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January 11, 2010

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2:13 pm, Jan 12, 2010

Alameda County Environmental Health

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

Since 1910

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 (December 1, 2009 Sampling Event) dated January 11, 2010 (document 0298.R7).

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) 818-7669.

Cordially, Snow Cleaners, Inc.

ul man

Hárold Turner President

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

0298 L42

"SERVING THE CLEANING INDUSTRY FOR OVER 90 YEARS"

P&D ENVIRONMENTAL, INC.

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

January 11, 2010 Report 0298.R7

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

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT (DECEMBER 1, 2009 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, at the subject site. Field activities were performed on December 1, 2009. 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 information 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 September 18, 2008, P&D personnel monitored wells MW1, MW2, MW3, and MW4 for depth to water measurements on September 26, 2008, August 20, September 24, October 29, November 25, November 30, and December 1, 2009. The depth to water was measured to the nearest 0.01 foot using an electric water level indicator. All four monitoring wells were monitored for depth to water with the exceptions of MW1 and MW2 on November 25, 2009 and MW2 on November 30, 2009. On these dates cars were parked on tip of the wells. A summary of the depth to water measurements is attached with this report as Table 1.

On December 1, 2009, P&D personnel monitored wells MW1, MW2, MW3, and MW4 for the depth to water measurements to the nearest 0.01 foot using an electric water level indicator and 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.

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 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 34^{th} 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 34^{th} 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 it's 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-aquifer to a confined B-aquifer in the area between the northeast side of the subject site and 34th Avenue, and then move horizontally in the B-aquifer 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 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.

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

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VOCs including Methyl tert-Butyl Ether (MTBE), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B.

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 0.71 micrograms per liter (ug/L), and cis-1,2-dichloroethene and chloroform in well MW4 at concentrations of 5.8 and 0.97 ug/L, respectively. No analytes were detected in well MW3 with the exception of TPH-D, TPH-BO, chloroform, and bromoform at concentrations of 63, 120, 1.3, and 0.57 ug/L, respectively. Review of the laboratory report shows that the TPH-D and TPH-BO results are both described as diesel-range compounds with no recognizable pattern. In well MW2, TPH-G, TPH-SS, TPH-D, and TPH-BO, were detected at concentrations of 34,000, 47,000, 74,000, 91,000 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 1,800, 73, and 140 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-aquifer 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-aquifer to a confined B-aquifer in the area between the northeast side of the subject site and 34th Avenue, and then move horizontally in the B-aquifer to the south towards Peralta Creek and Peralta Hacienda Historical Park.

During well sampling, the only well where odor or sheen were detected was in well MW2. Since the previous monitoring and sampling event on September 18, 2008 TPH has remained not detected in wells MW1 and MW4, and the three VOCs detected in these wells were the same VOCs detected in 2008, with all VOC concentrations continuing to remain below their respective May 2008 Table A San Francisco Bay Regional Water Quality Control Board groundwater Environmental Screening Levels (ESLs). In well MW3, the only detected compounds were 63 ug/L TPH-D and 120 ug/L TPH-BO, with only TPH-BO exceeding the May 2008 Table A residual fuel groundwater ESL of 100 ug/L. In well MW2, all detected compound concentrations have increased since 2008, with the exception of 1,2,4-Trimethylbenzene, which remained the same.

In well MW2, TPH-G, TPH-SS, TPH-D, and TPH-BO, were detected at concentrations of 34,000, 47,000, 74,000, 91,000 ug/L, respectively. Review of the laboratory report shows that the TPH-G

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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 1,800, 73, and 140 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 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.

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

Sincerely,

P&D Environmental, Inc.

W1, King

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

PHK/sjc 0298.R7

TABLES

| Well No | Date | Top Of Casing Elevation (ft)** | Depth To Water (ft) | Water Table Elevation (ft) |
|---------|------------|--------------------------------|---------------------|----------------------------|
| | | | | |
| MW1 | 12/1/2009 | 132.78 | 23.36 | 109.42 |
| | 11/30/2009 | | 23.42 | 109.36 |
| | 11/25/2009 | | car parked on well | could not measure |
| | 10/29/2009 | | 23.10 | 109.68 |
| | 9/24/2009 | | 23.40 | 109.38 |
| | 8/20/2009 | | 22.88 | 109.90 |
| | 9/26/2008 | | 23.00 | 109.78 |
| | 9/18/2008 | | 23.02 | 109.76 |
| | 2/20/2003 | | 20.65 | 112.13 |
| | 1/18/2003 | | 20.06 | 112.72 |
| MW2 | 12/1/2009 | 133.59 | 18.46 | 115.13 |
| | 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 |
| | 9/24/2009 | | 18.83 | 114.76 |
| | 8/20/2009 | | 18.46 | 115.13 |
| | 9/18/2008 | | 18.50 | 115.09 |
| | 2/20/2003 | | 13.09 | 120.50 |
| | 1/18/2003 | | 11.55# | 122.04 |
| MW3 | 12/1/2009 | 136.35 | 21.16 | 115.19 |
| 111113 | 11/30/2009 | 150.55 | 21.10 | 115.21 |
| | 11/25/2009 | | 21.02 | 115.33 |
| | 10/29/2009 | | 19.95 | 116.40 |
| | 9/24/2009 | | 21.67 | 114.68 |
| | 8/20/2009 | | 21.08 | 115.27 |
| | 9/26/2008 | | 20.91 | 115.44 |
| | 9/19/2008 | | 23.69 | 112.66 |
| | 9/18/2008 | | 28.06 | 108.29 |
| | 9/15/2008 | | 33.31 | 103.04 |
| | 9/15/2008* | | 26.80 | 109.55 |
| MW4 | 12/1/2009 | 134.09 | 25.31 | 108.78 |
| | 11/30/2009 | | 25.37 | 108.72 |
| | 11/25/2009 | | 25.26 | 108.83 |
| | 10/29/2009 | | 25.06 | 109.03 |
| | 9/24/2009 | | 25.37 | 108.72 |
| | 8/20/2009 | | 24.86 | 109.23 |
| | 9/26/2008 | | 25.00 | 109.09 |
| | 9/19/2008 | | 25.00 | 109.09 |
| | 9/18/2008 | | 25.02 | 109.07 |
| | 9/15/2008 | | 25.11 | 108.98 |
| | 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.

| MW1 | Sample Date 12/1/2009 9/18/2008 | TPH-G | TPH-SS | TPH-D | TPH-MO | TPH-BO | VOCs by 8260B |
|------|---------------------------------------|----------------|-------------|---------------------------|------------|-----------------|--|
| MW1 | | NID | | | | | |
| | | ND<50 | ND<50 | ND<50 | NA | ND<100 | ND, except: Chloroform=0.71 |
| | | 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 |
| | | | | | | | Aylenes = 0.01 |
| | 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 1/24/1994 | ND<50 ND<50 | NA NA | NA ND | NA NA | NA NA | ** ND |
| 1000 | | | | | | | ** ND |
| MW2 | 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 |
| | 0/10/2011 | 44.000 - | | a a coo a - | | | |
| | 9/18/2008 | 11,000, с,ь | 14,000 | 28,000, b,d,e | NA | 33,000 | ND, except: |
| | | | | | | | cis-1,2-dichloroethene= 880, Vinyl Chloride = 44, |
| | | | | | | | |
| | | | | | | | 1,2,4-Trimethylbenzene = 140, |
| | | | | | | | 1,3,5-Trimethylbenzene = 41 |
| | 10/27/2004 | 320,000, c | 500 000 | 280.000 LJP | ND ~50 000 | NA | **** |
| | 10/27/2004 | 320,000, C | 500,000 | 280,000 , b,d, f | ND<50,000 | INA | *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 | **D 00 |
| | 12/22/1994 | 20,000, a,c | 101 | 1111 | 101 | 1411 | **Benzene = 22, **Toluene = 170, |
| | | | | | | | **Ethylbenzene = 89 , |
| | | | | | | | **Xylenes = 470 |
| | 12/22/1004 | | | | | | |
| | 12/22/1994 | | | | | | ND, except: |
| | | | | | | | +Benzene $= 21$, |
| | | | | | | | +Toluene = 170, +Ethylbenzene = 48, |
| | | | | | | | +Ethylbenzene = 48, +Xylenes = 180, |
| | | | | | | | +Xylenes = 180, +cis-1,2-Dichloroethene = 1,100, |
| | | | | | | | +trans-1,2-Dichloroethene = 1,100, |
| | | | | | | | +1,1-Dichloroethane = 2.8, |
| | | | | | | | +Chloroethane = 6.7 |
| | | | | | | | |
| | 9/14/1994 | 200,000, b,c | NA | NA | NA | NA | **Benzene = ND < 15 |
| | | | | | | | <pre>**Toluene = 170, **Ethylbenzene = 400,</pre> |
| | | | | | | | **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 |

TABLE 2 SUMMARY OF GROUNDWATER SAMPLE RESULTS

| | | | ary of Laborato | | | | |
|----------|------------------------|----------------|-----------------|----------------|----------|-------------------------|--|
| l Number | Sample Date | TPH-G | TPH-SS | TPH-D | TPH-MO | TPH-BO | VOCs by 8260B |
| | 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 | 12/1/2009 9/18/2008 | ND<50 ND<50 | ND<50 ND<50 | 63, e ND<50 | NA NA | 120, e ND<100 | ND ND, except: Bromoform = 0.57, Chloroform = 1.3 |
| MW4 | 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.

* = 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 analysisby EPA Method 8260..

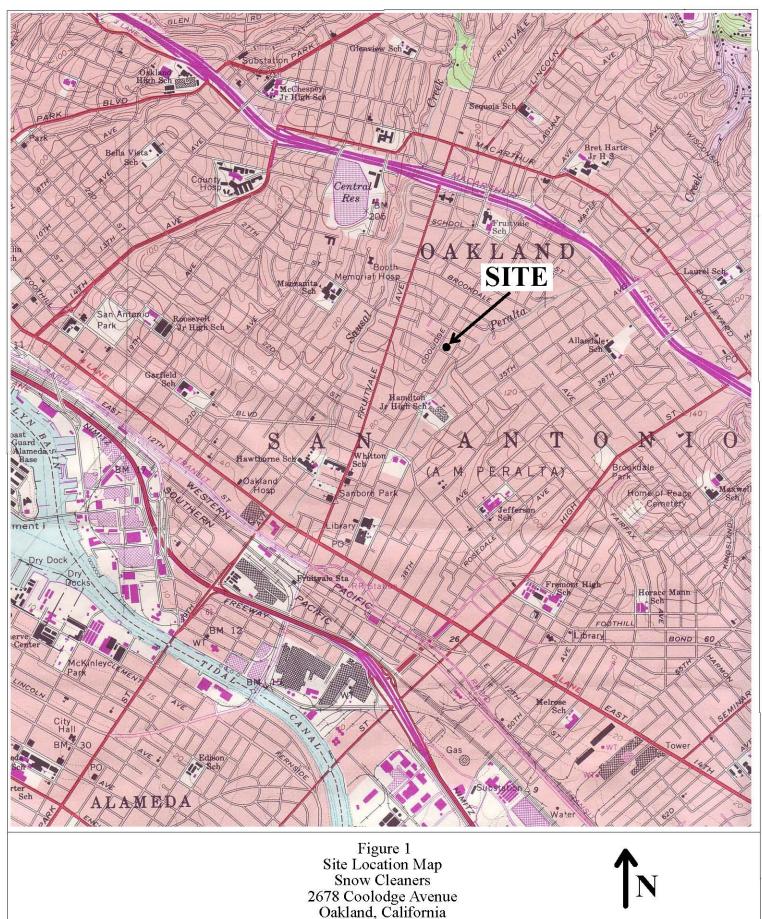
++ = Well Development Water stored at site in drum; submitted to lab on January 28, 1994. '

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 (μ g/L), unless otherwise noted.

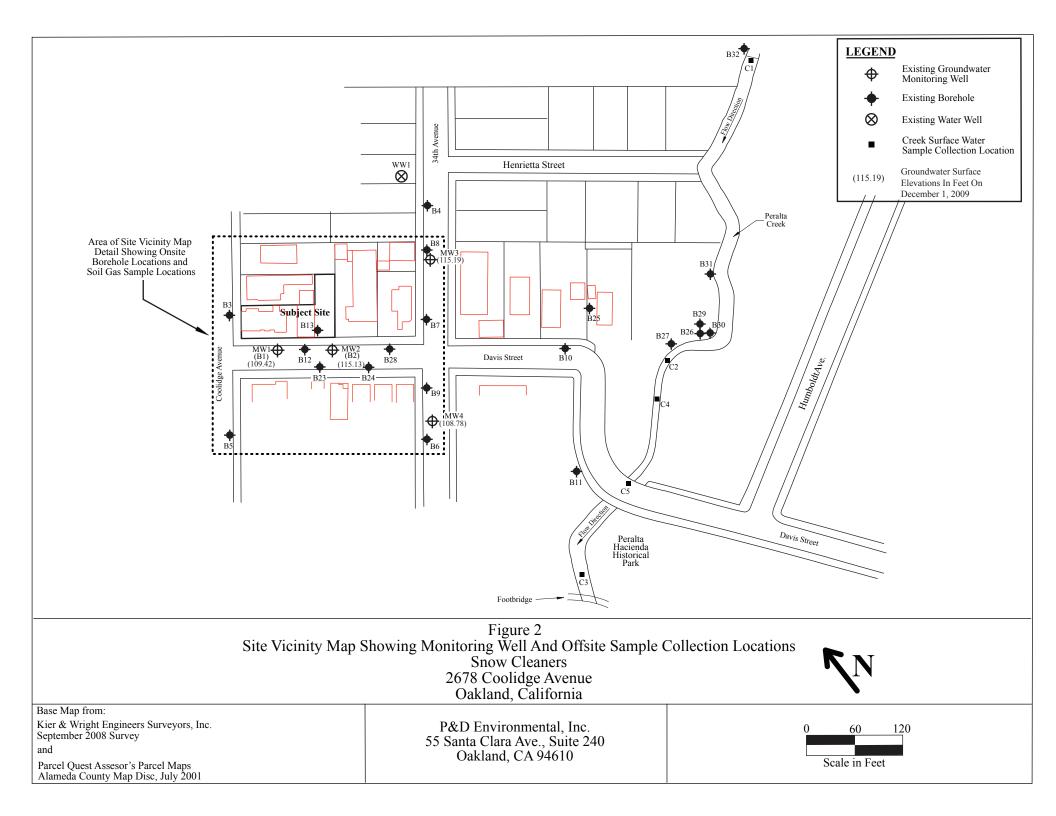
FIGURES



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 1,000 2,000

Scale In Feet



WELL MONITORING AND PURGE DATA SHEETS

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEB

| Site Name | Show Cleaners |
|------------|-----------------------|
| Job No | 0798 |
| TOC to Wat | er (ft.) <u>23.36</u> |
| Well Depth | (tt.) 44.5 |
| Well Diame | ter?'' (0,16) |
| Gal./Casin | g vol. 3.4 |
| | 3001= 10.2 |

| SHEBT | |
|--------------|----------------------------------|
| Well No. / | 1W-1 |
| Date 12/ | 1/09 |
| Sheen |) |
| Free Produc | t Thickness_Ø |
| | ection Method |
| TEMPERATURE | ELECTRICAL CONDUCTIVITY US/CM |
| 19:4 | 608 |
| 19.0 | $\frac{647}{747}$ |
| 19.0 | 676 |
| 18.9 | 631 |
| 189 | 604 |
| 189 | 597 |
| 18.9 | 579 |
| 18.4 | 557 |
| 18.6 | 554 |
| | |
| | |
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| | |
| | |
| | |
| | |
| | |
| | |
| sample time | => 1250hrs |

GAL. PURGED TIME DH .29 . 1 b . 3 J + ď ት 1 \cap JD 4 2 6.D 5 J ፞፞፞፞፞፞፞፞፞፝፞፝፞፝፞፝ 6.06 7 \cap 04 6. 8 ን J đ 6 b 23 9 7 9. . 36 q 2 0 10.7 241 6.3 10.5 24 3 6. NOTES: No sheen + no odo-

PURGE10.92

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

1

| Well Depth | (fr.) 24.6 | | Pree Prod | uct Thickness |
|------------|--|------|--|--|
| Well Diame | ster <u>4" (0,64</u> | 6) | | llection Method |
| Gal./Casir | - | | Desp | osable bailer |
| TIME | Jud = 12.0 GAL. PURGED | н | TEMPERATURE | ELECTRICAL CONDUCTIVITY |
| 1308 | 1.3 | 6.32 | 20.5 | 650 |
| 1310 | 2.07 | 6.27 | 20.4 | 635 |
| 1312 | 4.0 | 6.29 | 20.4 | 642 |
| 1314 | _5:3 | 6.29 | 20.4 | 640 |
| 1316 | 6.7 | 6,31 | 20.4 | 636 |
| 1318 | 8.0 | 6.32 | 20.4 | 638 |
| 1320 | 9.3 | 6.32 | 20.3 | 635 |
| 1322 | 10.7 | 6.32 | 51-20-22.3 | 640 |
| 1529 | 19.0 | 6.55 | 20.0 | 633 |
| | | | and an ability of the state of the | and a star and a star of the |
| <u>. 4</u> | | | | |
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| | ····· | | ander Minika in Angly in the second secon | ча <u>ници и на дока у про 1977 г. н. ст. ст. ст. ст. ст. ст. ст.</u> |
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PURGE10.92

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

| site Name Snow Cleaner | | |
|--|--|----|
| JOB NO. 0298 | Date 12/1/09 | |
| TOC to Water (ft.) 21.1 | 6 sheen No | |
| Well Depth (ft.) 35.4 | Pree Product Thickness | |
| Well Diameter 2" (0 | | |
| Gal./Casing Vol. 2.3 | Disposable bailer- | |
| 3001=1 | | |
| TIME GAL. PURGED | DH TEMPERATURE CONDUCTIVITY | |
| 1440 0.8 | 7.00 18.9 348 | |
| 1992 1.5 | 6.95 18.7 367 | |
| 1446 2.3 | 6.83 18.6 407 | |
| 1448 3.1 | 6.83 18.6 428 | |
| 1451 3.8 | 6.86 18.5 461 | |
| 1454 4.6 | 6.90 18.5 487 well | |
| 1458 - 5.4 | 6.89 18.4 511 dewate~ | 3? |
| 1507 6th | Will dewater u @ ~ 6.0gallons | - |
| La sic | | |
| | | |
| | | |
| •••••••••••••••••••••••••••••••••••••• | | |
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| | anne a tha ann an Anna ann | |
| | | |
| NOTES: Started out | mod-strong sulfur odo-+ decreased through o. + Dur, | |
| No phe ada | Mod-strong sulfur odo-+ decreased throughout purge | |
| PURGE10.92 | / www. | |

PLD ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

| site Name <u>Show Cleaners</u> | Site Name |
|---|------------|
| JOB NO. 0298 | JOD NO |
| TOC to Water (ft.) 25.31 | TOC to Wat |
| Well Depth (ft.) 37.2 | |
| Well Diameter $\frac{\lambda''(0,16)}{\lambda''(0,16)}$ | Well Diame |
| Gal./Casing Vol. 7.0 | Gal./Casin |
| 3401=6.0 | |

Well No. MW-4 Date 12/1/69 Sheen No

Free Product Thickness

Sample Collection Method____

Disposable bailer VITY_ps/cm

.....

| | 3001=6.0 | | °C | BLECTRICA |
|-------------|--------------|--|--|-----------|
| TIME | GAL. PURGED | DH | TEMPERATURE | CONDUCTIV |
| 1257 | 0.6 | 7.42 | 19.3 | 344 |
| 1259 | 1.3 | 6.80 | 19.1 | 395 |
| 1401 | 2.0 | 6.51 | 19.0 | 451 |
| 1403 | 2.6 | 6.50 | 19.0 | 463 |
| | | and the second division of the second divisio | | 1178 |
| 1405 | 3.3 | 6.50 | 18.8 | 478 |
| 1407 | 4,0 | 6.51 | 18.8 | 488 |
| 1410 | 4.6 | 6,51 | 18.7 | 480 |
| 1412 | <u> </u> | 6.50 | 18,7 | 476 |
| 1415 | | 6.51 | 18,7 | 475 |
| | <u></u> b. U | 0.)[| | |
| | | | | |
| | | | | |
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| <u> </u> | | | | |
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| NOTES: | No sheen | + No oder | - | |
| | | | e time=) 1420 |)hrc |
| | | <u> </u> | 11/2/1/1 | |

PURGEI0.92

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

| | Analytical, Inc. Ouality Counts" | Web: www.m | llow Pass Road, Pittsburg, ccampbell.com E-mail: m one: 877-252-9262 Fax: | ain@mccampbell.com |
|-------------------------|--|---------------|---|--------------------|
| P & D Environmental | Client Project ID: #0298; | Snow Cleaners | Date Sampled: | 12/01/09 |
| 55 Santa Clara, Ste.240 | Oakland | | Date Received: | 12/02/09 |
| Oakland, CA 94610 | Client Contact: Steve Car | mack | Date Reported: | 12/08/09 |
| Oanana, CA 94010 | Client P.O.: | | Date Completed: | 12/04/09 |

WorkOrder: 0912064

December 08, 2009

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

| San | VIRONMENTAL, Its Clars Ave, Suite 240 Dakland, CA 94610 (510) 658-6916 | INC. | | | CHAIN OF CL | ISTOD | DY I | RECO | RD | 00 | 9/2064 Page 1 of L |
|-----|---|-----------|-------------------|---------|--------------------------------|-------------|--------------------|--|-----------------|--------------|-----------------------|
| | PROJECT NUMBER: | | | Sno | NAME: W Cleaners Oakland | | Es). | | $\left \right $ | | |
| | SAMPLED BY: (PRI Steve Car | | SIGNAT | URE) | h | NUMBER OF | H Musical | | | PRESERVATIVE | REMARKS |
| | SAMPLE NUMBER | DATE | TIME | TYPE | SAMPLE LOCATION | ₹ <u></u> 0 | A | 171 | 11 | a | |
| + | MW-1 | 12/1/09 | 1250 | Hao | | 7 | X | X | | CEN | ermal Turner and |
| + | MW-2 MW-3 | | 1520 | | | 7 | X | | ++ | ++ | 1-10 |
| + | MW-4 | V | 1420 | ¥ | | 7 | X | X | | | |
| | | | | | | + | | | \ddagger | _ | |
| ł | | | | | | | | | | | |
| t | ICE / 1"2-00 | (| | | | | + | +++ | ++ | | |
| | GOOD CONDITIO HEAD SPACE AE DECHLORINATE | SENT V | CONTA | WEDO | | | | | | | |
| ŀ | PRESERVATION | VOAS 1040 | A COLUMN A COLUMN | RVED IN | LAB | | $\left + \right $ | +++ | ++ | | |
| Ē | | | | - | 2 | | ++ | | ++ | | |
| | RELINQUISHED BY: | SICNATURE | | BATE | TIME RECEIVED BY: (SIGNATE | RE) | TOTAL M | 2. OF SAMPLES SHPHENT) 1. OF CONTAINED SHPHENT) | 4 | LABORA | mobell Analytic |
| F | RELINQUISHED BY: (| SIGNATURE | 17 | DATE | TIME RECEIVED BY: (SIGNATU | RÉ) | | RATORY CO | INTACT: | LABORA | TORY PHONE NUMB |
| 4 | RELINQUISHED BY: (| SIGNATURE |) / | DATE | TIME RECEIVED FOR LABORAT | ORY BY: | 17 | SAMPLE | ANALY | | EST SHEET |
| | Results and billing to P&D Environmental, lab@pdenviro.com | x Inc. | | | REMARKS: | All 60 | tles | | | | |



1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

| (925) 252-9262 | | | | Wor | kOrder | : 0912 | 064 | C | lientCod | le: PDEO | | | | |
|---|--|---------|-----------------|--------|---|--------|----------|----------|----------------|---|-------------|--------|------|------|
| | WaterTrax | WriteOn | EDF | Exce | el | Fax | Ŀ | 🖌 Email | | HardCopy | Thire | dParty | □ 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 d Date Received: 12/02/2 Date Printed: 12/02/2 | | | | |
| Lab ID Client ID | | Matrix | Collection Date | lold 1 | 2 | 3 | Req 4 | uested 5 | Tests (Se 6 | ee legend 7 8 | below) 9 | 10 | 11 | 12 |

| 0912064-001 | MW-1 | Water | 12/1/2009 12:50 | В | А | А | | | | | |
|-------------|------|-------|-----------------|---|---|---|--|--|--|--|--|
| 0912064-002 | MW-2 | Water | 12/1/2009 13:35 | В | А | А | | | | | |
| 0912064-003 | MW-3 | Water | 12/1/2009 15:20 | В | А | Α | | | | | |
| 0912064-004 | MW-4 | Water | 12/1/2009 14:20 | В | Α | A | | | | | |

Test Legend:

| 1 | 8260B_W | 2 | G- |
|----|---------|----|----|
| 6 | | 7 | |
| 11 | | 12 | |

| 2 | G-MBTEX_W |
|----|-----------|
| 7 | |
| 12 | |

| 3 | TPH_W | |
|---|-------|--|
| 8 | | |

| 4 | |
|---|--|
| • | |
| 9 | |

| 5 | |
|----|--|
| 10 | |

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

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.

Prepared by: Melissa Valles



"When Ouality Counts"

Sample Receipt Checklist

| Client Name: | P & D Environme | ntal | | | Date a | nd Time Received: | 12/2/2009 | 4:32:34 PM |
|-------------------|-------------------------|---------------------|---------------|--------------|---------------|-------------------------|-------------|----------------|
| Project Name: | #0298; Snow Cle | aners Oakla | nd | | Check | list completed and re | eviewed by: | Melissa Valles |
| WorkOrder N°: | 0912064 | Matrix <u>Water</u> | | | Carrier | : <u>Rob Pringle (M</u> | AI Courier) | |
| | | 9 | Chain of Cu | stody (C | COC) Informa | tion | | |
| Chain of custody | present? | | Yes | ✓ | No 🗆 | | | |
| Chain of custody | signed when relinqui | shed and receiv | ved? Yes | ✓ | No 🗆 | | | |
| Chain of custody | agrees with sample I | abels? | Yes | ✓ | No 🗌 | | | |
| Sample IDs noted | by Client on COC? | | Yes | \checkmark | No 🗆 | | | |
| Date and Time of | collection noted by Cl | ient on COC? | Yes | \checkmark | No 🗆 | | | |
| Sampler's name r | noted on COC? | | Yes | ✓ | No 🗆 | | | |
| | | | <u>Sample</u> | Receipt | Information | | | |
| Custody seals int | tact on shipping conta | iner/cooler? | Yes | | No 🗆 | | NA 🔽 | |
| Shipping containe | er/cooler in good cond | lition? | Yes | ✓ | No 🗆 | | | |
| Samples in prope | er containers/bottles? | | Yes | \checkmark | No 🗆 | | | |
| Sample containe | rs intact? | | Yes | \checkmark | No 🗆 | | | |
| Sufficient sample | e volume for indicated | test? | Yes | ✓ | No 🗌 | | | |
| | | <u>Sample F</u> | Preservation | n and Ho | old Time (HT) | Information | | |
| All samples recei | ived within holding tim | e? | Yes | ✓ | No 🗌 | | | |
| Container/Temp E | Blank temperature | | Coole | er Temp: | 2.6°C | | NA 🗆 | |
| Water - VOA vial | ls have zero headspa | ce / no bubbles | ? Yes | ✓ | No 🗆 | No VOA vials submi | itted 🗆 | |
| Sample labels ch | necked for correct pre | servation? | Yes | ✓ | No 🗌 | | | |
| Metal - pH accep | table upon receipt (p⊢ | 1<2)? | Yes | | No 🗆 | | NA 🗹 | |
| Samples Receive | ed on Ice? | | Yes | ✓ | No 🗆 | | | |
| | | (Ic | e Type: WE | TICE |) | | | |
| * NOTE: If the "N | No" box is checked, se | ee comments b | elow. | | | | | |
| | | | | | | | | |

Client contacted:

Date contacted:

Contacted by:

Comments:

| McCampbell A | Analytical, In ality Counts" | <u>ıc.</u> | | Web: www.mccamp | Pass Road, Pittsburg, C bell.com E-mail: mair 877-252-9262 Fax: 9 | n@mccampbell.com | | | | |
|---|---------------------------------|---|-----------|--|---|---|-------------------|--------------------|--|--|
| P & D Environmental | | Project II | D: #029 | 98; Snow | 12/01/09 | | | | | |
| | | s Öakla | | | | Date Sampled: 12/01/09 Date Received: 12/02/09 | | | | |
| 55 Santa Clara, Ste.240 | Climat | 7 | <u>C(</u> | 7 | | | | | | |
| | Client | _ontact: | Steve | Carmack | Date Extracted: | | | | | |
| Oakland, CA 94610 | Client F | 2.0.: | | | Date Analyzed | 12/04/09 | | | | |
| | Volatile Organi | cs by P& | &T and | GC/MS (Basic Ta | rget List)* | | | | | |
| Extraction Method SW5030B | 0 | · | | od SW8260B | C , | Work Order: 0912 | 064 | | | |
| Lab ID | | | | 0912064 | 1-001B | | | | | |
| Client ID | | | | 0)1200- | | | | | | |
| Matrix | | | | | | | | | | |
| Compound | Concentration * | mcentration * DF Reporting Limit Compound | | | | | DF | Reporting Limit | | |
| Acetone | ND | 1.0 | 10 | tert-Amyl methyl e | ther (TAME) | ND | 1.0 | 0.5 | | |
| Benzene | ND | 1.0 | 0.5 | Bromobenzene | | ND | 1.0 | 0.5 | | |
| Bromochloromethane | ND | 1.0 | 0.5 | Bromodichlorometh | ane | 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 (TB | A) | 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 | | 0.71 | 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 | | ND | 1.0 | 0.5 | | |
| Dibromomethane | ND | 1.0 | 0.5 | 1,2-Dichlorobenzen | | ND | 1.0 | 0.5 | | |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.5 | 1,4-Dichlorobenzen | | 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-Dichloroe | | ND | 1.0 | 0.5 | | |
| 1,2-Dichloropropane | ND | 1.0 | 0.5 | 1,3-Dichloropropan | | ND | 1.0 | 0.5 | | |
| 2,2-Dichloropropane | ND | 1.0 | 0.5 | 1,1-Dichloropropen | | ND | 1.0 | 0.5 | | |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.5 | trans-1,3-Dichlorop | oropene | 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 2-Hexanone | ND ND | <u>1.0</u> 1.0 | 0.5 | Hexachloroethane Isopropylbenzene | | ND ND | <u>1.0</u> 1.0 | 0.5 | | |
| | | 1.0 | | | | ND | 1.0 | | | |
| 4-Isopropyl toluene Methylene chloride | ND ND | 1.0 | 0.5 | Methyl-t-butyl ethe 4-Methyl-2-pentance | | ND | 1.0 | 0.5 | | |
| Naphthalene | ND | 1.0 | 0.5 | n-Propyl benzene | Dife (MIDK) | ND | 1.0 | 0.5 | | |
| Styrene | ND | 1.0 | 0.5 | 1,1,1,2-Tetrachloro | athana | 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-Trichlorobenz | zene | ND | 1.0 | 0.5 | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.5 | 1,1,1-Trichloroetha | | 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-Trichloroprop | oane | ND | 1.0 | 0.5 | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.5 | 1,3,5-Trimethylben | | ND | 1.0 | 0.5 | | |
| Vinvl Chloride | ND | 1.0 | 0.5 | Xvlenes | | ND | 1.0 | 0.5 | | |
| | | | | Recoveries (%) | | | | | | |
| %SS1: | 9 | | | %SS2: | | 10 | 6 | | | |
| %\$\$31. %\$\$3: | 9 | | | 70002. | | 10 | 5 | | | |
| Comments: | | | | | | | | | | |

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.



| WcCampbell | Analytical, In ality Counts" | <u>nc.</u> | | Web: www.mccam | v Pass Road, Pittsburg, C pbell.com E-mail: main : 877-252-9262 Fax: 9 | n@mccampbell.com | | | | |
|--------------------------------------|---------------------------------|--|------------|---|--|-------------------------|-------------------|----------|--|--|
| P & D Environmental | Client I | ent Project ID: #0298; Snow Date Sampled | | | | 12/01/09 | | | | |
| | Cleaner | rs Oaklaı | nd | | Date Received: | Date Received: 12/02/09 | | | | |
| 55 Santa Clara, Ste.240 | Client | Contact: | Steve (| Carmack | Date Extracted: | 12/04/09 | | | | |
| Oakland, CA 94610 | Client H | | Store | | Date Analyzed | 12/04/09 | | | | |
| , | | | | | | 12/04/09 | | | | |
| | Volatile Organi | - | | GC/MS (Basic Ta | rget List)* | | | | | |
| Extraction Method SW5030B | | Analy | tical Meth | od SW8260B | | Work Order: 0912 | 064 | | | |
| Lab ID | | | | | 4-002B | | | | | |
| Client ID | | | | | V-2 | | | | | |
| Matrix | | | Reporting | Wa | iter | <u> </u> | | Reportin | | |
| Compound | Concentration * | DF | Limit | Compou | ind | Concentration * | DF | Limit | | |
| Acetone | ND<1000 | 100 | 10 | tert-Amyl methyl | ether (TAME) | ND<50 | 100 | 0.5 | | |
| Benzene | ND<50 | 100 | 0.5 | Bromobenzene | 1 | ND<50 | 100 | 0.5 | | |
| Bromochloromethane | ND<50 | 100 | 0.5 | Bromodichloromet | hane | 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 (TH | BA) | 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 | Dibromochloromet | | ND<50 | 100 | 0.5 | | |
| 1,2-Dibromo-3-chloropropane | ND<20 | 100 | 0.2 | 1,2-Dibromoethane | | ND<50 | 100 | 0.5 | | |
| Dibromomethane | ND<50 | 100 | 0.5 | 1,2-Dichlorobenzer | | ND<50 | 100 | 0.5 | | |
| 1,3-Dichlorobenzene | ND<50 | 100 | 0.5 | 1,4-Dichlorobenzer | | ND<50 | 100 | 0.5 | | |
| Dichlorodifluoromethane | ND<50 | 100 | 0.5 | 1,1-Dichloroethan | | 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 | 1800 | 100 | 0.5 | trans-1,2-Dichloro | | ND<50 | 100 | 0.5 | | |
| 1,2-Dichloropropane | ND<50 | 100 | 0.5 | 1,3-Dichloropropa | | ND<50 | 100 | 0.5 | | |
| 2,2-Dichloropropane | ND<50 | 100 | 0.5 | 1,1-Dichloroprope | | ND<50 | 100 | 0.5 | | |
| cis-1,3-Dichloropropene | ND<50 | 100 | 0.5 | trans-1,3-Dichloro | propene | 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 eth | | ND<50 | 100 | 0.5 | | |
| Methylene chloride | ND<50 | 100 | 0.5 | 4-Methyl-2-pentan | one (MIBK) | ND<50 | 100 | 0.5 | | |
| Naphthalene | ND<50 | 100 | 0.5 | n-Propyl benzene | .1 | ND<50 | 100 | 0.5 | | |
| Styrene | ND<50 | 100 | 0.5 | 1,1,1,2-Tetrachlor | | ND<50 | 100 | 0.5 | | |
| 1,1,2,2-Tetrachloroethane Toluene | ND<50 ND<50 | 100 100 | 0.5 | Tetrachloroethene 1,2,3-Trichloroben | | ND<50 ND<50 | <u>100</u> 100 | 0.5 | | |
| 1,2,4-Trichlorobenzene | ND<50 | 100 | 0.5 | 1.1.1-Trichloroeth | | 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-Trichloropro | pane | ND<50 | 100 | 0.5 | | |
| 1,2,4-Trimethylbenzene | 140 | 100 | 0.5 | 1.3.5-Trimethylber | | ND<50 | 100 | 0.5 | | |
| Vinvl Chloride | 73 | 100 | 0.5 | Xvlenes | | ND<50 | 100 | 0.5 | | |
| | . 12 | | | Recoveries (%) | | | | | | |
| 0/ 551. | 17 | | - Spare I | %SS2: | | 10 | 5 | | | |
| %SS1: %SS3: | | <u>)2</u> 2 | | %332: | | 1 10 | 3 | | | |
| %SS3: Comments: b6 | 9 | 4 | | 1 | | | | | | |

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.

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



| McCampbell A | Analytical, In | <u>ıc.</u> | | Web: www.mccamp | Pass Road, Pittsburg, C bell.com E-mail: main 877-252-9262 Fax: 9 | n@mccampbell.com | | |
|-------------------------------|---------------------------------------|-------------------|------------|---|---|------------------|-------------------|--------------------|
| P & D Environmental | | Project II | D: #029 | 98; Snow | 12/01/09 | | | |
| | | s Öakla | | | Date Sampled: Date Received: | 12/02/09 | | |
| 55 Santa Clara, Ste.240 | | | <u> </u> | ~ 1 | | | | |
| | Client C | Contact: | Steve (| Carmack | Date Extracted: | 12/04/09 | | |
| Oakland, CA 94610 | Client P | 2.0.: | | | Date Analyzed | 12/04/09 | | |
| | Volatile Organi | cs by P& | &T and | GC/MS (Basic Ta | rget List)* | | | |
| Extraction Method SW5030B | · · · · · · · · · · · · · · · · · · · | · | | od SW8260B | -g) | Work Order: 0912 | 064 | |
| Lab ID | | | lieur meth | 0912064 | 4 002B | | | |
| Client ID | | | | 0912084 MW | | | | |
| Matrix | | | | Wa | | | | |
| Compound | Concentration * | Reporting | | | | | | Reporting Limit |
| Acetone | ND | 1.0 | 10 | tert-Amyl methyl e | ther (TAME) | ND | 1.0 | 0.5 |
| Benzene | ND | 1.0 | 0.5 | Bromobenzene | | ND | 1.0 | 0.5 |
| Bromochloromethane | ND | 1.0 | 0.5 | Bromodichlorometh | nane | 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 (TB | A) | 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 | | ND | 1.0 | 0.5 |
| Dibromomethane | ND | 1.0 | 0.5 | 1,2-Dichlorobenzen | e | ND | 1.0 | 0.5 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.5 | 1,4-Dichlorobenzen | | 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-Dichloroe | | ND | 1.0 | 0.5 |
| 1,2-Dichloropropane | ND | 1.0 | 0.5 | 1,3-Dichloropropan | | ND | 1.0 | 0.5 |
| 2,2-Dichloropropane | ND | 1.0 | 0.5 | 1,1-Dichloropropen | | ND | 1.0 | 0.5 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.5 | trans-1,3-Dichlorop | propene | 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 ethe | | ND | 1.0 | 0.5 |
| Methylene chloride | ND | 1.0 | 0.5 | 4-Methyl-2-pentane | JIE (MIDK) | ND ND | 1.0 | 0.5 |
| Naphthalene Styrene | ND ND | <u>1.0</u> 1.0 | 0.5 | n-Propyl benzene 1,1,1,2-Tetrachloro | athana | ND ND | <u>1.0</u> 1.0 | 0.5 |
| 1.1.2.2-Tetrachloroethane | ND | 1.0 | | Tetrachloroethene | | ND ND | | |
| Toluene | ND | 1.0 | 0.5 | 1,2,3-Trichlorobenz | zene | ND ND | 1.0 | 0.5 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.5 | 1,1,1-Trichloroetha | | 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-Trichloroprop | oane | ND | 1.0 | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.5 | 1.3.5-Trimethylben | | ND | 1.0 | 0.5 |
| Vinvl Chloride | ND | 1.0 | 0.5 | Xvlenes | | ND | 1.0 | 0.5 |
| | | | | Recoveries (%) | | | | |
| %SS1: | 10 | | | %SS2: | | 10 | 4 | |
| %\$\$31. %\$\$3: | 9 | | | /0002. | | 10 | | |
| Comments: | | | | | | | | |

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.



| McCampbell | Analytical, In ality Counts" | <u>ıc.</u> | | Web: www.mccamp | Pass Road, Pittsburg, C bell.com E-mail: main 877-252-9262 Fax: 9 | n@mccampbell.com | | |
|---|---------------------------------|-------------------|--------------------|--|---|------------------|-------------------|--------------------|
| P & D Environmental | | Project II | D: #029 | 98; Snow | 12/01/09 | | | |
| | | s Oakla | | -, | Date Sampled: | | | |
| 55 Santa Clara, Ste.240 | | | | | Date Received: | | | |
| | Client 0 | Contact: | Steve (| Carmack | Date Extracted: | 12/04/09 | | |
| Oakland, CA 94610 | Client F | P.O.: | | | Date Analyzed | 12/04/09 | | |
| | Volatile Organi | cs by P& | &T and | GC/MS (Basic Ta | rget List)* | | | |
| Extraction Method SW5030B | 8 | • | | od SW8260B | 0 | Work Order: 0912 | 064 | |
| Lab ID | | | | 0912064 | 4-004B | | | |
| Client ID | | | | MW | | | | |
| Matrix | | | | Wat | | | | |
| Compound | Concentration * | DF | Reporting Limit | Compour | | Concentration * | DF | Reporting Limit |
| Acetone | ND | 1.0 | 10 | tert-Amyl methyl e | ther (TAME) | ND | 1.0 | 0.5 |
| Benzene | ND | 1.0 | 0.5 | Bromobenzene | | ND | 1.0 | 0.5 |
| Bromochloromethane | ND | 1.0 | 0.5 | Bromodichlorometh | ane | 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 (TB | A) | 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 | | 0.97 | 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-Dichlorobenzen | | ND | 1.0 | 0.5 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.5 | 1,4-Dichlorobenzen | | 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 | 5.8 | 1.0 | 0.5 | trans-1,2-Dichloroe | | ND | 1.0 | 0.5 |
| 1,2-Dichloropropane | ND | 1.0 | 0.5 | 1,3-Dichloropropan | | ND | 1.0 | 0.5 |
| 2,2-Dichloropropane | ND | 1.0 | 0.5 | 1,1-Dichloropropen | | ND | 1.0 | 0.5 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.5 | trans-1,3-Dichlorop | ropene | 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 | <u>1.0</u> 1.0 | 0.5 | Hexachloroethane | | ND ND | 1.0 | 0.5 |
| 2-Hexanone | ND | 1.0 | 0.5 | Isopropylbenzene | | 1 1 | 1.0 | 0.5 |
| 4-Isopropyl toluene Methylene chloride | ND ND | 1.0 | 0.5 | Methyl-t-butyl ethe 4-Methyl-2-pentance | | ND ND | <u>1.0</u> 1.0 | 0.5 |
| | | | | | Dile (MIDK) | ND | | |
| Naphthalene Styrene | ND ND | <u>1.0</u> 1.0 | 0.5 | n-Propyl benzene 1,1,1,2-Tetrachloro | ethane | ND ND | <u>1.0</u> 1.0 | 0.5 |
| 1.1.2.2-Tetrachloroethane | ND | 1.0 | 0.5 | Tetrachloroethene | cinalle | ND ND | | |
| Toluene | ND ND | 1.0 | 0.5 | 1,2,3-Trichlorobenz | ene | ND ND | <u>1.0</u> 1.0 | 0.5 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.5 | 1.1.1-Trichloroetha | | 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-Trichloroprop | Dane | ND | 1.0 | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.5 | 1,3,5-Trimethylben | zene | ND | 1.0 | 0.5 |
| Vinvl Chloride | ND | 1.0 | 0.5 | Xvlenes | | ND | 1.0 | 0.5 |
| | | Sur | rogate F | Recoveries (%) | | | | |
| %SS1: | 10 |)1 | | %SS2: | | 10 | 8 | |
| %SS3: | 10 | | | | | | | |
| Comments: | | | | | | | | |

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.



| | McCampbell Analyt | | 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 Er | nvironmental | Client Project ID: | | Date Sampled: 12/01/ | Date Sampled: 12/01/09 | | | | | |
| 55 Santa I | Clara, Ste.240 | Cleaners Oakland | | Date Received: 12/02/ | 09 | | | | | |
| 55 Sana | Clara, Su.240 | Client Contact: S | teve Carmack | Date Extracted: 12/03/ | 09 | | | | | |
| Oakland, | CA 94610 | Client P.O.: | | Date Analyzed: 12/03/ | 09 | | | | | |
| | Gasoline Range(C6-C12), Stode | - | C9-C12) Volatile Hy alytical methods: SW8021 | | | Solvent [*] Order: 0 | | | | |
| Lab ID | Client ID | Matrix | TPH(g) | TPH(ss) | DF | % SS | Comment | | | |
| 001A | MW-1 | w | ND | ND | 1 | 96 | | | | |
| 002A | MW-2 | W | 34,000 | 47,000 | 20 | 116 | d5,b6 | | | |
| 003A | MW-3 | W | ND | ND | 1 | 97 | | | | |
| 004A | MW-4 | W | ND | ND | 1 | 99 | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | Reporting Limit for DF =1; | W | 50 | 50 | | μg/I | | | | |
| Ν | D means not detected at or above the reporting limit | S | NA | NA | | NA | | | | |

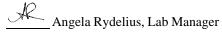
* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

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 McCampbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is presentd5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

DHS ELAP Certification 1644



| | Campbell Analy "When Ouality Count | | Inc. | | 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 Environ | mental | | | ID: #0 | D: #0298; Snow Cleaners Date Sampled: | | | 12/01/ | 12/01/09 | | | |
| 55 Santa Clara, Ste.240 | | | and | | | | Date Received: | 12/02/ | 09 | | | |
| 55 Santa Clara, | Clier | t Contact | t: Stev | ve Carmack | | Date Extracted: | 12/02/ | 09 | | | | |
| Oakland, CA 94 | 610 | t P.O.: | | | | Date Analyzed: | 12/02/ | 09-12/0 | 3/09 | | | |
| | | To | tal Extrac | ctable P | etroleum Hydrod | carbo | ns* | | | | | |
| Extraction method: | SW3510C | | Analytica | al methods | : SW8015B | | | W | ork Order: | 0912064 | | |
| Lab ID | b ID Client ID Matrix | | | Т | PH-Diesel (C10-C23) | Т | PH-Bunker Oil (C10-C36) | DF | % SS | Comments | | |
| 0912064-001A | MW-1 | | W | | ND | | ND | 1 | 96 | | | |
| 0912064-002A | MW-2 | | W | | 74,000 | 91,000 | | 20 | 81 | e11,e2,e7,b6 | | |
| 0912064-003A | MW-3 | | W | | 63 | 120 | | 1 | 97 | e2 | | |
| 0912064-004A MW-4 | | MW-4 | | | ND | ND | | 1 | 96 | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

| Reporting Limit for $DF = 1$; | W | 50 | 100 | μg/L |
|--|---|----|-----|-------|
| ND means not detected at or above the reporting limit | S | NA | NA | mg/Kg |

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

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 McCampbell Analytical is not responsible for their interpretation:

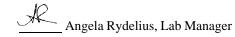
b6) lighter than water immiscible sheen/product is present

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644





McCampbell Analytical, Inc. "When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

| W.O. Sample Matrix: Water | | | QC Matrix: Water | | | | BatchID: 47398 | | | WorkOrder: 0912064 | | |
|-------------------------------|--------|--|------------------|--------|--------|--------|----------------|----------|----------|--------------------|--------------|-----|
| EPA Method SW8260B | Extra | Extraction SW5030B Spiked Sample ID: 0912064-004 | | | | | | | | | 04B | |
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acce | eptance | Criteria (%) | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND | 10 | 79.1 | 81.5 | 2.94 | 78.7 | 78.1 | 0.826 | 70 - 130 | 30 | 70 - 130 | 30 |
| Benzene | ND | 10 | 96.4 | 96.1 | 0.294 | 93.3 | 92.8 | 0.465 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 50 | 75.7 | 84.2 | 10.6 | 77.9 | 77.5 | 0.483 | 70 - 130 | 30 | 70 - 130 | 30 |
| Chlorobenzene | ND | 10 | 101 | 99.2 | 1.58 | 99.8 | 101 | 1.59 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 101 | 104 | 2.94 | 99.5 | 99.5 | 0 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 90.1 | 92 | 2.10 | 88.2 | 86.8 | 1.60 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 10 | 114 | 112 | 1.29 | 111 | 110 | 1.44 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 10 | 91.9 | 95.5 | 3.81 | 89.8 | 89 | 0.891 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 87.2 | 91.6 | 4.88 | 86.3 | 85.5 | 0.947 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 89.1 | 93.6 | 4.88 | 88.1 | 88.6 | 0.631 | 70 - 130 | 30 | 70 - 130 | 30 |
| Toluene | ND | 10 | 104 | 104 | 0 | 98.7 | 99.9 | 1.19 | 70 - 130 | 30 | 70 - 130 | 30 |
| Trichloroethene | ND | 10 | 122 | 121 | 1.02 | 120 | 121 | 0.317 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 101 | 25 | 93 | 95 | 2.54 | 96 | 95 | 0.683 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS2: | 108 | 25 | 101 | 100 | 0.830 | 105 | 105 | 0 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS3: | 102 | 2.5 | 99 | 99 | 0 | 99 | 98 | 1.92 | 70 - 130 | 30 | 70 - 130 | 30 |

BATCH 47398 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|-------------------|--------------|------------------|----------------|------------------|
| 0912064-001B | 12/01/09 12:50 PM | 12/04/09 | 12/04/09 12:42 AM | 0912064-002B | 12/01/09 1:35 PM | 12/04/09 | 12/04/09 1:21 AM |
| 0912064-003B | 12/01/09 3:20 PM | 12/04/09 | 12/04/09 2:43 PM | 0912064-004B | 12/01/09 2:20 PM | 12/04/09 | 12/04/09 2:38 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).

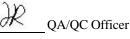
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

QC Matrix: Water W.O. Sample Matrix: Water BatchID: 47396 WorkOrder: 0912064 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 0912064-004A MSD MS-MSD LCS LCSD LCS-LCSD Spiked MS Sample Acceptance Criteria (%) Analyte % RPD MS / MSD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD RPD TPH(btex) 107 2.65 104 103 70 - 130 70 - 130 ND 60 104 1.44 20 20 10 97.2 90.5 MTBE ND 110 12.1 86.4 70 - 130 2.0 70 - 130 20 4.62 Benzene ND 10 102 104 2.49 103 108 4.27 70 - 130 20 70 - 130 20 Toluene ND 10 101 104 2.89 103 107 3.92 70 - 130 2.0 70 - 13020 Ethylbenzene ND 10 99.5 102 2.82 99.9 105 5.21 70 - 130 20 70 - 130 20 Xylenes ND 30 102 105 2.27 102 108 5.86 70 - 130 2.0 70 - 130 20 20 %SS: 99 10 100 104 3.65 105 104 1.31 70 - 130 20 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 47396 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0912064-001A | 12/01/09 12:50 PM | 12/03/09 | 12/03/09 6:19 PM | 0912064-002A | 12/01/09 1:35 PM | 12/03/09 | 12/03/09 5:49 PM |
| 0912064-003A | 12/01/09 3:20 PM | 12/03/09 | 12/03/09 4:50 PM | 0912064-004A | 12/01/09 2:20 PM | 12/03/09 | 12/03/09 5:19 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.





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

| W.O. Sample Matrix: Water QC Matrix: Water | | | | | | | BatchID: 47369 | | | WorkOrder 0912064 | | | |
|--|-----------------|----------------------|----------|-----------|------------|----------|-----------------------|-------------|-------------------------|-------------------|----------|-----|--|
| EPA Method SW8015B | Extra | traction SW3510C | | | | | Spiked Sample ID: N/A | | | | | | |
| Analyte | Sample | Sample Spiked MS MSD | | | MS-MSD | LCS | LCSD LCS-LCSD | | Acceptance Criteria (%) | | | | |
| Analyte | 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 | 101 | 101 | 0 | N/A | N/A | 70 - 130 | 30 | |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 95 | 95 | 0 | N/A | N/A | 70 - 130 | 30 | |
| All target compounds in the Metho NONE | d Blank of this | extraction | batch we | re ND les | s than the | method R | L with th | e following | exceptions: | | | | |

BATCH 47369 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0912064-001A | 12/01/09 12:50 PM | 1 12/02/09 | 12/02/09 9:18 PM | 0912064-002A | 12/01/09 1:35 PM | I 12/02/09 | 12/03/09 3:45 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



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

| W.O. Sample Matrix: Water QC Matrix: Water | | | | | | | BatchID: 47397 | | | WorkOrder 0912064 | | |
|--|--------|-------------------|-----|-----|-----|--------|----------------|-------|-------------------------|-------------------|----------|-----|
| EPA Method SW8015B | | Spiked Sample ID: | | | | | : N/A | | | | | |
| Analyte | Sample | | | | | LCS | LCSD LCS-LCSD | | Acceptance Criteria (%) | | | |
| | µg/L | | | | | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH-Diesel (C10-C23) | N/A | 1000 | N/A | N/A | N/A | 111 | 111 | 0 | N/A | N/A | 70 - 130 | 30 |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 101 | 100 | 0.900 | N/A | N/A | 70 - 130 | 30 |
| All target compounds in the Metho NONE | | | | | | | | | | 1,111 | 70 150 | 50 |

BATCH 47397 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|-------------------|
| 0912064-003A | 12/01/09 3:20 PM | 1 12/02/09 | 12/03/09 3:45 PM | 0912064-004A | 12/01/09 2:20 PM | 12/02/09 | 12/03/09 12:39 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.

DHS ELAP Certification 1644

A QA/QC Officer