.7	3.3	0.5	Dibromochloromethane	ND<1.7	3.3	0.5
1,2-Dibromo-3-chloropropane	ND<0.67	3.3	0.2	1,2-Dibromoethane (EDB)	ND<1.7	3.3	0.5
Dibromomethane	ND<1.7	3.3	0.5	1,2-Dichlorobenzene	ND<1.7	3.3	0.5
1,3-Dichlorobenzene	ND<1.7	3.3	0.5	1,4-Dichlorobenzene	ND<1.7	3.3	0.5
Dichlorodifluoromethane	ND<1.7	3.3	0.5	1,1-Dichloroethane	ND<1.7	3.3	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.7	3.3	0.5	1,1-Dichloroethene	ND<1.7	3.3	0.5
cis-1,2-Dichloroethene	25	3.3	0.5	trans-1,2-Dichloroethene	12	3.3	0.5
1,2-Dichloropropane	ND<1.7	3.3	0.5	1,3-Dichloropropane	ND<1.7	3.3	0.5
2,2-Dichloropropane	ND<1.7	3.3	0.5	1,1-Dichloropropene	ND<1.7	3.3	0.5
cis-1,3-Dichloropropene	ND<1.7	3.3	0.5	trans-1,3-Dichloropropene	ND<1.7	3.3	0.5
Diisopropyl ether (DIPE)	ND<1.7	3.3	0.5	Ethylbenzene	ND<1.7	3.3	0.5
Ethyl tert-butyl ether (ETBE)	ND<1.7	3.3	0.5	Freon 113	ND<33	3.3	10
Hexachlorobutadiene	ND<1.7	3.3	0.5	Hexachloroethane	ND<1.7	3.3	0.5
2-Hexanone	ND<1.7	3.3	0.5	Isopropylbenzene	ND<1.7	3.3	0.5
4-Isopropyl toluene	ND<1.7	3.3	0.5	Methyl-t-butyl ether (MTBE)	ND<1.7	3.3	0.5
Methylene chloride	ND<1.7	3.3	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.7	3.3	0.5
Naphthalene	ND<1.7	3.3	0.5	n-Propyl benzene	ND<1.7	3.3	0.5
Styrene	ND<1.7	3.3	0.5	1,1,1,2-Tetrachloroethane	ND<1.7	3.3	0.5
1,1,2,2-Tetrachloroethane	ND<1.7	3.3	0.5	Tetrachloroethene	ND<1.7	3.3	0.5
Toluene	2.0	3.3	0.5	1,2,3-Trichlorobenzene	ND<1.7	3.3	0.5
1,2,4-Trichlorobenzene	ND<1.7	3.3	0.5	1,1,1-Trichloroethane	ND<1.7	3.3	0.5
1,1,2-Trichloroethane	ND<1.7	3.3	0.5	Trichloroethene	6.4	3.3	0.5
Trichlorofluoromethane	ND<1.7	3.3	0.5	1,2,3-Trichloropropane	ND<1.7	3.3	0.5
1,2,4-Trimethylbenzene	ND<1.7	3.3	0.5	1,3,5-Trimethylbenzene	ND<1.7	3.3	0.5
Vinyl Chloride	ND<1.7	3.3	0.5	Xylenes	2.2	3.3	0.5

Surrogate Recoveries (%)

%SS1:	92	%SS2:	100
%SS3:	92		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b6) lighter than water immiscible sheen/product is present

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/24/11-02/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed 02/24/11-02/26/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1102631

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	MW1	W	4800	2	118	d1
002A	MW2	W	9200	10	93	d1,b6
003A	MW3	W	10,000	20	113	d1,b6
004A	MW4	W	2800	2	101	d2,d9
005A	MW5	W	5400	5	117	d1
006A	MW6	W	3600	5	104	d1
007A	EW1	W	4000	2.5	115	d1

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

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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P & D Environmental	Client Project ID: #0404; Former Mel Senna Brake Service	Date Sampled: 02/17/11
		Date Received: 02/18/11
55 Santa Clara, Ste.240	Client Contact: Paul King	Date Extracted: 02/18/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 02/20/11

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1102631

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1102631-001A	MW1	W	4300	620	1	101	e11,e7
1102631-002A	MW2	W	9000	2500	1	104	e11,e2,e7,b6
1102631-003A	MW3	W	11,000	1700	1	109	e11,e2,b6
1102631-004A	MW4	W	1600	ND	1	106	e11
1102631-005A	MW5	W	2800	450	1	98	e4/e11,e2
1102631-006A	MW6	W	2300	880	1	97	e11/e4,e2
1102631-007A	EW1	W	2500	640	1	96	e11/e4,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* 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.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e4) gasoline range compounds are significant.; and/or e11) stoddard solvent/mineral spirit (?)
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?); and/or e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56403 WorkOrder 1102631

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1102630-002B**

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
tert-Amyl methyl ether (TAME)	ND	10	83.8	86.2	2.74	82	85	3.66	70 - 130	30	70 - 130	30
Benzene	ND	10	106	107	0.448	97.9	102	4.05	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	79.4	89.3	11.8	77.4	76.4	1.31	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	112	111	0.758	98.8	103	4.57	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	113	115	1.91	92.2	95.4	3.43	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	84.4	85.6	1.39	97.9	100	2.15	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	117	116	0.150	119	126	5.37	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	90.8	92.8	2.23	106	110	3.52	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	87.7	89.8	2.33	98.4	101	2.20	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	5.7	10	81.6	87.2	3.95	107	110	3.03	70 - 130	30	70 - 130	30
Toluene	ND	10	108	106	1.54	93.9	99.2	5.48	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	115	114	0.795	103	109	5.79	70 - 130	30	70 - 130	30
%SS1:	94	25	86	87	1.42	89	88	0.570	70 - 130	30	70 - 130	30
%SS2:	99	25	103	102	0.486	100	102	1.53	70 - 130	30	70 - 130	30
%SS3:	86	2.5	94	93	0.855	76	73	3.99	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 56403 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102631-001B	02/17/11 4:00 PM	02/26/11	02/26/11 3:47 AM	1102631-002B	02/17/11 5:20 PM	02/26/11	02/26/11 4:26 AM
1102631-003B	02/17/11 4:45 PM	02/26/11	02/26/11 5:14 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.

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.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56421 WorkOrder 1102631

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1102662-001A**

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
tert-Amyl methyl ether (TAME)	ND	10	77.7	81.7	4.94	77.8	82.3	5.73	70 - 130	30	70 - 130	30
Benzene	ND	10	98.1	99.9	1.81	96.5	102	5.59	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	73.6	73	0.828	71.5	72.5	1.44	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	102	102	0	103	108	4.55	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	90.6	90.5	0.133	102	107	4.51	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	96.8	99.3	2.57	77.5	82.4	6.04	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	119	125	5.29	105	112	6.74	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	103	105	1.66	85	90.8	6.63	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	96.7	98.2	1.53	82.2	86.9	5.52	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	106	1.70	90.5	96.2	6.20	70 - 130	30	70 - 130	30
Toluene	ND	10	99	101	2.31	97.3	102	4.91	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	103	105	1.86	104	110	5.86	70 - 130	30	70 - 130	30
%SS1:	92	25	89	92	3.69	85	85	0	70 - 130	30	70 - 130	30
%SS2:	102	25	96	97	0.989	103	103	0	70 - 130	30	70 - 130	30
%SS3:	83	2.5	76	75	1.57	89	89	0	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 56421 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102631-004B	02/17/11 3:10 PM	02/26/11	02/26/11 5:56 PM	1102631-005B	02/17/11 12:10 PM	02/26/11	02/26/11 4:33 PM
1102631-006B	02/17/11 2:40 PM	02/25/11	02/25/11 11:58 PM	1102631-007B	02/17/11 1:55 PM	02/26/11	02/26/11 10:11 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.

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.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644 QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56396 WorkOrder 1102631

EPA Method SW8015Bm **Extraction SW5030B** **Spiked Sample ID: 1101733-013C**

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	97.8	100	2.51	97.7	97	0.700	70 - 130	20	70 - 130	20
MTBE	ND	10	113	119	5.45	117	112	4.14	70 - 130	20	70 - 130	20
Benzene	ND	10	113	116	2.49	115	113	1.31	70 - 130	20	70 - 130	20
Toluene	ND	10	101	103	2.16	102	98.9	3.17	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	101	103	1.85	102	99.9	2.27	70 - 130	20	70 - 130	20
Xylenes	ND	30	114	117	2.05	116	113	2.20	70 - 130	20	70 - 130	20
%SS:	95	10	101	99	2.19	100	100	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 56396 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102631-001A	02/17/11 4:00 PM	02/25/11	02/25/11 8:28 PM	1102631-002A	02/17/11 5:20 PM	02/25/11	02/25/11 4:29 PM
1102631-003A	02/17/11 4:45 PM	02/25/11	02/25/11 4:59 PM	1102631-004A	02/17/11 3:10 PM	02/25/11	02/25/11 5:20 AM
1102631-005A	02/17/11 12:10 PM	02/25/11	02/25/11 5:52 AM	1102631-006A	02/17/11 2:40 PM	02/26/11	02/26/11 1:13 AM
1102631-007A	02/17/11 1:55 PM	02/24/11	02/24/11 8:15 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.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56362 WorkOrder 1102631

EPA Method SW8015B **Extraction SW3510C** **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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	116	120	4.14	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	94	97	3.38	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 56362 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102631-001A	02/17/11 4:00 PM	02/18/11	02/20/11 7:17 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.

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.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56420 WorkOrder 1102631

EPA Method SW8015B **Extraction SW3510C** **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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	118	115	2.48	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	106	104	2.07	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 56420 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102631-002A	02/17/11 5:20 PM	02/18/11	02/20/11 6:06 PM	1102631-003A	02/17/11 4:45 PM	02/18/11	02/20/11 4:54 PM
1102631-004A	02/17/11 3:10 PM	02/18/11	02/20/11 3:42 PM	1102631-005A	02/17/11 12:10 PM	02/18/11	02/20/11 2:30 PM
1102631-006A	02/17/11 2:40 PM	02/18/11	02/20/11 1:18 PM	1102631-007A	02/17/11 1:55 PM	02/18/11	02/20/11 12:07 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.

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