SNOW CLEANERS INC.

MAIN OFFICE & PLANT

 38 WEST SONORA ST. STOCKTON, CA 95203
 209 / 547-1454





By Alameda County Environmental Health at 3:54 pm, Jun 11, 2013

May 31, 2013

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 0000367 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 dated May 31, 2013 (document 0298.R17).

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) 818-7669.

Cordially,

Snow Cleaners, Inc. Harold M Turn

Harold Turner President

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

0298.L88

"SERVING THE CLEANING INDUSTRY FOR OVER 90 YEARS"

P&D ENVIRONMENTAL, INC.

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

May 31, 2013 Report 0298.R17

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

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT (JANUARY THROUGH JUNE 2013) ACDEH Case # RO 0000357 Snow Cleaners 2678 Coolidge Avenue Oakland, CA

Dear Mr. Turner:

P&D Environmental Inc. (P&D) has prepared this report documenting the monitoring and sampling of four groundwater monitoring wells designated as MW1 through MW4 located near the subject site, and four groundwater extraction wells designated as DP1 through DP4 located at the subject site. All of the wells in the groundwater monitoring network were monitored and sampled on May 14, 2013. A Site Location Map is attached as Figure 1, and a Site Vicinity Map Detail showing all of the well locations is attached as Figure 2.

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 at offsite locations 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 at offsite locations on September 9, A detailed discussion of the site background and historical monitoring, sampling, and 2008. investigation are provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6). On September 27 through 29, 2010 P&D oversaw the installation of dualphase extraction wells DP1 through DP4, and vapor extraction wells VE1 and VE2. A detailed discussion of well installation is provided in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11). The initial monitoring and sampling of the new wells was performed on October 15, 2010 in conjunction with the periodic monitoring and sampling of the existing offsite groundwater monitoring wells. Documentation of the October 15, 2010 sampling event is provided in P&D's Semi-Annual Groundwater Monitoring and Sampling Report (document 0298.R12) dated December 17, 2010.

In December 2010 a vapor extraction feasibility test was performed at well DP1. During 2011 a discharge permit was obtained from East Bay Municipal Utility District (EBMUD), a pump was

installed in well DP1, and groundwater extraction feasibility testing was performed. Documentation of the vapor extraction and groundwater extraction feasibility testing is provided in P&D's Vapor Extraction and Groundwater Extraction Feasibility Test Report (document 0298.R13) dated January 24, 2012.

A detailed discussion and recommendations regarding the current remedial efforts can be found in P&Ds Semi-Annual Groundwater Monitoring, Sampling and Remediation Status Report (document 0298.R16), dated March 25, 2013. Groundwater pumping from well DP1 was restarted on August 28, 2012. Between August 28, 2012 and March 21, 2013 a total of 82,242 gallons of water were treated using granular activated carbon and discharged to the sanitary sewer. On March 21, 2013 the groundwater treatment system was temporarily shut down for maintenance. The system was not restarted by May 14, 2013.

FIELD ACTIVITIES

P&D personnel monitored offsite groundwater monitoring wells MW1, MW2, MW3, and MW4, and onsite extraction wells DP1, DP2, DP3, and DP4 for depth to water on May 14, 2013 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.

Due to the presence of the pump in well DP1 and a depth to water of greater than 20 feet below the top of the well casing, P&D personnel were unable to measure the depth to water and the depth to free product in well DP1 using a steel tape and water-finding and product-finding paste, and were only able to measure depth to water using an electronic water level indicator. Free product was not encountered during the purging or sampling of well DP1.

Following the measurement of depth to water on May 14, 2013 each of the groundwater monitoring and extraction wells were purged with a peristaltic pump for a minimum of 15 minutes prior to being sampled. Purging was performed at low flow rates to minimize turbulence and minimize the likelihood of sediments in the samples. During purging operations, the field parameters of electrical conductivity, temperature, pH, dissolved oxygen, oxidation reduction potential, turbidity, and depth to water were monitored and recorded on a groundwater monitoring/well purging data sheet. Petroleum hydrocarbon odors were detected on the purge water from wells MW2, DP1, DP2, DP3, and DP4, with the odors described as moderate, strong, moderate to strong, slight to moderate, and slight to moderate, respectively. Petroleum hydrocarbon sheen was not observed on the purge water from any of the wells, with the exception of well DP1. Records of the field parameters measured during well purging are included with this report.

Once the field parameters were observed to stabilize, and the wells had been purged for a minimum of 15 minutes, water samples were collected directly from the discharge tubing from the pump. The samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials that were preserved with hydrochloric acid and sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present. The VOA vials were then labeled and transferred to a cooler with ice, pending transport to the laboratory. Chain of custody procedures were observed for all sample handling.

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.

The site geology and hydrogeology are 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-water-bearing zone in the immediate vicinity of the site northeastwards and eastwards in the vicinity of the former UST pit and then towards the southeast (towards Peralta Creek) to the north of the former UST pit, 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 below the ground surface (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 unconfined A-water-bearing zone to a confined B-water-bearing zone in the area between the northeast side of well DP2 at 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 Table 1 and Figure 2 shows that historically there has been a difference in water table elevation of as much as approximately 4.5 to 5.0 feet between wells DP2 and DP1. The horizontal distance is approximately 18 feet between these two wells, and the location of this change in water table elevation corresponds with an increase in depth to fine-grained materials which are encountered at a depth of approximately 22 to 25 feet bgs between well DP2 and Davis Street to the southwest. Based on the depth of approximately 22 to 25 feet bgs to fine-grained materials between well DP2 and Davis Street to the southwest, the thickness of the water layer overlying the fine-grained materials to the southwest of DP2 ranges seasonally between approximately 1 and 4 feet. The depth to fine-grained materials and the saturated thickness of the water-bearing sediments to the northeast of DP2 is unknown. A discussion of geologic cross sections in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11) identifies a east-northeasterly-trending channel in the surface of the fine-grained materials that drains the area beneath the former UST pit towards the northeast and towards the change in water table elevation of approximately 4.5 to 5.0 feet that has historically been located between wells DP2 and DP1.

Based on water level information available (see Table 1) the historically measured depth to water in the offsite groundwater monitoring wells MW1 through MW4 has ranged from 11.49 to 18.83 feet in well MW2; 16.95 to 22.97 feet in well MW3 (after September 19, 2008); 19.07 to 23.92 feet in well

MW1; and 21.18 to 25.86 feet in well MW4. Review of historical groundwater monitoring well water levels shows that the water levels in wells MW2 and MW3 (screened in the A-water-bearing zone) have been consistently similar, and that the water levels in wells MW1 and MW4 (screened in the B-water-bearing zone) 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 B-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 7.0 feet in wells MW2 and MW3, and approximately 4.0 feet in wells MW1 and MW4. Historical well water levels are shown for August 2009 through June 2012 in Figure 3 to illustrate the relationships of water level changes for wells MW1 through MW4.

Figure 4 shows water level changes in all of the wells for October 2010 through June 2012 (wells DP1 through DP4 were not installed until September 2010). Review of Figure 4 shows the following.

- Water levels in wells MW2, DP2 and DP3 are similar.
- Water levels and changes in water levels in wells DP1 and DP4 are similar (the water level in well DP1 was depressed in June 2011 because of groundwater extraction in well DP1).
- Water levels and changes in water levels in wells MW1 and MW4 are similar.
- Changes in water levels in wells DP2 and DP3 are similar.

Water level monitoring was not performed in any of the wells between the beginning of December 2011 and the end of June 2012. For this reason elevated water levels historically measured in the wells during this time period were not recorded and are not shown on Figures 3 and 4.

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 8015B. In addition, all of the samples were analyzed for Volatile Organic Compounds (VOCs) including Methyl tert-Butyl Ether (MTBE); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. 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.

No analytes were detected in the groundwater sample collected from well MW3, and no analytes were detected in the groundwater samples collected from wells MW1, MW4, and DP4 with the exception of chloroform detected in all three wells at concentrations of 0.95, 1.6, and 1.5 micrograms

per Liter (μ g/L), respectively, cis-1,2-Dichloroethene (cis-1,2-DCE) in well MW4 at a concentration of 15 μ g/L, and tetrachloroethene in well DP4 at a concentration of 0.73 μ g/L.

In the samples collected from wells MW2, DP1, DP2, and DP3, TPH-G was detected at concentrations of 760, 410, 420, and 590 ug/L, respectively; TPH-SS was detected at concentrations of 800, 290, 460, and 630 ug/L, respectively; TPH-D was detected at concentrations of 2,700, 530, 950, and 2,700 ug/L, respectively; and TPH-BO was detected at concentrations of 2,800, 780, 1,000, and 2,800 ug/L, respectively. Review of the laboratory report shows that the laboratory described the TPH-G and TPH-SS results for wells MW2, DP1, DP2, and DP3 as consisting of Stoddard solvent/mineral spirit-range compounds and also as having no recognizable pattern.

The TPH-D and TPH-BO results for wells MW2, DP2 and DP3 are described by the laboratory as consisting of both Stoddard solvent/mineral spirits-range compounds and kerosene or jet fuel-range compounds. The TPH-D and TPH-BO results for well MW2 are also described as consisting of oil-range compounds. The TPH-D and TPH-BO results for well DP1 are described as consisting of Stoddard solvent/mineral spirits-range compounds, oil-range compounds, and diesel-range compounds with no recognizable pattern.

PCE and associated decomposition products were detected in the wells as follows:

- PCE was detected in wells DP1 and DP4 at concentrations of 380 and 0.73 ug/L, respectively.
- Trichlorethene was detected in wells DP1 and DP3 at concentrations of 180 and 0.74 ug/L, respectively.
- Cis-1,2-DCE was detected in wells MW2, MW4, DP1, DP2, and DP3 at concentrations of 520, 15, 150, 11,000, and 22 ug/L, respectively.
- Trans-1,2-dichloroethene was detected in wells MW2 and DP3 at concentrations of 14 and 2.4 ug/L, respectively.
- Vinyl chloride was detected in wells MW2, DP2, and DP3 at concentrations of 60, 2,300, and 25 ug/L, respectively.

Additional petroleum-related volatile organic compounds and chloroform were also detected at various concentrations in different wells (see Table 2).

DISCUSSION AND RECOMMENDATIONS

All of the groundwater monitoring wells and dual phase extraction wells were sampled on May 14, 2013. Petroleum hydrocarbon odors were detected on the purge water from wells MW2, DP1, DP2, DP3, and DP4, and petroleum hydrocarbon sheen was observed on the purge water from well DP1 only.

Although the depth to groundwater could not be measured in well DP1 during the current well sampling event, historically the groundwater surface elevation in well DP2 has been higher than in well DP1. This historical difference in water levels is attributed to the geology of the site. A detailed discussion of the similarities and relationships of water level changes in the different wells is provided above in the geology and hydrogeology section of this report. Based on the geology

identified in boreholes at and near these wells the groundwater drains from the vicinity of the former UST pit and the vicinity of wells DP2, DP3 and MW2 northeastwards towards well DP1. A detailed discussion of the extent of petroleum and HVOCs in groundwater with figures is provided in P&Ds Well Installation Report dated December 2, 2010 (document 0298.R11). A detailed discussion of observations regarding the extent of petroleum hydrocarbons and HVOCs in groundwater is also provided in P&D's December 17, 2010 Groundwater Monitoring and Sampling Report (document 0298.R12). Documentation of site remediation performed in accordance with recommendations set forth in P&D's Vapor Extraction and Groundwater Extraction Feasibility Test Report were also provided in P&D's semi-annual well sampling report (document 0298.R16) dated March 25, 2013.

Review of the most recent water quality results shows that all of the detected contaminant concentrations have decreased with the following exceptions TPH-D and TPH-BO in well MW2, chloroform in well MW4, vinyl chloride in well DP2, and naphthalene in well DP3, which increased. The decrease in TPH and VOC concentrations may be related to the groundwater extraction that was performed at well DP1 through March 21, 2013.

Based on the sample results, P&D recommends that all of the groundwater monitoring and extraction wells continue to be sampled on a semi-annual basis. P&D also recommends that the groundwater extraction system be re-started and that the soil vapor extraction system be started once permit approval is provided by the BAAQMD.

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, Inc. 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.

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: 12/31/13

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 Detail Showing Well Locations

Figure 3 – Graph of Water Levels in Site Groundwater Monitoring Network Wells for August 2009 Through June 2012

Figure 4 – Graph of Water Levels in Site Groundwater Monitoring Network Wells for October 2010 Through June 2012

Groundwater Monitoring/Well Purging Data Sheets Laboratory Reports and Chain of Custody Documentation

PHK/sjc 0298.R17



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
MW					
MW1	5/14/2013 12/12/2012	132.78	22.27 21.38	110.51 111.40	-0.89 0.66
	6/28/2012		21.38 22.04	111.40	0.66
	12/5/2011		car parked on well	could not measure	0.01
	9/2/2011		22.55	110.23	-1.62
	6/1/2011		20.93	111.85	-0.52
	5/20/2011		20.41	112.37	-0.95
	4/15/2011 3/18/2011		19.46	113.32	-0.21
			19.25	113.53	2.65
	2/18/2011 1/21/2011		21.90 20.76	110.88 112.02	-1.14 2.39
	12/10/2010		23.15	109.63	0.70
	11/19/2010		23.85	108.93	0.07
	10/15/2010		23.92	108.86	-0.42
	9/22/2010		23.50	109.28	-0.63
	8/20/2010		22.87 22.01	109.91	-0.86 -0.95
	7/16/2010 6/18/2010		22.01 21.06	110.77 111.72	-0.95
	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 11/30/2009		23.36 23.42	109.42 109.36	0.06 -0.32
	11/30/2009		car parked on well	could not measure	-0.52
	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 1/18/2003	132.78	20.65 20.06	112.13 112.72	-0.59
	1/16/2005	132.78	20.00	112.72	
MW2	5/14/2013	133.59	16.84	116.75	-3.13
	12/12/2012		13.71	119.88	2.30
	6/28/2012		16.01	117.58	2.09
	12/5/2011		18.10	115.49	-1.04
	9/2/2011 6/1/2011		17.06 15.07	116.53 118.52	-1.99 -1.04
	6/1/2011 5/20/2011		15.07 14.03	118.52	-1.04 -2.99
	4/15/2011		14.05	122.55	0.57
	3/18/2011		11.61	121.98	2.09
	2/18/2011		13.70	119.89	0.20
	1/21/2011		13.90	119.69	1.88
	12/13/2010		15.78	117.81	-0.05
	12/10/2010 11/23/2010		15.73 16.69	117.86	0.96 0.97
	11/23/2010 11/19/2010		16.69	116.90 115.93	-0.07
	11/12/2010		17.59	115.95	0.47
	10/15/2010		18.06	115.53	-0.34
	9/22/2010		17.72	115.87	-0.37
	8/20/2010		17.35	116.24	-0.60
	7/16/2010		16.75	116.84	-1.34
	6/18/2010		15.41	118.18	-1.37
	5/21/2010		14.04 11.79	119.55	-2.25 -0.30
	4/16/2010			121.80	
	3/19/2010 2/19/2010		11.49 13.40	122.10 120.19	1.91 -0.65
	2/19/2010 1/27/2010		13.40 12.75	120.19 120.84	-0.65 5.71
	1/2/1/2010		12.75 18.46	120.84	-1.00
	11/30/2009		car parked on well	could not measure	-1.00
	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		
	9/18/2008			115.13	0.04
	2/20/2002		18.50	115.09	-5.41
	2/20/2003	122.50	13.09	115.09 120.50	
	2/20/2003 1/18/2003	133.59		115.09	-5.41
MW3	1/18/2003		13.09 11.55*	115.09 120.50 122.04	-5.41 -1.54
MW3	1/18/2003 5/14/2013 12/12/2012	133.59 136.35	13.09 11.55 [#] 20.43 17.87	115.09 120.50 122.04 115.92 118.48	-5.41 -1.54 -2.56 2.90
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012		13.09 11.55 [#] 20.43 17.87 20.77	115.09 120.50 122.04 115.92 118.48 115.58	-5.41 -1.54 -2.56 2.90 -0.26
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011		13.09 11.55" 20.43 17.87 20.77 20.51	115.09 120.50 122.04 115.92 118.48 115.58 115.58	-5.41 -1.54 -2.56 2.90 -0.26 0.78
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011		13.09 11.55 [#] 20.43 17.87 20.77 20.51 21.29	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.84 115.06	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/1/2011		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95	115.09 120.50 122.04 115.92 118.48 115.58 115.84 115.06 116.40	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -1.34 -0.98
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/1/2011 5/20/2011		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95 18.97	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.58 115.66 116.40 117.38	-5.41 -1.54 -2.56 -2.90 -0.26 -0.78 -1.34 -0.98 -2.45
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/1/2011		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95	115.09 120.50 122.04 115.92 118.48 115.58 115.84 115.06 116.40	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/1/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011		13.09 11.55" 20.43 17.87 20.77 20.57 21.29 19.95 18.97 16.52 17.19 18.59	115.09 120.50 122.04 115.92 115.84 115.58 115.58 115.56 116.40 117.38 119.83 119.16 117.76	-5.41 -1.54 -2.56 -2.90 -0.26 -0.78 -1.34 -0.98 -2.45 -0.67 1.40 -0.51
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/12/2011 5/20/2011 4/15/2011 3/18/2011 2/18/2011 1/21/2011		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.66 116.40 117.38 119.83 119.16 117.76 118.27	-5.41 -1.54 -2.56 -0.26 -0.78 -1.34 -0.98 -2.45 -0.67 1.40 -0.51 1.20
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/1/2011 5/20/2011 4/15/2011 3/18/2011 1/21/2011 12/12/2011 12/1/2010		13.09 11.55" 20.43 17.87 20.72 20.72	115.09 120.50 122.04 115.92 115.84 115.58 115.58 115.56 116.40 117.38 119.83 119.16 117.76 118.27 117.07	-5.41 -1.54 -2.56 -2.90 -0.26 -0.78 -1.34 -0.98 -2.45 -0.67 1.40 -0.51 1.20 1.87
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/1/2011 5/20/2011 4/15/2011 3/18/2011 12/18/2011 12/12/2011 12/10/2010		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15	115.09 120.50 122.04 115.92 118.48 115.58 115.84 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.07	-5.41 -1.54 -2.56 -2.90 -0.26 -0.78 -1.34 -0.98 -2.45 -0.67 1.40 -0.51 1.20 1.87 1.82
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 3/18/2011 1/21/2011 12/12/2011 12/12/2010 10/15/2010		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97	115.09 120.50 122.04 115.92 115.84 115.58 115.58 115.58 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.76 118.27 117.07 115.20 113.38	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 1.82 -0.42
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/1/2011 5/20/2011 4/15/2011 3/18/2011 12/18/2011 12/12/2011 12/10/2010		13.09 11.55" 20.43 17.87 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15	115.09 120.50 122.04 115.92 118.48 115.58 115.84 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.07	-5.41 -1.54 -2.56 -2.90 -0.26 -1.34 -0.98 -2.45 -0.67 1.40 -0.51 1.20 1.87 1.82
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/1/2011 4/15/2011 1/21/2011 1/21/2011 1/21/2011 11/12/2010 11/19/2010 10/15/2010 8/20/2010		13.09 11.55* 20.43 17.87 20.57 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.07 115.20 113.38 113.80 113.30 114.73 115.58	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 1.82 -0.42 -0.93 -1.25 -1.05
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 2/18/2011 1/21/2011 12/12/2011 12/12/2010 11/19/2010 10/15/2010 9/22/2010 8/20/2010 6/18/2010		13.09 11.55" 20.43 17.87 20.51 12.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32	115.09 120.50 122.04 115.92 115.84 115.58 115.584 115.584 115.84 115.84 115.84 115.84 117.38 119.83 119.16 117.76 118.27 117.76 118.27 117.07 115.20 113.38 113.80 114.73 115.88 117.03	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 1.82 -0.42 -0.93 -1.25 -1.05 -0.59
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/12/2011 4/15/2011 12/12/2011 12/12/2011 12/12/2011 11/12/2010 11/13/2010 9/22/2010 8/20/2010 6/18/2010 5/21/2010		13.09 11.55* 20.43 17.87 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.53	115.09 120.50 122.04 115.92 118.48 115.88 115.88 115.84 115.06 116.40 117.38 119.46 117.78 119.46 117.76 118.27 117.07 115.20 113.38 113.80 114.33 115.58 117.03 117.62	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.82 -0.42 -0.93 -1.25 -1.05 -0.59 -1.34
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 2/18/2011 1/21/2011 12/12/2011 12/12/2010 11/19/2010 9/22/2010 8/20/2010 6/18/2010 5/21/2010		13.09 11.55* 20.43 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.73 17.39	115.09 120.50 122.04 115.92 115.84 115.58 115.584 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.76 118.27 117.07 115.20 113.38 113.80 114.73 115.58 117.03 117.02 118.96	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 0.67 1.40 0.51 1.20 1.87 1.82 -0.42 -0.93 -1.25 -1.05 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.54 -0.59 -1.34 -0.59 -0.59 -1.34 -0.59 -0.59 -1.34 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0.59 -0.54 -0
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 6/12/2011 4/15/2011 12/12/2011 12/12/2011 12/12/2011 12/12/2010 11/13/2010 9/22/2010 8/20/2010 6/18/2010 5/21/2010		13.09 11.55* 20.43 17.87 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.55	115.09 120.50 122.04 115.92 115.84 115.84 115.84 115.06 116.40 117.38 119.43 119.16 117.76 118.27 117.07 115.20 113.38 113.80 114.33 115.98 117.03 117.02 118.96 119.40	-5.41 -1.54 -2.56 2.90 -0.25 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.51 -0.51 -0.52 -1.25 -1.24 -1.34 -0.44 -1.01
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 3/18/2011 1/21/2011 12/12/2011 12/12/2010 10/15/2010 9/22/2010 8/20/2010 5/21/2010 4/16/2010 3/19/2010		13.09 11.55* 20.43 17.37 20.77 20.51 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.73 17.39 16.05 17.96	115.09 120.50 122.04 115.92 115.84 115.88 115.88 115.84 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.76 118.27 115.20 113.38 113.80 114.73 115.88 117.03 117.02 118.96 119.40 118.39	$\begin{array}{c} -5.41\\ -1.54\\ \end{array}$
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/2011 6/28/2011 5/20/2011 4/15/2011 12/12/2011 12/12/2011 12/12/2011 12/12/2010 11/15/2010 5/21/2010 6/18/2010 5/21/2010 4/16/2010 2/19/2010		13.09 11.55* 20.43 17.87 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.73 17.39 16.05 17.56 17.66 17.71	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.66 116.40 117.38 119.46 119.43 119.46 117.76 118.27 117.20 113.38 113.80 114.33 115.58 117.62 118.58 117.62 118.96 119.40 118.39 118.54	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.40 -0.51 1.20 1.87 -0.42 -0.93 -1.25 -1.05 -0.59 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.51 -0.52
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 3/18/2011 1/21/2011 12/12/2011 12/12/2010 10/15/2010 9/22/2010 8/20/2010 5/21/2010 4/16/2010 3/19/2010		13.09 11.55* 20.43 17.37 20.77 20.51 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.73 17.39 16.05 17.96	115.09 120.50 122.04 115.92 115.84 115.88 115.88 115.84 115.66 116.40 117.38 119.83 119.16 117.76 118.27 117.76 118.27 115.20 113.38 113.80 114.73 115.88 117.03 117.02 118.96 119.40 118.39	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 1.82 -0.42 -0.42 -0.53 -1.25 -1.05 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.25 -1.05 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.51 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.51 -0.59 -1.34 -0.42 -0.59 -1.34 -0.42 -0.59 -1.34 -0.42 -0.59 -1.34 -0.42 -0.59 -1.34 -0.42 -0.59 -1.34 -0.42 -0.59
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 2/18/2011 1/21/2011 12/12/2011 12/12/2011 12/12/2010 10/15/2010 9/22/2010 5/21/2010 5/21/2010 4/16/2010 3/19/2010 1/27/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010		13.09 11.55* 20.43 17.37 20.51 21.29 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.52 18.73 17.39 16.95 17.96 17.71 21.16 21.16 21.29 21.29 22.55 21.62 20.55 21.62 20.55 21.62 20.55 21.62 21.55 21.65 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.62 20.37 21.55 21.65 21.79 16.95 17.96 17.96 17.96 17.96 17.95 17.96 17.95 1	115.09 120.50 122.04 115.92 115.84 115.88 115.88 115.84 115.06 116.40 117.38 119.83 119.16 117.76 118.27 117.76 118.27 115.20 113.38 113.80 114.73 115.98 117.03 117.02 118.96 119.40 118.59 118.44 115.19 115.21	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 0.51 1.20 1.20 1.87 1.82 -0.42 -0.42 -0.53 -1.25 -1.25 -1.25 -1.25 -1.25 -1.34 -0.59 -0.59 -1.34 -0.25 -0.59 -0.59 -1.34 -0.25 -0.59 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.59 -1.34 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.42 -0.25 -0.25 -0.12 -
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/28/2011 5/202011 4/15/2011 2/18/2011 12/12/2011 12/12/2010 10/15/2010 9/22/2010 8/20/2010 6/18/2010 5/21/2010 12/19/2010 12/19/2010 12/19/2010 12/19/2010 12/19/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010		13.09 11.55* 20.43 17.87 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.655 17.66 17.761 21.14 21.14 21.14 21.925	115.09 120.50 122.04 115.92 115.83 115.84 115.84 115.84 115.06 116.40 117.38 119.83 119.83 119.83 119.16 117.76 115.20 113.38 114.73 115.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 115.98 117.62 118.84 115.98 115.53 116.40 115.21 115.21 115.21 115.23 116.40 115.21 115.23 116.40 115.21 115.21 115.21 115.21 116.40 116.40 115.21 115.21 116.40 116.40 115.21 115.21 116.40 116.40 116.40 115.21	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.088 -2.45 0.677 1.40 -0.51 1.20 1.87 -0.42 -0.933 -1.25 -1.05 -0.93 -1.34 -0.42 -0.933 -1.25 -1.05 -0.59 -1.34 -0.41 -0.51 -1.05 -0.59 -1.34 -0.41 -0.51 -1.25 -1.27 -1.07 -1.72
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 9/2/2011 5/20/2011 4/15/2011 2/18/2011 1/21/2011 12/12/2011 12/12/2011 12/12/2010 9/22/2010 5/21/2010 5/21/2010 5/21/2010 3/19/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010 12/27/2010		13.09 11.55* 20.43 17.37 20.51 21.29 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.95 17.96 17.71 21.16 21.14 21.29 21.27 22.55 21.62 20.37 19.32 18.73 17.39 16.95 17.96 17.71 21.16 21.14 21.20 21.67 21.57 2	115.09 120.50 122.04 115.92 115.84 115.88 115.88 115.86 116.40 117.38 119.16 117.76 118.27 119.83 119.16 117.76 118.27 115.20 113.38 113.80 114.73 115.98 117.03 117.02 118.39 119.40 118.39 118.44 115.19 115.21 115.23 116.40 114.68	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 0.51 1.20 0.51 1.20 -0.42 -0.93 -1.25 -1.05 -0.42 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.25 -3.45 -0.02 -0.12 -1.07 -0.25 -0.02 -0.12 -1.07 -0.59 -0.25 -0.59 -0.51 -0.51 -0.51 -0.59 -0.54 -0.51 -0.51 -0.59 -0.54 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.52 -0.59 -0.52 -0.59
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/28/2011 5/202011 4/15/2011 2/18/2011 12/12/2011 12/12/2010 10/15/2010 10/15/2010 9/22/2010 8/20/2010 5/21/2010 4/16/2010 5/21/2010 12/19/2010 2/19/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 11/25/2009 11/25/2009		13.09 11.55* 20.43 17.87 20.51 20.51 19.95 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.55 17.56 17.76 17.71 21.16 21.14 21.14 21.02 19.95 21.67 21.68	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.58 115.66 116.40 117.38 119.16 117.76 118.27 117.07 115.20 113.38 114.73 115.98 117.62 118.96 119.40 118.59 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.84 115.51 115.521 115.53 116.40 114.68 115.27	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.82 -0.42 -0.93 -1.25 -1.25 -1.05 -0.59 -1.34 -0.42 -0.93 -1.25 -1.05 -0.59 -0.51 -1.05 -0.59 -0.54 -0.54 -0.54 -0.54 -0.55 -1.05 -0.59 -0.54 -0.54 -0.54 -0.55 -0.52 -1.25 -0.52 -0.52 -0.52 -0.54 -0.54 -0.54 -0.55 -0.55 -0.55 -0.55 -0.52 -0.42 -0.42 -0.54 -0.55 -0.75
MW3	1/18/2003 5/14/2013 12/2/2012 6/28/2012 9/2/2011 6/12/2011 5/20/2011 4/15/2011 2/18/2011 1/21/2011 1/21/2011 1/21/2011 1/21/2010 10/15/2010 9/22/2010 6/18/2010 5/21/2010 5/21/2010 4/16/2010 3/19/2010 1/27/2020 1/27/2		13.09 11.55* 20.43 17.37 20.77 20.51 21.29 19.95 18.97 16.52 17.19 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.95 17.96 17.71 21.16 21.14 21.14 21.02 19.95 21.67 21.62 21.62 21.71 21.16 21.16 21.16 21.20 21.20 21.20 21.20 21.20 21.20 22.55 21.20 21.20 21.20 22.55 21.20 22.55 21.62 20.37 21.55 21.62 20.37 21.55 21.62 20.57 21.62 20.55 21.62 20.55 21.62 20.55 21.62 20.55 21.62 20.55 21.62 21.62 20.55 21.62 2	115.09 120.50 122.04 115.92 115.84 115.88 115.88 115.84 115.06 116.40 117.38 119.83 119.16 117.76 118.27 115.20 113.38 113.80 114.73 115.88 117.03 117.62 118.96 119.40 118.39 118.44 115.19 115.21 115.23 116.40 114.68 115.74	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 0.51 1.20 -0.51 1.20 -0.51 1.20 -0.42 -0.93 -1.25 -1.05 -0.42 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.25 -1.05 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.59 -1.34 -0.25 -3.45 -0.25 -0.52 -0.59 -1.25 -1.05 -0.59 -1.34 -0.25 -0.59 -0.12 -1.07 -0.25 -0.02 -0.12 -0.02 -0.12 -0.05 -0.02 -0.78
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/28/2011 5/202011 4/15/2011 2/18/2011 12/12/2011 12/12/2010 10/15/2010 10/15/2010 9/22/2010 8/20/2010 5/21/2010 4/16/2010 5/21/2010 12/19/2010 2/19/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 12/12/2010 11/25/2009 11/25/2009		13.09 11.55* 20.43 17.87 20.51 20.51 19.95 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.55 17.56 17.76 17.71 21.16 21.14 21.14 21.02 19.95 21.67 21.68	115.09 120.50 122.04 115.92 118.48 115.58 115.58 115.58 115.66 116.40 117.38 119.16 117.76 118.27 117.07 115.20 113.38 114.73 115.98 117.62 118.96 119.40 118.59 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.98 117.62 118.84 115.51 115.521 115.53 116.40 114.68 115.27	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.82 -0.42 -0.93 -1.25 -1.25 -1.05 -0.59 -1.34 -0.42 -0.93 -1.25 -1.05 -0.59 -0.51 -1.05 -0.59 -0.54 -0.54 -0.54 -0.54 -0.55 -1.05 -0.59 -0.54 -0.54 -0.54 -0.55 -0.52 -1.25 -0.52 -0.52 -0.52 -0.54 -0.54 -0.54 -0.55 -0.55 -0.55 -0.55 -0.52 -0.42 -0.42 -0.54 -0.55 -0.75
MW3	1/18/2003 5/14/2013 12/12/2012 6/28/2012 12/5/2011 6/28/2011 5/20/2011 4/15/2011 2/18/2011 12/16/2011 12/16/2010 11/19/2010 10/15/2010 9/22/2010 8/20/2010 5/21/2010 5/21/2010 12/19/2010 2/19/2010 12/1/2010 12/1/2010 12/1/2010 12/1/2010 12/1/2010 12/1/2010 12/1/2010 12/2/2010 11/25/2009 9/24/2009 8/20/2009 9/24/2009		13.09 11.55* 20.43 17.87 20.51 21.29 19.95 18.97 16.52 17.19 18.59 18.08 19.28 21.15 22.97 22.55 21.62 20.37 19.32 18.73 17.39 16.55 17.56 17.76 17.71 21.16 21.14 21.14 21.14 21.02 19.95 21.67 21.68 20.91 23.69	115.09 120.50 122.04 115.92 115.84 115.88 115.84 115.06 116.40 117.38 119.16 117.76 117.27 117.07 115.20 113.28 113.80 114.73 115.98 117.02 118.98 117.02 118.98 117.02 118.98 117.02 118.98 117.02 118.98 117.02 118.98 117.02 118.98 117.02 118.84 115.21 115.21 115.23 116.40 114.64 115.27 115.24 115.23 116.40 114.68 115.27 115.24 115.24 115.24 115.24 115.27 115.24 115.24 115.27 115.24 115.24 115.27 115.24 115.24 115.27 115.24 115.27 115.24 115.24 115.27 115.24 115.24 115.27 115.24	-5.41 -1.54 -2.56 2.90 -0.26 0.78 -1.34 -0.98 -2.45 0.67 1.40 -0.51 1.20 1.87 -1.25 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.43 -1.25 -1.05 -0.59 -1.34 -0.42 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.59 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.72 -0.72 -0.72 -0.77

TABLE

		TABL SUMMARY OF GROUNDWA	ATED ELEVATION DATA		
Well No	Date	Top Of Casing Elevation (ft)	Depth To Water (ft)	Water Table Elevation (ft)	Change in Water Table Elevation
<u>well 1N0</u>	Date	Top Of Casing Elevation (II)	Lopin 10 water (11)	mater ravie Elevation (it)	change in water rabie raevalion
MW4	5/14/2013	134.09	24.32	109.77	-0.93
	12/12/2012 6/28/2012		23.39 24.08	110.70 110.01	0.69
	12/5/2011		25.20	108.89	-0.65
	9/2/2011 6/1/2011		24.55 22.98	109.54 111.11	-1.57 -0.52
	5/20/2011		22.46	111.63	-1.87
	4/15/2011 3/18/2011		20.59 21.35	113.50 112.74	0.76
	2/18/2011		22.94	111.15	-0.16
	1/21/2011 12/10/2010		22.78 25.10	111.31 108.99	2.32 0.69
	11/19/2010		25.79	108.30	0.07
	10/15/2010 9/22/2010		25.86 25.47	108.23 108.62	-0.39 -0.62
	8/20/2010		24.85	109.24	-0.82
	7/16/2010 6/18/2010		24.03 23.11	110.06 110.98	-0.92 -0.78
	5/21/2010		22.33	111.76	-0.97
	4/16/2010 3/19/2010		21.36 21.18	112.73 112.91	-0.18 1.41
	2/19/2010		22.59	111.50	0.52
	1/27/2010 12/1/2009		23.11 25.31	110.98 108.78	2.20 0.06
	11/30/2009		25.37	108.72	-0.11
	11/25/2009 10/29/2009		25.26 25.06	108.83 109.03	-0.20 0.31
	9/24/2009		25.37	108.03	-0.51
	8/20/2009		24.86	109.23	0.14
	9/26/2008 9/19/2008		25.00 25.00	109.09 109.09	0.00 0.02
	9/18/2008		25.02	109.07	0.09
	9/15/2008 9/15/2008	134.09	25.11 25.03	108.98 109.06	-0.08
					10.00
DP1	5/14/2013 12/12/2012	137.22	21.82 34.72	115.40 102.50	12.90
	6/28/2012		20.93	116.29	4.05
	12/5/2011 9/2/2011		25.17 (0.25) ## 22.25	112.24 114.97	-2.73 1.44
	6/1/2011		23.69	113.53	
	5/20/2011 4/15/2011		Adjusting pump rates 14.19	 water level fluctuating. 123.03 	1.46
	3/18/2011		15.65	121.57	3.26
	2/18/2011 1/21/2011		18.91 17.83	118.31 119.39	-1.08 7.08
	12/13/2010		24.91	112.31	0.50
	12/10/2010 11/23/2010		25.41 26.47	111.81 110.75	1.06 0.24
	11/19/2010		26.71	110.51	0.13
	11/12/2010 10/15/2010	137.22	26.84 25.68	110.38 110.71	-0.33 -0.26
	10/5/2010*		25.42	110.97	0.33
	9/28/2010*	136.39	25.75	110.64	
DP2	5/14/2013	136.59	20.06	116.53	-2.05
	12/12/2012 6/28/2012		18.01 19.15	118.58 117.44	1.14 2.01
	12/5/2011		21.16	115.43	-0.79
	9/2/2011 6/1/2011		20.37 18.48	116.22	-1.89
	5/20/2011		Not Measured	118.11	
	4/15/2011 3/18/2011		13.12 14.18	123.47 122.41	1.06 2.73
	2/18/2011		16.91	119.68	-0.17
	1/21/2011 12/13/2010		16.74 20.14	119.85	3.40 -0.01
	12/13/2010 12/10/2010		20.14 20.13	116.45 116.46	-0.01 0.81
	11/23/2010		20.94	115.65	0.71
	11/19/2010 11/12/2010	136.59	21.65 21.58	114.94 115.01	-0.07 0.35
	10/15/2010 10/5/2010*		21.11	114.66	-0.15
	10/5/2010* 9/28/2010*	135.77	20.96 19.57	114.81 116.20	-1.39
DP3	5/14/2013 12/12/2012	135.75	18.84 16.06	116.91 119.69	-2.78 1.92
	6/28/2012		17.98	117.77	2.22
	12/5/2011 9/2/2011		20.20 19.07	115.55 116.68	0.33 1.31
	6/1/2011 5/20/2011		17.09	118.66 Not Manurad	
	4/15/2011		12.35	Not Measured 123.40	0.95
	3/18/2011 2/18/2011		13.30 15.90	122.45 119.85	2.60 -0.27
	1/21/2011		15.63	120.12	2.61
	12/13/2010		18.24	117.51	0.11
	12/10/2010 11/23/2010		18.35 19.26	117.40 116.49	0.91 0.89
	11/19/2010		20.15	115.60	-0.09
	11/12/2010 10/15/2010	135.75	20.06 19.29	115.69 115.22	0.47 -0.15
	10/5/2010*		19.14	115.37	0.28
	9/28/2010*	134.51	19.42	115.09	
DP4	5/14/2013	137.60	20.70	116.90	-1.13
	12/12/2012 6/28/2012		19.57 19.66	118.03 117.94	0.09 3.52
	12/5/2011		23.18	114.42	-2.00
	9/2/2011 6/1/2011		21.18 19.31	116.42 118.29	-1.87
	5/20/2011			Not Measured	
	4/15/2011 3/18/2011		13.14 14.42	124.46 123.18	1.28 3.13
	2/18/2011		17.55	120.05	-0.46
	1/21/2011 12/13/2010		17.09 23.85	120.51 113.75	6.76 0.76
	12/10/2010		24.61	112.99	1.63
	11/23/2010 11/19/2010		26.24 26.45	111.36 111.15	0.21 0.16
	11/12/2010	137.60	26.61	110.99	-0.38
	10/15/2010 10/5/2010*		25.40 25.03	111.37 111.74	-0.37 0.79
	10/5/2010* 9/28/2010*	136.77	25.03 25.82	111.74 110.95	0.79

 NOTES:

 Top of well casing amended on 11/12/2010 in preparation for vapor extraction pilot test.

 * = Pior to well development.

 ** = Wells MW3 and MW4 surveyed on September 22-23, 2008; wells DP1 through DP4 surveyed on October 5, 2010.

 #* = Depth to water not corrected for free product thickness: free product with thickness of 002 feet encountered.

 ## = Indicates free product thickness in feet. The water table elevation has been corrected for the presence of free product by assuming a specific gravity of 0.75.

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW1	5/14/2013	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
							Chloroform = 0.95
	12/12/2012	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Chloroform = 0.97
	6/29/2012	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Tetrachloroethene = 1.2,
							cis-1,2-Dichloroethene = 3.0,
	12/6/2011				Well Inaccessib	ele; car parked on top of well.	Chloroform = 1.2
	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	Chloroform=0.85 ND, except:
	12/1/2009	ND<50	ND<50	ND<50	NA	ND<100	Chloroform=0.80 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,
		ND -50					Xylenes = 0.61
	5/15/1995 12/22/1994	ND<50 ND<50	NA NA	NA NA	NA NA	NA NA	** ND ** ND
	9/14/1994	ND, a	NA	NA	NA	NA	** ND
	7/29/1994 5/31/1994	ND<50 ND<50	NA NA	NA NA	NA NA	NA NA	** ND ** ND
	1/24/1994	ND<50	NA	ND	NA	NA	*** ND
10022	5/14/2012	7/0	800 1	2 700 1 :	NA	2 800 1	ND amonto
MW2	5/14/2013	760, g,k	800, g,k	2,700, h,j,m	NA	2,800, h,j,m	ND, except: Xylenes = 25 ,
							cis-1,2-Dichloroethene = 520 , trans-1,2-Dichloroethene = 14 ,
							Vinyl Chloride = 60,
							1,2,4-Trimethylbenzene = 47, 1,3,5-Trimethylbenzene = 14
	12/12/2012	1,100, a,n	1,200, a,n	2,300, l,m	NA	2,500, l,m	ND, except:
							cis-1,2-Dichloroethene = 790 , 1,2,4-Trimethylbenzene = 59 ,
	6/29/2012	600, a,g	970, a,g	1,400, i,j,l	NA	1,600, i,j,l	Vinyl Chloride = 110 ND, except:
	0/27/2012	000, a,g	970, a,g	1,400, 14,1		1,000,1,1,1	Toluene $= 7.6$,
							Xylenes = 12, cis-1,2-Dichloroethene = 190 ,
							trans-1,2-Dichloroethene = 18, Vinyl Chloride = 82,
							Carbon disulfide = 5.1,
							1,2,4-Trimethylbenzene = 38, 1,3,5-Trimethylbenzene = 9.1
	12/5/2011	1,200, a,g	1,800, a,g	2,400, h,i	NA	2,700, h,i	ND, except:
							Toluene = 15, Ethylbenzene = 18,
							Xylenes = 57,
							cis-1,2-Dichloroethene = 310 , trans-1,2-Dichloroethene = 12 ,
							Naphthalene = 9.8, Vinyl Chloride = 50,
							n-Butyl benzene = 5.3,
							Isopropylbenzene = 12, sec-Butyl benzene = 8.4,
							n-Propyl benzene = 17, 1,2,4-Trimethylbenzene = 120,
							1,3,5-Trimethylbenzene = 35,
	10/15/2010	3,600, a,b,g	3,900, a,b,g	25,000, b,h,i,j	NA	22,000, b,h,i,j	ND, except: cis-1,2-dichloroethene= 1,500,
							Vinyl Chloride = 160,
	5/21/2010	2,400, g	2,500, g	3,900, h,i,j	NA	4,700, h.i.j	1,2,4-Trimethylbenzene = 100 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,
		220.000	500 000	200.000	NTD	274	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,
		20.000	NT A	NT A	NT A	NA	**Xylenes = 200
	12/22/1994	20,000, a,c	NA	NA	NA	NA	**Benzene = 22 , **Toluene = 170 ,
							**Ethylbenzene = 89, **Xylenes = 470

SUMMARY OF GROUNDWATER SAMPLE TPH, VOC, AND DISSOLVED GAS RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
MW2	12/22/1994						ND, except:
Continued	1222.1771						+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,
	9/14/1994						**Xylenes = 2,600 ND, except:
							+Benzene = 24 , +Toluene = 440 ,
							+Ethylbenzene = 300 , +Xylenes = 830 ,
							+cis-1,2-dichloroethene = 720 , +Chloroform = 25,
							+Acetone = 120
	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,
	1/28/1994	2,800, c	NA	12,000, d	NA	NA	**Xylenes = 220 ND, except:
							00%Xylenes = 43
	1/19/1994++	3,400, c	NA	20,000	NA	NA	**Benzene = 15 , **Toluene = 180 ,
							**Ethylbenzene = 39 , **Xylenes = 200
							··· Ayicies = 200
MW3	5/14/2013 12/12/2012	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50	NA NA	ND<100 ND<100	ND ND
	6/29/2012	ND<50	ND<50	ND<50	NA	ND<100	ND
	12/5/2011	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Carbon disulfide = 1.9
	10/15/2010 5/21/2010	ND<50 ND<50	ND<50 ND<50	ND<50 ND<50	NA NA	ND<100 ND<100	ND 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	5/14/2013	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 15 ,
	12/12/2012	NTD -50	ND -50	NID -50	NA	ND -100	Chloroform = 1.6
	12/12/2012	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 15,
	6/29/2012	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 1.5 ND, except:
							Cis-1,2-dichloroethene = 12 , Chloroform = 1.2
	12/5/2011	ND<50	ND<50	ND<50	NA	ND<100	ND, except:
							Cis-1,2-dichloroethene = 12 , Chloroform = 1.2
	10/15/2010	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Cis-1,2-dichloroethene = 8.4 ,
							Trans-1,2-dichloroethene = 0.84,
	5/21/2010	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 1.3 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
DP1	5/14/2013	410, g,k	290, g,k	530, h,i,j	NA	780, h,i,j	ND, except: Tetrachloroethene = 380 ,
							Trichloroethene = 180 , cis-1,2-Dichloroethene = 150
	12/12/2012	4,500, a,g	2,300, a,g	7,200, h,i,j	NA	9,400, h,i,j	ND, except:
							Tetrachloroethene = $4,100$, Trichloroethene = $3,800$,
							cis-1,2-Dichloroethene = 5,200 , Vinyl Chloride = 290
	6/29/2012	1,100, a	73, a	84, i	NA	190, i	ND, except: Tetrachloroethene = $2,400$,
							Trichloroethene $= 650$,
	12/6/2011	2,000, a,g	940, a,g	47,000, h,i,j	NA	59,000, h,i,j	cis-1,2-Dichloroethene = 110 ND, except:
							Tetrachloroethene = $2,800$, Trichloroethene = 850 ,
	10/15/2010	10.000 1 1	5 100 L	0.000 1.1 .	NTA	0 800	cis-1,2-Dichloroethene = 260
	10/15/2010	10,000, b,g,k	5,100, b,g	9,000, b,h,j	NA	9,800, b,h,j	ND, except: Cis-1,2-dichloroethene = 17,000 ,
							Vinyl Chloride = 2,600
DP2	5/14/2013	420, g,k	460, g,k	950, h,m	NA	1,000, h,m	ND, except:
512	5/1/2015	, g,n	100, g,n	200, ii,iii		2,000, 1,111	Cis-1,2-dichloroethene = 11,000,
	12/12/2012	670, a,n	640, a,n	1,500, m	NA	1,700, m	Vinyl Chloride = 2,300 ND, except:
							Cis-1,2-dichloroethene = 17,000 , Vinyl Chloride = 1,200
	6/29/2012	1,500, a,g	990, a,g	1,000, h,m	NA	1,200, h,m	ND, except: Cis-1,2-dichloroethene = 14,000
	12/6/2011	1,300, a,g	480, a,g	670, i,l	NA	1,000, i,l	ND, except:
	12/6/2011	1,500, ä,g	400, a,g	070, 1,1	- 173	1,000, 1,1	Cis-1,2-dichloroethene = 14,000

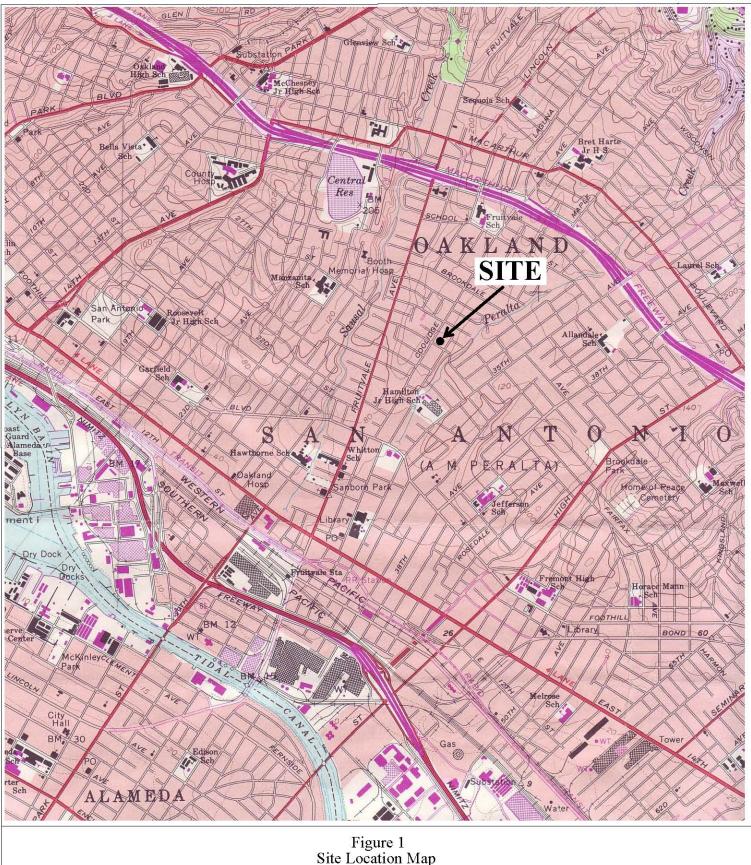
SUMMARY OF GROUNDWATER SAMPLE TPH, VOC, AND DISSOLVED GAS RESULTS

Well Number	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
DP2 Continued	10/15/2010	4,800, a,g	2,900, a,g	3,900, h,i	NA	2,900, h,i	ND, except: Cis-1,2-dichloroethene = 22,000
DP3	5/14/2013	590, g,k	630, g,k	2,700, h,m	NA	2,800, h,m	ND, except: Benzene = 0.85 , Toluene = 0.74 , Xylenes = 2.5 , Trichloroethene = 0.74 , cis-1,2-Dichloroethene = 22 , trans-1,2-Dichloroethene = 2.4 , Vinyl Chloride = 25 ,
	12/12/2012	830, n	900, n	5,200, m	NA	5,500, m	Naphthalene = 2.6, n-Baryl benzene = 1.5, 1.2.4-Trimethylbenzene = 28, 1.3.5-Trimethylbenzene = 8.0, see-Baryl benzene = 1.7, Isopropyl benzene = 1.7, 4-Isopropyl toluene = 1.0, ND, except: Benzene = 2.1, Toluene = 1.8, Ethylbenzene = 1.2, Xylenes = 5.2, cis-1,2-Dichloroethene = 36, tram-1,2-Dichloroethene = 36, tram-1,2-Dichloroethene = 3.1, Vinyl Choride = 47, Naphthalene = 1.7, n-Baryl benzene = 1.5, 1.2.4-Trimethylbenzene = 208, 1.3.5-Trimethylbenzene = 246,
							sec-Butyl benzene = 2.3, Isopropylbenzene = 2.4, n-Propyl benzene = 3.6,
	6/29/2012	770, g	1,300, g	1,400, i,j,l	NA	1,600, i,j,l	4-Isopropyl toluene = 1.2, ND, except:
			1900 B	-, 100 - 1 ,0		-1000 -191	Berzene = 0.77, Toluene = 1.6, Ethylbenzene = 1.7, Xylenes = 7.5, Trichloroethene = 0.70, cis-1,2-Dichloroethene = 27 , trans-1,2-Dichloroethene = 27 , trans-1,2-Dichloroethene = 3 , Vinyl Chloride = 25 , Naphthalene = 5.6, n-Butyl benzene = 2.4, 1,2,4-Trimethylbenzene = 38, 1,3,5-Trimethylbenzene = 9.4, see-Butyl benzene = 4.2, n-Proyl benzene = 4.2, n-Proyl benzene = 1.4, Carbon disulfide = 0.73
	12/6/2011	480, g	630, g	3,600, m	NA	4,500, m	ND, except:
							Benzene = 0.97, Toluene = 1.1, Ethylbenzene = 1.7, Xylenes = 3.1, cis-1,2-Dichloroethene = 22, trans-1,2-Dichloroethene = 2.3, Vinyl Choride = 17, Naphthalene = 2.2, n-Baryl benzene = 1.7, 1,2,4-Trimethylbenzene = 3.5, sec-Baryl benzene = 2.8, hopropyl benzene = 2.8, n-Propyl benzene = 4.2, 4-Isopropyl toluene = 0.99
	10/15/2010	5,700, g	8,000, g	10,000, hij	NA	9,800, h.i.j	ND, except: Toluene = 2.7, Ethylbenzene = 4.0, Xylenes = 23 , cis-1,2-Dichloroethene = 44 , trans-1,2-Dichloroethene = 45 , Viny Chlorida = 28 , Naphthalene = 7.5, n-Buryl benzene = 64, 1,2,4-Trimethylbenzene = 66, 1,3,5-Trimethylbenzene = 60, isopropylbenzene = 60, Isopropylbenzene = 7.2, n-Propyl benzene = 10,
DP4	5/14/2013	ND<50	ND<50	ND<50	NA	ND<100	ND, except: Tetrachloroethene = 0.73,
	12/12/2012	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 1.5 ND, except: Tetrachloroethene = 20 , Trichloroethene = 10 , cis-1.2-Dichloroethene = 3.6,
	6/29/2012	53, g	68, g	ND<50	NA	ND<100	Chloroform = 0.60 ND, except: Tetrachloroethene = 2.1, Trichhoroethene = 1.3, cis-1,2-Dichloroethene = 0.66,
	12/5/2011	ND<50	ND<50	ND<50	NA	ND<100	Chloroform = 0.62 ND, except:
	10/15/2010	1,800, g,k	1,500, g,k	1,200, h,i	NA	920, h,i	Chloroform = 0.96 ND, except Tetrachloroethene = 22 , Trichloroethene = 30 , cis-1,2-Dichloroethene = 33 , Vinyl Chloride = 29 , ter-Buryl benzene = 3.8 , 4-Ksopropyl toluene = 4.5

SUMMARY OF GROUNDWATER SAMPLE TPH, VOC, AND DISSOLVED GAS RESULTS

	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-MO	TPH-BO	VOCs by 8260B
ESL		100	100	100	100	100	Benzene = 1.0,
							Toluene = 40,
							Ethylbenzene = 30,
							Xylenes = 20,
							Tetrachloroethene $= 5.0$,
							Trichloroethene $= 5.0$,
							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-Butyl benzene = None,
							1,2,4-Trimethylbenzene = None,
							1,3,5-Trimethylbenzene = None,
							sec-Butyl benzene = None,
							Isopropylbenzene = None,
							tert-Butyl benzene = None,
							n-Propyl benzene = None,
							Carbon disulfide = None.
H-BO = Total 1 OCs = Volatile 0 D = Not Detecte A = Not Analyze See TPH-G rn Laboratory Nc Laboratory Nc Laboratory Nc Laboratory Nc results reporte Laboratory N Laboratory N Laboratory N Laboratory N Laboratory N Laboratory N	Petroleum Hydroca Organic Compound d. ed. esults in the line ab te: one to a few is obte: lighter than wa te: results reporte da s diesel consist d as diesel consist d as diesel consist ote: results reporte ote: results reporte ote: results reporte ote: results reporte ote: results reporte ote: no recognizabi ote: results reporte ote: no recognizabi ote: results reporte	ove. olated peaks present ter immiscible sheet d as gasoline consist d as disesel consist o of diseal range compo of oil range compo d as gasoline and St d as diesel and bunk le pattern. d as diesel and bunk le pattern.	, 'product present. of Stoddard Solvent/mi pounds; no recognizab nds. oddard solvent consist ar oil consist of diesel er oil consist of diesel er oil consist of diesel er oil consist of gasolii ker oil consist of keros	eral spirit. e pattern. of Stoddard Solvent/m rd Solvent/mineral sp range compounds; no ge compounds. ne range compounds. ene or jet fuel range co	irit. recognizable pattern. ompounds.		
Laboratory N MW2 VOC de Analysis by I Samples subc = Well Develo	etection limits are a EPA Method 8020. ontracted to differe opment Water store	Il increased because int lab for VOC anal d at site in drum; sul	e of a sample dilution f ysisby EPA Method 82 omitted to lab on Janua	uctor of 500. 60 1 28, 1994. '	ine or diesel range comp	oounds. CB)) updated May 2008,	

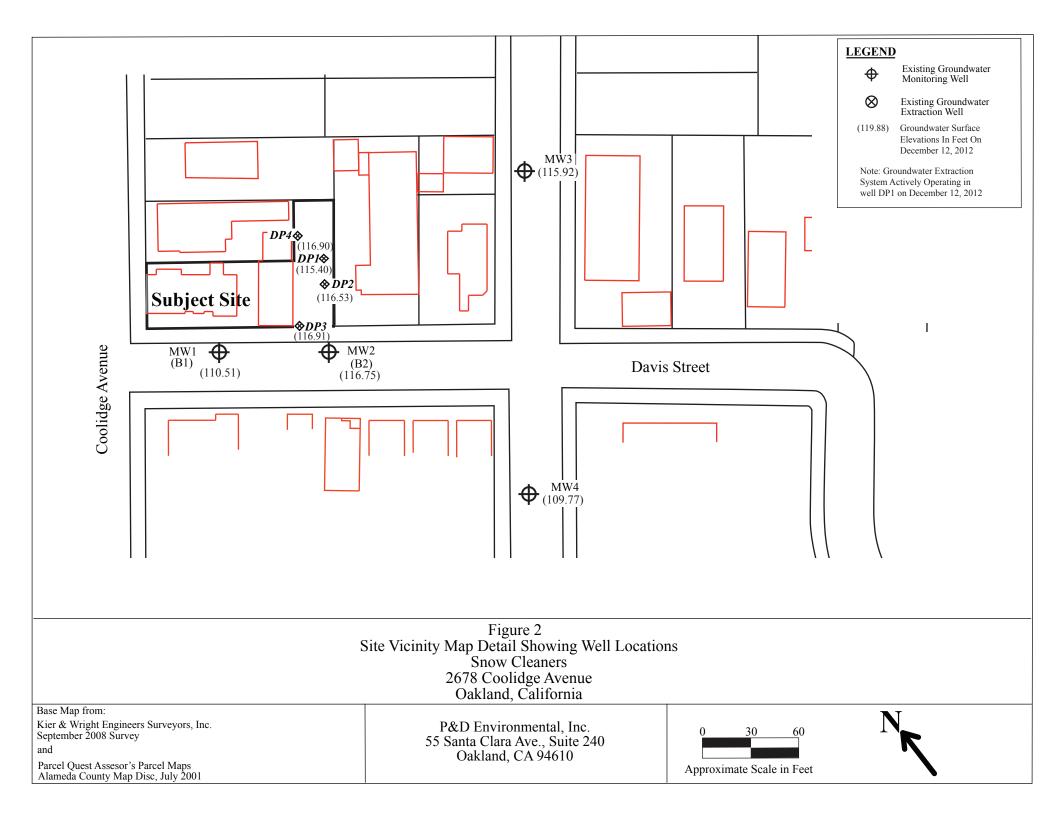
FIGURES

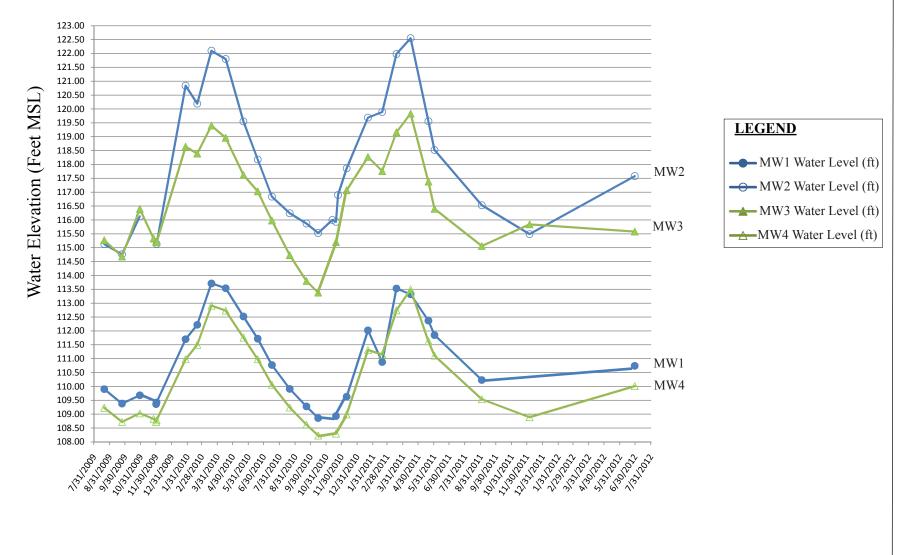


Site Location Map Snow Cleaners 2678 Coolodge Avenue Oakland, California

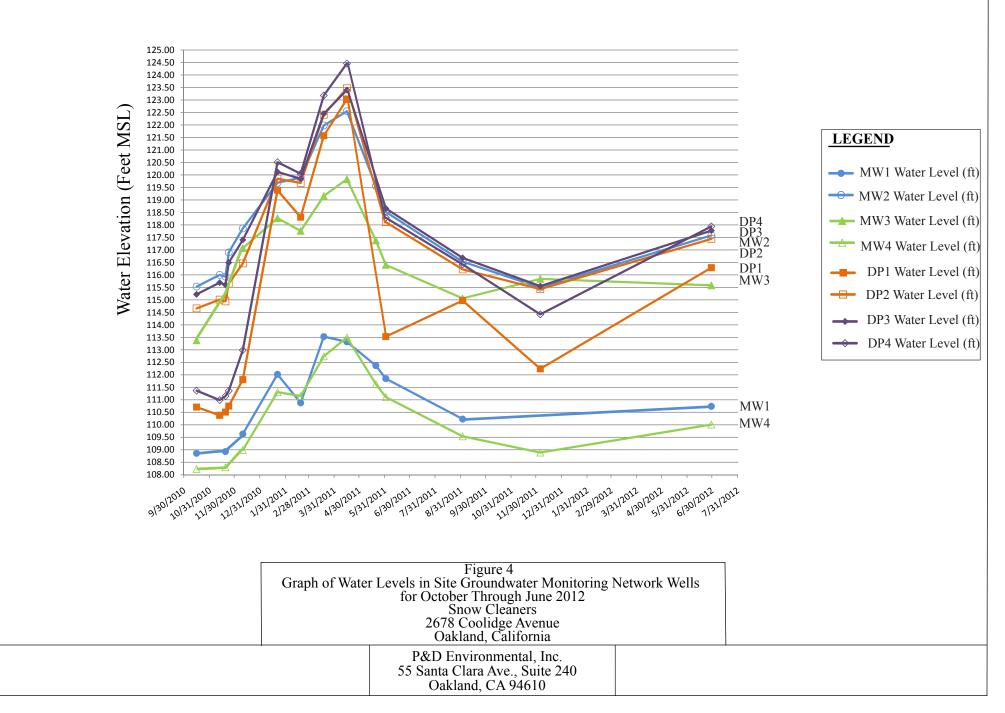
Base Map From: U.S. Geological Survey Oakland East, California 7.5-Minute Quadrangle Photorevised 1980

P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610 0 1,000 2,000 Approximate Scale In Feet





Graph of Water	Figure 3 • Levels in Site Groundwater Monitoring N for August 2009 Through June 2012 Snow Cleaners 2678 Coolidge Avenue Oakland, California		
	P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610		



GROUNDWATER MONITORING/WELL PURGING DATA SHEETS

Site Name	0298	- Snow C	leaners.	Oakland	v	Vell No. HW	- 1	
	0298				U	ate 05/14	113	
	er (ft.) 2				S	heen NON	و	_
	ft.) 44				F	ree Product Thickness_	đ	
	er 21				S	ample Collection Meth	od Perist	altic
	nL/minute)					pump +		
	"ime <u>10</u>					Sp. PE to		
State Light						. •	Oxidation/	
	Vol. Purged	Depth to		<u>Electrical</u> Conductivity	Temperature	Dissolved	Reduction Potential	Turbidity_
Time	<u>(mL)</u>	Water (ft.)	<u>pII</u>	(µS/cm)	(<u>C°</u>)	Oxvgen (mg/L)	(mV)	(NTU)
1034	250	22.41	646	792	19.7	1.11	166.9	6.98
1037	1,000	22.44	<u>6.49</u>	783	19.5	0.78	160.2	23 85
1040	1,750	22.44	6.49	783	19.5	0.67	155.3	31.05
1043	2,500	22.44	6-50	782	19.5	0.63	152.4	26.28
1046	3,250	22.44	6.49	783	19.5	0.61	152.5	22.85
1049	4,000	22.45	6.50	782	19:5	0.29	149-1	18-61
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					1997 - 1990 - 1999 1997 - 1999		12 <u>. (2</u>	8 <u></u>
NOTES		NO S	heint	no od	DY			
Stability Para p.H. = $+/-0.1$ Sp. Conductiv Turbidity -4 D.O. = $+/-10$	vity = +/-3% +/- 10%			1@ 10				

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Site Name Snow Cleaners	Oakland
Job Number 0293	
TOC to Water (ft.) 16.84	
Well Depth (ft.) 24 - 6	
Well Diameter	
Flow Rate (mL/minute) 250	
Start Purge Time 112	

Well No. Mut 2
Date 05/14/13
Sheen NONL
Free Product Thickness
Sample Collection Method Peristallie
pump + new unused
PE tubing

1

Time 1113 1116 1119 1122 1125 1128	Vol. Purged (ml.) 250 1,000 3,250 2,500 3,250 4,000	Depth to Water (ft.) 16.91 16.97 17.00 17.03 17.03 17.06 17.08	рн 6-64 6-65 6-67 6-69 6-71 6-71	Electrical Conductivity (uS/cm) 500 799 799 799 799 799 798 797	$\frac{16.2}{19.2}$ 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	Dissolved Oxygen(mg/L) 0.42 0.23 0.22 0.19 0.15 0.16	$\frac{\text{Oxidation}}{\text{Reduction}} \\ \frac{\text{Potential}}{(mV)} \\ \hline -66 \cdot 0 \\ \hline -85 \cdot 3 \\ \hline -96 \cdot 3 \\ \hline -95 \cdot 6 \\ \hline \end{array}$	$\frac{Turbidity}{(NTU)}$ $2 \cdot 80$ $0 \cdot 00$
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	-					53 1550-161		0 5. 00 .
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	901 - 90167 - Ah					encolais na 75	an dhaa	lander in the
<u>NOTES</u> Stability Para p.H. = +/- 0.1		MW-	- C - C	toddard Uectec	\sim	Hoder V	i nosi	ein

p.H. = +/- 0.1 Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

Site Name Snow Cleaners - Ocik	uland	Well No. MW-S
Job Number 0298		Date 05 14 13
TOC to Water (ft.) 20.43		Sheen NONE
Well Depth (ft.) 35.4		Free Product Thickness
Well Diameter 2"		Sample Collection Method Pen Stattic
Flow Rate (mL/minute) 250		pumpt dedicated PE tubing
Start Purge Time 1151		
Vol	Electrical	Oxidation/ Reduction

	Vol. Purged (mt.) 250 1,750 2,500 3,250 4,000	Depth to Water (ft.) 21.52 22.61 23.98 25.08 25.08 26.31 27.18	≥ 7·28 7·29 7·48 7·46 7·46 7·42 7·40	$\frac{\text{Electrical}}{(\mu S/cm)}$ $S32.7$ 520.4 324.1 251.4 236.1 238.1	I9.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	$\frac{Dissolved}{Oxygen(mg/L)} \\ 0.46 \\ 0.24 \\ (.48 \\ 3.28 \\ 4.01 \\ 4.22 \\ 4.22 \\ 4.22 \\ 1.01 \\$	Oxidation/ Reduction Potential (mV) 35:0 22:3 28:9 37:3 41:2	
and and a second se								
			0.0-0.000000000	and strates ad		2 7	N. 18	20
						···· •··		(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
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5. <u></u> 8			Torus contraction			10000 - 2000 - 200		
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8	7	1						
NOTES		•	1	<u></u>	·?			Constant attempt of the
		No	Sheen	+	~ 00	lor		
Stability Parar p.H. = +/- 0.1 Sp. Conductiv Turbidity = +.	ity = +/-3%	MW-3	collec	169 (0	1215			

D.O. = +/- 10%

Site Name_ Show Cleaners . Oakland Job Number 0298 TOC to Water (ft.) 24.32 Well Depth (ft.) 37 . 2 Well Diameter 211 Flow Rate (mL/minute) 225-250 Start Purge Time 1225

Well No. MN.Y
Date 05/14/13
Sheen None
Free Product Thickness 6
Sample Collection Method Penshaltic
pump + dedicated PE tubing

1

Time 1226 1229 1233 1235 1235 1238 1238	Vol. Purged (ml.) 1,000 1,750 2,500 3,250 4,000	Depth to Water (ft.) 24.46 24.48 24.48 24.48 24.49 24.49 24.49 24.49	H 6.67 6.65 6.65 6.65 6.64 6.63	$\frac{\text{Electrical}}{(\mu S/cm)}$ 448.8 515.7 527.2 529.6 524.7 529.9	Icmperature (C ²) 19.8 19.3 19.4 19.3 (9.3 (9.3)	Dissolved (Xvgen (mg/L) 1·42 1·61 0.95 0.96 0.96 0.92 0.91	$\frac{\text{Oxidation}}{\text{Reduction}}$ $\frac{\text{Reduction}}{\text{Potential}}$ (mV) 64.2 64.5 64.5 65.5 65.5 69.8 70.7	1.25 2.86 0.48 0.00 0.00
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<u>NOTES</u> <u>Stability Para</u> p.H. = +/- 0, Sp. Conducti Turbidity = -	1 ivity = +/-3%	no su Sampl	e col	and n lected	o edor O li	245		·

Turbidity = +/-D.O. = +/- 10%

Site Name Snow Cleaners, Oakland
Job Number 0298
TOC to Water (fl.) 21.82
Well Depth (ft.) 37.0
Well Diameter 4 U
Flow Rate (mL/minute) _250
Start Purge Time 1406

Well N	DP-1	
Date _	5/14/13	
Sheen	Yes	_

Free Product Thickness could not measure

Sample Collection Method Peristalfic

pump + new/unused

Time 1407 1410 1413 1416 1416 1419 1422	Vol. Purged (mL) 750 1,750 2,500 3,250 4,000	$\frac{\text{Depth to}}{\text{Water (fl.)}}$ $22 \cdot 01$ $22 \cdot 11$ $22 \cdot 15$ $22 \cdot 17$ $22 \cdot 18$	H 6.79 6.83 6.85 6.85 6.90 6.90	Electrical Conductivity (µS/cm) 500.0 493.8 493.1 493.4 493.6 492.0	Temperature (C ⁿ) 19·2 18·5 18·4 18·4 18·4 18·4	Dissolved. Oxygen (mg/L) 1.03 0.95 0.94 0.95 0.98	Oxidation/ <u>Reduction</u> <u>Potential</u> (mV) <u>102</u> ·1 <u>93</u> ·3 <u>87</u> ·1 <u>84</u> ·8 7 9·8 7 7·9	$\frac{\text{Turbidity}}{(\text{NTU})}$ 11.49 0.00 0.00 0.00 0.00 0.00 0.00
1120	<u> </u>	stat	0.10		<u> </u>			
					·			
			-				·	
								·
							-	
<u>NOTES</u> Stability Para p.H. = +/- 0.1			on sar		430	g stodd	and solu	vent oder

p.H. = +/- 0.1 Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

Electrical

Conductivity.

(µS/cm)

738

736

734

734

733

729

18.8

18.6

site Name Show Cleaners, Oaklar	d
Job Number 0298	
TOC to Water (ft.) 20.06	
Well Depth (ft.) _25.0	
Well Diameter 4 ¹¹	
Flow Rate (mL/minute) 250	
Start Purge Time 1546	

Depth to

Water (ft.)

20.31

20.35

20.40

20.52

20.59

<u>рН</u>

6.79

6 78

6.78

6.77

6.73

6.73

<u>Vol.</u>

Purged

(mL)

250

1556 2,500 20.47

Time

1547

1530 1,000

1553 1,750

1559 3,250

1602 4,000

g Data Sheet			
	Well No. DP- ?	2_	<u>-</u> 2
	Date 5141	13	
	Sheen NON	e	-
	Free Product Thickne	ss 🗭	_
	Sample Collection Me	ethod Peris	tallic
	pump +		
Temperature (C°)	<u>Dissolved</u> Oxygen (mg/L)	Oxidation/ <u>Reduction</u> Potential (mV)	<u>Turbidity</u> (NTU)
18.81	1.23	- 16.6	0.00
18.6	0.49	-22.8	0.00
18.6	0.37	-25.2	0,00
18.6	0.31	-29.4	0,00
18.5	0.25	-36.4	0000
18.5	0.24	-46.5	<u>00,0</u> 0
			alasarit ai
		8 <u> </u>	

NOTES

Mod - strong odor

Stability Parameters p.H. = +/-0.1Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

1610 DP-2 collected @

	Groundwater Monitoring wen't diging Data Sin							
Site Name	Snow	Cleaner	s- Oakl	and		Well No. DP-	3	2
Job Number	0298				Date 5 14/13			
TOC to Wate	er (fl.)_18	.84				Sheen nor	e	
Well Depth ((ft.) 27	·D				Free Product Thicknes	s ø	-
Well Diamet	ter 4"					Sample Collection Me	thod perista	altic
	nL/minute) 🤿	50				pump + r	reiolun	used
Start Purge 7	Time 13	ne 1315				PE tu	bing	
	14-1			Classical			Oxidation/ Reduction	
T :	Vol. Purged	Depth to	-11	Electrical Conductivity	Temperature (C°)	Dissolved Oxygen (mg/L)	Potential (mV)	Turbidity (NTU)
1316	(mL) 750	Water (ft.)	™ 6.68	(<u>μS/cm)</u>	19.2	0.61	- 54.3	0.00
1319	1,000	19.03	6.73	729	19.0	0.40	-62.1	0.00
1322	1,750	19.12	6.74	732	19.0	0.30	-65.5	0.00
1525		19.22	6.74	732	19.0	0.28	-67.0	0.00
1328	3,250	19.25	6.72	732	19.0	0.26	-68.5	0.00
1531	4,000	19.27	6.72	733	19.0		-70.2	0.00
			6-14					
						0		
				·		- <u></u>		
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NOTES		Light-	Modora	ted sto	ddard	solvent	odar M	oshoin
Stability Para p.H. = $\pm/-0.1$				ched				

Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

Site Name Snow Cleaners, Oakland
Job Number 0298
TOC to Water (ft.) 20 to
Well Depth (ft.)38 - 0
Well Diameter 4
Flow Rate (mL/minute) 250
Start Purge Time 1440

Well No. DP-4	
Date 51413	
Sheen None	
Free Product Thickness 🧳	
Sample Collection Method Peristal	ic

PE tubing

	••	$\frac{\text{Depth to}}{\text{Water(ft)}}$ $\frac{20.82}{20.84}$ $\frac{20.84}{20.88}$ $\frac{20.88}{20.88}$ $\frac{20.88}{20.88}$	H 6.89 6.81 6.81 6.80 6.80 6.80	Electrical <u>Conductivity</u> (us/cm) 463:5 <u>448</u> .6 <u>448</u> .6 <u>446</u> .2 <u>447</u> .2 <u>443.3</u> <u>444.0</u>	17.8	$\frac{\text{Dissolved}}{(2 \times 99)}$ $\frac{2 \cdot 41}{4 \cdot 99}$ $\frac{5 \cdot 49}{5 \cdot 23}$ $\frac{5 \cdot 69}{6 \cdot 15}$	$\frac{0 \text{xidation}}{\text{Reduction}}$ $\frac{\text{Potential}}{(mV)}$ $-6^{2}2$ $8^{3}3$ $18^{9}4$ $30^{8}8$ 39.1 44.7	Turbidity (NTU) 80-00 44.00 22.60 27.80 10.90 4.04
				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		(*) 10 - 10		
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	$\label{eq:addition} = add^{-} dd^{-} (add^{-} $		·····					
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	<u></u>						••••••••••••••••••••••••••••••••••••••	$\varphi_{A,a} = (-z_{A,b},z_{a}) = -z_{a}$
	annad a for first of a	1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -						
				a 				
NOTES Stability Par p.H. = $+/- 0$. Sp. Conduct Turbidity =	l ivity = 1/-3% +/- 10%	NO	sheen			cluent_c	dor	

D.O. = +/- 10%

site Name Show Cleaners-Oakland
Job Number0298
TOC to Water (ft.) NO water encountered
Well Depth (ft.)
Well Diameter 4"
Flow Rate (mL/minute) NA
Start Purge Time NIA

Well No. VE-1
Date 5/14/13
Sheen BNA
Free Product Thickness 💋
Sample Collection Method NA
no sample collected

Time	<u>Vol.</u> Purged (ml.)	Depth (o Water (ft.)	р <u>Н</u>	Electrical Conductivity (µS/cm)	Temperature (C°)	Dissolved Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	<u>Turbidity</u> (NTU)
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			<u></u>	<u> </u>				
<u>NOTES</u> Stability Para	ameters	Monito	red on h	t; no s	ample (ellected		

p.H. = +/- 0,1 Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

Site Name Snow Cleaners - Oakland
Job Number 0298
TOC to Water (ft.) NO water encounter
Well Depth (ft.) 17.03
Well Diameter 4 ¹¹
Flow Rate (mL/minute)
Start Purge Time NA

Date	51	14]	13	
		•		
Sheen	N	IA		

Sample Collection Method NA Monitored only, no Sample collected.

Time	<u>Vol.</u> Purged (mL)	<u>Depth to</u> Water (ft.)	рН	Electrical Conductivity (µS/cm)	<u>Temperature</u> (C ⁿ)	Dissolved Oxygen (mg/L)	Oxidation/ Reduction Potential (mV)	<u>Turbidity</u> (NTU)
	and the second second							·
	\neq	<u></u>	0.0000				$(x_1, x_2, \dots, x_n) \in \{x_1, x_2, \dots, x_n\}$	
		<u></u>						·
								19 <u>19-01 (</u> 19
<u> </u>								
$\label{eq:matrix} d_{matrix} = 1 b_{1} (\mathbf{y}_{1}, \mathbf{w}_{2}, \mathbf{w}_{3}, \mathbf{w}_{3}, \mathbf{w}_{3})$	•			F	D		11.0 C	
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B7								
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						<u>10</u>		
<u>NOTES</u> Stability Par	ameters	MOV	ibred	only; r	10 samp	le collec	bed_	

p.H. = +/- 0.1 Sp. Conductivity = +/-3% Turbidity = +/- 10% D.O. = +/- 10%

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LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

P & D Environmental	Client Project ID: #0298; Snow Cleaners	Date Sampled:	05/14/13
55 Santa Clara, Ste.240		Date Received:	05/15/13
55 Sulla Chala, 510.2 10	Client Contact: Paul King	Date Reported:	05/21/13
Oakland, CA 94610	Client P.O.:	Date Completed:	05/21/13

WorkOrder: 1305480

May 22, 2013

Dear Paul:

Enclosed within are:

- 1) The results of the **8** analyzed samples from your project: **#0298; Snow Cleaners,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

	С	HAI	N O	FC	USTODY	RE	C	DR	D		£	20	54	+8	FG		PA	GE _	– OF	_
P&D	ENVIE 55 Santa Oal		IEN e., Sui 9461							12180		//	//	/	//	//	/	/		
PROJECT NUMBER:		5nc 267 0a	80	NAME: Clean Clean	dge Ave,	NUMBER OF CONTAINERS	NALW	ITH-HULL R.	Aller	1 81	9995	//	//			IVE				
SAMPLED BY: (PRIN Michael Desc SAMPLE NUMBER			ich		Descharenter Alexandre Ale	NUMBER OF	V III	mn-H	- AN	19/20	/	/ /	/ /	/	PRESERVE	IMAN	R	EMARK	.S	
MW-1 MW-2	5/14/13	1055 H	20			F F	X		X				1		ICE	NO	ma	1 Tur		me
HW-3 HW-4		1215				7	x		X X											+
DP-2 DP-3		1430 1610 1535				7	X		X X X				+						\pm	_
DP-4		1500				7	×		X						1		-		7	1
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RELINQUISHED BY: (SIGNAT	chine	7 5	ATE	TIME	RECEIVED BY: (S		-			Total N (This S	to, of C Shipmer	ontainer it)	56_	-	MCC	amp	bell	Ana DNE NUM	Hytic MBER:	dIn
RELINQUISHED BY: (SIGNAT			S/13	TIME	RECEIVED FOR L	ABORA	PRY	A:		SAM		ANAL	YSIS R		EST SI			926	2	
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com					REMARKS: ALL	VD	As	P	re	ser	ved		>/ +	HC	1.					

Page 2 of 18

McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

(925) 252-9262					W	orkOrd	ler: 13054	80	Clie	ntCode:	PDEO				
		□WaterTrax	WriteOn	EDF	Ex	cel	EQui	5 🗸	Email	⊟Ha	rdCopy	ThirdP	Party	_J-flag	9
Report to:						Bill t	o:				Req	uested TAT	:	5 da	ays
Paul King		Email: la	ab@pdenviro.c	com			Accounts	Payable							-
P & D Environmental		cc:					P & D Env	ironmen	tal						
55 Santa Clara, Ste.240		PO:					55 Santa (Clara, St	e.240		Dat	e Received	<i>l:</i>	05/15/20)13
Ookland CA 04610	ProjectNo: +	#0298; Snow C	looporo	Oakland, CA 94610				Date Printed: 0			05/15/20	113			
Oakland, CA 94610			40296, SHOW C	leaners			Oakianu, v		0		Dui	e r rinea:		03/13/20	,15
	510-834-0152		40296, SHOW C	leaners			Oakianu, V	5401	0		Dui	e I rinieu:		03/13/20	/15
•	510-834-0152		-0296, Show C				Uarianu, v			Tests (See				03/13/20	
•	510-834-0152 Client ID		Matrix	Collection Date	Hold	1	2 3			Tests (See		below)	10	11	12
(510) 658-6916 FAX: 5	Client ID			Collection Date	Hold	1			equested	Tests (See	legend	below)			
(510) 658-6916 FAX: 5					Hold	1 B			equested	Tests (See	legend	below)			
(510) 658-6916 FAX: 5	Client ID		Matrix	Collection Date	Hold	1	2 3		equested	Tests (See	legend	below)			

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5/14/2013 12:45

5/14/2013 14:30

5/14/2013 16:10

5/14/2013 15:35

5/14/2013 15:00

Test Legend:

1305480-004

1305480-005

1305480-006

1305480-007

1305480-008

1	8260B_W	2 G-MBTEX_W	3 TPH(D)_W	4	5
6		7	8	9	10
11		12			

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A contain testgroup.

MW-4

DP-1

DP-2

DP-3

DP-4

Water

Water

Water

Water

Water

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: Zoraida Cortez



Sample Receipt Checklist

Client Name: P & D Environmental				Date	Date and Time Received: 5/15/2013 9:29:41 PM			
Project Name: #0298; Snow Cleaners					LogIn	LogIn Reviewed by:		Zoraida Cortez
WorkOrder N°:	1305480	Matrix: Water			Carrie	er: <u>Rob Pringle (M</u>	AI Courier)	
Chain of Custody (COC) Information								
Chain of custody present?				✓	No 🗌			
Chain of custody signed when relinquished and received?				✓	No 🗌			
Chain of custody agrees with sample labels?				✓	No 🗌			
Sample IDs noted by Client on COC?				✓	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 rece	ived within holdir	g time?	Yes	✓	No 🗌			
Container/Temp Blank temperature		Coole	Temp:	1.6°C		NA		
Water - VOA vials have zero headspace / no bubbles?		Yes	✓	No 🗌	No VOA vials submi	itted		
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.								

Comments:

	:	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com									
P & D Environmental			D: #02	298; Snow	Date Sampled:	05/14/13					
	Cleaner	S			Date Received:	05/15/13					
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ing	Date Extracted:	cted: 05/16/13					
Oakland, CA 94610	Client H				Date Analyzed:						
, 			0.75			05/10/15					
	Volatile Organ	•		d GC/MS (Basic T	arget List)*	W. 1 O 1 4000					
Extraction Method: SW5030B		Analy	tical Metho	od: SW8260B		Work Order: 13054	80				
Lab ID Client ID				1305480							
	Client ID MW-1 Matrix Water										
Compound	Concentration *	DF	Reporting	Compour		Concentration *	DF	Reporting			
· · · · · · · · · · · · · · · · · · ·			Limit					Limit			
Acetone Benzene	ND ND	1.0	10 0.5	tert-Amyl methyl ethe Bromobenzene	r (IAME)	ND ND	1.0 1.0	0.5			
Bromochloromethane	ND	1.0	0.5	Bromobenzene Bromodichloromethar	20	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)	1	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		0.95	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-Dichloroethe	ene	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-Dichloropro	pene	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 (1	,	ND	1.0	0.5			
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone	e (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-Tetrachloroeth	lane	ND	1.0	0.5			
1,1,2,2-Tetrachloroethane Toluene	ND ND	1.0 1.0	0.5	Tetrachloroethene 1,2,3-Trichlorobenzen	10	ND ND	1.0 1.0	0.5			
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,2,3-Trichlorobenzen		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-Trichloropropan	e	ND	1.0	0.5			
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzer		ND	1.0	0.5			
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total		ND	1.0	0.5			
<u> </u>	L			ecoveries (%)							
%SS1:	10		Saw R	%SS2:		113	3				
%\$\$\$1: %\$\$3:	92			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11.	-				
Comments:				<u> </u>							

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



	ll Analytica Quality Counts''	II, Inc.	:	Toll Free Teleph	Pass Road, Pittsburg, one: (877) 252-9262 / 1 npbell.com / E-mail: ma	Fax: (925) 252-9269		
P & D Environmental	Client	Project II	D: #02	298; Snow	Date Sampled	l: 05/14/13		
	Cleane	rs			Date Received	d: 05/15/13		
55 Santa Clara, Ste.240	Client	Contact:	Paul K	ing	Date Extracte	d: 05/17/13		
Oakland, CA 94610	Client		1 441 11		Date Analyze			
- · · · · · · · · · · · · · · · · · · ·			0.75			u. 05/17/15		
Extraction Method: SW5030B	Volatile Organ	·		d GC/MS (Basic ' od: SW8260B	l'arget List)*	Work Order: 1305	490	
Lab ID		Anaryt	ical Meth	130548	0.0020	work order. 1505	400	
Client ID				130348 MV				
Matrix				Wa				
Compound	Concentration *	DF	Reporting Limit	Compou	nd	Concentration *	DF	Reporting Limit
Acetone	ND<250	25	10	tert-Amyl methyl eth		ND<12	25	0.5
Benzene	ND<12	25	0.5	Bromobenzene	(ND<12	25	0.5
Bromochloromethane	ND<12	25	0.5	Bromodichlorometha	ne	ND<12	25	0.5
Bromoform	ND<12	25	0.5	Bromomethane		ND<12	25	0.5
2-Butanone (MEK)	ND<50	25	2.0	t-Butyl alcohol (TBA	.)	ND<50	25	2.0
n-Butyl benzene	ND<12	25	0.5	sec-Butyl benzene	,	ND<12	25	0.5
tert-Butyl benzene	ND<12	25	0.5	Carbon Disulfide		ND<12	25	0.5
Carbon Tetrachloride	ND<12	25	0.5	Chlorobenzene		ND<12	25	0.5
Chloroethane	ND<12	25	0.5	Chloroform		ND<12	25	0.5
Chloromethane	ND<12	25	0.5	2-Chlorotoluene		ND<12	25	0.5
4-Chlorotoluene	ND<12	25	0.5	Dibromochloromethane		ND<12	25	0.5
1,2-Dibromo-3-chloropropane	ND<5.0	25	0.2	1,2-Dibromoethane (EDB)		ND<12	25	0.5
Dibromomethane	ND<12	25	0.5	1,2-Dichlorobenzene		ND<12	25	0.5
1,3-Dichlorobenzene	ND<12	25	0.5	1,4-Dichlorobenzene		ND<12	25	0.5
Dichlorodifluoromethane	ND<12	25	0.5	1,1-Dichloroethane		ND<12	25	0.5
1,2-Dichloroethane (1,2-DCA)	ND<12	25	0.5	1,1-Dichloroethene		ND<12	25	0.5
cis-1,2-Dichloroethene	520	25	0.5	trans-1,2-Dichloroeth	iene	14	25	0.5
1,2-Dichloropropane	ND<12	25	0.5	1,3-Dichloropropane		ND<12	25	0.5
2,2-Dichloropropane	ND<12	25	0.5	1,1-Dichloropropene		ND<12	25	0.5
cis-1,3-Dichloropropene	ND<12	25	0.5	trans-1,3-Dichloropro	opene	ND<12	25	0.5
Diisopropyl ether (DIPE)	ND<12	25	0.5	Ethylbenzene		ND<12	25	0.5
Ethyl tert-butyl ether (ETBE)	ND<12	25	0.5	Freon 113		ND<250	25	10
Hexachlorobutadiene	ND<12	25	0.5	Hexachloroethane		ND<12	25	0.5
2-Hexanone	ND<12	25	0.5	Isopropylbenzene		ND<12	25	0.5
4-Isopropyl toluene	ND<12	25	0.5	Methyl-t-butyl ether	(MTBE)	ND<12	25	0.5
Methylene chloride	ND<12	25	0.5	4-Methyl-2-pentanon	e (MIBK)	ND<12	25	0.5
Naphthalene	ND<12	25	0.5	n-Propyl benzene		ND<12	25	0.5
Styrene	ND<12	25	0.5	1,1,1,2-Tetrachloroet	hane	ND<12	25	0.5
1,1,2,2-Tetrachloroethane	ND<12	25	0.5	Tetrachloroethene		ND<12	25	0.5
Toluene	ND<12	25	0.5	1,2,3-Trichlorobenze		ND<12	25	0.5
1,2,4-Trichlorobenzene	ND<12	25	0.5	1,1,1-Trichloroethane	2	ND<12	25	0.5
1,1,2-Trichloroethane	ND<12	25	0.5	Trichloroethene		ND<12	25	0.5
Trichlorofluoromethane	ND<12	25	0.5	1,2,3-Trichloropropa		ND<12	25	0.5
1,2,4-Trimethylbenzene	47	25	0.5	1,3,5-Trimethylbenze	ene	14	25	0.5
Vinyl Chloride	60	25	0.5	Xylenes, Total		25	25	0.5
	1		ogate R	ecoveries (%)		1		
%SS1:	10			%SS2:		11	2	
%SS3:	9	0						
Comments:								

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



	ll Analytica Quality Counts''	l, Inc.	•	Toll Free Teleph	Pass Road, Pittsburg, one: (877) 252-9262 / / npbell.com / E-mail: m	CA 94565-1701 Fax: (925) 252-9269 ain@mccampbell.com				
P & D Environmental		•	D: #02	298; Snow	Date Sampled	d: 05/14/13				
	Cleaner	S			Date Receive	d: 05/15/13				
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ing	Date Extracte	ed: 05/16/13				
Oakland, CA 94610	Client F		1 441 11		Date Analyze					
· · · · · · · · · · · · · · · · · · ·			е т	d CC/MS (Decie /	2					
Extraction Method: SW5030B	volatile Organ	•		d GC/MS (Basic 7	l'arget List)*	Work Order: 13054	180			
Lab ID				130548						
Client ID				MV						
Matrix		DE	Reporting	Wa			DE	Reporting		
Compound	Concentration *	DF	Limit	Compou		Concentration *	DF	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	Bromodichlorometha	ne	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 ND	1.0	0.5		
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroeth	lene		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 1.0	0.5	trans-1,3-Dichloropro	opene	ND	1.0	0.5		
Diisopropyl ether (DIPE)	ND		0.5	Ethylbenzene		ND	1.0	0.5		
Ethyl tert-butyl ether (ETBE) Hexachlorobutadiene	ND ND	1.0 1.0	0.5	Freon 113 Hexachloroethane		ND ND	1.0 1.0	0.5		
2-Hexanone		1.0	0.5			ND	1.0	0.5		
4-Isopropyl toluene	ND ND	1.0		Isopropylbenzene Methyl-t-butyl ether ((MTBE)	ND	1.0	0.5		
4-isopropyi toluene Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanon		ND	1.0	0.5		
Naphthalene	ND	1.0	0.5	a-Propyl benzene		ND	1.0	0.5		
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroet	hane	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-Trichlorobenze	ne	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-Trichloropropa	ne	ND	1.0	0.5		
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenze		ND	1.0	0.5		
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total		ND	1.0	0.5		
·				• • •			1.0	0.0		
0/ 551.	10		ogate R	ecoveries (%)		1.17)			
%SS1:	108 %SS2: 110									
%SS3:	89	1]						

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



	ll Analytica Quality Counts''	l, Inc.		Toll Free Teleph	Pass Road, Pittsburg, C one: (877) 252-9262 / F npbell.com / E-mail: ma	ax: (925) 252-9269				
P & D Environmental			D: #02	298; Snow	Date Sampled	: 05/14/13				
55 0	Cleaner	rs			Date Received	: 05/15/13				
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ing	Date Extracted	ed: 05/18/13				
Oakland, CA 94610	Client I		1 441 11		Date Analyzed					
			е т							
Extraction Method: SW5030B	volatile Organ	•		d GC/MS (Basic 7	l arget List)*	Work Order: 13054	180			
Lab ID				130548						
Client ID				MV						
Matrix			Reporting	Wa				Reporting		
Compound	Concentration *	DF	Limit	Compou	nd	Concentration *	DF	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	Bromodichlorometha	ne	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		1.6	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 ND	1.0	0.2	1,2-Dibromoethane (EDB)		ND ND	1.0 1.0	0.5		
Dibromomethane				1,2-Dichlorobenzene		ND		0.5		
1,3-Dichlorobenzene Dichlorodifluoromethane	ND ND	1.0	0.5	1,4-Dichlorobenzene		ND	1.0	0.5		
1,2-Dichloroethane (1,2-DCA)		1.0	0.5	1,1-Dichloroethene		ND	1.0	0.5		
cis-1,2-Dichloroethene	ND 15	1.0	0.5	trans-1,2-Dichloroeth	000	ND	1.0	0.5		
,	ND	1.0	0.5	1,3-Dichloropropane	lene	ND	1.0	0.5		
1,2-Dichloropropane 2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropane		ND	1.0	0.5		
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropro	nono	ND	1.0	0.5		
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ppene	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	(MTRE)	ND	1.0	0.5		
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanon		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-Tetrachloroet	hane	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-Trichlorobenzer	ne	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-Trichloropropa	ne	ND	1.0	0.5		
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenze		ND	1.0	0.5		
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total		ND	1.0	0.5		
		Surr	ogate R	ecoveries (%)						
%SS1:	11		-Butt I	%SS2:		100	í			
%\$\$\$1: %\$\$3:	85									
Comments:	0.	-		1						

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



	ll Analytica Quality Counts''	l, Inc	•	Toll Free Telepho	Pass Road, Pittsburg, C. one: (877) 252-9262 / Fa npbell.com / E-mail: main	ax: (925) 252-9269				
P & D Environmental		•	D: #02	298; Snow	Date Sampled:	05/14/13				
55 Sente Classe Sta 240	Cleaner	rs			Date Received	: 05/15/13				
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ling	Date Extracted	cted: 05/21/13				
Oakland, CA 94610	Client I	P.O.:			Date Analyzed	: 05/21/13				
	Volatile Organ	ics by P	&T an	d GC/MS (Basic]	Farget List)*					
Extraction Method: SW5030B	U	•		od: SW8260B	0 /	Work Order: 13054	180			
Lab ID				1305480	0-005B					
Client ID				DP						
Matrix				Wa	ter					
Compound	Concentration *	DF	Reporting Limit	Compou	nd	Concentration *	DF	Reporting Limit		
Acetone	ND<250	25	10	tert-Amyl methyl ethe	er (TAME)	ND<12	25	0.5		
Benzene	ND<12	25	0.5	Bromobenzene		ND<12	25	0.5		
Bromochloromethane	ND<12	25	0.5	Bromodichlorometha	ne	ND<12	25	0.5		
Bromoform	ND<12	25	0.5	Bromomethane		ND<12	25	0.5		
2-Butanone (MEK)	ND<50	25	2.0	t-Butyl alcohol (TBA))	ND<50	25	2.0		
n-Butyl benzene	ND<12	25	0.5	sec-Butyl benzene		ND<12	25	0.5		
tert-Butyl benzene	ND<12	25	0.5	Carbon Disulfide		ND<12	25	0.5		
Carbon Tetrachloride	ND<12	25	0.5	Chlorobenzene		ND<12	25	0.5		
Chloroethane	ND<12	25	0.5	Chloroform		ND<12	25	0.5		
Chloromethane	ND<12	25	0.5	2-Chlorotoluene		ND<12	25	0.5		
4-Chlorotoluene	ND<12	25	0.5	Dibromochloromethane		ND<12	25	0.5		
1,2-Dibromo-3-chloropropane	ND<5.0	25	0.2	1,2-Dibromoethane (EDB)		ND<12	25	0.5		
Dibromomethane	ND<12	25	0.5	1,2-Dichlorobenzene	ND<12	25	0.5			
1,3-Dichlorobenzene	ND<12	25	0.5	1,4-Dichlorobenzene		ND<12	25	0.5		
Dichlorodifluoromethane	ND<12	25	0.5	1,1-Dichloroethane		ND<12	25	0.5		
1,2-Dichloroethane (1,2-DCA)	ND<12	25	0.5	1,1-Dichloroethene		ND<12	25	0.5		
cis-1,2-Dichloroethene	150	25	0.5	trans-1,2-Dichloroeth	ene	ND<12	25	0.5		
1,2-Dichloropropane	ND<12	25	0.5	1,3-Dichloropropane		ND<12	25	0.5		
2,2-Dichloropropane	ND<12	25	0.5	1,1-Dichloropropene		ND<12	25	0.5		
cis-1,3-Dichloropropene	ND<12	25	0.5	trans-1,3-Dichloropro	opene	ND<12	25	0.5		
Diisopropyl ether (DIPE)	ND<12	25	0.5	Ethylbenzene		ND<12	25	0.5		
Ethyl tert-butyl ether (ETBE)	ND<12	25	0.5	Freon 113		ND<250	25	10		
Hexachlorobutadiene	ND<12	25	0.5	Hexachloroethane		ND<12	25	0.5		
2-Hexanone	ND<12	25	0.5	Isopropylbenzene		ND<12	25	0.5		
4-Isopropyl toluene	ND<12	25	0.5	Methyl-t-butyl ether (MTBE)	ND<12	25	0.5		
Methylene chloride	ND<12	25	0.5	4-Methyl-2-pentanon	e (MIBK)	ND<12	25	0.5		
Naphthalene	ND<12	25	0.5	n-Propyl benzene		ND<12	25	0.5		
Styrene	ND<12	25	0.5	1,1,1,2-Tetrachloroeth	hane	ND<12	25	0.5		
1,1,2,2-Tetrachloroethane	ND<12	25	0.5	Tetrachloroethene		380	25	0.5		
Toluene	ND<12	25	0.5	1,2,3-Trichlorobenzer		ND<12	25	0.5		
1,2,4-Trichlorobenzene	ND<12	25	0.5	1,1,1-Trichloroethane	;	ND<12	25	0.5		
1,1,2-Trichloroethane	ND<12	25	0.5	Trichloroethene		180	25	0.5		
Trichlorofluoromethane	ND<12	25	0.5	1,2,3-Trichloropropar		ND<12	25	0.5		
1,2,4-Trimethylbenzene	ND<12	25	0.5	1,3,5-Trimethylbenze	ne	ND<12	25	0.5		
Vinyl Chloride	ND<12	25	0.5	Xylenes, Total		ND<12	25	0.5		
		Surr	ogate R	ecoveries (%)						
%SS1:	106 %SS2: 113									
%SS3:	9	1]						
Comments:										

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



	ll Analytica Quality Counts''	II, Inc.		Toll Free Telep		g, CA 94565-1701 / Fax: (925) 252-9269 main@mccampbell.com					
P & D Environmental) : #02	298; Snow	Date Sample	ed: 05/14/13					
	Cleane	rs			Date Receiv	red: 05/15/13					
55 Santa Clara, Ste.240	Client	Contact:	Paul K	ling	Date Extract	ted: 05/21/13	1. 05/21/13				
Oakland, CA 94610	Client		uur r								
Oukland, Cri 9 1010						zed: 05/21/13					
Extraction Method: SW5030B	Volatile Organ	•		d GC/MS (Basic od: SW8260B	Target List)*	Work Order: 13054	480				
Lab ID Client ID Matrix				D	80-006B P-2 Vater						
Compound	Concentration *	DF	Reporting Limit	Compo	und	Concentration *	DF	Reporting Limit			
Acetone	ND<5000	500	10	tert-Amyl methyl eth		ND<250	500	0.5			
Benzene	ND<250	500	0.5	Bromobenzene	× /	ND<250	500	0.5			
Bromochloromethane	ND<250	500	0.5	Bromodichlorometh	ane	ND<250	500	0.5			
Bromoform	ND<250	500	0.5	Bromomethane		ND<250	500	0.5			
2-Butanone (MEK)	ND<1000	500	2.0	t-Butyl alcohol (TBA	A)	ND<1000	500	2.0			
n-Butyl benzene	ND<250	500	0.5	sec-Butyl benzene		ND<250	500	0.5			
tert-Butyl benzene	ND<250	500	0.5	Carbon Disulfide		ND<250	500	0.5			
Carbon Tetrachloride	ND<250	500	0.5	Chlorobenzene		ND<250	500	0.5			
Chloroethane	ND<250	500	0.5	Chloroform		ND<250	500	0.5			
Chloromethane	ND<250	500	0.5	2-Chlorotoluene		ND<250	500	0.5			
4-Chlorotoluene	ND<250	500	0.5	Dibromochloromethane		ND<250	500	0.5			
1,2-Dibromo-3-chloropropane	ND<100	500	0.2	1,2-Dibromoethane (EDB)		ND<250	500	0.5			
Dibromomethane	ND<250	500	0.5	1,2-Dichlorobenzen	e	ND<250	500	0.5			
1,3-Dichlorobenzene	ND<250	500	0.5	1,4-Dichlorobenzen	e	ND<250	500	0.5			
Dichlorodifluoromethane	ND<250	500	0.5	1,1-Dichloroethane		ND<250	500	0.5			
1,2-Dichloroethane (1,2-DCA)	ND<250	500	0.5	1,1-Dichloroethene		ND<250	500	0.5			
cis-1,2-Dichloroethene	11,000	500	0.5	trans-1,2-Dichloroet	hene	ND<250	500	0.5			
1,2-Dichloropropane	ND<250	500	0.5	1,3-Dichloropropane	e	ND<250	500	0.5			
2,2-Dichloropropane	ND<250	500	0.5	1,1-Dichloropropene	e	ND<250	500	0.5			
cis-1,3-Dichloropropene	ND<250	500	0.5	trans-1,3-Dichlorop	ropene	ND<250	500	0.5			
Diisopropyl ether (DIPE)	ND<250	500	0.5	Ethylbenzene		ND<250	500	0.5			
Ethyl tert-butyl ether (ETBE)	ND<250	500	0.5	Freon 113		ND<5000	500	10			
Hexachlorobutadiene	ND<250	500	0.5	Hexachloroethane		ND<250	500	0.5			
2-Hexanone	ND<250	500	0.5	Isopropylbenzene		ND<250	500	0.5			
4-Isopropyl toluene	ND<250	500	0.5	Methyl-t-butyl ether		ND<250	500	0.5			
Methylene chloride	ND<250	500	0.5	4-Methyl-2-pentano	ne (MIBK)	ND<250	500	0.5			
Naphthalene	ND<250	500	0.5	n-Propyl benzene		ND<250	500	0.5			
Styrene	ND<250	500	0.5	1,1,1,2-Tetrachloroe	ethane	ND<250	500	0.5			
1,1,2,2-Tetrachloroethane	ND<250	500	0.5	Tetrachloroethene		ND<250	500	0.5			
Toluene	ND<250	500	0.5	1,2,3-Trichlorobenz		ND<250	500	0.5			
1,2,4-Trichlorobenzene	ND<250	500	0.5	1,1,1-Trichloroethar	ne	ND<250	500	0.5			
1,1,2-Trichloroethane	ND<250	500	0.5	Trichloroethene		ND<250	500	0.5			
Trichlorofluoromethane	ND<250	500	0.5	1,2,3-Trichloropropa		ND<250	500	0.5			
1,2,4-Trimethylbenzene	ND<250	500	0.5	1,3,5-Trimethylbenz	zene	ND<250	500	0.5			
Vinyl Chloride	2300	500	0.5	Xylenes, Total		ND<250	500	0.5			
		Surro	gate R	ecoveries (%)							
%SS1:	10			%SS2:		11	3				
%SS3:	9	2									
Comments:											

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



	ll Analytica Quality Counts''	l, Inc.		Toll Free Telephor	Pass Road, Pittsburg, C ne: (877) 252-9262 / Fa obell.com / E-mail: mai	ax: (925) 252-9269				
P & D Environmental		5	D: #02	298; Snow	Date Sampled:	05/14/13				
55.0 (61 0) 040	Cleaner	S			Date Received	: 05/15/13				
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ing	Date Extracted	red: 05/20/13				
Oakland, CA 94610	Client I		1 441 11		Date Analyzed					
					2	. 03/20/13				
Extraction Method: SW5030B	Volatile Organ	•		d GC/MS (Basic T od: SW8260B	arget List)*	Work Order: 13054	80			
Lab ID				1305480						
Client ID				DP-						
Matrix			Reporting	Wat				Reporting		
Compound	Concentration *	DF	Limit	Compour	ıd	Concentration *	DF	Limit		
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)		ND	1.0	0.5		
Benzene	0.85	1.0	0.5	Bromobenzene		ND	1.0	0.5		
Bromochloromethane	ND	1.0	0.5	Bromodichloromethan	e	ND	1.0	0.5		
Bromoform	ND	1.0	0.5	Bromomethane		ND	1.0	0.5		
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)		ND	1.0	2.0		
n-Butyl benzene	1.5	1.0	0.5	sec-Butyl benzene		1.7	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 ND	1.0	0.5		
Chloroethane	ND	1.0	0.5	Chloroform 2-Chlorotoluene			1.0	0.5		
Chloromethane	ND	1.0	0.5			ND	1.0	0.5		
4-Chlorotoluene	ND	1.0 1.0	0.5	Dibromochloromethane		ND ND	1.0 1.0	0.5		
1,2-Dibromo-3-chloropropane Dibromomethane	ND ND	1.0	0.2	1,2-Dibromoethane (EDB) 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	22	1.0	0.5	trans-1,2-Dichloroethe	me	2.4	1.0	0.5		
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ine	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-Dichloroprop	nene	ND	1.0	0.5		
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	Jene	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		1.5	1.0	0.5		
4-Isopropyl toluene	1.0	1.0	0.5	Methyl-t-butyl ether (N	MTBE)	ND	1.0	0.5		
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone		ND	1.0	0.5		
Naphthalene	2.6	1.0	0.5	n-Propyl benzene		1.7	1.0	0.5		
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroeth	ane	ND	1.0	0.5		
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene		ND	1.0	0.5		
Toluene	0.74	1.0	0.5	1,2,3-Trichlorobenzen	e	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		0.74	1.0	0.5		
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropan	e	ND	1.0	0.5		
1,2,4-Trimethylbenzene	28	1.0	0.5	1,3,5-Trimethylbenzen	ie	8.0	1.0	0.5		
Vinyl Chloride	25	1.0	0.5	Xylenes, Total		2.5	1.0	0.5		
		Surr	ogate R	ecoveries (%)						
%SS1:	11		<u> </u>	%SS2:		100)			
%SS3:	86									
Comments:										

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



	ll Analytica Quality Counts''	l, Inc.		Toll Free Telephor	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fa: bbell.com / E-mail: main	x: (925) 252-9269				
P & D Environmental			D: #02	298; Snow	Date Sampled:	05/14/13				
55 G GL	Cleaner	rs			Date Received:	05/15/13				
55 Santa Clara, Ste.240	Client (Contact:	Paul K	ing	Date Extracted:	ed: 05/20/13				
Oakland, CA 94610	Client I			<u>B</u>	Date Analyzed:					
			0.75		-	03/20/13				
Extraction Method: SW5030B	Volatile Organ	•		d GC/MS (Basic T od: SW8260B	arget List)*	Work Order: 13054	80			
Lab ID				1305480						
Client ID				DP-						
Matrix			Reporting	Wat				Reporting		
Compound	Concentration *	DF	Limit	Compour	ıd	Concentration *	DF	Limit		
Acetone	ND	1.0	10	tert-Amyl methyl ether	ND	1.0	0.5			
Benzene	ND	1.0	0.5	Bromobenzene		ND	1.0	0.5		
Bromochloromethane	ND	1.0	0.5	Bromodichloromethan	e	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		1.5	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 Dichlorodifluoromethane	ND ND	1.0 1.0	0.5	1,4-Dichlorobenzene 1,1-Dichloroethane		ND ND	1.0	0.5		
				<i>.</i>						
1,2-Dichloroethane (1,2-DCA) cis-1,2-Dichloroethene	ND ND	1.0 1.0	0.5	1,1-Dichloroethene trans-1,2-Dichloroethe		ND ND	1.0 1.0	0.5		
,			0.5	, ,	lie	ND				
1,2-Dichloropropane 2,2-Dichloropropane	ND ND	1.0 1.0	0.5	1,3-Dichloropropane		ND	1.0 1.0	0.5		
cis-1,3-Dichloropropene	ND	1.0	0.5	1,1-Dichloropropene trans-1,3-Dichloroprop		ND	1.0	0.5		
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	bene	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 (N	MTRE)	ND	1.0	0.5		
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone		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-Tetrachloroeth	ane	ND	1.0	0.5		
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene		0.73	1.0	0.5		
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzen	e	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-Trichloropropan	e	ND	1.0	0.5		
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzen	ie	ND	1.0	0.5		
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total		ND	1.0	0.5		
		Surr	ogate Re	ecoveries (%)						
%SS1:	12		3	%SS2:		105	5			
%SS3:	8:									
Comments:				-						

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



	Campbell An When Quality C		Toll Free T	Villow Pass Road, Pittsburg, CA 9 Pelephone: (877) 252-9262 / Fax: (mccampbell.com / E-mail: main@	925) 252-9	269				
P & D Environme	ntal	Client Project ID:	#0298; Snow	Date Sampled:	05/14	/13				
	• 10	Cleaners		Date Received:	Date Received: 05/15/13					
55 Santa Clara, St	e.240	Client Contact: P	aul King	05/16/13-05/17/13						
Oakland, CA 9461	0	Client P.O.:		Date Analyzed: 05/16/13-05/17/13						
	ne (C6-C12) & Stodd	ard Solvent (C9-C12) I Analytical metho	•	ocarbons as Gasoline & S		I Solvent				
Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS	Comments			
1305480-001A	MW-1	W ND		ND	1	96				
1305480-002A	MW-2	w	760	800	1	102	d5,d9			
1305480-003A	MW-3	w	ND	ND	1	91				
1305480-004A	MW-4	w	ND	ND	1	92				
1305480-005A	DP-1	w	410	290	1	#	d5,d9			
1305480-006A	DP-2	w	420	460	1	#	d5,d9			
1305480-007A	DP-3	w	590	630	1	97	d5,d9			
1305480-008A	DP-4	W	ND	ND	1	102				
	ng Limit for DF =1;	W	50	50		μg/.	L			
	ns not detected at or the reporting limit	S	NA	NA		mg/H				

& SPLP extracts in mg/L.

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

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?) d9) no recognizable pattern

DHS ELAP Certification 1644

IA Analyst's Initial

OC for _____ Angela Rydelius, Lab Manager

McC	Campbell And "When Quality Co		Toll Free	Willow Pass Road, Pittsburg, CA e Telephone: (877) 252-9262 / Fax: w.mccampbell.com / E-mail: main@	(925) 252-9	269			
P & D Environmer	ntal		D: #0298; Snow	Date Sampled:	05/14	/13			
55 Santa Clara, Ste	240	Cleaners		05/15	05/15/13				
55 Santa Ciara, Ste	5.240	Client Contact:	Paul King	Date Extracted:	Date Extracted: 05/15/13				
Oakland, CA 9461	0	Client P.O.:		Date Analyzed:	05/16	/13-05/2	20/13		
Extraction method: SW3:	510C		table Petroleum Hydro methods: SW8015B	ocarbons*	W	/ork Order:	1305480		
Lab ID	Client ID	Matrix	DF	% SS	Comments				
1305480-001A	MW-1	W	ND	1	89				
1305480-002A	MW-2	W	2700	2800	1	90	e8,e11,e7		
1305480-003A	MW-3	W	ND	ND	1	89			
1305480-004A	MW-4	W	ND	ND	1	84			
1305480-005A	DP-1	W	530	780	1	90	e7,e11,e2		
1305480-006A	DP-2	W	950	1000	1	91	e8,e11		
1305480-007A	DP-3	W	2700	2800	1	91	e8,e11		
1305480-008A	DP-4	W	ND	ND	1	89			

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

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

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

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

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

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

e8) kerosene/kerosene range/jet fuel range

e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644

MAM Analyst's Initial

OC for _____ Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water	QC Matrix:	Water			BatchID	: 77407		WorkC	order: 1305480
EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	ple ID:	1305469-014B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, individ	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	94.7	90.4	4.50	93.4	70 - 130	20	70 - 130
Benzene	ND	10	98.7	91.4	7.63	104	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	90.3	87.1	3.53	74	70 - 130	20	70 - 130
Chlorobenzene	ND	10	98.1	91.3	7.22	104	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	102	96.7	5.47	101	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	82.5	79.8	3.33	83.2	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	85.5	79	7.94	84.6	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	96.6	90.6	6.42	94.7	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	92.8	87.8	5.55	91.6	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	96.4	91.8	4.93	91.7	70 - 130	20	70 - 130
Toluene	ND	10	96.4	88.7	8.28	103	70 - 130	20	70 - 130
Trichloroethene	ND	10	92.5	83.1	10.7	103	70 - 130	20	70 - 130
%SS1:	106	25	106	105	0.474	107	70 - 130	20	70 - 130
%SS2:	114	25	113	111	1.86	113	70 - 130	20	70 - 130
%SS3:	94	2.5	93	95	1.73	95	70 - 130	20	70 - 130
%SS3: All target compounds in the Method Blank of th NONE								20	70 - 130

BATCH 77407 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305480-001B	05/14/13 10:55 AM	05/16/13	05/16/13 4:57 PM	1305480-002B	05/14/13 11:36 AM	05/17/13	05/17/13 1:43 AM
1305480-003B	05/14/13 12:15 PM	05/16/13	05/16/13 6:17 PM				

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

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

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

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

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

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	QC Matrix: Water BatchID: 7744			: 77446	WorkOrder: 1305480			
EPA Method: SW8260B Extraction	: SW5030B						Spiked Sam	ple ID:	1305521-001A
Analyte	Sample	Spiked	MS	S MSD	MS-MSD	LCS	Acceptance Criteria (Criteria (%)
, and yee	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	74.9	80.8	7.21	95	70 - 130	20	70 - 130
Benzene	ND	10	82.9	87.8	5.79	99.1	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	79	98.4	21.9, F1	87.1	70 - 130	20	70 - 130
Chlorobenzene	ND	10	82.1	87.1	5.98	97	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	91.4	97.8	6.71	102	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	91.9	98.7	7.06	111	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	75.8	80.1	5.42	88.2	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	87.1	90.6	3.99	106	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	86.9	90.4	3.96	105	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	88	92	4.52	104	70 - 130	20	70 - 130
Toluene	ND	10	81.4	84.5	3.65	97.4	70 - 130	20	70 - 130
Trichloroethene	ND	10	87	94.9	8.60	105	70 - 130	20	70 - 130
%SS1:	108	25	109	112	2.24	113	70 - 130	20	70 - 130
%SS2:	104	25	105	104	0.866	108	70 - 130	20	70 - 130
%SS3:	79	2.5	87	87	0	87	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extractio NONE	n batch were ND	less than th	e method	RL with t	he following	g exception	ns:		
F1 = MS/MSD recovery was out of acceptance criteria; LC3	S validated the pr	ep batch.							

BATCH 77446 SUMMARY Lab ID **Date Sampled** Date Extracted Date Analyzed Lab ID **Date Sampled** Date Extracted Date Analyzed 1305480-004B 05/14/13 12:45 PM 05/18/13 05/18/13 1:46 AM 1305480-005B 05/14/13 2:30 PM 05/21/13 05/21/13 1:56 AM 1305480-006B 05/14/13 4:10 PM 05/21/13 05/21/13 2:35 AM 1305480-007B 05/14/13 3:35 PM 05/20/13 05/20/13 10:03 PM 1305480-008B 05/14/13 3:00 PM 05/20/13 05/20/13 10:45 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.

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	WorkOrder: 1305480			
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1305479-002A
Analyte	Sample	MS	MS MSD I		LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	90.9	95.3	4.67	90	70 - 130	20	70 - 130
MTBE	ND	10	86.9	97.1	10.1	104	70 - 130	20	70 - 130
Benzene	ND	10	98.5	108	8.85	104	70 - 130	20	70 - 130
Toluene	ND	10	99.3	107	7.32	109	70 - 130	20	70 - 130
Ethylbenzene	ND	10	99.5	109	8.98	106	70 - 130	20	70 - 130
Xylenes	ND	30	102	110	7.76	108	70 - 130	20	70 - 130
%SS:	90	10	94	96	2.25	91	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	atch were ND	less than th	e method	RL with t	he following	g exceptio	ns:		

BATCH 77441 SUMMARY										
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed			
1305480-001A	05/14/13 10:55 AM	05/16/13	05/16/13 10:31 PM	1305480-002A	05/14/13 11:36 AM	05/16/13	05/16/13 11:01 PM			
1305480-003A	05/14/13 12:15 PM	05/16/13	05/16/13 11:31 PM	1305480-004A	05/14/13 12:45 PM	05/17/13	05/17/13 12:01 AM			
1305480-005A	05/14/13 2:30 PM	05/17/13	05/17/13 12:31 AM	1305480-006A	05/14/13 4:10 PM	05/17/13	05/17/13 1:01 AM			
1305480-007A	05/14/13 3:35 PM	05/17/13	05/17/13 1:31 AM	1305480-008A	05/14/13 3:00 PM	05/17/13	05/17/13 11:40 PM			

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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.

OC for _____QA/QC Officer



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water	QC Matrix	QC Matrix: Water				: 77375		WorkOrder: 1305480		
EPA Method: SW8015B		Spiked Sample ID: N/A								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	110	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	93	N/A	N/A	70 - 130	
All target compounds in the Method Blank of t	his extraction batch were ND	less than th	ne method	RL with th	ne following	g exceptior	IS:	1		

BATCH 77375 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1305480-001A	05/14/13 10:55 AM	05/15/13	05/17/13 3:14 PM	1305480-002A	05/14/13 11:36 AM	05/15/13	05/17/13 6:37 PM
1305480-003A	05/14/13 12:15 PM	05/15/13	05/17/13 7:45 PM	1305480-004A	05/14/13 12:45 PM	05/15/13	05/20/13 7:48 PM
1305480-005A	05/14/13 2:30 PM	05/15/13	05/16/13 5:59 PM	1305480-006A	05/14/13 4:10 PM	05/15/13	05/16/13 9:21 PM
1305480-007A	05/14/13 3:35 PM	05/15/13	05/16/13 10:28 PM	1305480-008A	05/14/13 3:00 PM	05/15/13	05/16/13 7:07 PM

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

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

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

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

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

OC for _____QA/QC Officer

DHS ELAP Certification 1644