PES Environmental, Inc.
Engineering & Environmental Services

October 9, 2007

881.060.03.004

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Attention: Mr. Jerry Wickham

Transmittal
Third Quarter 2007
Groundwater Monitoring Report
Sparkle Cleaners
Eastmont Town Center
7000 Bancroft Avenue
Oakland, California
SLIC Case RO0002942

Dear Mr. Wickham:

On behalf of SKB-Eastmont Oakland Associates, LLC, attached please find our report documenting the installation of four groundwater monitoring wells and providing the results of the initial groundwater monitoring event at the Sparkle Cleaners facility. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

We trust that this is the information that you require at this time. Please contact us with any further questions.

Yours very truly,

PES ENVIRONMENTAL, INC.

William W. Mast, P.G.
Associate Engineer

cc: Ms. Kathleen Schulz - SKB – Eastmont Oakland Associates, LLC

1682 Novato Boulevard • Suite 100 • Novato, California 94947-7021 • Tel (415) 899-1600 • Fax (415) 899-1601

PES Environmental, Inc.
Engineering & Environmental Services

A Report Prepared for:

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Attention: Mr. Jerry Wickham

THIRD QUARTER 2007 GROUNDWATER MONITORING REPORT SPARKLE CLEANERS EASTMONT TOWN CENTER 7000 BANCROFT AVENUE OAKLAND, CALIFORNIA

OCTOBER 8, 2007

By:

Gary Thomas, P.G.
Senior Geologist

William W. Mast, P.G.
Associate Engineer

881.060.03.004

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1.0 INTRODUCTION

This report presents the results of well installation and groundwater monitoring activities conducted during the third quarter 2007 baseline monitoring event at the Sparkle Cleaners facility (Site). The Site is located at 7000 Bancroft Avenue, Oakland, California and is situated in the northwest portion of Eastmont Town Center (Plates 1 and 2). Sparkle Cleaners is an active dry-cleaning facility that has historically and currently (i.e., the current dry-cleaning unit [DCU] is a closed-loop system) uses tetrachloroethene (PCE) as a dry-cleaning solvent. This report has been prepared for the Alameda County Environmental Health Department (ACEH) by PES Environmental, Inc. (PES) on behalf of SKB – Eastmont Oakland Associates, LLC (SKBEOA), the property owner.

The well installation and groundwater monitoring activities were conducted in accordance with PES' Remedial Action Workplan (RAW) that was approved by ACEH in a letter dated February 27, 2007 (PES, 2007a; ACEH, 2007). The RAW's scope of work also included removing the source of PCE soil contamination beneath Sparkle Cleaners. Excavation activities to remove the source of PCE in soil were successfully completed in July 2007. The results of the excavation activities are presented in the report titled *Post-Remediation Report, Voluntary Soil Remediation, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California* (PES, 2007b) that was previously submitted to ACEH.

As described in the RAW, the purpose of the groundwater monitoring is to: (1) document the initial concentrations of volatile organic compounds (VOCs) in the newly installed wells at the Site; (2) monitor groundwater flow directions(s), gradient, and seasonal fluctuations; (3) evaluate the groundwater chemical response to the removal of the source of contamination; and (4) verify that groundwater quality down gradient of Sparkle Cleaners are not declining.

2.0 SITE DESCRIPTION

The Sparkle Cleaners tenant space (Suite 11) covers approximately 1,800 square feet in the northwest portion of Eastmont Town Center (Plate 2). The area in front (north) of Sparkle Cleaners includes storefront parking and a mall driveway. The rear (south) of the tenant space opens into a common hallway that traverses the width of the building from east to west. An alleyway is located approximately 20 feet to the east.

The ground surface elevation at Sparkle Cleaners is approximately 60 feet above mean seal level (MSL). The topography is relatively level and slopes slightly to the southwest. To the east and northeast of the site, the topography steepens and continues to rise to approximately 360 feet MSL (Plate 1).

3.0 BACKGROUND INFORMATION

Environmental investigations have been conducted at Eastmont Center since the late 1980s. The focus of the early investigations appears to have been related to general characterization of soil and groundwater beneath the site, underground storage tanks at two former auto service centers, and Sparkle Cleaners. ACEH closed the underground storage tank cases at the subject property in letters dated February 10, 1995 and April 16, 1998 (ACEH, 1995; 1998). Details of these historical investigations are provided in the RAW.

As part of SKBEOA's environmental due diligence activities prior to its acquisition of the property, subsurface investigations were conducted by PES to assess soil and groundwater conditions.

Limited access drilling equipment was used to collect soil gas and soil matrix samples from the interior and exterior of Sparkle Cleaners in October 2006. Interior samples were collected in the vicinity of the current DCU, the former DCU location, chemical waste storage, spotting chemical storage, and the inferred sanitary sewer line. Exterior sampling locations included the parking lot northwest of the dry-cleaning facility and near the utility corridor along the northeast side of the building. A groundwater sample was collected from one of the exterior borings (location B-3 on Plate 2). PCE, trichloroethene (TCE), and cis-1,2-dichloroethene (DCE) were detected in the majority of the soil gas samples. In addition, PCE was detected in the three interior soil matrix samples near the former DCU at concentrations ranging from 1,400 to 3,000 micrograms per kilogram (μg/kg). No VOCs were detected in the other interior soil matrix samples, the exterior soil matrix samples, or the exterior groundwater sample from location B-3.

Additional investigation was performed in November 2006, to further evaluate the extent of PCE-affected soil and groundwater. Interior drilling locations were sited to assess the lateral and vertical extent of PCE-affected soils associated with elevated concentrations of PCE. Soil matrix samples were collected at depths ranging up to 18 feet bgs. In addition to the interior sampling locations, groundwater samples were collected from four borings located in the parking lot and driveway areas to the northwest and southwest of Sparkle Cleaners (locations B-16, B-19, B-21, and B-22 on Plate 2). PCE (up to 140 μg/kg) and TCE (up to 6.8 μg/kg) were detected in the soil samples; no other VOCs were detected. PCE and TCE were also detected in two of the four exterior groundwater grab samples at concentrations ranging up to 40 and 2.4 micrograms per liter (μg/L), respectively.

On the basis of the detections of PCE in groundwater near Sparkle Cleaners, the RAW included installation and monitoring of four groundwater wells. These activities are described in the following sections.

4.0 MONITORING WELL INSTALLATIONS

4.1 Drilling Activities

Monitoring wells MW-01 through MW-04 (Plate 2) were installed by Gregg Drilling Co. (Gregg) of Martinez, California on July 23 and 24, 2007, under the oversight of a PES geologist. A permit to install the well was obtained from Alameda County Public Works Agency and is included in Appendix A. The well locations are shown on Plate 2.

The well boreholes were advanced using a truck-mounted drill rig equipped with 8-inch hollow stem augers to depths ranging between 35 and 48.5 feet below ground surface (bgs). A monitoring well was completed in each boring as described in Section 4.2.

While advancing the borings, a geologist logged and classified the soils according to the Unified Soil Classification System. A *Boring Log Legend*, which includes a copy of the Unified Soil Classification System, is presented on Plate B-1 in Appendix B. As indicated on the monitoring well lithologic logs (see Plates B-2 through B-5 in Appendix B), soil samples were generally collected at 5-foot intervals, but continuous sampling was performed in the interval where first encountered groundwater was anticipated. The soil samples were collected using either a California modified split spoon sampler or standard penetration split spoon sampler.

4.2 Monitoring Well Construction Details

Gregg converted the four borings to monitoring wells upon completion of drilling and sampling each boring. Well construction details are summarized on Table 1 and on the monitoring well lithologic logs in Appendix B.

A single 2-inch diameter well was installed in each of the four borings. The wells were constructed with schedule-40 polyvinyl chloride (PVC) casing with flush-threaded joints. A 0.020-inch factory machine slotted well screen was used for each of the wells. As indicated on Table 1, 15 feet of screen was installed in the lowermost portion of each borehole; the top of the screen interval was positioned to capture the first encountered wet zone in each borehole. A filter pack consisting of #3 Monterey sand was placed in the annulus between the well screen and the borehole wall. The filter pack extended from the bottom of each boring to approximately two feet above the top of the well screen. Approximately two feet of bentonite clay chips were placed above the filter pack; the chips were hydrated after being placed. The remaining well annulus was grouted with neat cement to within about one foot below ground surface. The well-head completions consist of traffic-rated flush-mount vaults. A wing nut well cap was used to secure and seal the top of each well casing.

4.3 Monitoring Well Development Activities

Blaine Tech Services, Inc. (Blaine) of San Jose, California developed the newly installed monitoring wells on August 1, 2007 to set the filter pack, remove sediment from the casing and filter pack, and increase the hydraulic radius of each well. Blaine used a 2-inch diameter block to surge each monitoring well for approximately fifteen minutes. After surging, Blaine purged the wells using a positive air displacement (pneumatic bladder) pump. Approximately 10 casing volumes of water were purged from each well, except well MW-03 which pumped dry after removing approximately 6 casing volumes. During purging, the water was monitored for temperature, pH, electrical conductivity, and turbidity. Monitoring well development forms are presented in Appendix C.

4.4 Surveying

PES retained the services of Chapman Land Surveying, Inc. (Chapman) of Concord, California to survey each well for the following information: (1) horizontal coordinates (i.e., northing, easting, latitude, and longitude); and (2) top of lid and top of PVC well casing elevations relative to MSL. Chapman is a California State licensed surveyor. The survey data are included in Appendix D.

5.0 GROUNDWATER MONITORING WELL SAMPLING ACTIVITIES

Third quarter 2007 groundwater monitoring activities consisted of: (1) collection of depth to groundwater measurements and calculation of groundwater elevations; and (2) sampling of wells for VOCs. Field activities were conducted by Blaine on August 7, 2007.

5.1 Depth to Groundwater Measurements

Depth-to-groundwater measurements were obtained for the monitoring wells using an electronic water-level indicator and recorded to the nearest 0.01-foot. The portion of the water-level indicator that was submerged in the wells was cleaned with a solution of Alconox and deionized (DI) water, and then rinsed with DI water between well measurements. Decontamination fluids were stored temporarily on site in a DOT-approved 55-gallon drum pending offsite disposal. Depth-to-groundwater data were converted to groundwater elevations referenced to mean sea level and are presented in Table 2. Groundwater elevation contours are presented on Plate 2.

5.2 Monitoring Well Sampling

After collecting water-level data, Blaine Tech sampled the four monitoring wells. Three casing volumes of groundwater were purged from each well prior to collecting the samples. The wells were purged using a positive air displacement pump that was decontaminated prior to each use. All samples were collected using disposable bailers and decanted into laboratory

provided sample containers. Groundwater temperature, pH, conductivity and turbidity were monitored during purging. Monitoring well sampling forms are presented in Appendix E.

The samples were transported to TestAmerica Laboratories, Inc. (TestAmerica) under chain-of-custody protocol and analyzed for halogenated VOCs (8010 list) by U.S. EPA Test Method 8260B.

6.0 GROUNDWATER MONITORING RESULTS

6.1 Groundwater Elevation Measurements

Groundwater elevations measured on August 7, 2007 ranged from 25.89 feet MSL in well MW-01 to 34.77 feet MSL in well MW-02 (see Table 2 and Plate 2). As indicated on Plate 2, the elevation data from well MW-02 is not used for contouring because the groundwater elevation in this well is significantly higher than the elevations in the other wells. The cause of the higher water-level elevation at Well MW-02 appears to be from a screen interval that is at least 9-feet shallower (i.e., relative to the ground surface) than the other three wells. Well MW-2 was constructed in this manner because groundwater was detected at a shallower depth while drilling the borehole for this well.

Based on the groundwater elevation data from wells MW-01, MW-03, and MW-04, the hydraulic gradient during the third quarter 2007 monitoring event was approximately 0.043 foot per foot to the west (see Plate 2). In addition, the analytical results discussed below suggest a westward direction for groundwater flow.

6.2 Groundwater Sample Analytical Results

The analytical results for the groundwater samples collected on August 7, 2007 are summarized below and presented in Table 3. The laboratory analytical report and chain-of-custody documentation are included in Appendix F.

PCE was detected in three of the four monitoring wells at concentrations ranging from 1.6 μg/L in well MW-03 to 60 μg/L in well MW-01 (PCE was detected at 71 μg/L in the duplicate sample from well MW-01). TCE was detected at concentrations of 3.1 μg/L in well MW-01 and 1.2 μg/L in well MW-02. No other VOCs were detected at concentrations exceeding the respective laboratory reporting limits in the samples from wells MW-01 through MW-03, and no VOCs were detected at concentrations exceeding the respective laboratory reporting limits in well MW-04 (Table 3).

The distribution of PCE and TCE in groundwater is consistent with the observed westerly groundwater flow direction, and with the concentrations and distribution of these chemicals observed during the fall 2006 investigations.

6.3 Quality Assurance/Quality Control Assessment of Chemical Data

The quality of the chemical data reported by TestAmerica was assessed from the results of internal laboratory spike and method blank. The data are within acceptable recovery limits. The results for the duplicate sample collected at MW-01 indicate good reproducibility with PCE and TCE detected in both the regular and duplicate sample. The relative percent differences for the PCE and TCE concentrations in this sample are 8.4 and 0 percent, respectively. The water samples were also analyzed within acceptable EPA holding times. The data from TestAmerica are considered to be representative and of good quality.

7.0 SUMMARY

The installation of four groundwater monitoring wells and the third quarter 2007 baseline groundwater monitoring event have been conducted in accordance with the RAW.

Based on the groundwater elevation data from wells MW-01, MW-03, and MW-04, groundwater flow at the Site is to the west (see Plate 2). The only VOC constituents detected above laboratory reporting limits in groundwater during this monitoring event were PCE and TCE. The maximum concentrations of PCE and TCE were detected in well MW-01 at 60 μg/L (PCE was detected at 71 μg/L in the duplicate sample from well MW-01) 3.1 μg/L, respectively.

Monitoring of the four wells will continue for another three quarters to assess whether concentrations of VOCs in groundwater decrease as a result of the recently completed remedial activities at the Site.

8.0 REFERENCES

Alameda County Environmental Health (ACEH), 1995. *Remedial Action Completion Certification, J.C. Penney Store, 1 Eastmont Mall, Oakland, CA*. February 10.

ACEH, 1998. *Remedial Action Completion Certification, 1 Eastmont Mall, Oakland, CA (1-500 gallon waste oil tank removed in October 23, 1995)*. April 16.

ACEH, 2007. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Work Plan Approval*. . February 27.

PES Environmental, Inc. (PES), 2007a. *Remedial Action Workplan, Voluntary Soil Remediation, Sparkle Cleaner, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California*. January 5.

PES, 2007b. *Post-Remediation Report, Voluntary Soil Remediation, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California*. September 9.

TABLES

Table 1
Groundwater Monitoring Well Construction Details
Sparkle Cleaners
Eastmont Town Center
7000 Bancroft Avenue
Oakland, California

Well ID	Date Completed	Top of Casing Elevation (feet MSL)	Borehole Diameter (inches)	Borehole Depth (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Sand Filter Interval (feet bgs)	Screen Slot Size (inches)
MW-01	7/23/2007	49.51	8	47	47	2	31.5 to 46.5	29.5 to 47	0.020
MW-02	7/24/2007	49.07	8	36.5	35	2	19.5 to 34.5	17.5 to 36.5	0.020
MW-03	7/24/2007	50.43	8	44	44	2	28.5 to 43.5	26.5 to 44	0.020
MW-04	7/23/2007	49.81	8	48.5	48.5	2	33 to 48	31 to 48.5	0.020

Note:

bgs - Below ground surface
MSL - Mean sea level

Table 2
Groundwater Elevation Data
Sparkle Cleaners
Eastmont Town Center
7000 Bancroft Avenue
Oakland, California

Well ID	Date Measured	Top of Casing Elevation (feet MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet MSL)
MW-01	8/7/2007	49.51	23.62	25.89
MW-02	8/7/2007	49.07	14.30	34.77
MW-03	8/7/2007	50.43	17.82	32.61
MW-04	8/7/2007	49.81	22.43	27.38

Note:
MSL - Mean sea level
BTOC - Below top of casing

Table 3
Summary of Analytical Results for Groundwater Monitoring Well Samples
Sparkle Cleaners
Eastmont Town Center
7000 Bancroft Avenue
Oakland, California

Sample Location	Sample Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Other VOCs (µg/L)
MW-01	8/7/2007	**60**	**3.1**	ND (0.50)	ND
DUP	8/7/2007	**71**	**3.1**	ND (0.50)	ND
MW-02	8/7/2007	**25**	**1.2**	ND (0.50)	ND
MW-03	8/7/2007	**1.6**	ND (0.50)	ND (0.50)	ND
MW-04	8/7/2007	ND (0.50)	ND (0.50)	ND (0.50)	ND

Notes:

PCE - Tetrachloroethene

TCE - Trichloroethene

cis-1,2-DCE - cis-1,2-Dichloroethene

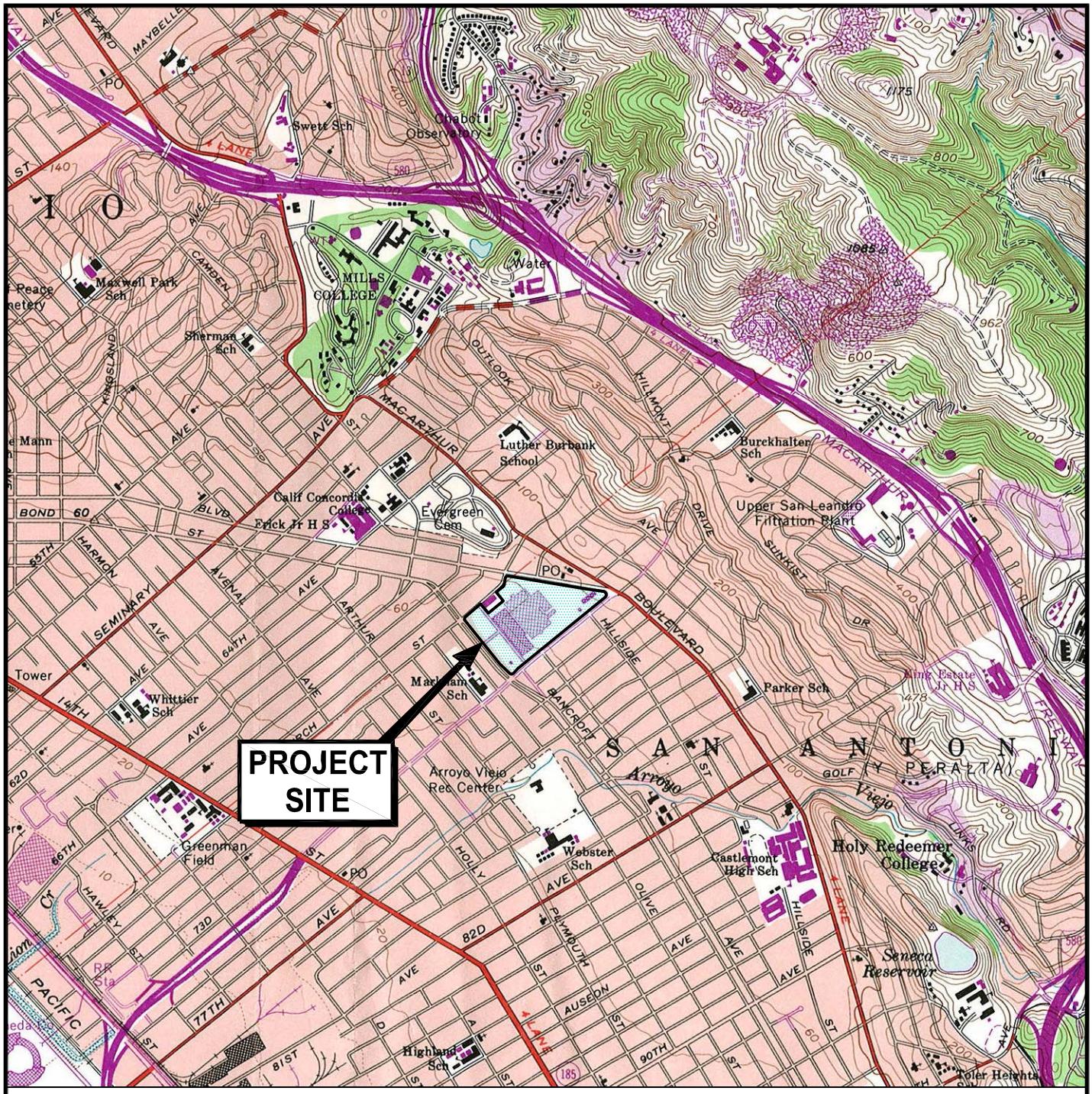
µg/L - Micrograms per liter

ND (0.5) - Not detected at or above indicated laboratory reporting limit

ND - Not detected at or above the laboratory reporting limit (varies by analyte)

DUP - Field duplicate sample

ILLUSTRATIONS



U.S.G.S. Topo Map - Oakland East, California, 7.5-minute quadrangle. Map version 1959; current as of 1980.

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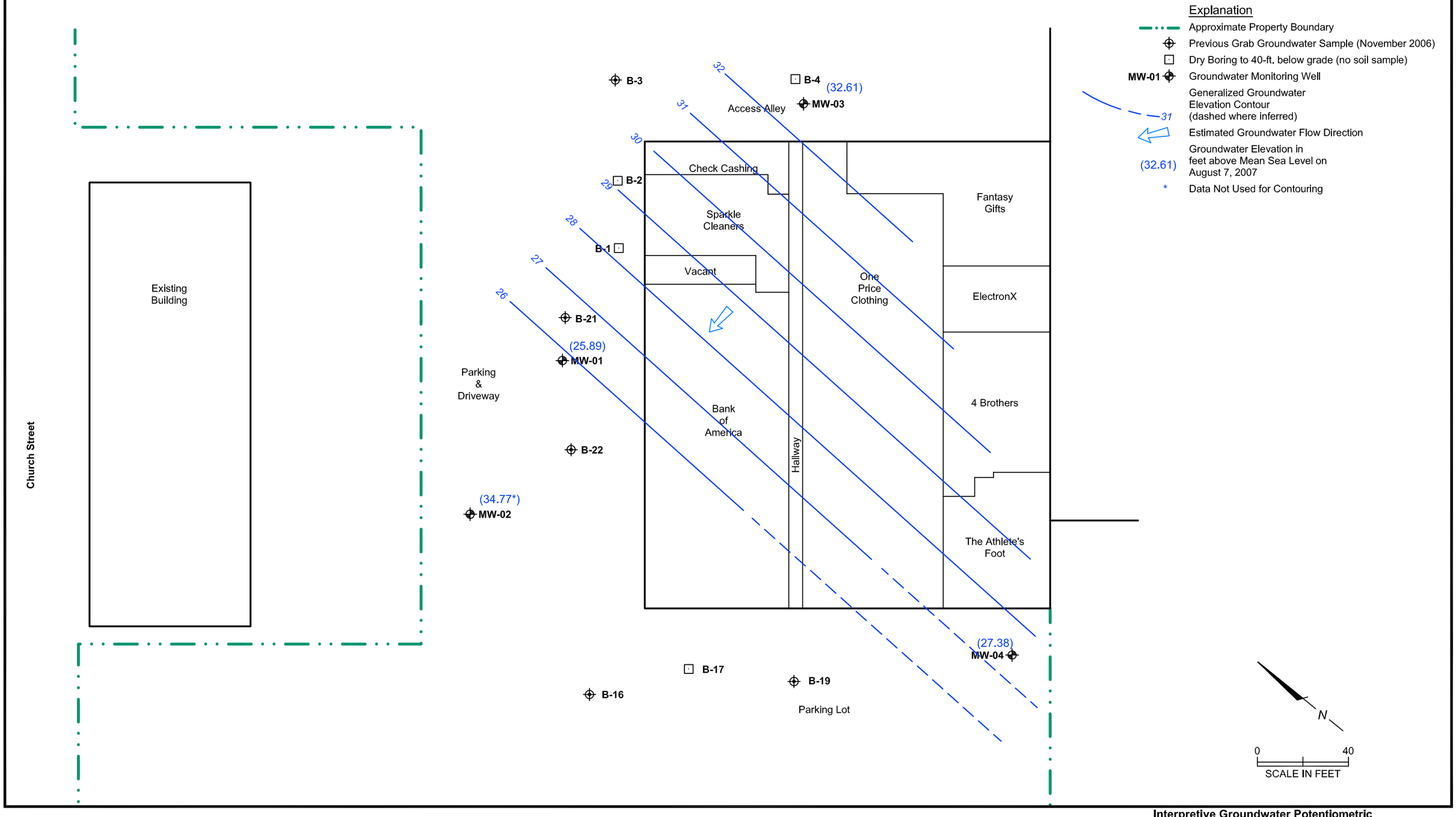
Site Location Map
Sparkle Cleaners
Eastmont Town Center
Oakland, California

PLATE
1

881.060.03.004	881-06003-004_Q3-07_1	WWM	10/07
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



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Engineering & Environmental Services

Interpretive Groundwater Potentiometric Surface Map - August 7, 2007
Sparkle Cleaners
Eastmont Town Center
Oakland, California

PLATE
2

881.060.03.004	881-06003-004_Q3-07_2	WWM	10/07
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

ALAMEDA COUNTY PUBLIC WORKS AGENCY – WATER RESOURCES WELL PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/06/2007 By jamesy

Permit Numbers: W2007-0672 to W2007-0675
Permits Valid from 07/23/2007 to 07/24/2007

Application Id: 1181167447580
Site Location: Eastmont Town Center
7200 Bancroft Avenue
Oakland, CA
City of Project Site: Oakland

Project Start Date: 06/21/2007
Completion Date: 06/27/2007
Extension Start Date: 07/23/2007
Extension End Date: 07/24/2007
Extension Count: 1
Extended By: vickyh1

Applicant: PES Environmental, Inc. - Gary Thomas
1682 Novato Boulevard, Suite 100, Novato, CA 94947
Phone: 415-899-1600

Property Owner: Eastmont Oakland Associates, LLC
1211 SW Fifth Avenue, Suite 2600, Portland, OR 97204
Phone: --

Client: ** same as Property Owner **

Contact: Gary Thomas
Phone: 415-899-1600
Cell: 415-250-7217

Total Due: $1200.00
Receipt Number: WR2007-0254 **Total Amount Paid:** $1200.00
Payer Name : PES Environmental Inc Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: hstem

Work Total: $1200.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-0672	06/06/2007	09/19/2007	MW-01	10.00 in.	2.00 in.	33.00 ft	50.00 ft
W2007-0673	06/06/2007	09/19/2007	MW-02	10.00 in.	2.00 in.	33.00 ft	50.00 ft
W2007-0674	06/06/2007	09/19/2007	MW-03	10.00 in.	2.00 in.	33.00 ft	50.00 ft
W2007-0675	06/06/2007	09/19/2007	MW-04	10.00 in.	2.00 in.	33.00 ft	50.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with

appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

6. Minimum surface seal thickness is two inches of cement grout placed by tremie

7. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

APPENDIX B

MONITORING WELL LITHOLOGIC LOGS AND WELL CONSTRUCTION DIAGRAMS

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LESS THAN 15% FINES	GW		WELL-GRADED GRAVELS WITH OR WITHOUT SAND
			GP		POORLY-GRADED GRAVELS WITH OR WITHOUT SAND
		GRAVELS WITH 15% OR MORE FINES	GM		SILTY GRAVELS WITH OR WITHOUT SAND
			GC		CLAYEY GRAVELS WITH OR WITHOUT SAND
	SANDS MORE THAN HALF COARSE FRACTION IS FINER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 15% FINES	SW		WELL-GRADED SANDS WITH OR WITHOUT GRAVEL
			SP		POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL
		SANDS WITH 15% OR MORE FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OL		ORGANIC SILTS OR CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CH		INORGANIC CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OH		ORGANIC SILTS OR CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

ABBREVIATION KEY

PID (PPM)	- Photo Ionization Detector readings in parts per million from field soil sample screening.
BLOWS/6"	- Blows required to drive sampler 6 inches as indicated on the logs using sample drive hammer weight of 140 pounds falling 30 inches.
2.5YR 6/2	- Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)
feet MSL	- feet above Mean Seal Level
feet bgs	- feet below ground surface

SYMBOLS KEY

- No Soil Sample Recovered
- Partial Soil Sample Recovered
- Undisturbed Soil Sample Recovered
- Soil Sample Submitted for Laboratory Analysis
- Hydropunch Sample
- First Encountered Groundwater Level
- Piezometric Groundwater level

PES Environmental, Inc.
Engineering & Environmental Services

Unified Soil Classification System Chart
Sparkle Cleaners
Eastmont Town Center, Oakland, California

PLATE
B-1

881.060.04.004	USCS Chart	GDT	10/07
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

PES Environmental, Inc.
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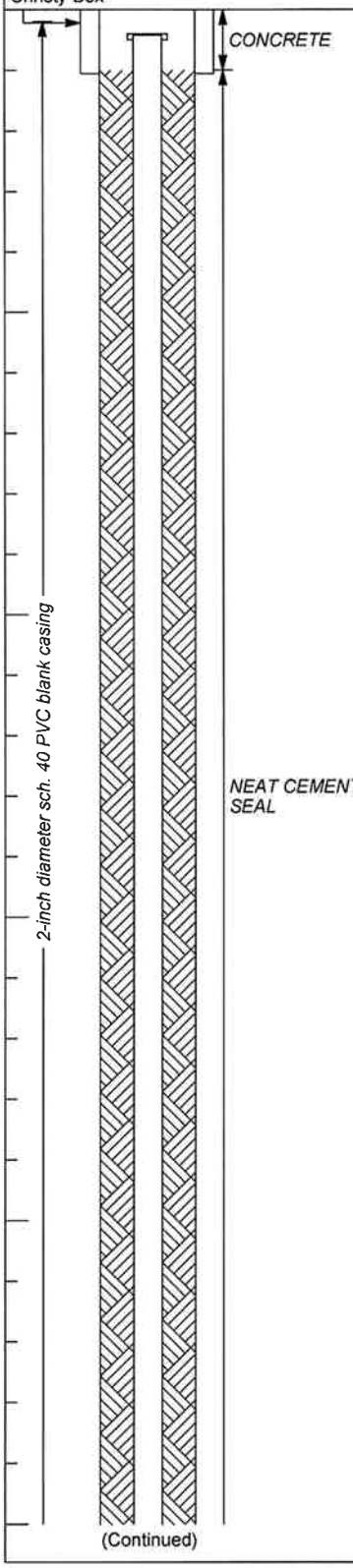
LOG OF MONITORING WELL MW-1



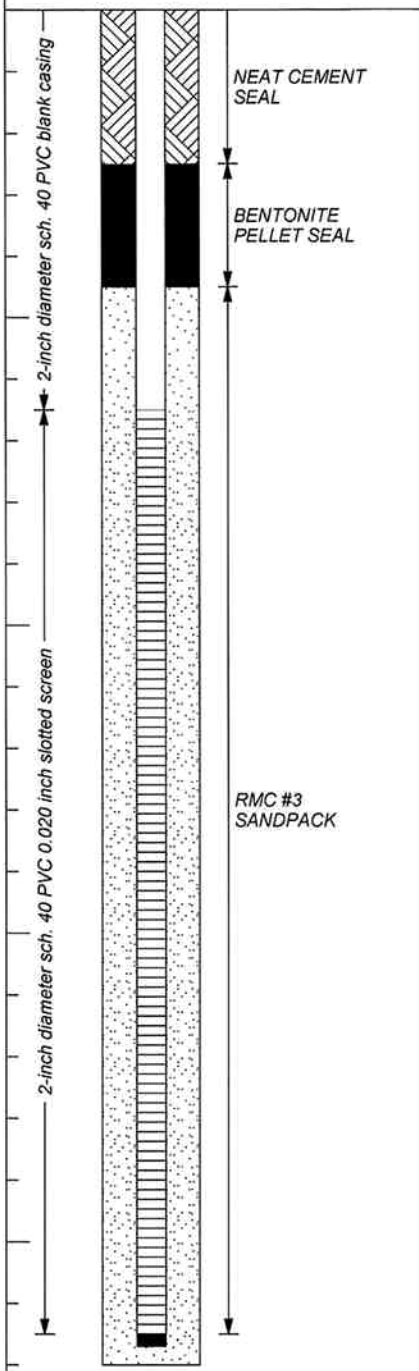
PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				FILL
				BLACK CLAY (CL) 5YR 2.5/1, moist, medium stiff to stiff, (0%, 0%, 100%)
0				
0	4	5		
0	6			
0	10			
				DARK YELLOWISH BROWN SILTY CLAY with SAND (CL) 10YR 4/4, dry to moist, medium stiff
				YELLOWISH BROWN CLAYEY SAND (SC) 10YR 5/6, moist, loose, poorly graded sand
	7	10		6-inch zone of angular gravel at 10 feet
0	16			YELLOWISH BROWN WELL-GRADED SAND with GRAVEL (SW) 10YR 5/6, dry, medium dense, fine to very coarse angular to to subangular gravel up to 1-inch in diameter
0	17			
0	9	15		YELLOWISH BROWN GRAVELLY CLAY (CL) 10YR 5/6, moist to wet, medium stiff, some mottling, trace sand, (40%, trace, 60%)
0	11			
0	15			
0	4	20		YELLOWISH BROWN SILTY CLAY (CL) 10YR 5/4, moist, stiff, angular to subrounded fine gravel, trace sand, (10%, trace, 90%)
0	7			
0	11			
		25		(Continued)

PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	47 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/23/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/23/07

PLATE
B-2

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-1



PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
	2			YELLOWISH BROWN CLAY with GRAVEL (CL)
	8			10YR 5/6, moist to wet, medium stiff, fine gravel, reddish brown (5YR 3/4)
	12			mottling, (20%, trace, 80%)
0	4	30		LIGHT OLIVE BROWN CLAY with SILT (CL)
	10			2.5Y 5/6, dry to moist, stiff, trace sand, (0%, trace, 95-100%)
	11			LIGHT OLIVE BROWN SILTY CLAY (CL)
				2.5Y 5/6, dry to moist, stiff, trace sand (0%, trace, 100%)
0	4	35		YELLOWISH BROWN SILTY CLAY with SAND (CL)
	7			10YR 5/6, moist, medium stiff to stiff, very fine sand, (0%, 15%, 85%)
	18			
0	10			▽ Wet at 36.5 ft bgs
	4			
	7			
0	9			Change in density to soft at 38 feet bgs,
	6			increase in sand to 25% (0%, 25%, 75%)
	11			YELLOWISH BROWN POORLY GRADED SAND (SP)
0	13			10YR 5/6, wet, loose, trace clay and gravel, (trace, 95%, trace)
	12	40		
	22			
0	27			
	13			DARK BROWN WELL-GRADED SAND (SW)
0	22			10YR 3/3, wet, dense, very coarse sand, some fine gravel, (10%, 90%, 0)
	27	45		Increase in clay content to 10%, (10%, 80%, 10%) at 45 feet bgs
				Bottom of Borehole at 47 feet bgs.
		50		

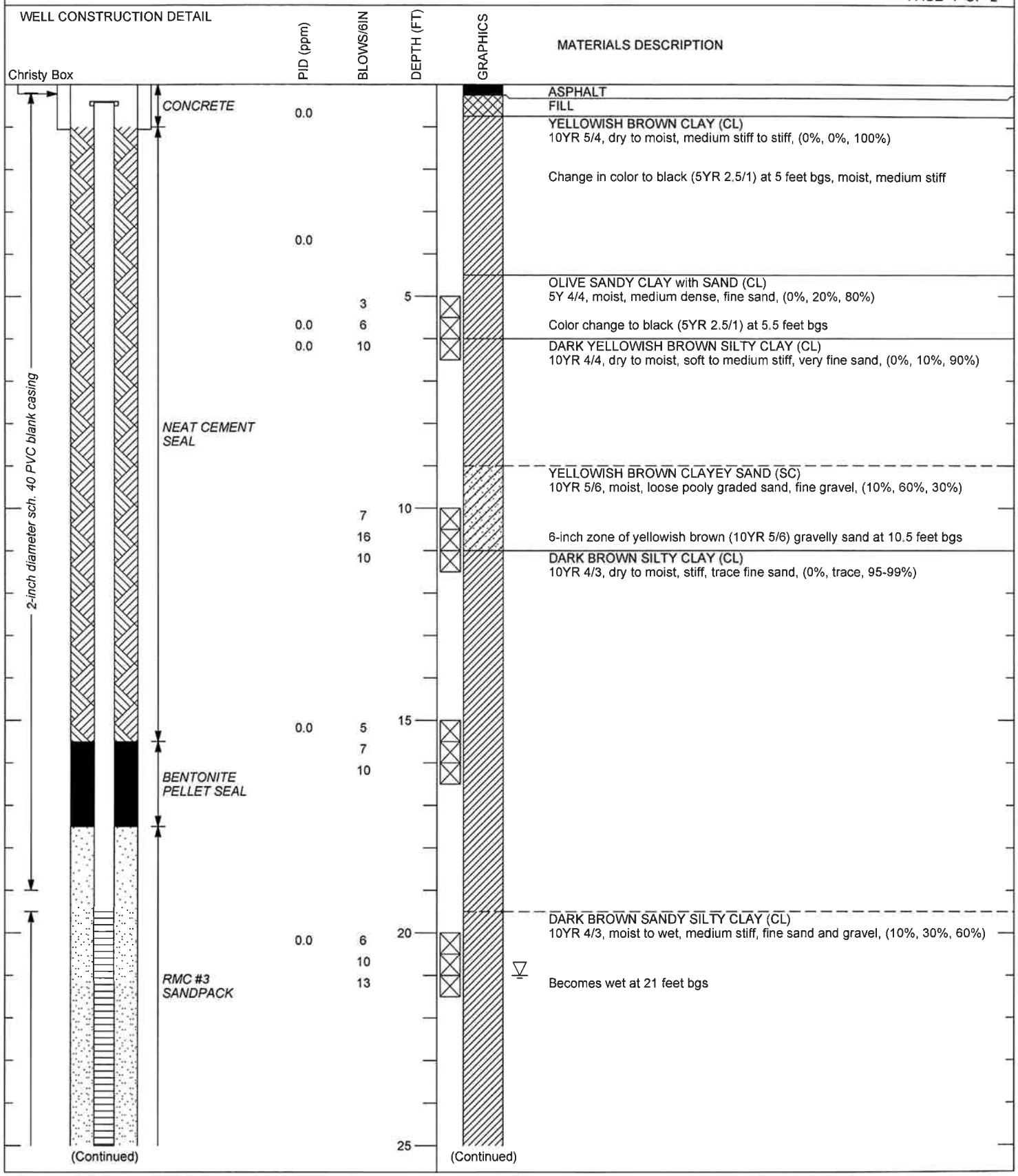
PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	47 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/23/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/23/07

PLATE

B-2

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-2



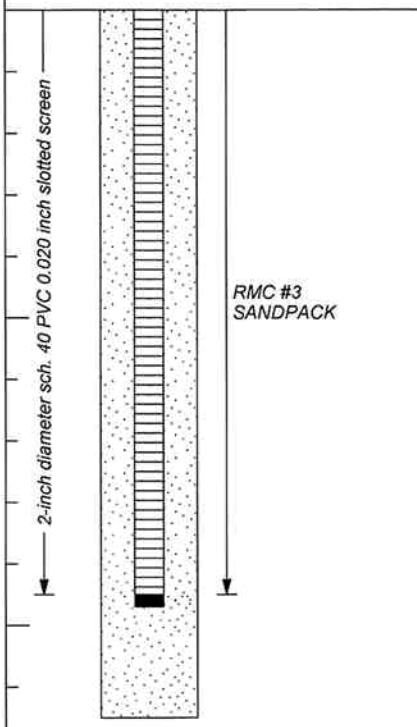
PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	36.5 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/24/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/24/07

PLATE

B-3

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-2



PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0.0	7			
	12			DARK BROWN CLAYEY SAND (SC) 10YR 4/3, wet, medium dense, very coarse poorly graded sand, trace gravel, (trace, 70-75%, 25-30%)
	15			
		30		DARK BROWN SANDY SILTY CLAY (CL) 10YR 4/3, moist to wet, medium stiff, fine sand and gravel (10%, 30%, 60%)
	7			
0.0	13			
	11			
		35		YELLOWISH BROWN SILTY CLAY (CL) 10YR 5/4, moist to wet, medium stiff, very fine sand, (0%, 10%, 90%)
0.0	4			
	7			
	9			
				Bottom of Borehole at 36.5 feet bgs.
		40		
		45		
		50		

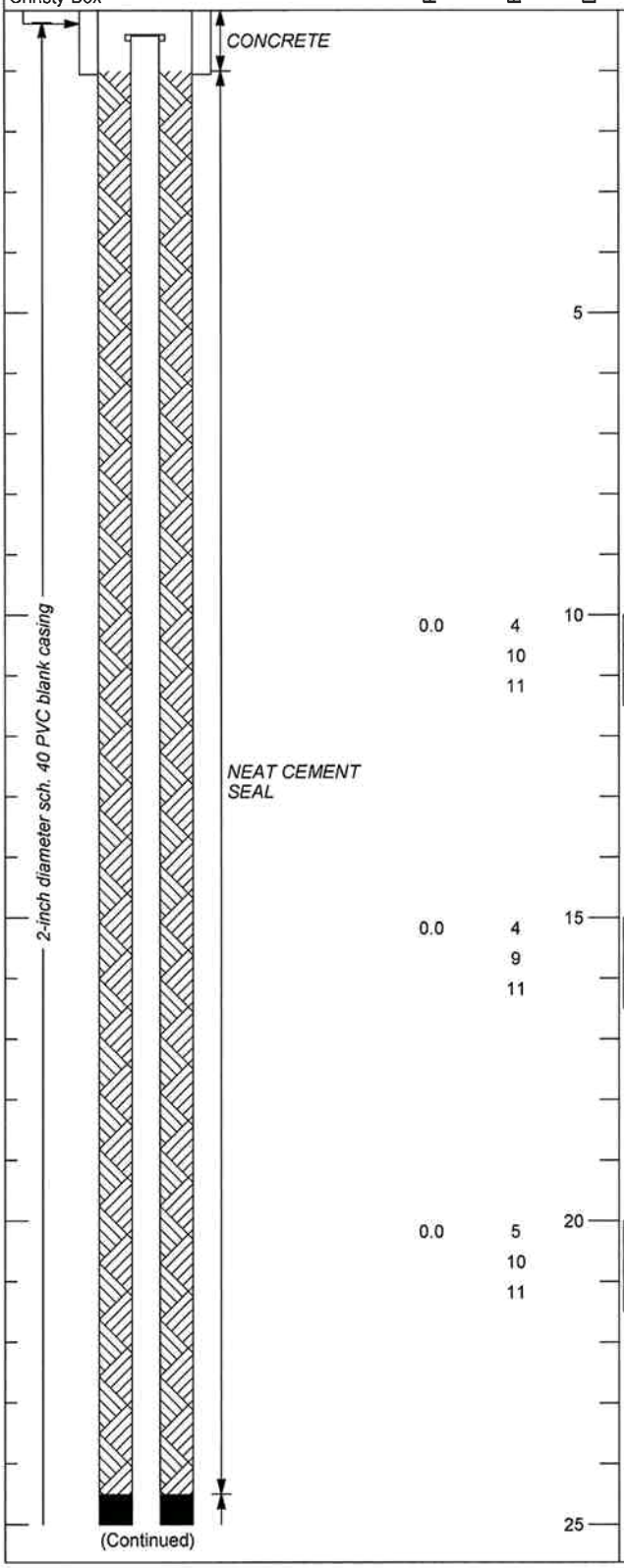
PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	36.5 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/24/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/24/07

PLATE

B-3

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-3



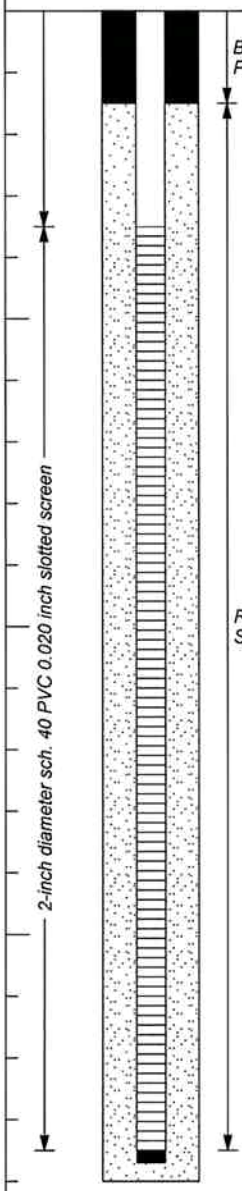
PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE
				Air vacuum equipment was used to clear borehole for subsurface utilities. Therefore, the soil in this interval was not logged from the surface to 10 feet bgs
		5		
0.0	4 10 11	10		YELLOWISH BROWN CLAYEY SILT (ML) 10YR 5/4, moist, medium stiff, trace sand, (0%, trace, 95-99%)
				DARK YELLOWISH BROWN CLAYEY GRAVEL with SAND (GC) 10YR 3/6, moist, medium dense, angular to subrounded gravel up to 0.25-inch in diameter, very fine sand
0.0	4 9 11	15		DARK YELLOWISH BROWN SILTY CLAY (CL) 10R 3/6, moist, medium stiff, very fine to coarse gravel, trace to 5% sand, (5%, 5%, 90%)
0.0	5 10 11	20		DARK YELLOWISH BROWN CLAY (CL) 10YR 4/4, dry to moist, stiff, low plasticity, trace very fine sand, (0%, trace, 95-99%)
		25		DARK YELLOWISH BROWN SILTY CLAY (CL)
				(Continued)

PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	44 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/24/07
DRILL RIG	Air Knife/ Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/24/07

PLATE
B-4

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-3



PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0.0	7			10YR 4/6, dry to moist, stiff, (0%, 0%, 100%)
	12			
	14			10% angular to subrounded gravel at 26.5 bgs, light gray (5Y7/1) mottling present
0.0	5			
	10	30		Driller indicates wet soil at approximately 30 feet bgs
	11			DARK YELLOWISH BROWN SANDY CLAY (CL) 10YR 4/6, moist, medium stiff, very fine sand, trace to 5% very coarse gravel, light green (5Y7/1) mottling present, (5%, 30%, 75%)
				YELLOWISH BROWN CLAY (CH) 10YR 5/6, moist, high plasticity, soft to medium stiff, (0%, 0%, 100%)
0.0	4	35		
	6			
0.0	9			
	3			Stifft at 36.5 feet bgs
0.0	6			
	9			
	6			
0.0	8			
	13			YELLOWISH BROWN SILTY CLAY (CL) 10YR 5/6, moist, medium stiff, fine sand, (trace, 10%, 85-89%)
0.0	4			
	6	40		
	8			
0.0	18			YELLOWISH BROWN GRAVELLY CLAY (CL) 10YR 5/4, moist to wet, soft to medium stiff, angular to subangular gravel up to 0.5-inch in diameter, (30%, 10%, 60%)
	25			
	28			
0.0	11			
	28			
	38			Bottom of Borehole at 44 feet bgs.
		45		
		50		

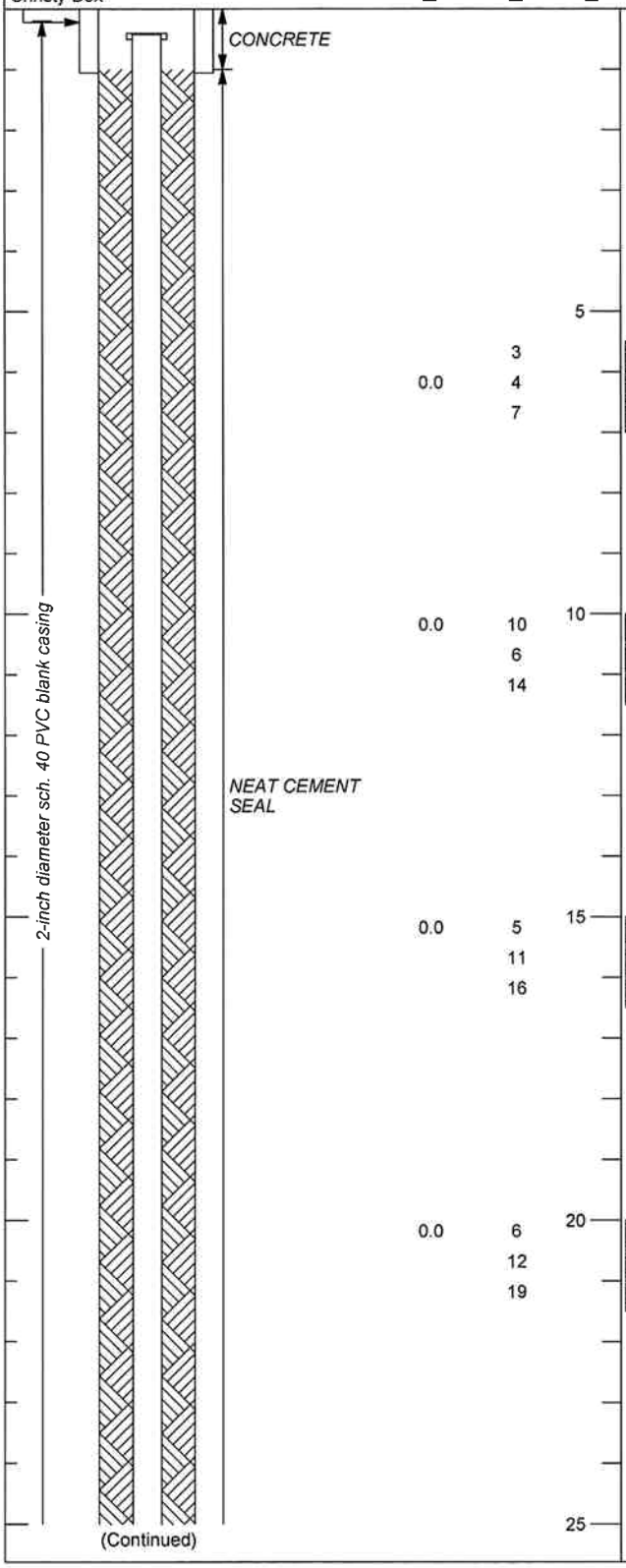
PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	44 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/24/07
DRILL RIG	Air Knife/ Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/24/07

PLATE

B-4

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-4



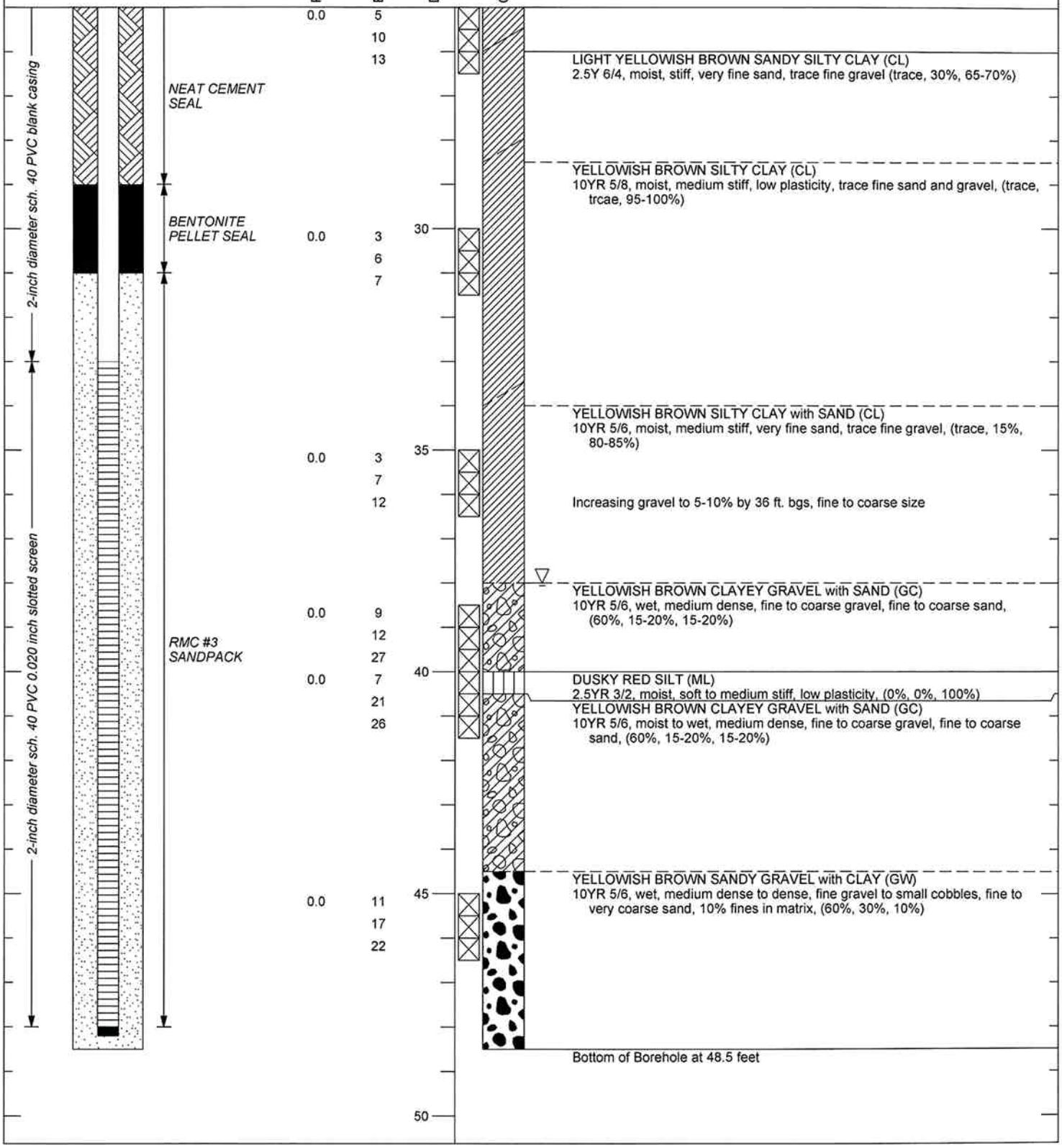
PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				OLIVE BROWN POORLY GRADED SAND (SP) 2.5 YR 4/4, dry to moist, loose to medium dense, fine sand, (0%, 100%, 0%)
		5		STRONG BROWN SILTY CLAY (CH) 7.5YR 5/6, moist, soft to medium stiff, medium to high plasticity, (0%, 0%, 100%) Color change to greenish black (5BG 2.5/1) at 4 feet, some strong brown mottling, trace of medium to coarse sand
0.0	3 4 7			
				DARK YELLOWISH BROWN GRAVELLY SILTY CLAY with SAND (CH) 10YR 4/6, moist, medium stiff, coarse angular to subrounded gravel, fine to coarse sand (30%, 15%, 55%)
		10		YELLOWISH BROWN CLAYEY SAND (SC) 10YR 5/6, moist, medium dense, fine to medium sand, trace fine gravel, some dark mottling (trace, 80-85%, 15-20%)
0.0	10 6 14			
				YELLOWISH BROWN WELL-GRADED SAND with GRAVEL (SW) 10YR 5/6, moist, medium dense, medium to very coarse sand, fine angular to subrounded gravel, trace to 5% fines, (20%, 75%, trace to 5%)
				YELLOWISH BROWN SILTY CLAY (CL) 10YR 5/8, moist, stiff to hard, low plasticity, some dark mottling, trace sand, (0%, trace, 100)
0.0	5 11 16	15		
		20		Trace sand and trace to 10% fine angular to subrounded gravel by 20 ft.
0.0	6 12 19			
				YELLOWISH BROWN SILTY CLAY with GRAVEL (CL) 10YR 5/6, moist, stiff, low plasticity, angular to subrounded fine gravel, trace fine sand, (20%, trace, 75-80%)
		25		(Continued)

PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	48.5 feet
GEOLOGIST/ENGINEER	Gary Thomas	DATE STARTED	7/23/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/23/07

PLATE
B-5

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF MONITORING WELL MW-4



PROJECT	Sparkle Cleaners Site	DIAMETER OF HOLE	8 inches
LOCATION	7000 Bancroft, Oakland, California	REVIEWED BY	GDT
JOB NUMBER	881.060.03.002	TOTAL DEPTH OF HOLE	48.5 feet
GEOLOGIST/ENGINEER	Gary Thomas	DATE STARTED	7/23/07
DRILL RIG	Marl M-10 Hollow Stem Auger	DATE COMPLETED	7/23/07

PLATE

B-5

APPENDIX C

MONITORING WELL DEVELOPMENT FORMS

WELL DEVELOPMENT DATA SHEET

Project #: 072801-DW1	Client: PES
Developer: DW-IF	Date Developed: 8/1/07
Well I.D. MW-01	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 46.90 After 47.96	Depth to Water: Before 23.11 After 29.29
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

3.8	X	10		38
1 Case Volume		Specified Volumes	=	gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1210	70.0	7.30	1407	>1000	3.8	surged for 15 min before purging
1216	69.0	7.35	1356	>1000	7.6	brown
1221	69.1	7.28	1249	>1000	11.4	
1226	68.8	7.10	1187	>1000	15.2	
1230	69.0	7.10	1148	>1000	19.0	lighter brown
1243	68.9	7.07	1136	>1000	22.8	surged well = 10 min
1248	69.0	7.02	1067	>1000	26.6	Brown/Silty
1252	68.8	7.02	1017	>1000	30.4	Lighter brown
1256	69.1	7.00	974	>1000	34.2	
1300	68.9	6.97	959	>1000	38.0	

Did Well Dewater? NO	If yes, note above.	Gallons Actually Evacuated:	38 gls.

WELL MONITORING DATA SHEET

Project #: 070801-OW-1	Client: PES
Sampler: DW/KF	Date: 8-1-07
Well I.D.: MW-02	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.84, 34.84	Depth to Water Pre: 13.61 Post: 22.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump X Bailer
Sampling Method: Dedicated Tubing | New Tubing | Other

~~Flow Rate~~: CV = 3.4 x 10 = 34 ~~Pump Depth~~: used 2" surge-block

Time	Temp. (°C or (°F))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed ((gals.) or mL)	Observations
0850	70.2	6.51	2673	>1000	-	-	3.4	Surged well = 15 min silty/brown
0855	69.1	6.52	1714	>1000	-	-	6.8	
0900	68.5	6.54	1502	>1000	-	-	10.2	silty/brown
0903	68.3	6.67	1444	>1000	-	-	13.6	
0908	68.2	6.65	1389	>1000	-	-	17.0	
0927	67.4	6.87	1353	>1000	-	-	20.4	Surged well = 10 min Brown/silty
0932	67.9	6.91	1359	>1000	-	-	23.8	silty/brown
0935	68.1	6.93	1328	>1000	-	-	27.2	" "
0939	68.3	6.90	1319	>1000	-	-	30.6	" "
0944	68.5	7.11	1296	>1000	-	-	34.0	" "
							hard bottom	

Did well dewater? Yes (No) Amount actually evacuated: 34 g/s

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: 070801-DW-1	Client: PES
Sampler: DW/KF	Date: 8-1-07
Well I.D.: MW-03	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 44.03	Depth to Water Pre: 19.25 Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump
Sampling Method: Dedicated Tubing

Peristaltic Pump
New Tubing

Bladder Pump x PAO pump
Other

~~Flow Rate~~: CV = 4.0 x 10 = 40

~~Pump Depth~~: used 2" surge block

Time	Temp. (°C or (°F))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed ((gals) or mL)	Observations
1350	69.0	7.21	712	>1000	—	—	4	surged = 15 min Brown/silty
1356	68.7	7.10	728	>1000	"	"	8	" "
1402	69.3	7.19	691	>1000	—	—	12	" "
1410	68.8	7.26	750	>1000	—	—	16	" "
1418	68.8	7.29	780	>1000	—	—	20	DTW = 41.00
1449	71.8	7.49	769	>1000	—	—	24	surged well = 10 min
	well dewatered @ 25 gls. DTW = 41.80							
1505	DTW =	39.30						

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELL DEVELOPMENT DATA SHEET

Project #: 070801-DW-1	Client: PES
Developer: DW/KF	Date Developed: 8-1-07
Well I.D. MW-04	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 46.10 After 48.43	Depth to Water: Before 22.05 After 25.35
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

3.8	X	10		38
1 Case Volume		Specified Volumes	=	gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1025	67.9	7.29	1310	>1000	3.8	Surged well = 15 min - brown
1031	68.3	7.24	1142	>1000	7.6	brown
1038	67.8	7.20	1073	>1000	11.4	" "
1043	68.6	7.12	1042	>1000	15.2	" "
1048	68.9	7.10	1007	>1000	19.0	" "
1105	68.4	7.18	1108	>1000	22.8	Surged well = 10 min Brown/silty
1110	69.2	7.10	1018	>1000	26.6	
1115	69.1	7.12	956	>1000	30.4	A little lighter brown
1121	69.2	7.08	947	>1000	34.2	Brown
1126	69.4	7.07	927	>1000	38.0	Hard bottom

Did Well Dewater? no	If yes, note above.	Gallons Actually Evacuated:	38 gls

APPENDIX D

MONITORING WELL SURVEY DATA

925-524-9100

PES-EASTMONT.job 10/08/07 16:58:18

Point	Northing	Easting	Elevation	Description	Latitude	Longitude	Height
2	2,051,467.2249	6,102,005.0598	36.08				
3	2,106,685.4664	6,076,801.4729	50.29	CP N&S	37.370557855	-122.051367938	-70.24
4	2,106,635.3212	6,076,724.0968	49.73	CP	37.460708923	-122.103920167	-55.70
5	2,106,589.9950	6,076,746.6948	50.19	MW-01 LID	37.460657982	-122.104015402	-56.26
6	2,106,590.0247	6,076,746.7232	49.51	MW-01 TOP PVC	37.460613577	-122.103986249	-55.81
7	2,106,579.0334	6,076,668.8621	49.27	MW-02 LID	37.460613607	-122.103986214	-56.48
8	2,106,579.1294	6,076,668.8231	49.07	MW-02 TOP PVC	37.460601361	-122.104082927	-56.73
9	2,106,554.6759	6,076,623.2820	49.81	CP N&S	37.460601456	-122.104082978	-56.93
10	2,106,355.3241	6,076,770.3159	50.27	MW-04 LID	37.460576475	-122.104139143	-56.18
11	2,106,355.2729	6,076,770.2100	49.81	MW-04 TOP PVC	37.460382018	-122.103951595	-55.73
12	2,106,578.3839	6,076,900.8650	50.88	MW-03 LID	37.460381965	-122.103951726	-56.19
13	2,106,578.5630	6,076,900.9141	50.43	MW-03 TOP PVC	37.460604831	-122.103794006	-55.11
14	2,100,020.0166	6,068,736.6448	11.53	CP AA3814 HPGN	37.460605009	-122.103793949	-55.56
					37.445975880	-122.121811807	-94.73

Surveyed by Matthew Edward Chapman PLS 7054

Matthew Chapman

APPENDIX E

MONITORING WELL SAMPLING FORMS

V. ...L MONITORING DATA SHE...

Project #: 070807-PC1	Client: PES, Eastmont Town Center
Sampler: PC	Date: 8/7/07
Well I.D.: MW-01	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 46.98	Depth to Water (DTW): 23.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 28.29	

Purge Method: Bailer; Disposable Bailer; ↖Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ↖Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

3.7 (Gals.) X	3	=	11.1 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1442	20.1	7.12	1803	71000	3.7	brown
1449	20.3	6.87	1470	>1000	7.4	↓
1454	20.4	6.86	1395	>1000	11.1	↓

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Date: 8/7/07 Sampling Time: 1500 Depth to Water: 26.20

Sample I.D.: MW-01 Laboratory: Kiff CalScience Other (TA)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: VOC's

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): ~~MW-~~ DUP @ 1510

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

V. _L MONITORING DATA SHE_

Project #: 070807-PC1	Client: PES, Eastmond Town Center
Sampler: PC	Date: 8/7/07
Well I.D.: MW-02	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 32.70	Depth to Water (DTW): 14.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.98	

Purge Method: Bailer; Disposable Bailer; (Positive Air Displacement); Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

2.9 (Gals.) X	3 =	8.7 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (mS))	Turbidity (NTUs)	Gals. Removed	Observations
1418	20.3	6.82	2410	>1000	3	brown
1424	20.4	6.57	1844	>1000	6	↓
1429	20.4	6.52	1792	>1600	8.7	↓

Did well dewater? Yes (No) Gallons actually evacuated: 8.7

Sampling Date: 8/7/07 Sampling Time: 1436 Depth to Water: 17.58

Sample I.D.: MW-02 Laboratory: Kiff CalScience Other (TA)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: VOCs

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

V. .L MONITORING DATA SHE .'

Project #: 070807-R1	Client: PES, Eastmont Towncenter
Sampler: DC	Date: 8/7/07
Well I.D.: MW-03	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 43.97	Depth to Water (DTW): 17.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 23.05	

Purge Method: Bailer; Disposable Bailer; (X) Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (X) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

4.2 (Gals.) X	3	=	12.6 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (C))	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1348	19.9	7.22	1498	>1000	4.2	brown
1352	19.7	6.79	1428	>1000	8.4	"
1400	19.7	6.76	1510	>1000	12.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 12.6

Sampling Date: 8/7/07 Sampling Time: 1405 Depth to Water: 23.00

Sample I.D.: MW-03 Laboratory: Kiff CalScience Other TA

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: VOCs

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

V. .L MONITORING DATA SHE .

Project #: 070807-A1	Client: PES, Eastmont Town Center
Sampler: DC	Date: 8/7/07
Well I.D.: MW04	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 48.50	Depth to Water (DTW): 22.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.64	

Purge Method: Bailer; (X) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (X) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

4.2 (Gals.) X 3 = 12.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1308	20.8	7.16	1923	>1000	4.2	brown
1315	20.7	7.04	1960	>1000	8.4	"
1322	20.6	6.96	1931	>1000	12.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 12.6

Sampling Date: 8/7/07 Sampling Time: 1330 Depth to Water: 24.15

Sample I.D.: MW04 Laboratory: Kiff CalScience Other TA

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: VOCs

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

APPENDIX F

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-10253-1

Job Description: Eastmont Town Center

For:
PES Environmental, Inc.
1682 Novato Boulevard
Suite 100
Novato, CA 94947-7021

Attention: Mr. Miguel Rizo

Surinder Sidhu

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
08/15/2007

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: PES Environmental, Inc. Job Number: 720-10253-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-10253-1	**MW-01**				
Trichloroethene		3.1	0.50	ug/L	8260B
Tetrachloroethene		60	0.50	ug/L	8260B
720-10253-2	**MW-02**				
Trichloroethene		1.2	0.50	ug/L	8260B
Tetrachloroethene		25	0.50	ug/L	8260B
720-10253-3	**MW-03**				
Tetrachloroethene		1.6	0.50	ug/L	8260B
720-10253-6	**DUP**				
Trichloroethene		3.1	0.50	ug/L	8260B
Tetrachloroethene		71	0.50	ug/L	8260B

METHOD SUMMARY

Client: PES Environmental, Inc. Job Number: 720-10253-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: PES Environmental, Inc. Job Number: 720-10253-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-10253-1	MW-01	Water	08/07/2007 1500	08/08/2007 1510
720-10253-2	MW-02	Water	08/07/2007 1436	08/08/2007 1510
720-10253-3	MW-03	Water	08/07/2007 1405	08/08/2007 1510
720-10253-4	MW-04	Water	08/07/2007 1330	08/08/2007 1510
720-10253-5TB	TB	Water	08/07/2007 0000	08/08/2007 1510
720-10253-6	DUP	Water	08/07/2007 1510	08/08/2007 1510

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: **MW-01**

Lab Sample ID: 720-10253-1
Client Matrix: Water

Date Sampled: 08/07/2007 1500
Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/14/2007 1545
Date Prepared: 08/14/2007 1545

Analysis Batch: 720-24783

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\08
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	3.1		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	60		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	110	82 - 126
4-Bromofluorobenzene	113	83 - 127
1,2-Dichloroethane-d4 (Surr)	105	86 - 129

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: **MW-02**

Lab Sample ID: 720-10253-2 Date Sampled: 08/07/2007 1436
Client Matrix: Water Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-24783 Instrument ID: Varian 3900D
Preparation: 5030B Lab File ID: c:\saturnws\data\200708\08
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 08/14/2007 1617 Final Weight/Volume: 40 mL
Date Prepared: 08/14/2007 1617

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	1.2		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	25		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	107	82 - 126
4-Bromofluorobenzene	112	83 - 127
1,2-Dichloroethane-d4 (Surr)	107	86 - 129

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: **MW-03**

Lab Sample ID: 720-10253-3 Date Sampled: 08/07/2007 1405
Client Matrix: Water Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-24783 Instrument ID: Varian 3900D
Preparation: 5030B Lab File ID: c:\saturnws\data\200708\08
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 08/14/2007 1722 Final Weight/Volume: 40 mL
Date Prepared: 08/14/2007 1722

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	1.6		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	107	82 - 126
4-Bromofluorobenzene	110	83 - 127
1,2-Dichloroethane-d4 (Surr)	105	86 - 129

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: MW-04

Lab Sample ID: 720-10253-4
Client Matrix: Water

Date Sampled: 08/07/2007 1330
Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/14/2007 1755
Date Prepared: 08/14/2007 1755

Analysis Batch: 720-24783

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\08
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	113	82 - 126
4-Bromofluorobenzene	118	83 - 127
1,2-Dichloroethane-d4 (Surr)	111	86 - 129

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: TB

Lab Sample ID: 720-10253-5TB
Client Matrix: Water

Date Sampled: 08/07/2007 0000
Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/14/2007 1303
Date Prepared: 08/14/2007 1303

Analysis Batch: 720-24783

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\08
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	103	82 - 126
4-Bromofluorobenzene	109	83 - 127
1,2-Dichloroethane-d4 (Surr)	105	86 - 129

Client: PES Environmental, Inc. Job Number: 720-10253-1

Client Sample ID: DUP

Lab Sample ID: 720-10253-6 Date Sampled: 08/07/2007 1510
Client Matrix: Water Date Received: 08/08/2007 1510

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-24783 Instrument ID: Varian 3900D
Preparation: 5030B Lab File ID: c:\saturnws\data\200708\08
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 08/14/2007 1827 Final Weight/Volume: 40 mL
Date Prepared: 08/14/2007 1827

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	3.1		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	71		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	109	82 - 126
4-Bromofluorobenzene	113	83 - 127
1,2-Dichloroethane-d4 (Surr)	108	86 - 129

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: PES Environmental, Inc. Job Number: 720-10253-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-24783					
LCS 720-24783/1	Lab Control Spike	T	Water	8260B	
MB 720-24783/2	Method Blank	T	Water	8260B	
720-10253-1	MW-01	T	Water	8260B	
720-10253-2	MW-02	T	Water	8260B	
720-10253-3	MW-03	T	Water	8260B	
720-10253-4	MW-04	T	Water	8260B	
720-10253-5TB	TB	T	Water	8260B	
720-10253-6	DUP	T	Water	8260B	
720-10290-B-1 MS	Matrix Spike	T	Water	8260B	
720-10290-C-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Client: PES Environmental, Inc.

Job Number: 720-10253-1

Method Blank - Batch: 720-24783

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-24783/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1159
Date Prepared: 08/14/2007 1159

Analysis Batch: 720-24783
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
1,1-Dichloroethene	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	114	82 - 126
4-Bromofluorobenzene	107	83 - 127
1,2-Dichloroethane-d4 (Surr)	111	86 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: PES Environmental, Inc.

Job Number: 720-10253-1

Lab Control Spike - Batch: 720-24783

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-24783/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1126
Date Prepared: 08/14/2007 1126

Analysis Batch: 720-24783
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethene	20.0	20.9	104	65 - 125	
Trichloroethene	20.0	17.9	90	74 - 134	
Chlorobenzene	20.0	19.9	100	61 - 121	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	112	82 - 126
4-Bromofluorobenzene	111	83 - 127
1,2-Dichloroethane-d4 (Surr)	107	86 - 129

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-24783

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-10290-B-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1408
Date Prepared: 08/14/2007 1408

Analysis Batch: 720-24783
Prep Batch: N/A

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\(
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-10290-C-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/14/2007 1440
Date Prepared: 08/14/2007 1440

Analysis Batch: 720-24783
Prep Batch: N/A

Instrument ID: Varian 3900D
Lab File ID: c:\saturnws\data\200708\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethene	110	111	65 - 125	1	20		
Trichloroethene	87	91	74 - 134	5	20		
Chlorobenzene	100	101	61 - 121	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	100	99	82 - 126
4-Bromofluorobenzene	107	108	83 - 127
1,2-Dichloroethane-d4 (Surr)	103	102	86 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

106679

LAB TA - San Francisco | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

CHAIN OF CUSTODY BTS # 070207-AC2

CLIENT: PES

SITE: Eastmont Town Center
7200 Bancroft Ave.
Oakland, CA

SPECIAL INSTRUCTIONS

Invoice and Report to : PES
Attn: Miguel Rizo

720-10253

	SAMPLE I.D.	DATE	TIME	MATRIX (S=SOIL W=H_2O)	CONTAINERS TOTAL	3x40ml HCl Vo	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: VOCs (8010 list by EPA 8260)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1.	MW-01	8/7/07	1500	W	3			X				
2.	MW-02		1436		3			X				
3.	MW-03		1405		3			X				
4.	MW-04		1330		3			X				
5.	TB		-		2			X				
6.	DUP		1510		3			X				

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SAMPLING COMPLETED: DATE 8/7/07 TIME 1512
SAMPLING PERFORMED BY: P. Cornish

RESULTS NEEDED NO LATER THAN: STANDARD TAT

		DATE	TIME		DATE	TIME
RELEASED BY	Patrick	8/7/07	1630	RECEIVED BY Patrick	8/7/07	1630
RELEASED BY	FedEx (Sample Cust)	8/8/07	1250	RECEIVED BY	8/8/07	1250
RELEASED BY		8/8/07	1510	RECEIVED BY	8/8/07	1510

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # | 5.4°C

LOGIN SAMPLE RECEIPT CHECK LIST

Client: PES Environmental, Inc.

Job Number: 720-10253-1

Login Number: 10253

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

DISTRIBUTION

THIRD QUARTER 2007
GROUNDWATER MONITORING REPORT
SPARKLE CLEANERS
EASTMONT TOWN CENTER
7000 BANCROFT AVENUE
OAKLAND, CALIFORNIA

OCTOBER 8, 2007

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