

SNOW CLEANERS INC.

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8:51 am, Jun 23, 2010

Alameda County
Environmental Health

June 18, 2010

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT
CERTIFICATION
ACEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA**

Dear Mr. Wickham:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

- Groundwater Monitoring and Sampling Report (May 21, 2010 Sampling Event) dated June 18, 2010 (document 0298.R9).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned work plan for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to call me at (800) 818-7659.

Cordially,
Snow Cleaners, Inc.

Harold Turner
President

Cc: Mr. LeRoy Griffin, Oakland Fire Department, Emergency Services, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612 (with enclosure)

0298.L48

P&D ENVIRONMENTAL, INC.

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

June 18, 2010
Report 0298.R9

Mr. Harold Turner
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT
(May 21, 2010 SAMPLING EVENT)
ACDEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Turner:

P&D Environmental Inc. (P&D) is pleased to present this report documenting the monitoring and sampling of four groundwater monitoring wells, designated as MW1 through MW4, near the subject site. During the reporting period the wells were monitored for depth to water on a monthly basis from January 2010 through June 2010, and the wells were sampled on May 21, 2010. A Site Location Map is attached as Figure 1, and a Site Vicinity Map showing the groundwater monitoring well locations is attached as Figure 2.

The well sampling was performed in accordance with a letter from Jerry Wickham of the Alameda County Department of Environmental Health (ACDEH) dated September 24, 2009 which included the approval of recommendations set forth in P&D's August 19, 2009 Subsurface Investigation Report (document 0298.R6). The recommendations included monitoring the existing groundwater monitoring wells on a monthly basis for water level fluctuations for one year and sampling the wells on a semi-annual basis for Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOCs).

BACKGROUND

Underground Storage Tanks (USTs) associated with the former dry cleaning facility were removed and associated limited excavation of the UST pit was performed by others in 1990. In January, 1994 two groundwater monitoring wells (MW1 and MW2) were installed by others in Davis Street approximately five feet south of the former UST pit. P&D subsequently oversaw the installation of groundwater monitoring wells MW3 and MW4 on September 9, 2008. A detailed discussion of the site background and historic monitoring, sampling, and investigation are provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6).

FIELD ACTIVITIES

Since the previous monitoring and sampling event on December 1, 2009, P&D personnel monitored wells MW1, MW2, MW3, and MW4 for depth to water measurement on January 27, February 19, March 19, April 16, May 21, and June 18, 2010. The depth to water was measured to the nearest 0.01 foot using an electric water level indicator. A summary of the depth to water measurements is attached with this report as Table 1.

On May 21, 2010, P&D personnel also monitored all of the wells for the presence of free product or sheen using a transparent bailer. No free product or sheen was observed in any of the groundwater monitoring wells.

Following the measurement of depth to water and monitoring for free product or sheen, each well was purged of a minimum of three casing volumes of water or until it was purged dry. During purging operations, the field parameters of electrical conductivity, temperature, and pH were monitored. No sheen, petroleum hydrocarbon odor, or solvent odor was detected on the purge water from any of the wells, except for well MW2, which had observable sheen and a moderate to strong petroleum hydrocarbon (mineral spirits) odor. Once the field parameters were observed to stabilize during well purging and a minimum of three casing volumes had been purged, or the well was purged dry, water samples were collected from each of the wells using a clean disposable bailer. No sheen or separate phase layers of petroleum hydrocarbons were observed on the groundwater samples from any of the wells, with the exception of the sample collected from well MW2, which was observed to have sheen. The water samples were transferred from the disposable bailers to 40-milliliter glass VOA vials and 1-liter amber glass bottles that were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present. The VOA vials and bottles were then transferred to a cooler with ice, pending transport to the laboratory. Chain of custody procedures were observed for all sample handling. Records of the field parameters measured during well purging are attached with this report.

GEOLOGY AND HYDROGEOLOGY

Review of Figure 1 shows that the site is located near the top of a northeasterly-trending interfluvial (ridge-like) structure. The topography in the area surrounding the site slopes to the east and south. Peralta Creek is located approximately 500 feet to the east and approximately 400 feet to the southeast of the subject site. The creek flows towards the southwest. Portions of the creek located directly to the east of the site are lined with concrete. Based on evaluation of the concrete channel for Peralta Creek that is located beneath Davis Street, the water that flows through Peralta Hacienda Historic Park is not the same water that flows in Peralta Creek on the north side of Davis Street.

Based on review of documents obtained from the City of Oakland and from the County Flood Control District (see P&D's November 24, 2009 Subsurface Investigation Work Plan (document 0298.W4)), it was determined that the water flowing in the creek through the Park is groundwater that originates from the storm drain that is located beneath Humboldt Street (located to the southeast of Peralta Creek), and that Peralta Creek flows in an underground concrete-lined channel beginning at the north side of Davis Street. The water flowing in the Creek channel in the Park drains through a

grate at the south end of the park into the underground concrete-lined channel that contains Peralta Creek.

Although the site vicinity topography slopes to the east and south, the area between Coolidge Avenue (bordering the property on the west) and 34th Avenue (the first street encountered to the east of the site) is remarkably flat. Almost all of the change in elevation between the site and Peralta Creek occurs to the east of 34th Avenue. Based on these observations, the anticipated groundwater flow direction in the vicinity of the site is toward the southeast, towards Peralta Creek.

Based on review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, the materials underlying the subject site and its immediate vicinity consist of Late Pleistocene alluvium (Qpa). Late Pleistocene alluvium is described as weakly consolidated, slightly weathered, poorly sorted, irregularly interbedded clay, silt, sand, and gravel.

The site geology and hydrogeology is complex, and a detailed discussion of the site geology and hydrogeology is provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6). The interpreted groundwater flow direction in the vicinity of the site was developed using multiple lines of evidence (topography, lithology, soil discoloration, contaminant concentration distribution, and the measured depth to water in the different wells). Groundwater is interpreted to generally move in an unconfined A-aquifer in the immediate vicinity of the site towards the southeast, based on the elevations and slope of the surface of the fine-grained materials that are encountered beginning at a depth of approximately 25 feet bgs in the vicinity of the site. Based on the presence of coarse-grained materials at depths greater than 30 feet bgs that are located between borehole B6 and well MW3, groundwater is interpreted to move vertically in a southerly-trending paleo-channel from the A-water-bearing zone to a confined B-water-bearing zone in the area between the northeast side of the subject site and 34th Avenue, and then move horizontally in the B-water-bearing zone to the south towards Peralta Creek and Peralta Hacienda Historical Park.

Review of the water levels in Table 1 and on Figure 2 shows that the water levels in wells MW1 and MW4 (screened in the B-water-bearing zone) are and have been consistently similar, and that the water levels in wells MW2 and MW3 (screened in the A-water-bearing zone) are and have been consistently similar, with a difference of approximately 6 to 7 feet in the elevations between the two sets of wells during dry season months and a difference of approximately 8 to 10 feet during wet season months. The water elevations in the wells that are screened in the A-water-bearing zone are higher than the water elevations in the wells that are screened in the B-water-bearing zone. Additionally, both the A-water-bearing zone and the B-water bearing zone respond similarly to seasonal changes in water levels, with a seasonal vertical range of water elevations to date of approximately 4.5 feet in wells MW1, MW3 and MW4, and approximately 7.5 feet in well MW2.

LABORATORY RESULTS

All of the groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) of Pacheco, California. McCampbell is a State-accredited hazardous waste testing laboratory. The samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) and for Total

Petroleum Hydrocarbons as Stoddard solvent (TPH-SS) by EPA Methods 5030B in conjunction with EPA Method 8021B and modified EPA Method 8015B, and for Total Petroleum Hydrocarbons as Diesel (TPH-D) and for Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) by EPA Method 3510C in conjunction with EPA Method 8015C. In addition, all of the samples were analyzed for VOCs including Methyl tert-Butyl Ether (MTBE); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and halogenated volatile organic compounds by EPA Method 8260B.

No analytes were detected in the groundwater sample collected from well MW3. No analytes were detected in the groundwater samples collected from wells MW1 and MW4, with the exceptions of chloroform in MW1 at a concentration of 0.80 micrograms per liter (ug/L), and cis-1,2-dichloroethene and chloroform in well MW4 at concentrations of 8.7 and 1.3 ug/L, respectively. In well MW2, TPH-G, TPH-SS, TPH-D, and TPH-BO, were detected at concentrations of 2,400, 2,500, 3,900, 4,700 ug/L, respectively. Review of the laboratory report shows that the TPH-G and TPH-SS results are both described as Stoddard solvent/mineral spirit-range compounds. The TPH-D and TPH-BO results are both described as Stoddard solvent/mineral spirit-range compounds, diesel-range compounds with no recognizable pattern, and oil-range compounds. Additionally, in well MW2 cis-1,2-dichloroethene, vinyl chloride, and 1,2,4-trimethylbenzene were detected at concentrations of 1,700, 180, and 89 ug/L, respectively.

The groundwater sample results are summarized in Table 2, and copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Review of the water levels in Table 1 and on Figure 2 shows that the water levels in wells MW1 and MW4 have been consistently similar, and that the water levels in wells MW2 and MW3 have been consistently similar, with a difference of approximately 6 feet in the elevations between the two sets of wells. As discussed in the geology and hydrogeology section above, the site geology and hydrogeology are complex. However, groundwater is interpreted to generally move in an unconfined A-water-bearing zone in the immediate vicinity of the site towards the southeast, groundwater is interpreted to move vertically in a southerly-trending paleo-channel from the A-water-bearing zone to a confined B-water-bearing in the area between the northeast side of the subject site and 34th Avenue, and then move horizontally in the B-water-bearing zone to the south towards Peralta Creek and Peralta Hacienda Historical Park.

Review of the water levels in Table 1 and on Figure 2 shows that the water levels in wells MW1 and MW4 (screened in the B-water-bearing zone) are and have been consistently similar, and that the water levels in wells MW2 and MW3 (screened in the A-water-bearing zone) are and have been consistently similar, with a difference of approximately 6 to 7 feet in the elevations between the two sets of wells during dry season months and a difference of approximately 8 to 10 feet during wet season months. The water elevations in the wells that are screened in the A-water-bearing zone are higher than the water elevations in the wells that are screened in the B-water-bearing zone. Additionally, both the A-water-bearing zone and the B-water bearing zone respond similarly to seasonal changes in water levels, with a seasonal vertical range of water elevations to date of approximately 4.5 feet in wells MW1, MW3 and MW4, and approximately 7.5 feet in well MW2.

During well sampling, the only well where odor or sheen were detected was in well MW2. Since the previous monitoring and sampling event on December 1, 2009 TPH has remained not detected in wells MW1 and MW4, and has decreased to not detected in well MW3. No VOCs were detected in well MW3. The one VOC detected in well MW1 and the two VOCs detected in well MW4 are the same VOCs detected in 2008 and 2009 in these wells. The VOC concentrations in wells MW1 and MW4 continue to remain below their respective May 2008 Table A San Francisco Bay Regional Water Quality Control Board groundwater Environmental Screening Levels (ESLs) with the exception of cis-1,2-dichloroethene in well MW4 which was detected at a concentration of 8.7 ug/L exceeding the May 2008 Table A groundwater ESL of 6.0 ug/L. In well MW2, all detected compound concentrations have decreased since 2009, with the exception of vinyl chloride, which increased.

In well MW2, TPH-G, TPH-SS, TPH-D, and TPH-BO, were detected at concentrations of 2,400, 2,500, 3,900, 4,700 ug/L, respectively. Review of the laboratory report shows that the TPH-G and TPH-SS results are both described as Stoddard solvent/mineral spirit-range compounds. The TPH-D and TPH-BO results are both described as Stoddard solvent/mineral spirit-range compounds, diesel-range compounds with no recognizable pattern, and oil-range compounds. Additionally, in well MW2 cis-1,2-dichloroethene, vinyl chloride, and 1,2,4-trimethylbenzene were detected at concentrations of 1,700, 180, and 89 ug/L, respectively.

Based on the sample results, P&D recommends that the monthly monitoring and semi-annual sampling of the wells be continued.

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, and one copy of this report will be mailed to LeRoy Griffin of the City of Oakland Fire Department

LIMITATIONS

This report was prepared solely for the use of Snow Cleaners. 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

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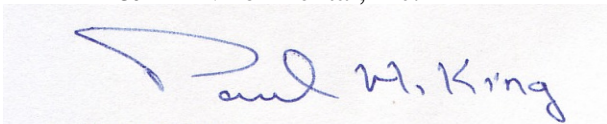
the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

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 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.

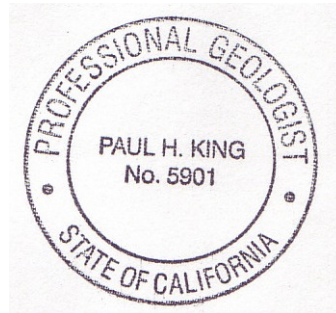
Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



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



Attachments:

Table 1 – Summary of Groundwater Elevation Data

Table 2 - Summary of Groundwater Sample Results

Figure 1 - Site Location Map

Figure 2 - Site Vicinity Map

Groundwater Monitoring/Well Purging Data Sheets

Laboratory Reports and Chain of Custody Documentation

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TABLES

SUMMARY OF GROUNDWATER ELEVATION DATA

Well No	Date	Top Of Casing Elevation (ft) ^{***}	Depth To Water (ft)	Water Table Elevation (ft)	Change in Water Table Elevation		
MW1	6/18/2010	132.78	21.06	111.72	-0.80		
	5/21/2010		20.26	112.52	-1.02		
	4/16/2010		19.24	113.54	-0.17		
	3/19/2010		19.07	113.71	1.49		
	2/19/2010		20.56	112.22	0.52		
	1/27/2010		21.08	111.70	2.28		
	12/1/2009		23.36	109.42	0.06		
	11/30/2009		23.42	109.36	-0.32		
	11/25/2009		car parked on well	could not measure			
	10/29/2009		23.10	109.68	0.30		
	9/24/2009		23.40	109.38	-0.52		
	8/20/2009		22.88	109.90	0.12		
	9/26/2008		23.00	109.78	0.02		
	9/18/2008		23.02	109.76	-2.37		
	2/20/2003		20.65	112.13	-0.59		
	1/18/2003		20.06	112.72			
	MW2		6/18/2010	133.59	15.41	118.18	-1.37
5/21/2010		14.04	119.55		-2.25		
4/16/2010		11.79	121.80		-0.30		
3/19/2010		11.49	122.10		1.91		
2/19/2010		13.40	120.19		-0.65		
1/27/2010		12.75	120.84		5.71		
12/1/2009		18.46	115.13		-1.00		
11/30/2009		car parked on well	could not measure				
11/25/2009		car parked on well	could not measure				
10/29/2009		17.46	116.13		1.37		
9/24/2009		18.83	114.76		-0.37		
8/20/2009		18.46	115.13		0.04		
9/18/2008		18.50	115.09		-5.41		
2/20/2003		13.09	120.50		-1.54		
1/18/2003		11.55 [#]	122.04				
MW3		6/18/2010	136.35		19.32	117.03	-0.59
		5/21/2010			18.73	117.62	-1.34
	4/16/2010	17.39		118.96	-0.44		
	3/19/2010	16.95		119.40	1.01		
	2/19/2010	17.96		118.39	-0.25		
	1/27/2010	17.71		118.64	3.45		
	12/1/2009	21.16		115.19	-0.02		
	11/30/2009	21.14		115.21	-0.12		
	11/25/2009	21.02		115.33	-1.07		
	10/29/2009	19.95		116.40	1.72		
	9/24/2009	21.67		114.68	-0.59		
	8/20/2009	21.08		115.27	-0.17		
	9/26/2008	20.91		115.44	2.78		
	9/19/2008	23.69		112.66	4.37		
	9/18/2008	28.06		108.29	5.25		
9/15/2008	33.31	103.04	-6.51				
9/15/2008	26.80	109.55					
MW4	6/18/2010	134.09	23.11	110.98	-0.78		
	5/21/2010		22.33	111.76	-0.97		
	4/16/2010		21.36	112.73	-0.18		
	3/19/2010		21.18	112.91	1.41		
	2/19/2010		22.59	111.50	0.52		
	1/27/2010		23.11	110.98	2.20		
	12/1/2009		25.31	108.78	0.06		
	11/30/2009		25.37	108.72	-0.11		
	11/25/2009		25.26	108.83	-0.20		
	10/29/2009		25.06	109.03	0.31		
	9/24/2009		25.37	108.72	-0.51		
	8/20/2009		24.86	109.23	0.14		
	9/26/2008		25.00	109.09	0.00		
	9/19/2008		25.00	109.09	0.02		
	9/18/2008		25.02	109.07	0.09		
9/15/2008	25.11	108.98	-0.08				
9/15/2008	25.03	109.06					

NOTES:

* = Prior to well development.

** = Wells surveyed on September 22-23, 2008.

= Depth to water not corrected for free product thickness; free product with thickness of 0.02 feet encountered.

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW1	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform=0.80
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform=0.71
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform=0.74
	10/27/2004	ND<50	ND<50	ND<50	ND<250	NA	ND, except: Chloroform=0.78
	2/20/2003	ND<50	ND<50	ND<50	ND<250	NA	ND, except: Chloroform=1.2, Xylenes = 0.61
	5/15/1995	ND<50	NA	NA	NA	NA	** ND
	12/22/1994	ND<50	NA	NA	NA	NA	** ND
	9/14/1994	ND, a	NA	NA	NA	NA	** ND
	7/29/1994	ND<50	NA	NA	NA	NA	** ND
	5/31/1994	ND<50	NA	NA	NA	NA	** ND
1/24/1994	ND<50	NA	ND	NA	NA	** ND	
MW2	5/21/2010	2,400, g	2,500, g	3,900, h,i,j	NA	4,700, h,i,j	ND, except: cis-1,2-dichloroethene= 1,700 , Vinyl Chloride = 180 , 1,2,4-Trimethylbenzene = 89
	12/1/2009	34,000, b,c	47,000, b,c	74,000, b,d,e,f	NA	91,000, b,d,e,f	ND, except: cis-1,2-dichloroethene= 1,800 , Vinyl Chloride = 73 , 1,2,4-Trimethylbenzene = 140
	9/18/2008	11,000, c,b	14,000	28,000, b,d,e	NA	33,000	ND, except: cis-1,2-dichloroethene= 880 , Vinyl Chloride = 44 , Xylenes = 46 , 1,2,4-Trimethylbenzene = 140, 1,3,5-Trimethylbenzene = 41
	10/27/2004	320,000, c	500,000	280,000, b,d,f	ND<50,000	NA	*ND, except: cis-1,2-dichloroethene = 3,300
	2/20/2003	76,000, b,c	75,000	370,000, b,d,f	37,000	NA	ND, except: Toluene = 47 , Ethylbenzene = 43 , Xylenes = 160 , cis-1,2-Dichloroethene = 360 , trans-1,2-Dichloroethene = 22 , n-Butyl benzene = 43, Isopropylbenzene = 35, sec-Butyl benzene = 48, n-Propyl benzene = 86, 4-Isopropyl toluene = 25, 1,3,5-Trimethylbenzene = 160, Naphthalene = 32 , Vinyl Chloride = 24 .
	5/15/1995	12,000, c	NA	NA	NA	NA	**Benzene = 17 , **Toluene = 96 , **Ethylbenzene = 50 , **Xylenes = 200
	12/22/1994	20,000, a,c	NA	NA	NA	NA	**Benzene = 22 , **Toluene = 170 , **Ethylbenzene = 89 , **Xylenes = 470
	12/22/1994						ND, except: +Benzene = 21, +Toluene = 170, +Ethylbenzene = 48, +Xylenes = 180, +cis-1,2-Dichloroethene = 1,100, +trans-1,2-Dichloroethene = 15, +1,1-Dichloroethane = 2.8, +Chloroethane = 6.7
	9/14/1994	200,000, b,c	NA	NA	NA	NA	**Benzene = ND < 15 **Toluene = 170, **Ethylbenzene = 400, **Xylenes = 2,600
	9/14/1994						ND, except: +Benzene = 24 +Toluene = 440, +Ethylbenzene = 300, +Xylenes = 830 +cis-1,2-dichloroethene = 720 +Chloroform = 25, +Acetone = 120

SUMMARY OF GROUNDWATER SAMPLE RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW2 Continued	7/29/1994	21,000, b, c	NA	NA	NA	NA	**Benzene = 21, **Toluene = 150, **Ethylbenzene = 53, **Xylenes = 150
	5/31/1994	6,400, c	NA	NA	NA	NA	**Benzene = 15, **Toluene = 100, **Ethylbenzene = 43, **Xylenes = 220
	1/28/1994	2,800, c	NA	12,000, d	NA	NA	ND, except: **Xylenes = 43
	1/19/1994++	3,400, c	NA	20,000	NA	NA	**Benzene = 15, **Toluene = 180, **Ethylbenzene = 39, **Xylenes = 200
MW3	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND
	12/1/2009	ND<50	ND<50	63, e	NA	120, e	ND
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Bromoform = 0.57, Chloroform = 1.3
MW4	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 8.7 , Chloroform = 1.3
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 5.8, Chloroform = 0.97
	9/18/2008	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 4.8, Chloroform = 0.96
ESL		100	100	100	100	100	Benzene = 1.0, Toluene = 40, Ethylbenzene = 30, Xylenes = 20, cis-1,2-Dichloroethene=6.0, trans-1,2-Dichloroethene = 10, 1,1-Dichloroethane = 5.0, Chloroethane = 12, Vinyl Chloride = 0.5, Naphthalene = 17, Chloroform = 70, Bromoform = 100, Acetone = 6,300, n-Butylbenzene = None, Isopropylbenzene = None

Abbreviations and Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil

VOCs = Volatile Organic Compounds

ND = Not Detected.

NA = Not Analyzed.

a = Laboratory Note: one to a few isolated peaks present.

b = Laboratory Note: lighter than water immiscible sheen/product present.

c = Laboratory Note: results reported as gasoline consist of Stoddard Solvent/mineral spirit.

d = Laboratory Note: results reported as diesel consist of Stoddard Solvent/mineral spirit.

e = results reported as diesel consist of diesel range compounds; no recognizable pattern.

f = results reported as diesel consist of oil range compounds.

g = Laboratory Note: results reported as gasoline and Stoddard solvent consist of Stoddard Solvent/mineral spirit.

h = Laboratory Note: results reported as diesel and bunker oil consist of Stoddard Solvent/mineral spirit.

i = Laboratory Note: results reported as diesel and bunker oil consist of diesel range compounds; no recognizable pattern.

j = Laboratory Note: results reported as diesel and bunker oil consist of oil range compounds.

* = MW2 VOC detection limits are all increased because of a sample dilution factor of 500.

** = Analysis by EPA Method 8020.

+ = Samples subcontracted to different lab for VOC analysis by EPA Method 8260..

++ = Well Development Water stored at site in drum; submitted to lab on January 28, 1994. '

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 are in micrograms per liter (µg/L), unless otherwise noted.

FIGURES

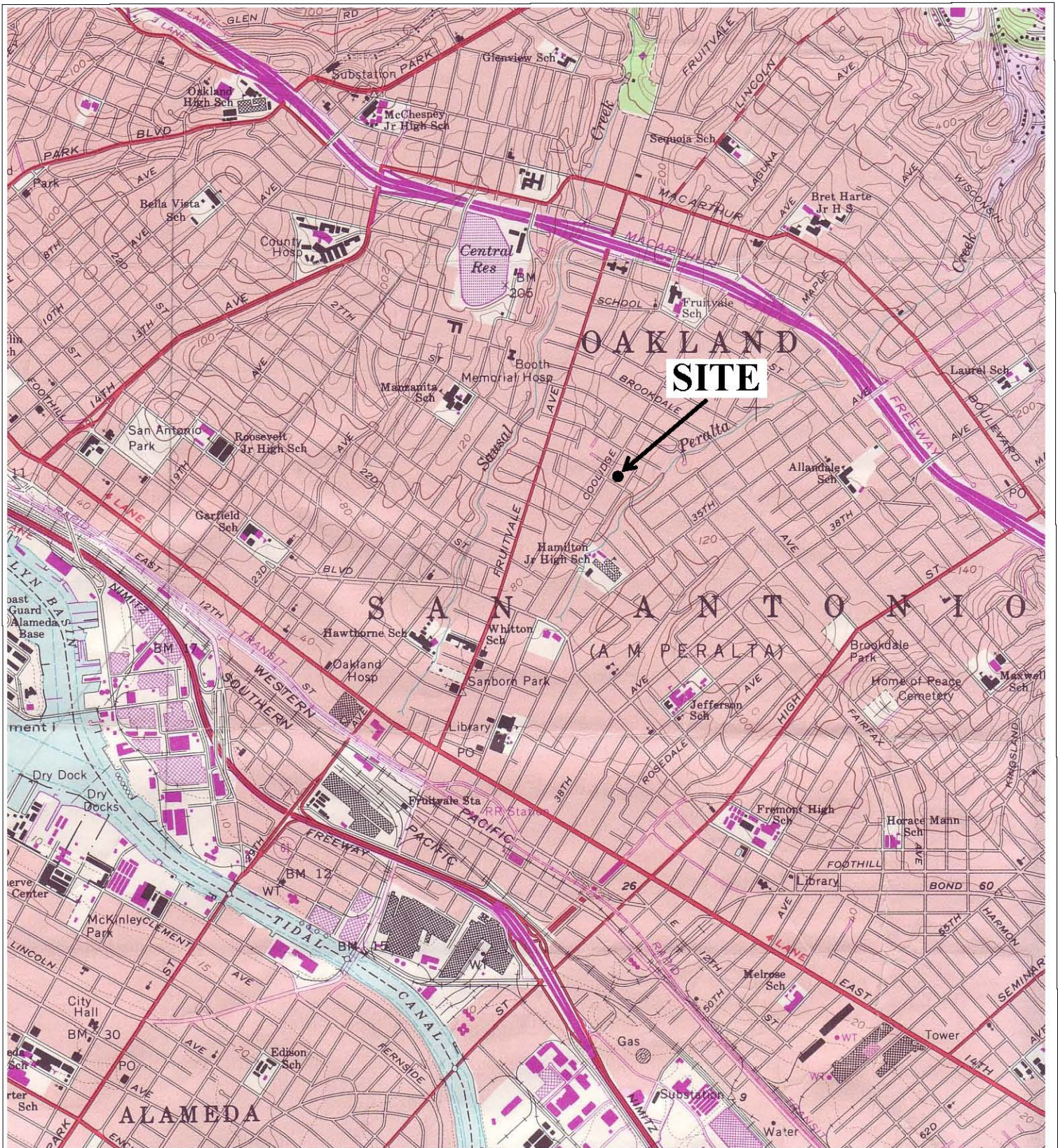


Figure 1
 Site Location Map
 Snow Cleaners
 2678 Coolidge Avenue
 Oakland, California



Base Map From:
 U.S. Geological Survey
 Oakland East, California
 7.5-Minute Quadrangle
 Photorevised 1980

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



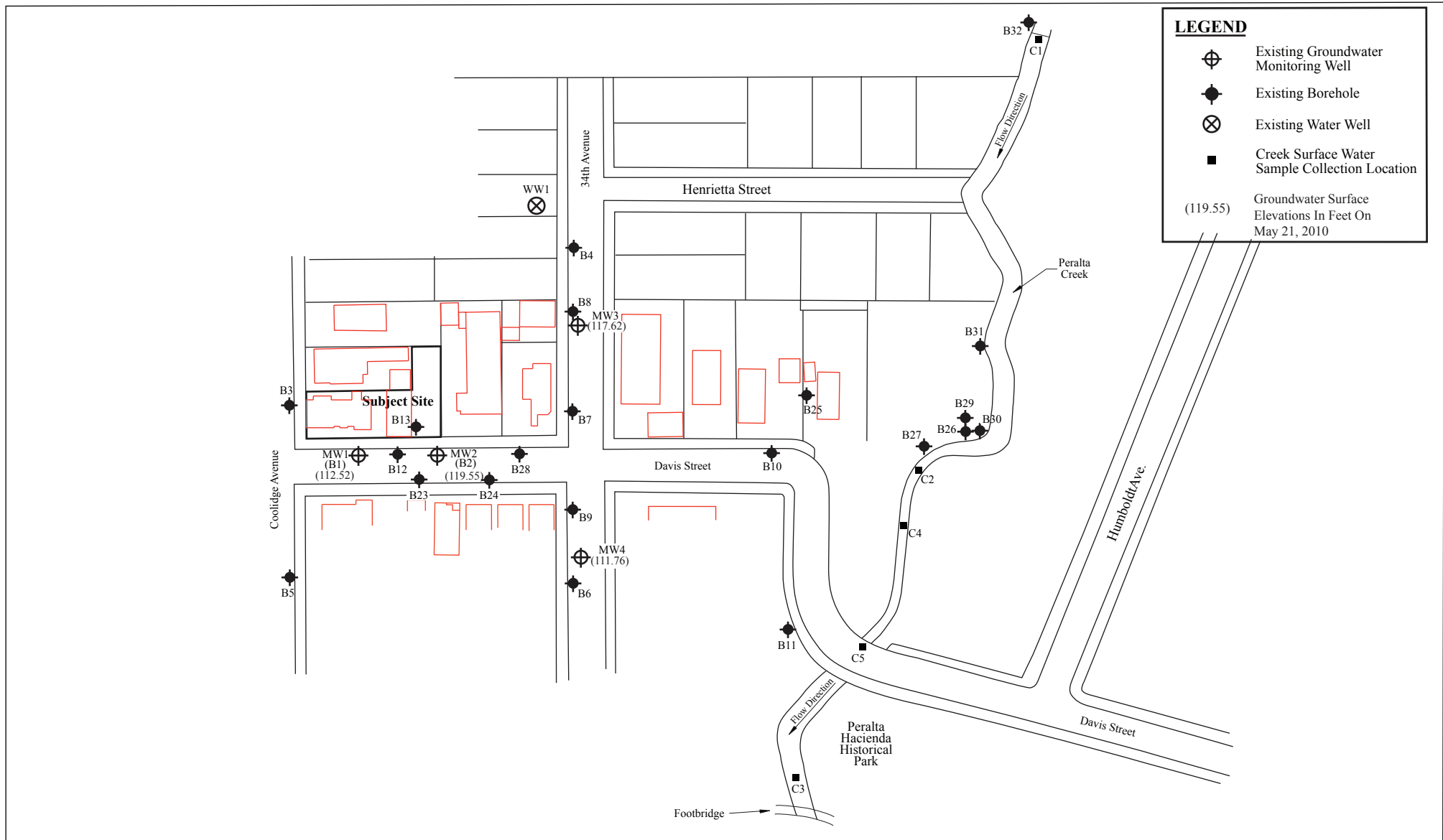
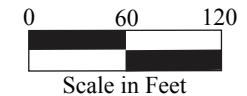


Figure 2
 Site Vicinity Map Showing Monitoring Well And Offsite Sample Collection Locations
 Snow Cleaners
 2678 Coolidge Avenue
 Oakland, California



Base Map from:
 Kier & Wright Engineers Surveyors, Inc.
 September 2008 Survey
 and
 Parcel Quest Assessor's Parcel Maps
 Alameda County Map Disc, July 2001

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



**GROUNDWATER MONITORING/WELL
PURGING DATA SHEETS**

(2)

**P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET**

Site Name Snow Cleaners
 Job No. 0298
 TOC to Water (ft.) 20.26
 Well Depth (ft.) 44.5
 Well Diameter 2" (0.16)
 Gal./Casing Vol. 3.9
 3 vol = 11.7

Well No. MW-1
 Date 5/21/10
 Sheen No
 Free Product Thickness Ø
 Sample Collection Method Disposable bailer

<u>TIME</u>	<u>GAL. PURGED</u>	<u>DH</u>	<u>TEMPERATURE</u> °C	<u>ELECTRICAL CONDUCTIVITY</u> µs/cm
<u>1120</u>	<u>1.3</u>	<u>6.57</u>	<u>20.5</u>	<u>727</u>
<u>1123</u>	<u>2.6</u>	<u>6.52</u>	<u>20.2</u>	<u>729</u>
<u>1126</u>	<u>3.9</u>	<u>6.50</u>	<u>20.1</u>	<u>723</u>
<u>1128</u>	<u>5.2</u>	<u>6.52</u>	<u>20.1</u>	<u>718</u>
<u>1130</u>	<u>6.5</u>	<u>6.53</u>	<u>20.0</u>	<u>690</u>
<u>1132</u>	<u>7.8</u>	<u>6.53</u>	<u>20.1</u>	<u>636</u>
<u>1134</u>	<u>9.1</u>	<u>6.55</u>	<u>20.1</u>	<u>638</u>
<u>1137</u>	<u>10.4</u>	<u>6.54</u>	<u>20.0</u>	<u>616</u>
<u>1141</u>	<u>11.7</u>	<u>6.53</u>	<u>19.9</u>	<u>604</u>

NOTES: No sheen + No odor, Sample time => 1200

4

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0798
TOC to Water (ft.) 14.04
Well Depth (ft.) 24.6
Well Diameter 4" (0.646)
Gal./Casing Vol. 6.9
3 Vol = 20.7

Well No. MW-2
Date 5/24/0
Sheen YES
Free Product Thickness 0
Sample Collection Method Disposable bailer

<u>TIME</u>	<u>GAL. PURGED</u>	<u>pH</u>	<u>TEMPERATURE</u> °C	<u>ELECTRICAL CONDUCTIVITY</u> μs/cm
<u>1209</u>	<u>2.3</u>	<u>6.57</u>	<u>20.0</u>	<u>588</u>
<u>1212</u>	<u>4.6</u>	<u>6.58</u>	<u>19.9</u>	<u>583</u>
<u>1215</u>	<u>6.9</u>	<u>6.54</u>	<u>19.9</u>	<u>578</u>
<u>1217</u>	<u>9.2</u>	<u>6.55</u>	<u>19.9</u>	<u>583</u>
<u>1220</u>	<u>11.5</u>	<u>6.55</u>	<u>19.7</u>	<u>580</u>
<u>1223</u>	<u>13.8</u>	<u>6.56</u>	<u>19.6</u>	<u>581</u>
<u>1226</u>	<u>16.1</u>	<u>6.58</u>	<u>19.4</u>	<u>582</u>
<u>1229</u>	<u>18.4</u>	<u>6.56</u>	<u>19.6</u>	<u>577</u>
<u>1233</u>	<u>20.7</u>	<u>6.58</u>	<u>19.6</u>	<u>581</u>

NOTES: Sheen a mod-strong Standard solvent/Mineral Spirits odor.
Sample time => 1245

3

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
Job No. 0798
TOC to Water (ft.) 18.73
Well Depth (ft.) 35.4
Well Diameter 2" (0.16)
Gal./Casing Vol. 2.7
3 vol = 8.1

Well No. MW-3
Date 5/21/10
Sheen No
Free Product Thickness 0
Sample Collection Method Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY $\mu\text{s/cm}$	
1345	0.9	7.48	19.6	420	dewatering 1
1347	1.8	7.45	19.2	422	
1350	2.7	7.28	19.3	442	
1352	3.6	7.23	19.2	484	
1354	4.5	7.18	19.1	508	
1356	5.4	7.20	19.1	518	
1358	6.3	7.20	19.0	537	
1401	7.2 <u>8.1</u>	well dewatered @ ~ 6.7 gallons			

NOTES: No sheen + no phc odor (mod ^{strong} sulfur odor)
sample time => 1430 hrs

ND1

P&D ENVIRONMENTAL
GROUNDWATER MONITORING/WELL PURGING
DATA SHEET

Site Name Snow Cleaners
 Job No. 0298
 TOC to Water (ft.) 22.33
 Well Depth (ft.) 37.2
 Well Diameter 2" (0.16)
 Gal./Casing Vol. 7.4
 3 Vol = 7.2

Well No. MW-4
 Date 5/21/10
 Sheen No
 Free Product Thickness Ø
 Sample Collection Method Disposable bailer

TIME	GAL. PURGED	pH	TEMPERATURE °C	ELECTRICAL CONDUCTIVITY $\mu\text{s/cm}$
1259	0.8	10.21	20.2	309
1302	1.6	7.44	19.8	422
1305	2.4	6.75	19.8	506
1307	3.2	6.71	19.7	515
1309	4.0	6.64	19.5	538
1310	4.8	6.66	19.4	540
1312	5.6	6.68	19.5	537
1313	6.4	6.65	19.2	540
1315	7.2	6.63	19.3	534

NOTES: No sheen & no odor; Sample time \rightarrow 1330

**LABORATORY REPORTS AND CHAIN OF
CUSTODY DOCUMENTATION**



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
		Date Received: 05/21/10
	Client Contact: Steve Carmack	Date Reported: 05/28/10
	Client P.O.:	Date Completed: 05/27/10

WorkOrder: 1005570

May 28, 2010

Dear Steve:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#0298; Snow Cleaners, Oakland,**
- 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.

CHAIN OF CUSTODY RECORD

1005570

PROJECT NUMBER: 0298		PROJECT NAME: Snow Cleaners, Oakland			NUMBER OF CONTAINERS	ANALYSIS(ES): TPH Multi (G, P, SS, B0) 8260B	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) Steve Carmack <i>[Signature]</i>								
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION				
MW-1	5/21/10	1200	H₂O		7	X	ICE	Normal Turnaround
MW-2	↓	1245	↓		7	X	↓	↓
MW-3	↓	1430	↓		6	X	↓	↓
MW-4	↓	1330	↓		7	X	↓	↓
					ICE/GOOD CONDITION <input checked="" type="checkbox"/>		APPROPRIATE CONTAINERS <input checked="" type="checkbox"/>	
					HEAD SPACE ABSENT <input checked="" type="checkbox"/>		PRESERVED IN LAB <input checked="" type="checkbox"/>	
					DECONTAMINATED IN LAB <input type="checkbox"/>		VOAS C & G METALS OTHER <input type="checkbox"/>	
					PRESERVATION <input type="checkbox"/>			
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 5/21/10	TIME 610	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		TOTAL NO. OF SAMPLES (THIS SHEET) 4	LABORATORY: McCoy & Analytical	
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 5/21/10	TIME 1720	RECEIVED BY: (SIGNATURE) Me Vall		TOTAL NO. OF CONTAINERS (THIS SHEET) 27	LABORATORY CONTACT: Angela Rydelius	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)		LABORATORY PHONE NUMBER: (877) 252-9262		
					SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO			
Results and billing to: P&D Environmental, Inc. lob@pdenviro.com				REMARKS: All bottles preserved w/ HCL.				

+
+
+
+

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1005570

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Steve Carmack
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: #0298; Snow Cleaners, Oakland

Bill to:

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

Requested TAT: 5 days

Date Received: 05/21/2010

Date Printed: 05/21/2010

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	
1005570-001	MW-1	Water	5/21/2010 12:00	<input type="checkbox"/>	B	A											
1005570-002	MW-2	Water	5/21/2010 12:45	<input type="checkbox"/>	B	A											
1005570-003	MW-3	Water	5/21/2010 14:30	<input type="checkbox"/>	B	A											
1005570-004	MW-4	Water	5/21/2010 13:30	<input type="checkbox"/>	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 contain testgroup.

Prepared by: Melissa Valles

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: **P & D Environmental**

Date and Time Received: **5/21/2010 8:02:22 PM**

Project Name: **#0298; Snow Cleaners, Oakland**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1005570** 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: 1°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:



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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/25/10
		Date Analyzed: 05/25/10

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1005570

Lab ID	1005570-001B
Client ID	MW-1
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	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	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	0.80	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	ND	1.0	0.5
4-Isopropyl toluene	ND	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	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-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:	123	%SS2:	119
%SS3:	110		

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.

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/26/10
		Date Analyzed: 05/26/10

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1005570

Lab ID	1005570-002B
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<200	100	2.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	Chloroform	ND<50	100	0.5
Chloromethane	ND<50	100	0.5	2-Chlorotoluene	ND<50	100	0.5
4-Chlorotoluene	ND<50	100	0.5	Dibromochloromethane	ND<50	100	0.5
1,2-Dibromo-3-chloropropane	ND<20	100	0.2	1,2-Dibromoethane (EDB)	ND<50	100	0.5
Dibromomethane	ND<50	100	0.5	1,2-Dichlorobenzene	ND<50	100	0.5
1,3-Dichlorobenzene	ND<50	100	0.5	1,4-Dichlorobenzene	ND<50	100	0.5
Dichlorodifluoromethane	ND<50	100	0.5	1,1-Dichloroethane	ND<50	100	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5	1,1-Dichloroethene	ND<50	100	0.5
cis-1,2-Dichloroethene	1700	100	0.5	trans-1,2-Dichloroethene	ND<50	100	0.5
1,2-Dichloropropane	ND<50	100	0.5	1,3-Dichloropropane	ND<50	100	0.5
2,2-Dichloropropane	ND<50	100	0.5	1,1-Dichloropropene	ND<50	100	0.5
cis-1,3-Dichloropropene	ND<50	100	0.5	trans-1,3-Dichloropropene	ND<50	100	0.5
Diisopropyl ether (DIPE)	ND<50	100	0.5	Ethylbenzene	ND<50	100	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5	Freon 113	ND<1000	100	10
Hexachlorobutadiene	ND<50	100	0.5	Hexachloroethane	ND<50	100	0.5
2-Hexanone	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	ND<50	100	0.5
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5
Naphthalene	ND<50	100	0.5	n-Propyl benzene	ND<50	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,1,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	ND<50	100	0.5
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	89	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5
Vinyl Chloride	180	100	0.5	Xylenes	ND<50	100	0.5

Surrogate Recoveries (%)

%SS1:	96	%SS2:	101
%SS3:	102		

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.

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



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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

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/26/10
		Date Analyzed: 05/26/10

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1005570

Lab ID	1005570-003B
Client ID	MW-3
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	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	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	ND	1.0	0.5
4-Isopropyl toluene	ND	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	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-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:	102	%SS2:	103
%SS3:	114		

Comments: b1

* 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.

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/26/10
		Date Analyzed: 05/26/10

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1005570

Lab ID	1005570-004B
Client ID	MW-4
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	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	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	1.3	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	8.7	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	ND	1.0	0.5
4-Isopropyl toluene	ND	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	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-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:	99	%SS2:	102
%SS3:	108		

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.

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

b1) aqueous sample that contains greater than ~1 vol. % sediment



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/24/10-05/26/10
		Date Analyzed: 05/24/10-05/26/10

Gasoline Range (C6-C12), Stoddard Solvent Range C9-C12) Volatile Hydrocarbons as Gasoline & Stoddard Solvent*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1005570

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS	Comments
001A	MW-1	W	ND	ND	1	108	
002A	MW-2	W	2400	2500	3.3	107	d5
003A	MW-3	W	ND	ND	1	102	b1
004A	MW-4	W	ND	ND	1	103	

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

+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
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0298; Snow Cleaners, Oakland	Date Sampled: 05/21/10
	Client Contact: Steve Carmack	Date Received: 05/21/10
	Client P.O.:	Date Extracted: 05/21/10
		Date Analyzed: 05/24/10-05/25/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C

Analytical methods: SW8015B

Work Order: 1005570

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Bunker Oil (C10-C36)	DF	% SS	Comments
1005570-001A	MW-1	W	ND	ND	1	102	
1005570-002A	MW-2	W	3900	4700	1	100	e11,e2,e7
1005570-003A	MW-3	W	ND	ND	1	99	b1
1005570-004A	MW-4	W	ND	ND	1	100	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	100	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.

+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
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 50809

WorkOrder 1005570

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1005546-003A			
	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	93.8	91.4	2.58	98.8	102	2.77	70 - 130	30	70 - 130	30
Benzene	ND	10	103	103	0	112	117	3.97	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	91.9	93.7	1.94	87.5	90.5	3.39	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	115	116	0.409	115	123	6.50	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	100	114	12.8	110	117	6.01	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	105	101	3.62	109	113	3.66	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	96.2	96.9	0.650	103	108	4.69	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	112	113	1.23	126	127	0.338	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	105	105	0	116	120	3.30	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	109	106	2.19	112	117	3.80	70 - 130	30	70 - 130	30
Toluene	ND	10	99.3	106	6.81	105	110	4.82	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	93.1	92	1.22	98.3	102	3.52	70 - 130	30	70 - 130	30
%SS1:	128	25	105	103	2.11	106	104	1.87	70 - 130	30	70 - 130	30
%SS2:	116	25	107	114	6.81	117	116	0.323	70 - 130	30	70 - 130	30
%SS3:	113	2.5	122	115	5.52	117	117	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 50809 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1005570-001B	05/21/10 12:00 PM	05/25/10	05/25/10 3:45 AM	1005570-002B	05/21/10 12:45 PM	05/26/10	05/26/10 4:30 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 50820

WorkOrder 1005570

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1005617-002A			
	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	101	101	0	93.3	98.5	5.50	70 - 130	30	70 - 130	30
Benzene	ND	10	122	121	0.149	112	119	5.76	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	106	103	2.66	88.5	95.3	7.42	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	115	113	1.91	106	113	6.22	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	117	119	2.01	109	117	7.27	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	124	123	0.157	109	115	5.85	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	109	108	0.688	100	106	5.55	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	129	129	0	122	130	6.40	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	124	123	0.650	115	122	6.09	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	128	129	0.699	115	122	5.54	70 - 130	30	70 - 130	30
Toluene	ND	10	107	107	0	101	106	4.72	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	117	115	1.89	107	115	6.68	70 - 130	30	70 - 130	30
%SS1:	102	25	101	102	0.966	98	98	0	70 - 130	30	70 - 130	30
%SS2:	103	25	103	103	0	103	102	0.436	70 - 130	30	70 - 130	30
%SS3:	113	2.5	118	116	1.12	113	109	3.63	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 50820 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1005570-003B	05/21/10 2:30 PM	05/26/10	05/26/10 12:51 AM	1005570-004B	05/21/10 1:30 PM	05/26/10	05/26/10 1:34 AM

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

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

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

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

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

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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 50829

WorkOrder 1005570

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1005570-003A			
	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	93.6	88.3	5.90	94.3	92.5	1.86	70 - 130	20	70 - 130	20
MTBE	ND	10	114	103	9.98	111	109	1.69	70 - 130	20	70 - 130	20
Benzene	ND	10	101	101	0	103	101	2.13	70 - 130	20	70 - 130	20
Toluene	ND	10	91.6	89.7	2.13	92.2	91.3	0.995	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91.8	88.9	3.21	90.9	91.7	0.794	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	100	2.43	103	103	0	70 - 130	20	70 - 130	20
%SS:	102	10	101	106	4.77	104	104	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 50829 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1005570-001A	05/21/10 12:00 PM	05/24/10	05/24/10 8:05 PM	1005570-002A	05/21/10 12:45 PM	05/26/10	05/26/10 1:04 AM
1005570-003A	05/21/10 2:30 PM	05/24/10	05/24/10 8:35 PM	1005570-004A	05/21/10 1:30 PM	05/24/10	05/24/10 9:05 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 50810

WorkOrder 1005570

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	95.9	96.3	0.382	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	95	94	0.459	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 50810 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1005570-001A	05/21/10 12:00 PM	05/21/10	05/24/10 11:36 PM	1005570-002A	05/21/10 12:45 PM	05/21/10	05/25/10 12:44 AM
1005570-003A	05/21/10 2:30 PM	05/21/10	05/25/10 1:52 AM	1005570-004A	05/21/10 1:30 PM	05/21/10	05/25/10 3:00 AM

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

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

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

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

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