SCANLANKEMPERBARD COMPANIES
REAL ESTATE PRIVATE EQUITY

April 8, 2013

881.060.03.009

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

Attention: Mr. Jerry Wickham

Transmittal
Groundwater Monitoring Report, First Semi-Annual 2013 Event
Sparkle Cleaners
Eastmont Town Center
7000 Bancroft Avenue
Oakland, California
SLIC Case RO0002942

Dear Mr. Wickham:

Submitted herewith for your review is the Groundwater Monitoring Report for the First Semi-Annual 2013 Event, prepared by PES Environmental, Inc.

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.

Yours very truly,

Eastmont Oakland Associates, LLC

James V. Paul
Executive Vice President – Asset Management
ScanlanKemperBard Companies, LLC, Asset Manager

cc: Gary Thomas – PES Environmental, Inc.
Ms. Beena Standig – Unico Management Services

88106003T010.docx

PES Environmental, Inc.
Engineering & Environmental Services

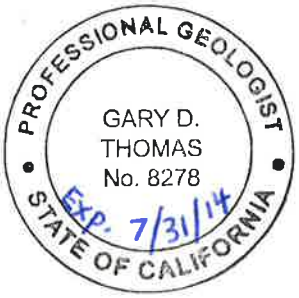
A Report Prepared for:

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

Attention: Mr. Jerry Wickham

GROUNDWATER MONITORING REPORT
FIRST SEMI-ANNUAL 2013 EVENT
SPARKLE CLEANERS
EASTMONT TOWN CENTER
7000 BANCROFT AVENUE
OAKLAND, CALIFORNIA

APRIL 5, 2013



By:

Gary Thomas, P.G.
Senior Geologist

William W. Mast, P.G.
Principal Engineer

881.060.03.009

TABLE OF CONTENTS

LIST OF TABLES

LIST OF ILLUSTRATIONS

1.0 INTRODUCTION

This report presents the results of groundwater monitoring activities conducted during the first semi-annual 2013 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. Until December 2008, tetrachloroethene (PCE) was used as the dry-cleaning solvent. At that time the PCE-based equipment was decommissioned, removed from the property, and replaced with new clothes cleaning equipment that utilizes "wet-cleaning" technology with a soy-based cleaner (i.e., no hazardous chemicals are used or stored on the Site). 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.

2.0 BACKGROUND INFORMATION

The groundwater monitoring activities were conducted in accordance with the Remedial Action Workplan (RAW) that was approved by ACEH in a letter dated February 27, 2007 (PES, 2007a; ACEH, 2007a). The scope of work in the RAW also included removing the source of PCE soil contamination beneath Sparkle Cleaners and installing four groundwater monitoring wells. Excavation activities to remove the source of PCE in soil were successfully completed in July 2007 and documented 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. The groundwater monitoring wells were installed in July 2007 and the baseline groundwater sampling event was conducted in August 2007. The details of the well installations and the results of the baseline sampling event are presented in the *Third Quarter 2007 Groundwater Monitoring Report* (PES, 2007c). In a letter dated October 4, 2007, ACEH provided comments on the *Post-Remediation Report* and requested additional analytical testing during two quarters of groundwater monitoring (ACEH, 2007b). After four quarters of groundwater monitoring were completed in June 2008, PES recommended that the frequency of monitoring be reduced to a semi-annual basis (PES, 2008). ACEH agreed with this recommendation in a letter dated October 23, 2008 (ACEH, 2008).

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 is not declining.

3.0 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 Site topography slopes gently 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).

4.0 GROUNDWATER MONITORING WELL SAMPLING ACTIVITIES

Groundwater monitoring activities for the current event consisted of: (1) collection of depth to groundwater measurements and calculation of groundwater elevations; (2) groundwater sample collection; and (3) laboratory analysis of the samples for halogenated VOCs. Field activities were conducted by Blaine Tech Services (BTS) of San Jose, California on March 18, 2013. Construction details for the four monitoring wells are provided in Table 1.

4.1 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 measurements. Decontamination fluids were stored temporarily on the Site in a DOT-approved 55-gallon drum pending off-Site 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.

4.2 Monitoring Well Sampling

After collecting water-level data, BTS 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 for each well. Samples were collected using a disposable bailer and decanted into laboratory-provided sample containers. Groundwater temperature, pH, conductivity, and turbidity were monitored during purging. The BTS monitoring well sampling forms are presented in Appendix A.

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

5.0 GROUNDWATER MONITORING RESULTS

5.1 Groundwater Elevation Measurements

Groundwater elevations measured on March 18, 2013 ranged from 26.11 feet MSL in well MW-01 to 36.05 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. As described in the previous monitoring reports, 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 observed 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 current monitoring event was approximately 0.035 foot per foot to the west (see Plate 2). In addition, the analytical results discussed below suggest a westerly to northwesterly direction for groundwater flow.

5.2 Groundwater Sample Analytical Results

The analytical results for the groundwater samples collected on March 18, 2013 are summarized below and presented in Table 3. The laboratory analytical report and chain-of-custody documentation are provided in Appendix B.

PCE was detected in three of the four monitoring wells at concentrations ranging from 1.6 micrograms per liter (μg/L) in well MW-03 to 150 μg/L in well MW-01 (PCE was also detected at 150 μg/L in the duplicate sample from well MW-01). TCE was detected at concentrations of 3.4 and 0.95 μg/L in wells MW-01 and MW-02. Cis-1,2-dichloroethene (cis-1,2-DCE) was detected at a concentration of 0.67 μg/L in well MW-03. No other VOCs were detected at concentrations exceeding laboratory reporting limits in the samples from wells MW-01 through MW-03, and no VOCs were detected 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 prior monitoring data.

5.3 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 detected in this sample are 0 and 2.9 percent, respectively. The water samples were analyzed within acceptable EPA holding times. The data from TestAmerica are considered to be representative and of good quality.

6.0 SUMMARY

The first semi-annual 2013 groundwater monitoring event has been conducted in accordance with approved procedures.

Based on the groundwater elevation data from wells MW-01, MW-03, and MW-04, groundwater flow at the Site during this sampling event continues to be westerly (see Plate 2). The only VOC constituents detected above laboratory reporting limits in groundwater during this monitoring event were PCE, TCE, and cis-1,2-DCE. The maximum concentrations of PCE and TCE were detected in well MW-01 at 150 μg/L and 3.4 μg/L, respectively. PCE and TCE were also detected at 150 μg/L and 3.5 μg/L, respectively, in the duplicate sample from well MW-01. These concentrations are generally similar to those observed during previous monitoring events. Groundwater monitoring data collected since removal of the vadose zone source area in 2007 indicate that VOC concentrations are fairly stable in downgradient monitoring wells MW-01 and MW-02.

The next monitoring event is scheduled for September 2013.

7.0 REFERENCES

Alameda County Environmental Health (ACEH), 2007a. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Work Plan Approval*. February 27.

ACEH, 2007b. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Post-Remediation Report Review*. October 4.

ACEH, 2008. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Post-Remediation Report Review*. October 23.

ACEH, 2009. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Groundwater Monitoring*. September 4.

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.

PES, 2007c. *Third Quarter 2007 Groundwater Monitoring Report, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California*. October 8.

PES, 2008. *Second Quarter 2008 Groundwater Monitoring Report, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California*. September 29.

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 Pack 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-01	11/19/2007	49.51	24.85	24.66
MW-01	2/6/2008	49.51	22.93	26.58
MW-01	5/15/2008	49.51	23.52	25.99
MW-01	11/19/2008	49.51	26.80	22.71
MW-01	5/14/2009	49.51	23.92	25.59
MW-01	1/5/2010	49.51	25.64	23.87
MW-01	5/20/2011	49.51	21.02	28.49
MW-01	3/18/2013	49.51	23.40	26.11
MW-02	8/7/2007	49.07	14.30	34.77
MW-02	11/19/2007	49.07	14.83	34.24
MW-02	2/6/2008	49.07	14.11	34.96
MW-02	5/15/2008	49.07	13.07	36.00
MW-02	11/19/2008	49.07	17.57	31.50
MW-02	5/14/2009	49.07	14.21	34.86
MW-02	1/5/2010	49.07	15.05	34.02
MW-02	5/20/2011	49.07	10.28	38.79
MW-02	3/18/2013	49.07	13.02	36.05
MW-03	8/7/2007	50.43	17.82	32.61
MW-03	11/19/2007	50.43	24.70	25.73
MW-03	2/6/2008	50.43	22.86	27.57
MW-03	5/15/2008	50.43	22.27	28.16
MW-03	11/19/2008	50.43	23.64	26.79
MW-03	5/14/2009	50.43	22.37	28.06
MW-03	1/5/2010	50.43	24.00	26.43
MW-03	5/20/2011	50.43	18.31	32.12
MW-03	3/18/2013	50.43	18.93	31.50
MW-04	8/7/2007	49.81	22.43	27.38
MW-04	11/19/2007	49.81	23.81	26.00
MW-04	2/6/2008	49.81	22.80	27.01
MW-04	5/15/2008	49.81	22.32	27.49
MW-04	11/19/2008	49.81	25.60	24.21
MW-04	5/14/2009	49.81	23.50	26.31
MW-04	1/5/2010	49.81	24.52	25.29
MW-04	5/20/2011	49.81	19.39	30.42
MW-04	3/18/2013	49.81	22.07	27.74

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

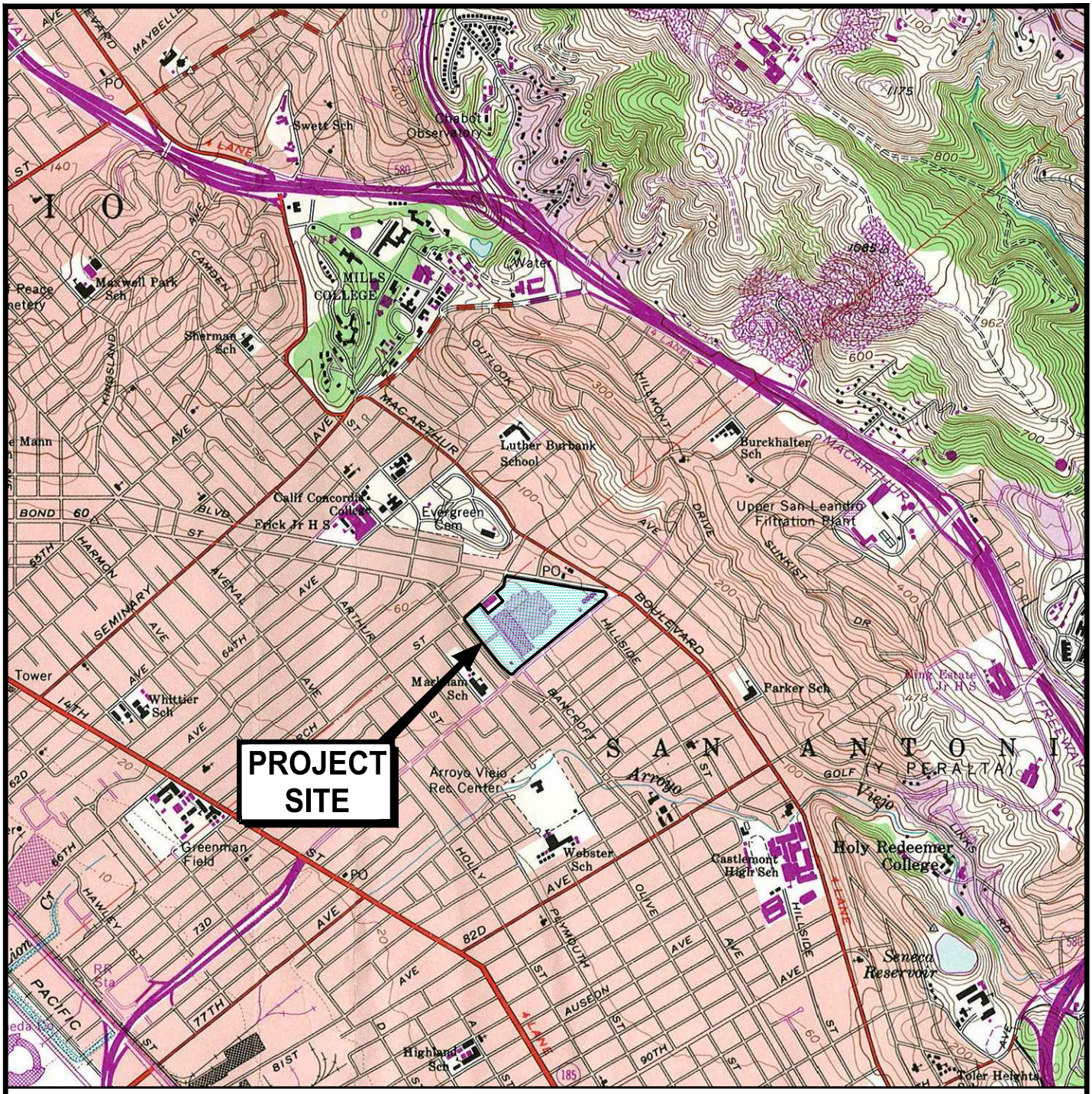
Sample Location	Sample Date	Petroleum Hydrocarbons		Volatile Organic Compounds									
		TPHg (µg/L)	TPHd (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	Other VOCs (µg/L)
MW-01	8/7/2007	NA	NA	**60**	**3.1**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	8/7/2007	NA	NA	**71**	**3.1**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01	11/19/2007	**110** (1)	**52**	**110**	**5.2**	ND (1.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	11/19/2007	**110** (1)	**79**	**100**	**5.0**	ND (1.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	2/6/2008	**140** (1)	**57**	**130**	**5.8**	**0.58**	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	2/6/2008	**140** (1)	**65**	**130**	**5.7**	**0.60**	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	5/15/2008	NA	NA	**130**	**5.5**	**0.53**	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	5/15/2008	NA	NA	**140**	**5.4**	**0.54**	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	11/19/2008	NA	NA	**110**	**4.4**	ND (1.0)	ND (2.0)	NA	NA	NA	NA	NA	ND
MW-01 (D)	11/19/2008	NA	NA	**110**	**4.3**	ND (1.0)	ND (2.0)	NA	NA	NA	NA	NA	ND
MW-01	5/14/2009	NA	NA	**160**	**5.3**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	5/14/2009	NA	NA	**140**	**4.9**	ND (2.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	1/5/2010	NA	NA	**110**	**4.1**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	1/5/2010	NA	NA	**120**	**4.3**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	5/20/2011	NA	NA	**110**	**4.0**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	5/20/2011	NA	NA	**120**	**4.3**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	3/18/2013	NA	NA	**150**	**3.4**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	3/18/2013	NA	NA	**150**	**3.5**	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-02	8/7/2007	NA	NA	**25**	**1.2**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	11/19/2007	ND (50)	**120**	**26**	**0.93**	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	2/6/2008	ND (50)	**200**	**25**	**0.90**	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	5/15/2008	NA	NA	**20**	**0.91**	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	11/19/2008	NA	NA	**23**	**0.88**	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-02	5/14/2009	NA	NA	**31**	**0.84**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	1/5/2010	NA	NA	**24**	**0.60**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	5/20/2011	NA	NA	**39**	**1.2**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	3/18/2013	NA	NA	**36**	**0.95**	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	8/7/2007	NA	NA	**1.6**	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	11/19/2007	ND (50)	**79**	**2.1**	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	2/6/2008	ND (50)	**70**	**2.0**	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	5/15/2008	NA	NA	**1.5**	ND (0.50)	**0.50**	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	11/19/2008	NA	NA	**2.0**	ND (0.50)	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-03	5/14/2009	NA	NA	**1.8**	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	1/5/2010	NA	NA	**1.5**	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	5/20/2011	NA	NA	**1.8**	ND (0.50)	**0.57**	NA	NA	NA	NA	NA	NA	ND
MW-03	3/18/2013	NA	NA	**1.6**	ND (0.50)	**0.67**	NA	NA	NA	NA	NA	NA	ND
MW-04	8/7/2007	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	11/19/2007	ND (50)	**69**	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	2/6/2008	ND (50)	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	5/15/2008	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	11/19/2008	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-04	5/14/2009	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	1/5/2010	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	5/20/2011	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	3/18/2013	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND

Notes:

TPHg - Gasoline range organics (C5-C12)
TPHd - Diesel range organics (C10-C28)
DCE - Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
µg/L - Micrograms per liter
NA - Not Analyzed
ND (0.50) - Not detected at or above indicated laboratory reporting limit
ND - Not detected at or above the laboratory reporting limit (varies by analyte)
(D) - Field duplicate sample
(1) - The analytical laboratory narrative states that the reported gasoline range organics concentration is due to the presence of PCE.

MTBE - Methyl tert-butyl ether
TAME - Tert-amyl methyl ether
TBA - Tert-butyl alcohol
DIPE - Diisopropyl ether
ETBE - Ethyl tert-butyl ether

ILLUSTRATIONS



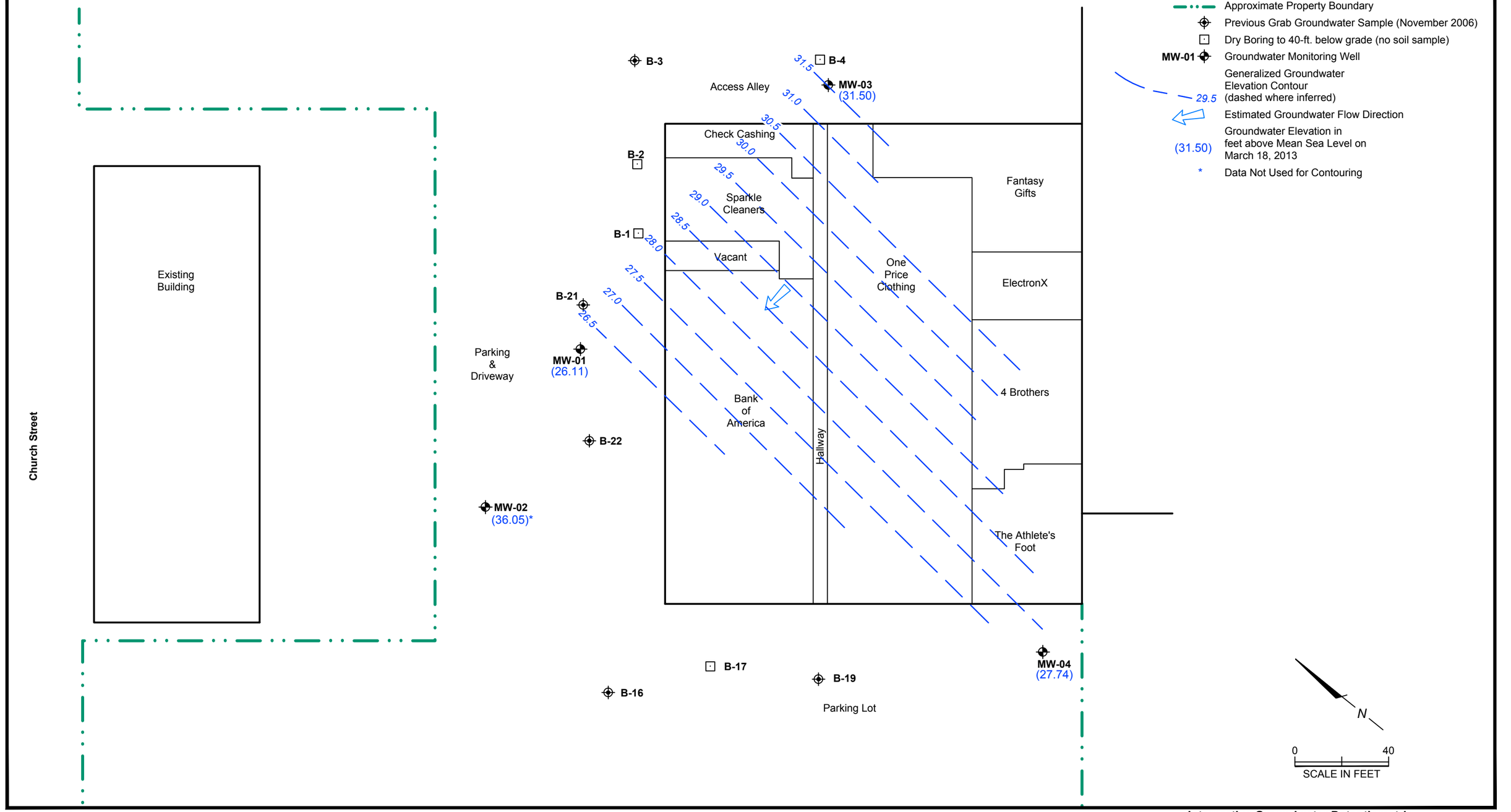
U.S.G.S. Topo Map - Oakland East, California, 7.5-minute quadrangle. Map version 1959; current as of 1980.

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Sparkle Cleaners
Eastmont Town Center
Oakland, California

PLATE
1

881.060.03.009	881-06003-009_H1_2013_1	GDT	4/13
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services

Interpretive Groundwater Potentiometric Surface Map - March 18, 2013
Sparkle Cleaners
Eastmont Town Center
Oakland, California

PLATE 2

881.060.03.009	881-06003-009_H1_2013_2	GDT	4/13
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

MONITORING WELL SAMPLING FORMS

WELL GAUGING DATA

Project # 130319-MM1 Date 3/19/13 Client PES

Site 7200 BANCROFT AVE, OAKLAND, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-01	0947	2					23.40	46.94	TOC	
MW-02	0815	2					13.02	34.68		
MW-03	0848	2					18.93	43.95		
MW-04	0811	2					22.07	48.34	↓	
*	ALL CAPS REMOVED 15 MINS PRIOR TO GAUGING.									
-	MW-03: PARKED OVER 84 B&B RIG (LOADING DOCK). DEVIATED FROM CLEAN TO DIRTY.									

WELLHEAD INSPECTION CHECKLIST

Client PES Date 3/18/13

Site Address 7200 BANCROFT AVE, OAKLAND, CA

Job Number 130318-MW1 Technician MW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-01	X	X						
MW-02	X							
MW-03	X							
MW-04	X							

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	PES @ EASTMONT TOWN CTR. 7200 BANCROFT AVE, OAKLAND, CA	PROJECT NUMBER	130218-WW1

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
MYRON L ULTRAMETER 2	6209577	3/18/13 0823	pH: 4, 7, 10 Cond: 3900	pH: 4.00, 10.00, 7.00 Cond: 3900	YES	12.8°C	MM

WELL MONITORING DATA SHEET

Project #: ~~130303~~ 130318-MW1	Client: PES
Sampler: MW	Date: 3/18/13
Well I.D.: MW-01	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 46.94	Depth to Water (DTW): 23.44
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]: 28.14	

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

1 Case Volume		Specified Volumes		Calculated Volume
3.8	(Gals.) X	3	=	11.4 Gals.

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
1056	17.3	7.40	970	>1000	3.8	
1100	18.0	7.12	930	893	7.6	
1104	17.7	7.02	902	665	11.4	

Did well dewater? Yes (No) Gallons actually evacuated: 11.4

Sampling Date: 3/18/13 Sampling Time: 1110 Depth to Water: 25.18

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

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

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

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

WELL MONITORING DATA SHEET

Project #: 130328-mw1	Client: PES
Sampler: mw	Date: 3/18/13
Well I.D.: MW-02	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 34.68	Depth to Water (DTW): 13.06
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]: 17.38	

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: ____

3.5 (Gals.) X	3	=	10.5 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
1025	17.0	7.25	1020	>1000	3.5	brown
1028	17.8	7.00	1028	960	7	"
1032	17.7	6.99	1026	820	10.5	cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 10.5

Sampling Date: 3/18/13 Sampling Time: 1040 Depth to Water: 16.89

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

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

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

ELL MONITORING DATA SHEET

Project #: 130319-WW1	Client: PES
Sampler: WW	Date: 3/19/13
Well I.D.: MW-03	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 43.95	Depth to Water (DTW): 18.94
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]: 23.94	

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:_____

4.0 (Gals.) X 3 = 12.0 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
0949	16.8	7.59	648	668	4	
0954	17.6	7.08	~~6486~~ 649	148	8	
1000	17.9	6.98	654	261	12	

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Date: 3/19/13 Sampling Time: 1010 Depth to Water: 23.36

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

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

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

WELL MONITORING DATA SHEET

Project #: 130318-mw1	Client: PES
Sampler: ww	Date: 3/18/13
Well I.D.: MW-04	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 49.34	Depth to Water (DTW): 22.08
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]: 27.33	

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: ____

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
0906	17.6	8.09	707	>1000	4.2	brown
0910	17.9	7.49	736	867	8.4	cloudy
0915	17.9	7.01	751	435	12.6	"

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

Sampling Date: 3/18/13 Sampling Time: 0920 Depth to Water: 23.88

Sample I.D.: MW-04 Laboratory: Kiff CalScience Other TA

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

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

WELL MONITORING DATA SHEET

Project #: 130318-WW1	Client: PES
Sampler: WW	Date: 3/18/13
Well I.D.: 1DW	Well Diameter: 2 3 4 6 8
Total Well Depth (TD):	Depth to Water (DTW):
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]:	

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:

~~(Gals.) X~~	=	~~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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
X DRUM SAMPLE						
- collected sample from 2 drums (composite)						

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

Sampling Date: 3/18/13 Sampling Time: 1205 Depth to Water: —

Sample I.D.: 1DW Laboratory: Kiff CalScience Other TA-SF

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

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 B

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-48402-1
Client Project/Site: Eastmont Town Center

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

Attn: Mr. Gary Thomas

Authorized for release by:
3/22/2013 4:43:09 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-48402-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-48402-1

Comments
No additional comments.

Receipt
The samples were received on 3/18/2013 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.6° C.

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

Detection Summary

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

Client Sample ID: MW-01 — Lab Sample ID: 720-48402-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.4		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	150		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: MW-02 — Lab Sample ID: 720-48402-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.95		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	36		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: MW-03 — Lab Sample ID: 720-48402-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.67		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.6		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: MW-04 — Lab Sample ID: 720-48402-4

No Detections

Client Sample ID: DUP — Lab Sample ID: 720-48402-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.5		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	150		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: TB-1 — Lab Sample ID: 720-48402-6

No Detections

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-01
Date Collected: 03/18/13 11:10
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 01:14	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 01:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 01:14	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 01:14	1
Chloroethane	ND		1.0		ug/L			03/20/13 01:14	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 01:14	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 01:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 01:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 01:14	1
Chloroform	ND		1.0		ug/L			03/20/13 01:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 01:14	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 01:14	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 01:14	1
Trichloroethene	**3.4**		0.50		ug/L			03/20/13 01:14	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 01:14	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 01:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 01:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 01:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 01:14	1
Tetrachloroethene	**150**		0.50		ug/L			03/20/13 01:14	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 01:14	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 01:14	1
Bromoform	ND		1.0		ug/L			03/20/13 01:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 01:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:14	1
Chloromethane	ND		1.0		ug/L			03/20/13 01:14	1
Bromomethane	ND		1.0		ug/L			03/20/13 01:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 01:14	1
EDB	ND		0.50		ug/L			03/20/13 01:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/20/13 01:14*	*1*
4-Bromofluorobenzene	*83*		*67 - 130*		*03/20/13 01:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 138*		*03/20/13 01:14*	*1*

Client Sample ID: MW-02
Date Collected: 03/18/13 10:40
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 00:42	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 00:42	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 00:42	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 00:42	1
Chloroethane	ND		1.0		ug/L			03/20/13 00:42	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 00:42	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 00:42	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 00:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-02
Date Collected: 03/18/13 10:40
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 00:42	1
Chloroform	ND		1.0		ug/L			03/20/13 00:42	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 00:42	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 00:42	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 00:42	1
Trichloroethene	**0.95**		0.50		ug/L			03/20/13 00:42	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 00:42	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 00:42	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 00:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 00:42	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 00:42	1
Tetrachloroethene	**36**		0.50		ug/L			03/20/13 00:42	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 00:42	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 00:42	1
Bromoform	ND		1.0		ug/L			03/20/13 00:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 00:42	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:42	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:42	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:42	1
Chloromethane	ND		1.0		ug/L			03/20/13 00:42	1
Bromomethane	ND		1.0		ug/L			03/20/13 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 00:42	1
EDB	ND		0.50		ug/L			03/20/13 00:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*03/20/13 00:42*	*1*
4-Bromofluorobenzene	*82*		*67 - 130*		*03/20/13 00:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 138*		*03/20/13 00:42*	*1*

Client Sample ID: MW-03
Date Collected: 03/18/13 10:10
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 00:12	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 00:12	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 00:12	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 00:12	1
Chloroethane	ND		1.0		ug/L			03/20/13 00:12	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 00:12	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 00:12	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 00:12	1
cis-1,2-Dichloroethene	**0.67**		0.50		ug/L			03/20/13 00:12	1
Chloroform	ND		1.0		ug/L			03/20/13 00:12	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 00:12	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 00:12	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 00:12	1
Trichloroethene	ND		0.50		ug/L			03/20/13 00:12	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 00:12	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 00:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-03
Date Collected: 03/18/13 10:10
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 00:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 00:12	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 00:12	1
Tetrachloroethene	**1.6**		0.50		ug/L			03/20/13 00:12	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 00:12	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 00:12	1
Bromoform	ND		1.0		ug/L			03/20/13 00:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 00:12	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:12	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:12	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 00:12	1
Chloromethane	ND		1.0		ug/L			03/20/13 00:12	1
Bromomethane	ND		1.0		ug/L			03/20/13 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 00:12	1
EDB	ND		0.50		ug/L			03/20/13 00:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/20/13 00:12*	*1*
4-Bromofluorobenzene	*81*		*67 - 130*		*03/20/13 00:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 138*		*03/20/13 00:12*	*1*

Client Sample ID: MW-04
Date Collected: 03/18/13 09:20
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/19/13 23:41	1
1,1-Dichloroethane	ND		0.50		ug/L			03/19/13 23:41	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/19/13 23:41	1
Vinyl chloride	ND		0.50		ug/L			03/19/13 23:41	1
Chloroethane	ND		1.0		ug/L			03/19/13 23:41	1
Trichlorofluoromethane	ND		1.0		ug/L			03/19/13 23:41	1
Methylene Chloride	ND		5.0		ug/L			03/19/13 23:41	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/19/13 23:41	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/19/13 23:41	1
Chloroform	ND		1.0		ug/L			03/19/13 23:41	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/19/13 23:41	1
Carbon tetrachloride	ND		0.50		ug/L			03/19/13 23:41	1
1,2-Dichloroethane	ND		0.50		ug/L			03/19/13 23:41	1
Trichloroethene	ND		0.50		ug/L			03/19/13 23:41	1
1,2-Dichloropropane	ND		0.50		ug/L			03/19/13 23:41	1
Dichlorobromomethane	ND		0.50		ug/L			03/19/13 23:41	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/19/13 23:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/19/13 23:41	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/19/13 23:41	1
Tetrachloroethene	ND		0.50		ug/L			03/19/13 23:41	1
Chlorodibromomethane	ND		0.50		ug/L			03/19/13 23:41	1
Chlorobenzene	ND		0.50		ug/L			03/19/13 23:41	1
Bromoform	ND		1.0		ug/L			03/19/13 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/19/13 23:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-04
Date Collected: 03/18/13 09:20
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50		ug/L			03/19/13 23:41	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/19/13 23:41	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/19/13 23:41	1
Chloromethane	ND		1.0		ug/L			03/19/13 23:41	1
Bromomethane	ND		1.0		ug/L			03/19/13 23:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/19/13 23:41	1
EDB	ND		0.50		ug/L			03/19/13 23:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/19/13 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*03/19/13 23:41*	*1*
4-Bromofluorobenzene	*83*		*67 - 130*		*03/19/13 23:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 138*		*03/19/13 23:41*	*1*

Client Sample ID: DUP
Date Collected: 03/18/13 00:00
Date Received: 03/18/13 17:55

Lab Sample ID: 720-48402-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 01:44	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 01:44	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 01:44	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 01:44	1
Chloroethane	ND		1.0		ug/L			03/20/13 01:44	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 01:44	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 01:44	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 01:44	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 01:44	1
Chloroform	ND		1.0		ug/L			03/20/13 01:44	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 01:44	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 01:44	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 01:44	1
Trichloroethene	**3.5**		0.50		ug/L			03/20/13 01:44	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 01:44	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 01:44	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 01:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 01:44	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 01:44	1
Tetrachloroethene	**150**		0.50		ug/L			03/20/13 01:44	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 01:44	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 01:44	1
Bromoform	ND		1.0		ug/L			03/20/13 01:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 01:44	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:44	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:44	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 01:44	1
Chloromethane	ND		1.0		ug/L			03/20/13 01:44	1
Bromomethane	ND		1.0		ug/L			03/20/13 01:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 01:44	1
EDB	ND		0.50		ug/L			03/20/13 01:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 01:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*70 - 130*		*03/20/13 01:44*	*1*
4-Bromofluorobenzene	*82*		*67 - 130*		*03/20/13 01:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 138*		*03/20/13 01:44*	*1*

Client Sample ID: TB-1 **Lab Sample ID: 720-48402-6**
Date Collected: 03/18/13 06:30 **Matrix: Water**
Date Received: 03/18/13 17:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 17:20	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 17:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 17:20	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 17:20	1
Chloroethane	ND		1.0		ug/L			03/20/13 17:20	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 17:20	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 17:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 17:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 17:20	1
Chloroform	ND		1.0		ug/L			03/20/13 17:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 17:20	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 17:20	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 17:20	1
Trichloroethene	ND		0.50		ug/L			03/20/13 17:20	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 17:20	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 17:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 17:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 17:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 17:20	1
Tetrachloroethene	ND		0.50		ug/L			03/20/13 17:20	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 17:20	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 17:20	1
Bromoform	ND		1.0		ug/L			03/20/13 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 17:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 17:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 17:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 17:20	1
Chloromethane	ND		1.0		ug/L			03/20/13 17:20	1
Bromomethane	ND		1.0		ug/L			03/20/13 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 17:20	1
EDB	ND		0.50		ug/L			03/20/13 17:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/20/13 17:20*	*1*
4-Bromofluorobenzene	*95*		*67 - 130*		*03/20/13 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 138*		*03/20/13 17:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-132629/4
Matrix: Water
Analysis Batch: 132629

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/19/13 15:58	1
1,1-Dichloroethane	ND		0.50		ug/L			03/19/13 15:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/19/13 15:58	1
Vinyl chloride	ND		0.50		ug/L			03/19/13 15:58	1
Chloroethane	ND		1.0		ug/L			03/19/13 15:58	1
Trichlorofluoromethane	ND		1.0		ug/L			03/19/13 15:58	1
Methylene Chloride	ND		5.0		ug/L			03/19/13 15:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/19/13 15:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/19/13 15:58	1
Chloroform	ND		1.0		ug/L			03/19/13 15:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/19/13 15:58	1
Carbon tetrachloride	ND		0.50		ug/L			03/19/13 15:58	1
1,2-Dichloroethane	ND		0.50		ug/L			03/19/13 15:58	1
Trichloroethene	ND		0.50		ug/L			03/19/13 15:58	1
1,2-Dichloropropane	ND		0.50		ug/L			03/19/13 15:58	1
Dichlorobromomethane	ND		0.50		ug/L			03/19/13 15:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/19/13 15:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/19/13 15:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/19/13 15:58	1
Tetrachloroethene	ND		0.50		ug/L			03/19/13 15:58	1
Chlorodibromomethane	ND		0.50		ug/L			03/19/13 15:58	1
Chlorobenzene	ND		0.50		ug/L			03/19/13 15:58	1
Bromoform	ND		1.0		ug/L			03/19/13 15:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/19/13 15:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/19/13 15:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/19/13 15:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/19/13 15:58	1
Chloromethane	ND		1.0		ug/L			03/19/13 15:58	1
Bromomethane	ND		1.0		ug/L			03/19/13 15:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/19/13 15:58	1
EDB	ND		0.50		ug/L			03/19/13 15:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/19/13 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/19/13 15:58*	*1*
4-Bromofluorobenzene	*85*		*67 - 130*		*03/19/13 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 138*		*03/19/13 15:58*	*1*

Lab Sample ID: LCS 720-132629/5
Matrix: Water
Analysis Batch: 132629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	24.6		ug/L		98	64 - 128
1,1-Dichloroethane	25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	21.3		ug/L		85	34 - 132
Vinyl chloride	25.0	21.7		ug/L		87	54 - 135
Chloroethane	25.0	22.4		ug/L		90	62 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-132629/5
Matrix: Water
Analysis Batch: 132629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	29.7		ug/L		119	66 - 132
Methylene Chloride	25.0	24.0		ug/L		96	70 - 147
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
Chloroform	25.0	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	70 - 130
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 146
1,2-Dichloroethane	25.0	24.7		ug/L		99	61 - 132
Trichloroethene	25.0	27.7		ug/L		111	70 - 130
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 140
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
Tetrachloroethene	25.0	30.4		ug/L		122	70 - 130
Chlorodibromomethane	25.0	26.1		ug/L		104	70 - 145
Chlorobenzene	25.0	26.4		ug/L		105	70 - 130
Bromoform	25.0	26.6		ug/L		107	68 - 136
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
Chloromethane	25.0	22.4		ug/L		90	52 - 175
Bromomethane	25.0	23.6		ug/L		94	43 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.6		ug/L		114	42 - 162
EDB	25.0	28.5		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*

Lab Sample ID: LCSD 720-132629/6
Matrix: Water
Analysis Batch: 132629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	25.0	25.2		ug/L		101	64 - 128	2	20
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130	2	20
Dichlorodifluoromethane	25.0	21.3		ug/L		85	34 - 132	0	20
Vinyl chloride	25.0	21.4		ug/L		86	54 - 135	1	20
Chloroethane	25.0	21.9		ug/L		88	62 - 138	2	20
Trichlorofluoromethane	25.0	30.2		ug/L		121	66 - 132	2	20
Methylene Chloride	25.0	24.0		ug/L		96	70 - 147	0	20
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130	0	20
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-132629/6
Matrix: Water
Analysis Batch: 132629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			25.0	25.9		ug/L		104	70 - 130	2	20
1,1,1-Trichloroethane			25.0	27.9		ug/L		112	70 - 130	0	20
Carbon tetrachloride			25.0	26.6		ug/L		106	70 - 146	0	20
1,2-Dichloroethane			25.0	24.4		ug/L		98	61 - 132	1	20
Trichloroethene			25.0	27.8		ug/L		111	70 - 130	0	20
1,2-Dichloropropane			25.0	24.8		ug/L		99	70 - 130	1	20
Dichlorobromomethane			25.0	26.5		ug/L		106	70 - 130	2	20
trans-1,3-Dichloropropene			25.0	25.1		ug/L		100	70 - 140	1	20
cis-1,3-Dichloropropene			25.0	26.0		ug/L		104	70 - 130	2	20
1,1,2-Trichloroethane			25.0	25.6		ug/L		103	70 - 130	2	20
Tetrachloroethene			25.0	29.8		ug/L		119	70 - 130	2	20
Chlorodibromomethane			25.0	25.9		ug/L		104	70 - 145	1	20
Chlorobenzene			25.0	26.5		ug/L		106	70 - 130	1	20
Bromoform			25.0	27.3		ug/L		109	68 - 136	3	20
1,1,2,2-Tetrachloroethane			25.0	25.0		ug/L		100	70 - 130	2	20
1,3-Dichlorobenzene			25.0	26.4		ug/L		106	70 - 130	0	20
1,4-Dichlorobenzene			25.0	25.7		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene			25.0	26.0		ug/L		104	70 - 130	1	20
Chloromethane			25.0	22.1		ug/L		88	52 - 175	1	20
Bromomethane			25.0	22.8		ug/L		91	43 - 151	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	29.6		ug/L		118	42 - 162	3	20
EDB			25.0	28.4		ug/L		113	70 - 130	0	20
1,2,4-Trichlorobenzene			25.0	25.3		ug/L		101	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*

Lab Sample ID: MB 720-132680/5
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			03/20/13 08:40	1
1,1-Dichloroethane	ND		0.50		ug/L			03/20/13 08:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			03/20/13 08:40	1
Vinyl chloride	ND		0.50		ug/L			03/20/13 08:40	1
Chloroethane	ND		1.0		ug/L			03/20/13 08:40	1
Trichlorofluoromethane	ND		1.0		ug/L			03/20/13 08:40	1
Methylene Chloride	ND		5.0		ug/L			03/20/13 08:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 08:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			03/20/13 08:40	1
Chloroform	ND		1.0		ug/L			03/20/13 08:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			03/20/13 08:40	1
Carbon tetrachloride	ND		0.50		ug/L			03/20/13 08:40	1
1,2-Dichloroethane	ND		0.50		ug/L			03/20/13 08:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-132680/5
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			03/20/13 08:40	1
1,2-Dichloropropane	ND		0.50		ug/L			03/20/13 08:40	1
Dichlorobromomethane	ND		0.50		ug/L			03/20/13 08:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 08:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/20/13 08:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			03/20/13 08:40	1
Tetrachloroethene	ND		0.50		ug/L			03/20/13 08:40	1
Chlorodibromomethane	ND		0.50		ug/L			03/20/13 08:40	1
Chlorobenzene	ND		0.50		ug/L			03/20/13 08:40	1
Bromoform	ND		1.0		ug/L			03/20/13 08:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			03/20/13 08:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			03/20/13 08:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			03/20/13 08:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			03/20/13 08:40	1
Chloromethane	ND		1.0		ug/L			03/20/13 08:40	1
Bromomethane	ND		1.0		ug/L			03/20/13 08:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			03/20/13 08:40	1
EDB	ND		0.50		ug/L			03/20/13 08:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/20/13 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*03/20/13 08:40*	*1*
4-Bromofluorobenzene	*102*		*67 - 130*		*03/20/13 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 138*		*03/20/13 08:40*	*1*

Lab Sample ID: LCS 720-132680/6
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	23.0		ug/L		92	64 - 128
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
Dichlorodifluoromethane	25.0	18.9		ug/L		76	34 - 132
Vinyl chloride	25.0	23.5		ug/L		94	54 - 135
Chloroethane	25.0	24.5		ug/L		98	62 - 138
Trichlorofluoromethane	25.0	23.9		ug/L		96	66 - 132
Methylene Chloride	25.0	24.8		ug/L		99	70 - 147
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	68 - 130
cis-1,2-Dichloroethene	25.0	29.3		ug/L		117	70 - 130
Chloroform	25.0	27.2		ug/L		109	70 - 130
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 146
1,2-Dichloroethane	25.0	28.6		ug/L		114	61 - 132
Trichloroethene	25.0	23.6		ug/L		95	70 - 130
1,2-Dichloropropane	25.0	28.8		ug/L		115	70 - 130
Dichlorobromomethane	25.0	28.3		ug/L		113	70 - 130
trans-1,3-Dichloropropene	25.0	30.6		ug/L		122	70 - 140
cis-1,3-Dichloropropene	25.0	30.8		ug/L		123	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-132680/6
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
Tetrachloroethene	25.0	23.8		ug/L		95	70 - 130
Chlorodibromomethane	25.0	27.0		ug/L		108	70 - 145
Chlorobenzene	25.0	25.9		ug/L		103	70 - 130
Bromoform	25.0	25.5		ug/L		102	68 - 136
1,1,2,2-Tetrachloroethane	25.0	28.1		ug/L		112	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	23.5		ug/L		94	52 - 175
Bromomethane	25.0	22.6		ug/L		90	43 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.1		ug/L		101	42 - 162
EDB	25.0	26.7		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene	*106*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 138*

Lab Sample ID: LCSD 720-132680/7
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	25.0	23.0		ug/L		92	64 - 128	0	20
1,1-Dichloroethane	25.0	28.0		ug/L		112	70 - 130	1	20
Dichlorodifluoromethane	25.0	19.2		ug/L		77	34 - 132	1	20
Vinyl chloride	25.0	23.5		ug/L		94	54 - 135	0	20
Chloroethane	25.0	24.6		ug/L		98	62 - 138	0	20
Trichlorofluoromethane	25.0	23.9		ug/L		95	66 - 132	0	20
Methylene Chloride	25.0	25.0		ug/L		100	70 - 147	1	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130	0	20
cis-1,2-Dichloroethene	25.0	29.9		ug/L		120	70 - 130	2	20
Chloroform	25.0	27.7		ug/L		111	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 146	0	20
1,2-Dichloroethane	25.0	28.7		ug/L		115	61 - 132	0	20
Trichloroethene	25.0	23.5		ug/L		94	70 - 130	0	20
1,2-Dichloropropane	25.0	29.3		ug/L		117	70 - 130	2	20
Dichlorobromomethane	25.0	28.6		ug/L		114	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	31.1		ug/L		124	70 - 140	2	20
cis-1,3-Dichloropropene	25.0	31.4		ug/L		126	70 - 130	2	20
1,1,2-Trichloroethane	25.0	28.6		ug/L		114	70 - 130	2	20
Tetrachloroethene	25.0	23.6		ug/L		95	70 - 130	1	20
Chlorodibromomethane	25.0	27.5		ug/L		110	70 - 145	2	20
Chlorobenzene	25.0	25.6		ug/L		103	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-132680/7
Matrix: Water
Analysis Batch: 132680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			25.0	25.8		ug/L		103	68 - 136	1	20
1,1,2,2-Tetrachloroethane			25.0	28.5		ug/L		114	70 - 130	1	20
1,3-Dichlorobenzene			25.0	26.1		ug/L		104	70 - 130	1	20
1,4-Dichlorobenzene			25.0	26.0		ug/L		104	70 - 130	1	20
1,2-Dichlorobenzene			25.0	24.6		ug/L		99	70 - 130	0	20
Chloromethane			25.0	24.1		ug/L		96	52 - 175	2	20
Bromomethane			25.0	22.6		ug/L		90	43 - 151	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	25.1		ug/L		100	42 - 162	0	20
EDB			25.0	27.0		ug/L		108	70 - 130	1	20
1,2,4-Trichlorobenzene			25.0	22.7		ug/L		91	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 138*

QC Association Summary

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

GC/MS VOA

Analysis Batch: 132629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48402-1	MW-01	Total/NA	Water	8260B	
720-48402-2	MW-02	Total/NA	Water	8260B	
720-48402-3	MW-03	Total/NA	Water	8260B	
720-48402-4	MW-04	Total/NA	Water	8260B	
720-48402-5	DUP	Total/NA	Water	8260B	
LCS 720-132629/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-132629/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-132629/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 132680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-48402-6	TB-1	Total/NA	Water	8260B	
LCS 720-132680/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-132680/7	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-132680/5	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

Client Sample ID: MW-01

Lab Sample ID: 720-48402-1

Date Collected: 03/18/13 11:10

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132629	03/20/13 01:14	AC	TAL SF

Client Sample ID: MW-02

Lab Sample ID: 720-48402-2

Date Collected: 03/18/13 10:40

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132629	03/20/13 00:42	AC	TAL SF

Client Sample ID: MW-03

Lab Sample ID: 720-48402-3

Date Collected: 03/18/13 10:10

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132629	03/20/13 00:12	AC	TAL SF

Client Sample ID: MW-04

Lab Sample ID: 720-48402-4

Date Collected: 03/18/13 09:20

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132629	03/19/13 23:41	AC	TAL SF

Client Sample ID: DUP

Lab Sample ID: 720-48402-5

Date Collected: 03/18/13 00:00

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132629	03/20/13 01:44	AC	TAL SF

Client Sample ID: TB-1

Lab Sample ID: 720-48402-6

Date Collected: 03/18/13 06:30

Matrix: Water

Date Received: 03/18/13 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	132680	03/20/13 17:20	LL	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SF

Protocol References:

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

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: PES Environmental, Inc.
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-48402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-48402-1	MW-01	Water	03/18/13 11:10	03/18/13 17:55
720-48402-2	MW-02	Water	03/18/13 10:40	03/18/13 17:55
720-48402-3	MW-03	Water	03/18/13 10:10	03/18/13 17:55
720-48402-4	MW-04	Water	03/18/13 09:20	03/18/13 17:55
720-48402-5	DUP	Water	03/18/13 00:00	03/18/13 17:55
720-48402-6	TB-1	Water	03/18/13 06:30	03/18/13 17:55

pg 1/1

BLAINE
TECH SERVICES, INC.

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

CHAIN OF CUSTODY BTS # 130318-MW1

CLIENT: PES

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

LAB: TA - San Francisco

DHS #

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

144652

SPECIAL INSTRUCTIONS

Invoice and Report to : PES

Attn: Gary Thomas

Report in Geotracker Format

720-48402

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	CONTAINERS HCl VOAs	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: Halogenated VOCs (8010 List) by EPA 8260B	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-01	3/18/13	1110	W	4			X				
MW-02		1040		4			X				
MW-03		1010		4			X				
MW-04		0920		4			X				
DUP		—		4			X				
TB-1		0830		2			X				

720-48402 Chain of Custody

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	3/18/13	1110	William Hunt

RESULTS NEEDED NO LATER THAN: STANDARD TAT

		DATE	TIME		DATE	TIME
RELEASED BY		3/18/13	1647	RECEIVED BY	3/18/13	1647
RELEASED BY		03/18/13	1755	RECEIVED BY	3/18/13	1755
RELEASED BY		DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

1.6°C

3/22/2013

Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-48402-1

Login Number: 48402

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DISTRIBUTION

GROUNDWATER MONITORING REPORT
FIRST QUARTER 2013 EVENT
SPARKLE CLEANERS
EASTMONT TOWN CENTER
7000 BANCROFT AVENUE
OAKLAND, CALIFORNIA

APRIL 5, 2013

COPY NO. ____

		Copy No.
1 Copy	Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502 Attention: Mr. Jerry Wickham	PDF only
1 Copy	Eastmont Oakland Associates, LLC c/o ScanlanKemperBard Companies 810 NW Marshall Street, Suite 300 Portland, Oregon 97209 Attention: Mr. James V. Paul	1
1 Copy	Unico Properties, LLC 7200 Bancroft Avenue, Suite 1 Oakland, California 94605 Attention: Ms. Beena Standig	2
2 Copies	PES Job File	3 – 4
1 Copy	Unbound Original	5