# PERJURY STATEMENT

## Subject: 1395 MacArthur Boulevard, San Leandro, California Site Assessment & Sub-Slab Well Installation Work Plan

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Mhi 11-10-14

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05 November 2014 AGE Project No. 12-2461

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# **1.0. INTRODUCTION**

Advanced GeoEnvironmental, Inc. (AGE) has prepared this *Site Assessment & Sub-Slab Well Installation Work Plan* for the site located at 1395 MacArthur Boulevard, San Leandro, California (site). The work plan details the advancement of eighteen (18) soil borings for collection of soil and soil-vapor samples and the installation of four (4) sub-slab vapor wells for collection of seasonal sub-slab vapor samples. This work plan was prepared in accordance with the directives from Alameda County Environmental Health Department (ACEHD) in a letter dated 16 September 2014 (Appendix A).

The location of the site and the surrounding area are illustrated in Figure 1; a detailed map of the site is included as Figure 2. A map showing a regional view of the site, which includes site structures and proposed/advanced boring locations, is included as Figure 3.

# 2.0. SCOPE OF WORK

Based on analytical data collected during investigations performed in 1998, 2005 and 2008, 2013 and 2014 (Figures 4 through 7) additional investigation has been required to investigate the lateral limits of chlorinated hydrocarbon impact to soil and soil-vapor at, and surrounding, the subject site. The proposed scope will include the following tasks:

- Permitting and pre-field work activities;
- Advancement of eighteen (18) soil borings for collection of soil and soil-vapor;
- Installation of four sub-slab vapor wells;
- Seasonal (winter and summer) sampling of installed sub-slab vapor wells;
- Report preparation.

Each of these tasks is described in greater detail below.

# 2.1. PERMITTING AND PRE-FIELD WORK ACTIVITIES

Applicable site assessment boring permits will be obtained from the Alameda County Public Works Agency - Water Resources Division (ACPWAWRD). Encroachment permits for borings in the City of San Leandro right-of-way will be obtained from the City of San Leandro. Access agreements will be obtained from the offsite property owner. Additionally, a site-specific Health and Safety Plan will be prepared. Prior to 05 November 2014 AGE Project No. 12-2461 Page 2 of 6

mobilization, each soil probe location will be clearly marked and a utility clearance obtained through Underground Service Alert. The ACPWAWRD will be contacted a minimum of five days prior to conducting investigation activities to arrange for inspection.

# 2.2. SOIL PROBE BORINGS AND SAMPLING

A total of eighteen (18) soil borings will be advanced along the length of the current sewer system and surrounding the Estudillo Shopping Center. Soil borings will be advanced to depths of 10 feet bsg for collection of shallow soil vapor and soil samples (Figure 3). Borings will be advanced using either a direct push drilling rig (outside of building) or limited access direct push drilling/hand tooling (inside of building) to collect soil and soil -vapor samples.

Generally, soil samples will be collected from selected borings at five foot intervals at depths of five and ten feet bsg. The total boring depths may vary based on site conditions and field evidence of chlorinated hydrocarbon impact. Soil and soil-vapor sample collection procedures are provided below.

# 2.3. LABORATORY ANALYSIS

Soil and soil-vapor samples will be analyzed by a California Department of Public Health (CDPH)-certified laboratory for full scan volatile organic compounds (VOC's) by EPA method 8260.

## 2.4. SUB-SLAB VAPOR WELL INSTALLATIONS

ACEHD requires soil-vapor samples to be collected from beneath the concrete slab (sub-slab), within the former dry cleaners facility and adjacent units. AGE proposes to install a total of four (4) sub-slab soil-vapor collection points; two wells will be installed at the front and rear of the dry-cleaning unit and one point will be installed in the rear portions of both the Sothea Salon & Beauty Supply and Estudillo Plaza Optometry units (Figure 3).

The sub-slab sampling points will be installed using a concrete coring device to cut through the slab as described in Section 3.4.1. The sub-slab soil-vapor collection points are designed for repeatable sampling events. The points will be constructed as depicted in Figure 8 and further described in Section 3.4.1. The sub-slab soil-vapor samples will be collected as described in Section 3.4.2. and depicted on Figure 9.

The first sampling event will be scheduled within two weeks of installation.

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# 2.5. REPORT PREPARATION

A Site Assessment Report will be submitted to ACEHD on completion of the investigation. The report will include field observations, sampling methodology, sample location maps, laboratory reports for soil and soil-vapor sample analyses (including testing methods, laboratory quality assurance/quality control (QA/QC) reports, and sample chain-of-custody documentation), conclusions, and applicable recommendations. The report will be in a format acceptable by the local agency and will be reviewed and signed by a California Professional Geologist.

# 3.0 FIELD PROCEDURES

All field procedures will be conducted by an AGE representative working under the supervision of a California Professional Geologist. Procedures for advancing soil probe borings, collection and analysis of soil and soil-vapor samples, equipment decontamination, and sample handling are presented below.

# 3.1. PROBE SOIL BORING ADVANCEMENT

Proposed soil borings will be advanced using truck-mounted or limited-access hydraulic direct-push drill rigs equipped with 1.25-inch probing rods. The drill rigs advance soil probe borings using a hydraulic hammer to drive soil and groundwater sampling tools to specified depths.

# 3.2. SOIL SAMPLING

Soil samples will be collected from selected borings at discrete five-foot intervals beginning at five feet bsg using a 1.25 inch Geoprobe soil sampling assembly loaded with a two-foot acetate liner. Upon sample retrieval, a selected portion of the liner will be cut and covered with Teflon sheets, capped, and sealed with tape.

Sealed and labeled samples will be placed in a chilled container under ice and transported under chain-of-custody procedure to a CDPH-certified laboratory. Samples will be analyzed for the constituents listed above. Each sample will be labeled with boring designation, depth, time, date and sampler's initials. Soils encountered in the borings will be visually classified by AGE personnel in accordance with the Unified Soil Classification System (USCS). Additionally, soil samples will be field-screened for the presence of volatile organic compounds using a photo-ionization detector (PID) calibrated to isobutylene.

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# 3.3. SOIL-VAPOR SAMPLING

For borings advanced for soil-vapor sample collection, an onsite mobile lab will be used for sample collection and analysis. The mobile lab will determine the purge volume and use a tracer gas of either IPA or 1,1-difluouroethane (1,1-DFE) during field sampling activities. All samples will be run onsite following sample collection, using EPA Method 8260B.

Following sample collection the total VOC concentration in the sample probes will be measured using a hand-held photo-ionization detector (PID; Rae Mini-rae).

# 3.4. SUB-SLAB SOIL-VAPOR SAMPLING POINT PROCEDURES

A total of four sub-slab vapor sampling points are proposed for installation. Two soilvapor sampling points will be installed beneath the slab within the former dry cleaners facility and one sub-slab vapor well will be installed in each of the Solhea Salon and Beauty Supply and Estudillo Plaza Optometry suites.

## 3.4.1. Sub-Slab Soil-Vapor Point Installation

Each sub-slab soil-vapor point will be installed by coring a two-inch diameter section from the concrete slab through to the bottom of the slab. The core will be removed and a one-inch diameter hand auger advanced to a minimum of eight inches below the bottom of the slab. The sub-slab soil-vapor sampling point will be constructed using a porous ceramic filter attached to a 0.25-inch outside diameter (OD) stainless-steel tube using 0.25-inch Teflon® tubing and a 0.25-inch brass hose barb. The stainless-steel tubing will extend to near the surface of the concrete slab and be terminated with a compression nut and sleeve. The borehole annular space will be filled with #2/12 sand from the bottom to 4 inches above the bottom of the borehole followed by a Teflon® separator, 2-inches of dry granular bentonite, 2-inches of hydrated bentonite, and a concrete seal to near the surface of the concrete slab. A removable surface-flush seal will be fashioned and installed over the compression fitting. The sub-slab soil-vapor sampling point design is depicted on Figure 8.

# 3.4.2. Sub-Slab Soil-Vapor Point Sampling and Analysis

One-liter Summa sampling canisters and five-liter Summa purge canisters will be used to collect each sub-slab soil-vapor sample. The sampling and purge canisters will be connected together with a dedicated and serialized sampling inlet manifold. The sampling inlet manifold will consist of a vapor-tight valve, a particulate filter, a calibrated flow restrictor calibrated to 200 milliliters per minute (ml/min), a stainless steel tee-fitting,

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two vacuum gauges at either end of the flow controller, and connections for both purge and sampling canisters (manifold assembly). The manifold assembly will be attached to the tubing from the soil vapor rods. The purge canister will be attached to the end of the sampling manifold while the sample canisters will be attached to the tee-fitting between the PRT and purge container (Figure 9). Teflon® tape will be placed on the threads of each open fitting of the manifold assembly prior to attaching the PRT and sampling and purge canisters.

Each canister's initial vacuum will be measured and recorded in inches of mercury (in Hg). Leak tests will be performed on each assembly by attaching and securing the sample and purge canisters to the manifold and opening the valves on the purge canister and the manifold. The leak test will be performed for approximately 10 minutes on each assembly.

Each sub-slab soil-vapor location will be isolated from ambient air by enclosing the borehole, tubing and manifold/canister assembly in clear plastic shroud, which will be sealed at the surface. Isopropyl alcohol (IPA) as a liquid will be placed in a stainless steel bowl within the plastic structure and allowed to volatilize into the air enclosed within the shroud surrounding the borehole, tubing and manifold/canister assembly.

The purge volume will be determined by calculating the internal volume of the tubing, vapor point holder and PRT adapter, and the volume of sampling void (created by retracting the boring rod).

Upon achieving a successful leak test the purge canister valve will be opened for a calculated period of time to allow the three calculated volumes of air to be purged. The purge vacuum gauge will be monitored to ensure a proper decrease of vacuum purged.

Upon achieving the targeted purge volume, the purge canister valve will be closed and the sample canister valve will be opened. The initial pressure and time will be recorded. Upon reaching at least -5 in Hg or less, the sample canister valve will be closed and final pressure and time recorded. The sampling port on the sampling canister will be capped with a brass end-cap and sealed with Teflon® tape.

The soil-vapor samples will be transported under chain-of-custody procedures to a California Department of Public Health (CDPH)-certified laboratory and analyzed for Total VOCs and IPA (tracer gas) in accordance with EPA Method TO-15.

# 3.5. EQUIPMENT DECONTAMINATION

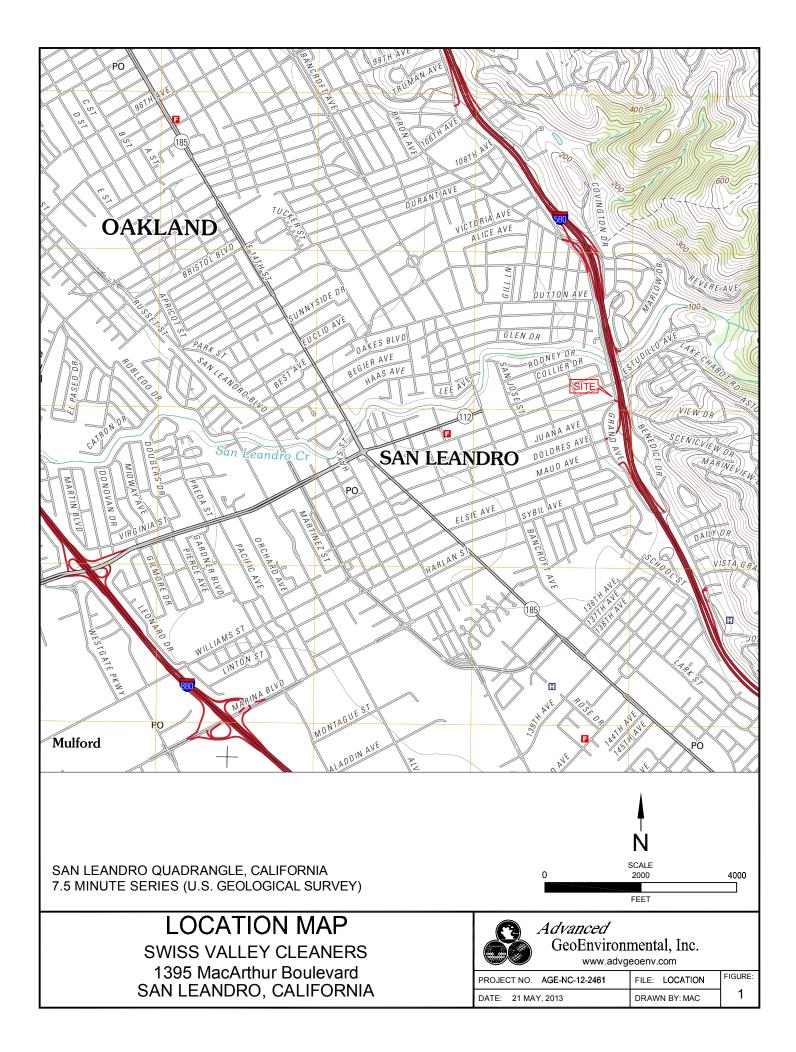
Prior to use, all sampling tools used for sample collection will be thoroughly rinsed with clean water after being washed with a solution of Alconox. All probe tooling and rods will be cleaned prior to advancement at each probe boring location.

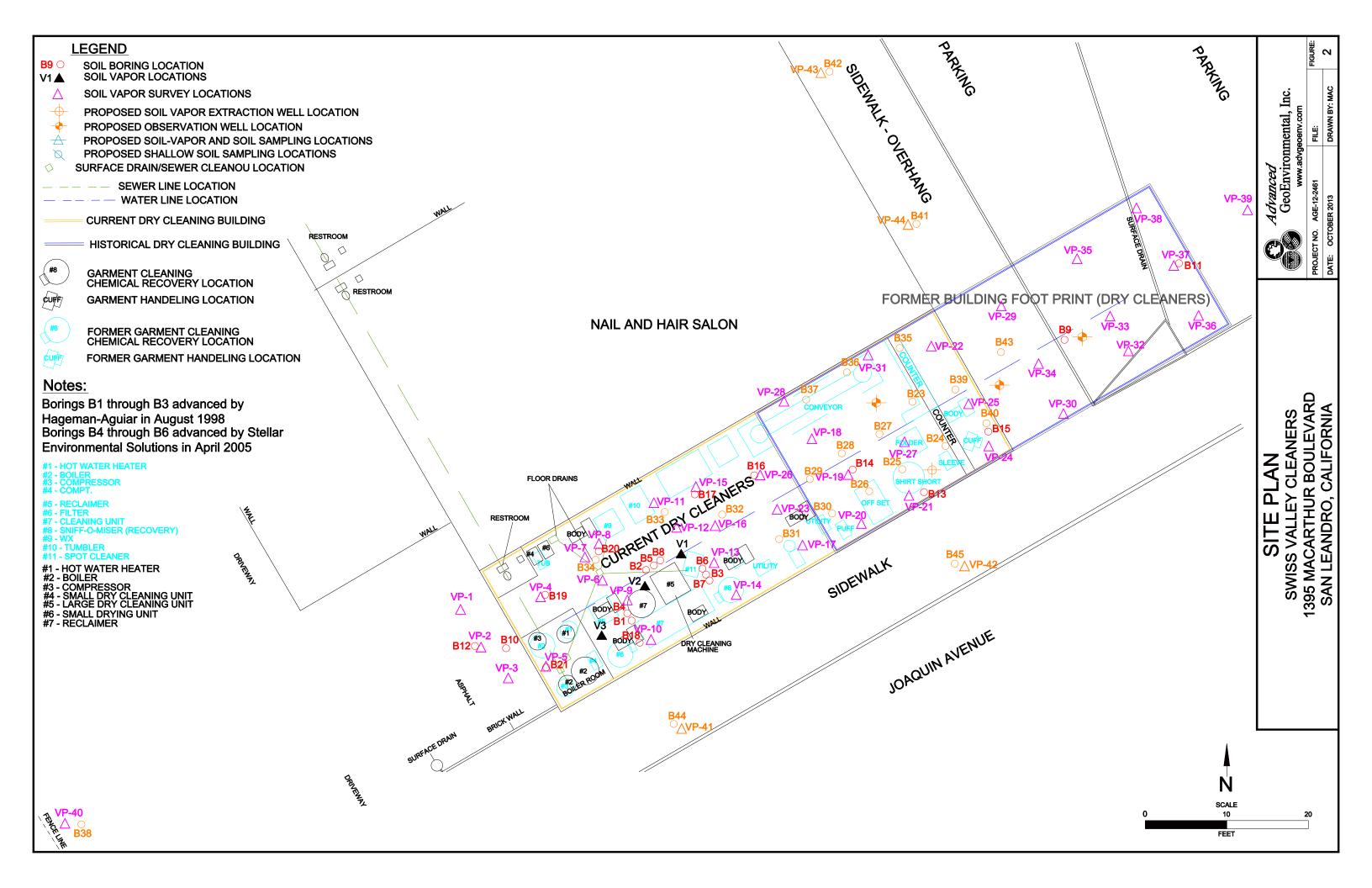
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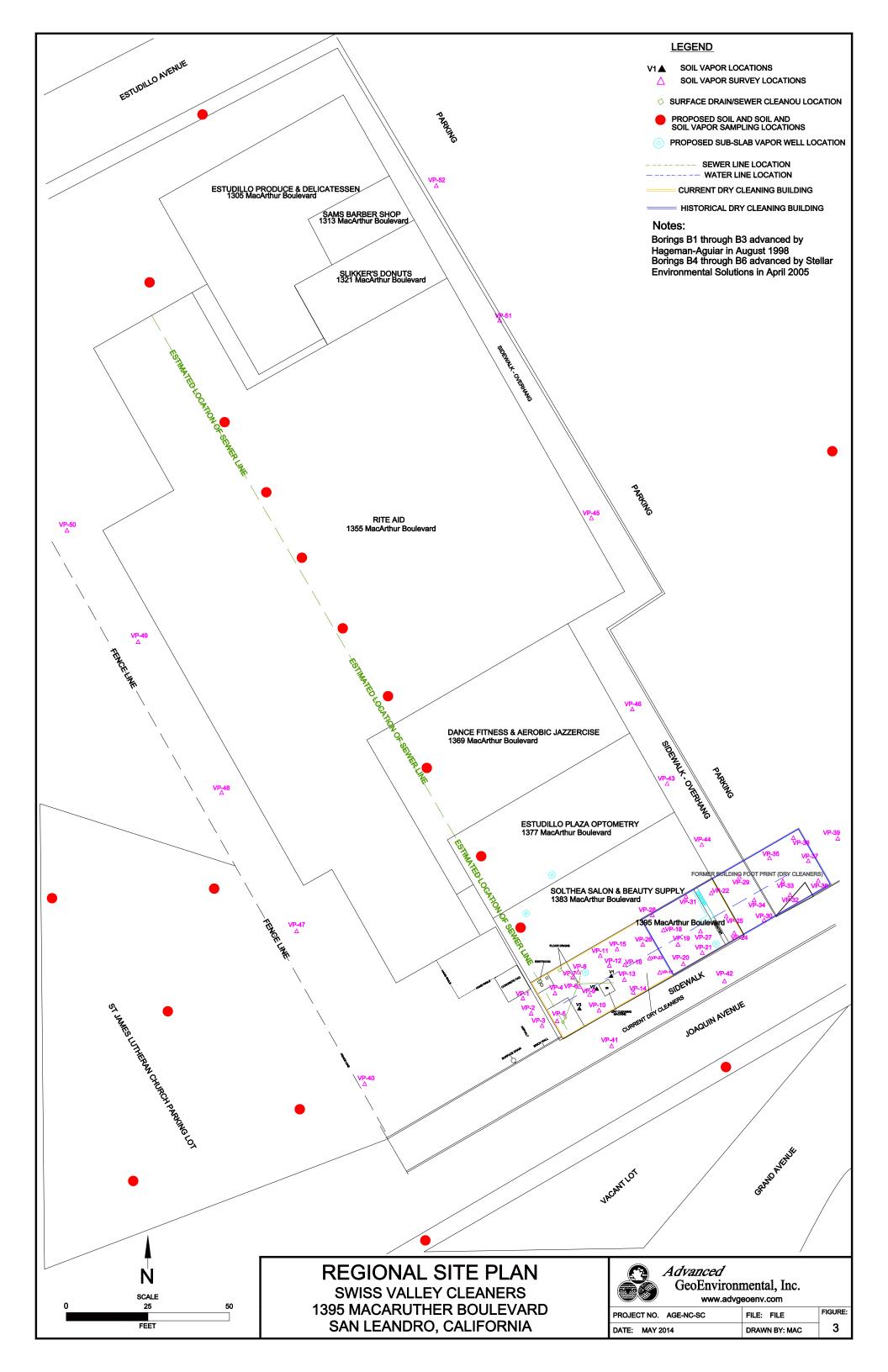
## 3.6. BORING ABANDONMENT

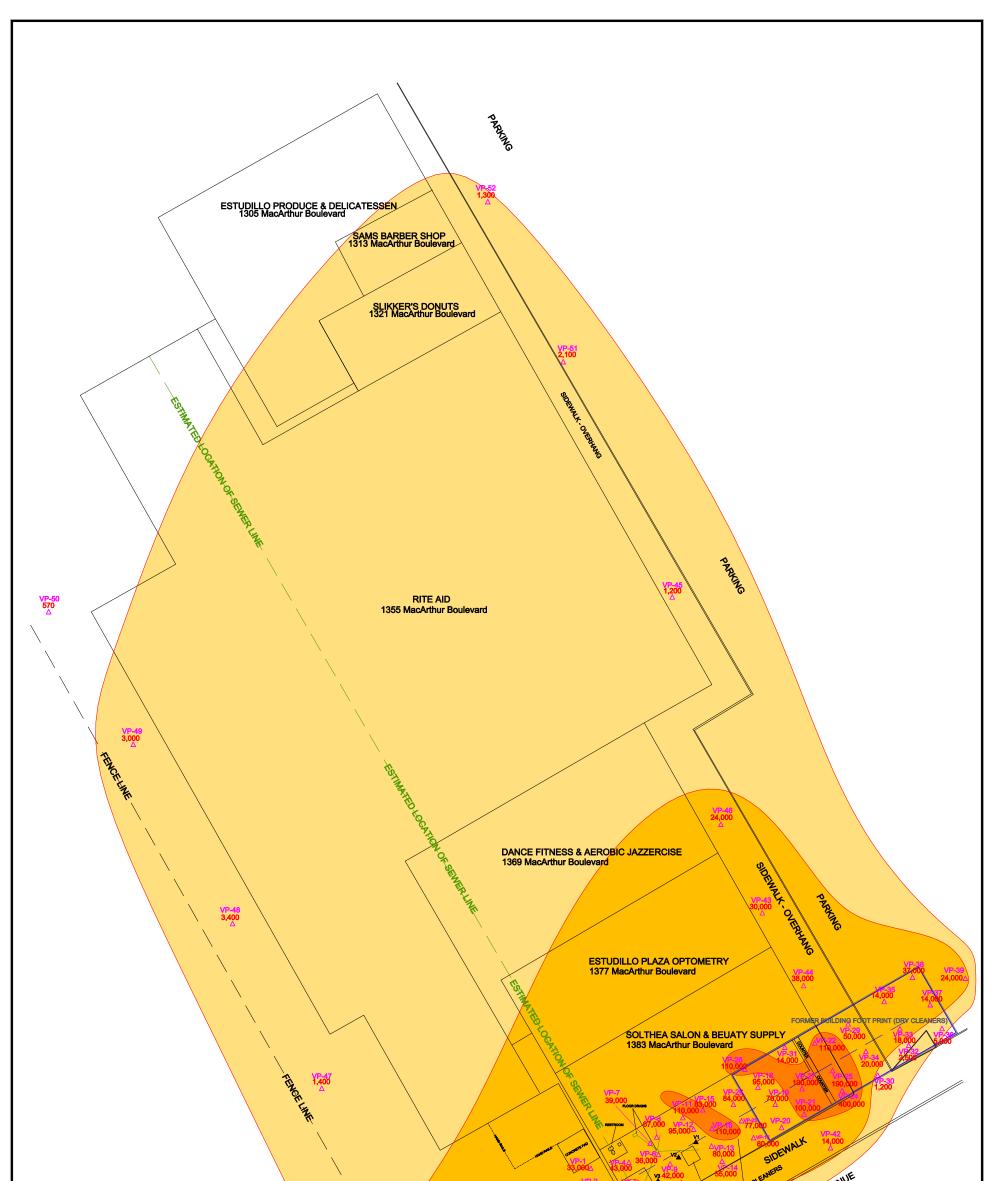
All soil borings will be permanently sealed to prevent vertical migration of potential contaminants. Soil borings shall be abandoned by backfilling with cement grout from the total depth to surface grade. The top three to six inches of the boring abandonments will be completed flush to surface grade with native soils or concrete. The ACPWAWRD will be notified for grout inspection at least five days prior to conducting grouting procedures.

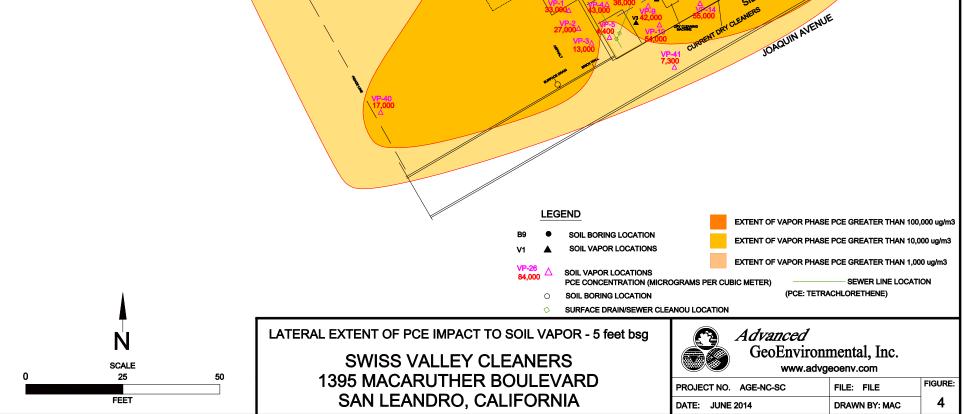
# **FIGURES**

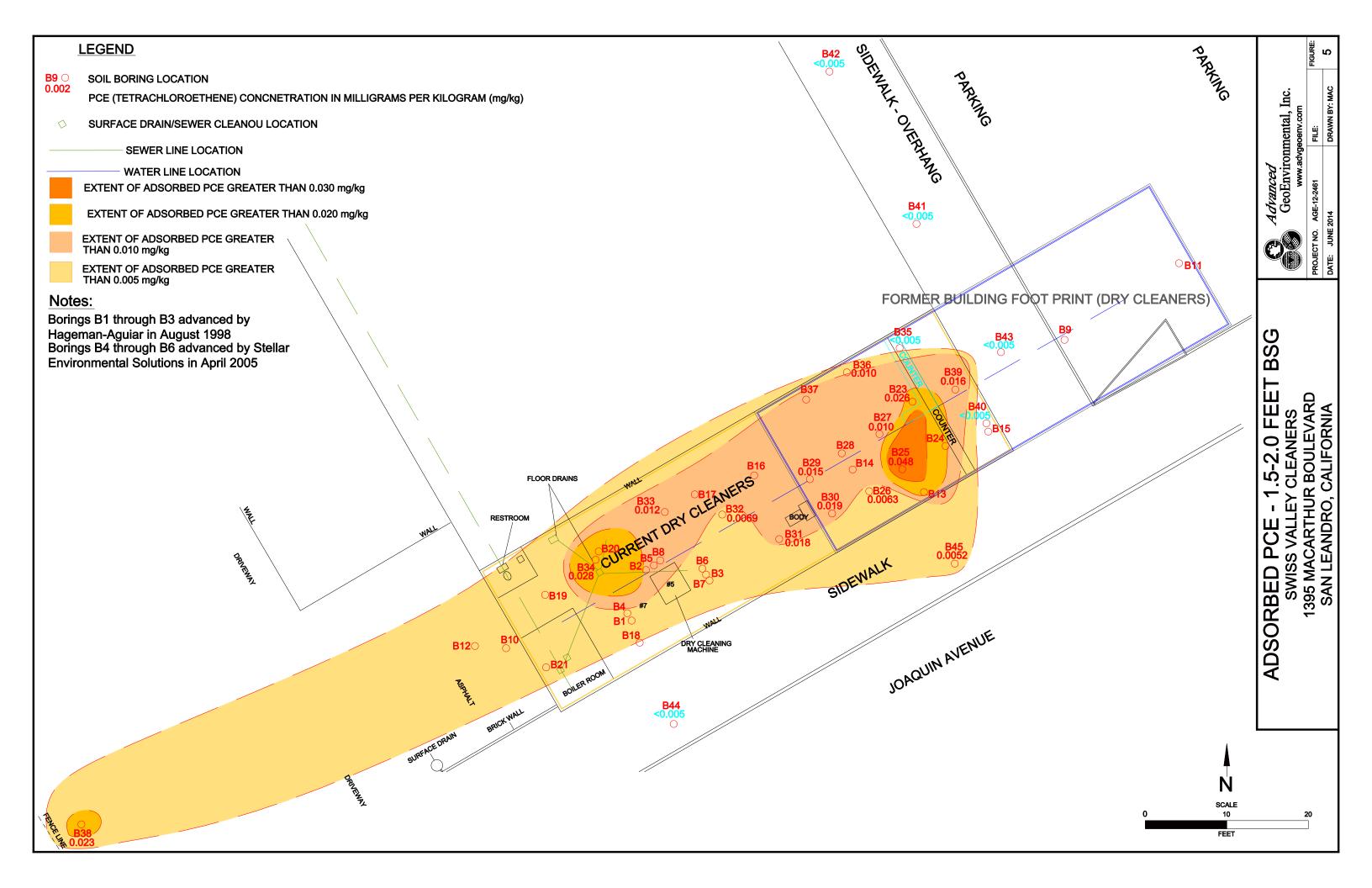


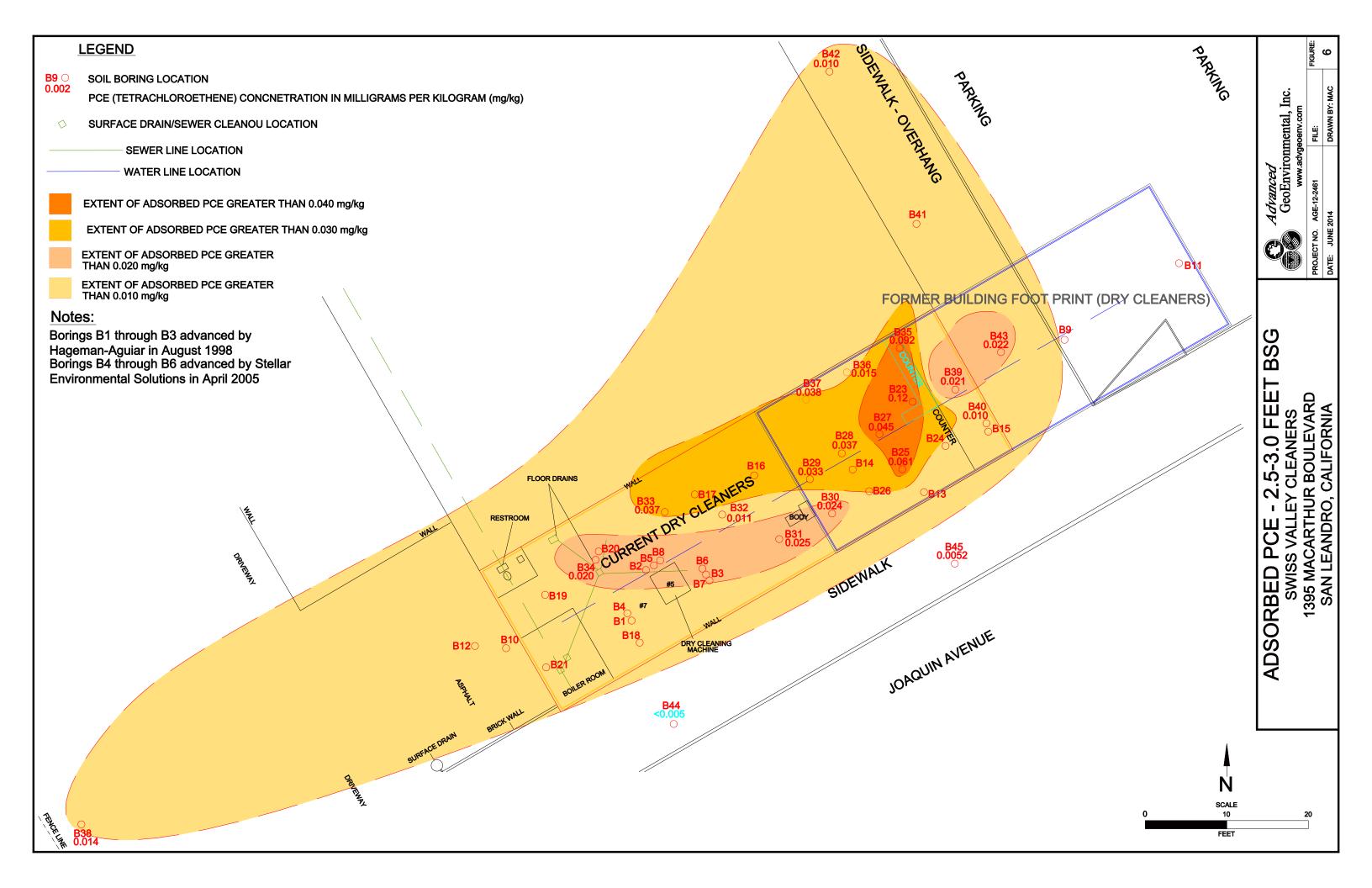


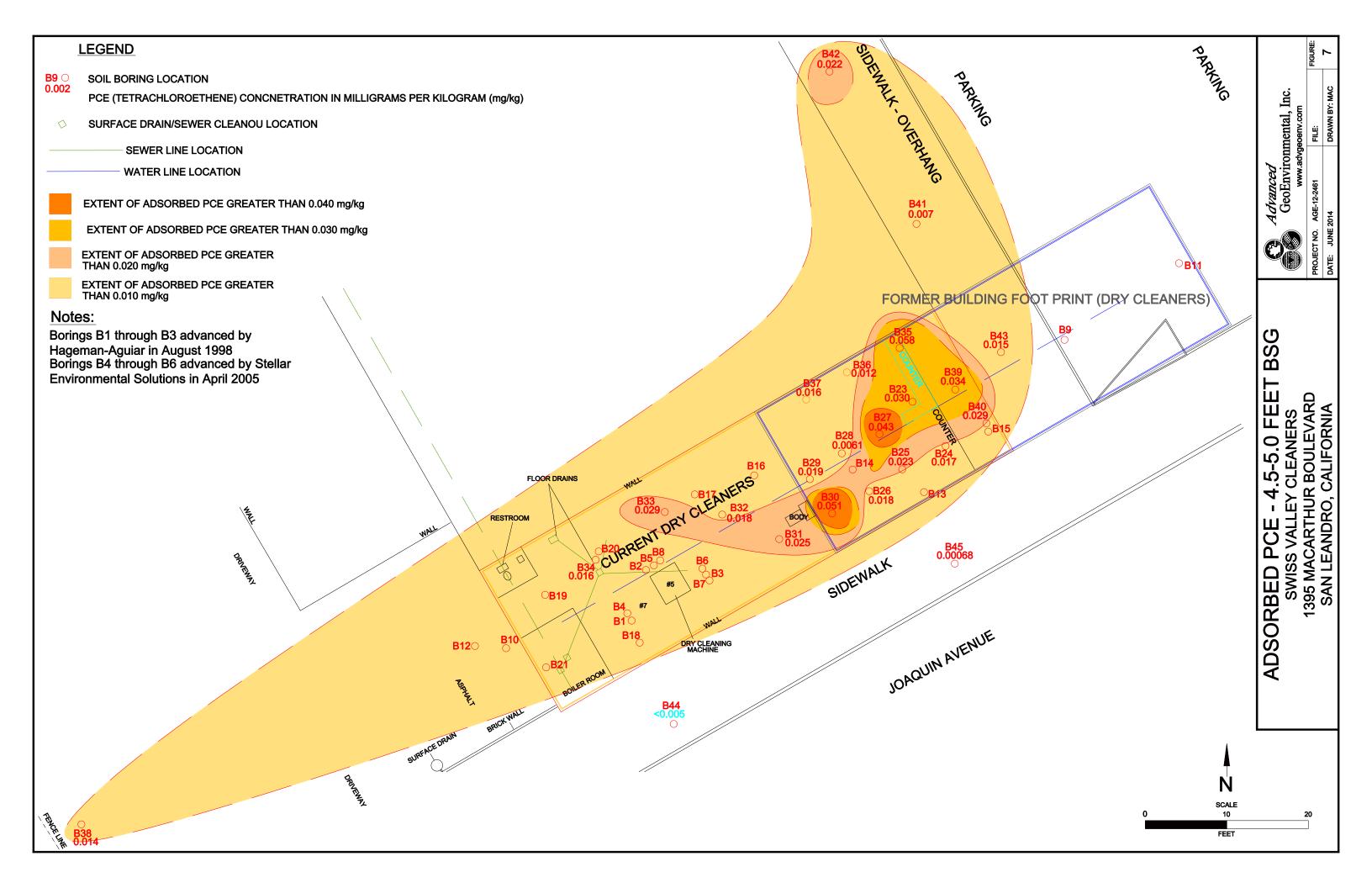


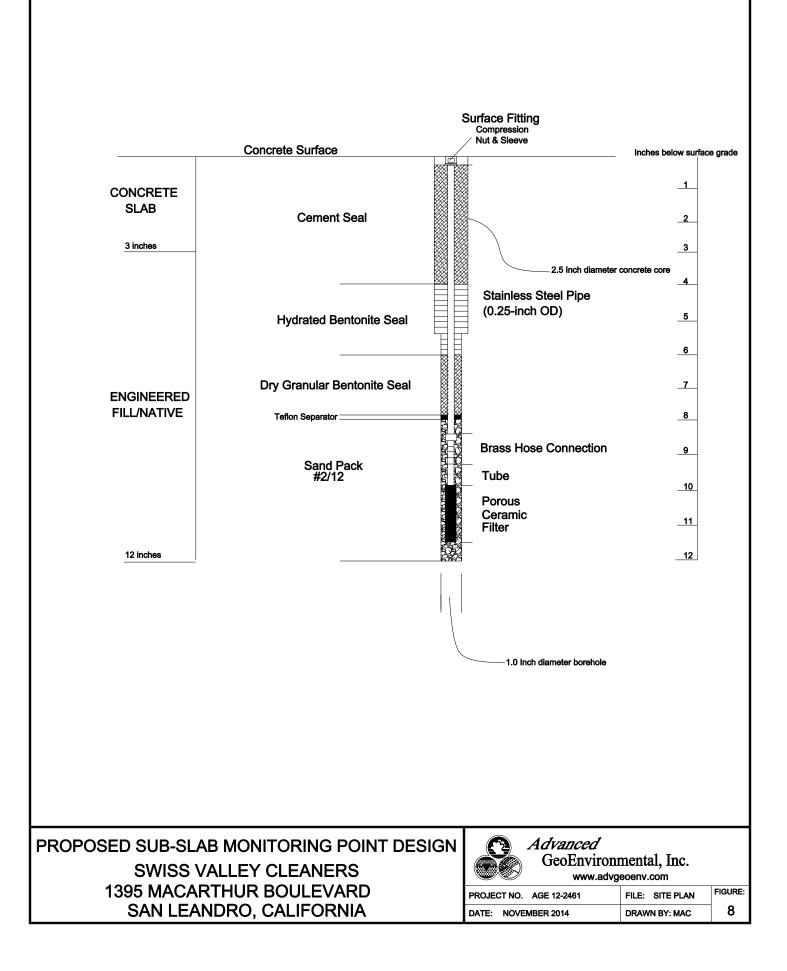


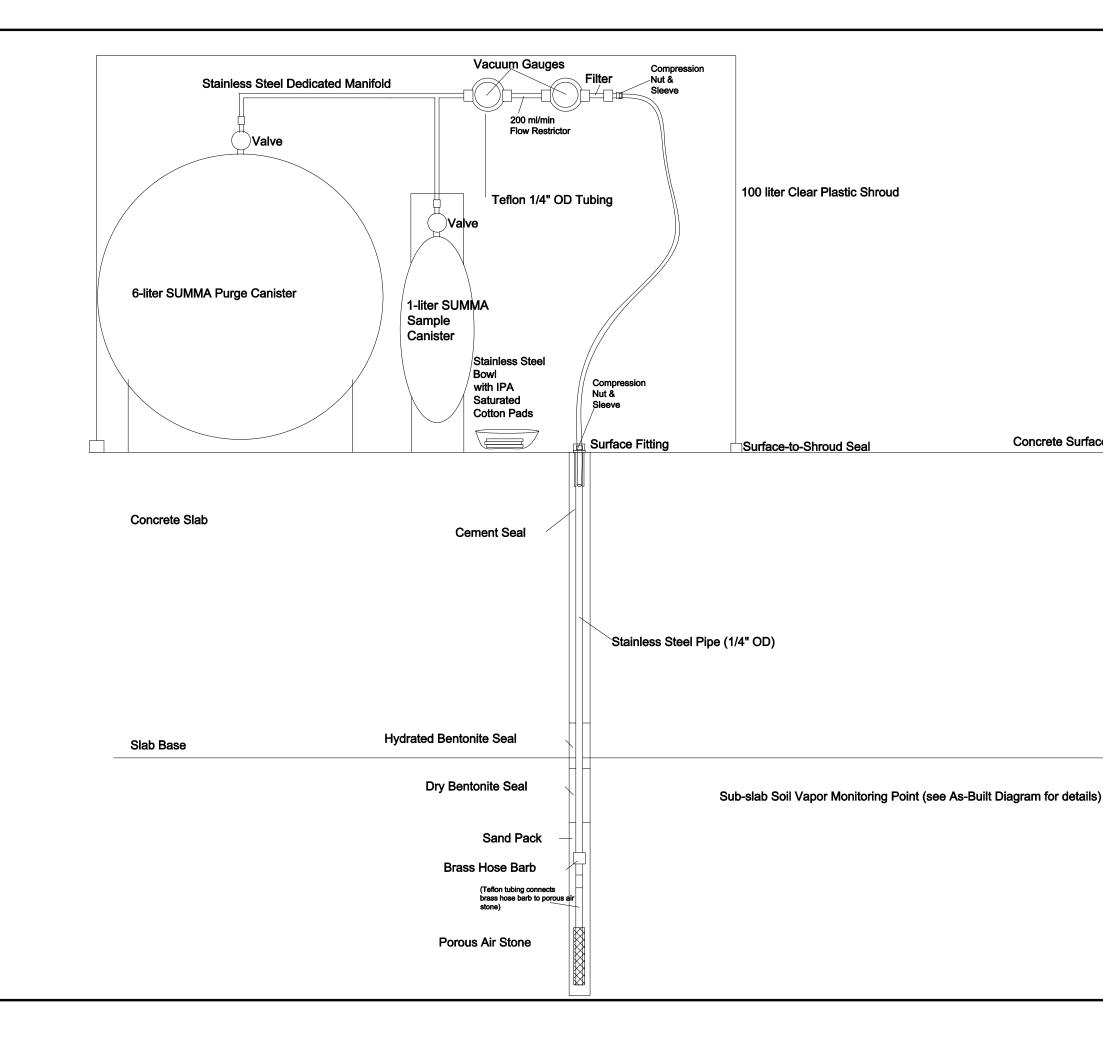


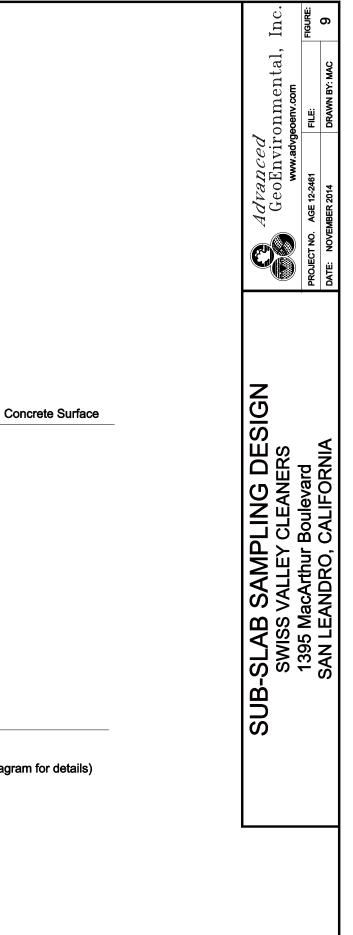












# ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Swiss Valley Cleaners 1395 MacArthur Boulevard, San Leandro, California (micrograms per cubic meter)

					EPA I	Method 826	0B	1	
Sample ID	Date	Depth (feet bsg)	PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	Chloroform
V-1	05-08-2013	5	29,000	<2	<2	<2	<2	<2	<1
V-2	05-08-2013	5	23,000	<2	<2	<2	<2	<2	<1
V-3	05-08-2013	5	15,000	<2	<2	<2	<2	<2	<1
VP-1 (1 puge volume)	10-15-2013	5	33,000	<100	<100	<100	<100	<100	<100
VP-1 (3 purge volumes)	10-15-2013	5	33,000	<100	<100	<100	<100	<100	<100
VP-1 (10 purge volumes)	10-15-2013	5	33,000	<100	<100	<100	<100	<100	<100
VP-2	10-15-2013	5	27,000	<100	<100	<100	<100	<100	<100
VP-3	10-15-2013	3	13,000	<100	<100	<100	<100	<100	<100
VP-4	10-15-2013	5	43,000	<100	<100	<100	<100	<100	<100
VP-5	10-15-2013	5	4,400	<100	<100	<100	<100	<100	240
VP-6	10-15-2013	5	36,000	<100	<100	<100	<100	<100	<100
VP-7	10-15-2013	5	39,000	<100	<100	<100	<100	<100	<100
VP-7 (dup)	10-15-2013	5	37,000	<100	<100	<100	<100	<100	<100
VP-8	10-15-2013	5	67,000*	<100	<100	<100	<100	<100	<100
VP-9	10-16-2013	5	42,000	<100	<100	<100	<100	<100	<100
VP-10	10-16-2013	5	54,000*	<100	<100	<100	<100	<100	<100
VP-11	10-16-2013	5	110,000	<100	<100	<100	<100	<100	<100
VP-12	10-16-2013	5	95,000	<100	<100	<100	<100	<100	<100

# ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Swiss Valley Cleaners 1395 MacArthur Boulevard, San Leandro, California (micrograms per cubic meter)

					EPA I	Method 826	0B	0	
Sample ID	Date	Depth (feet bsg)	PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	Chloroform
VP-13	10-16-2013	5	80,000	<100	<100	<100	<100	<100	<100
VP-14	10-16-2013	5	55,000	<100	<100	<100	<100	<100	<100
VP-14 (dup)	10-16-2013	5	57,000	<100	<100	<100	<100	<100	<100
VP-15	10-16-2013	5	83,000	<100	<100	<100	<100	<100	<100
VP-16	10-16-2013	5	110,000	<100	<100	<100	<100	<100	<100
VP-17	10-16-2013	5	80,000	<100	<100	<100	<100	<100	<100
VP-18	10-16-2013	5	95,000	<100	<100	<100	<100	<100	<100
VP-19	10-16-2013	5	76,000	<100	<100	<100	<100	<100	<100
VP-20				not c	ompleted				
VP-21	10-17-2013	5	100,000	<100	<100	<100	<100	<100	<100
VP-22	10-17-2013	5	110,000	<100	<100	<100	<100	<100	<100
VP-23	10-17-2013	5	77,000	<100	<100	<100	<100	<100	<100
VP-24	10-17-2013	3	400,000	<100	<100	<100	<100	<100	<100
VP-25	10-17-2013	5	190,000	<100	<100	<100	<100	<100	<100
VP-26	10-17-2013	5	84,000	<100	<100	<100	<100	<100	<100
VP-27	10-17-2013	5	100,000	<100	<100	<100	<100	<100	<100
VP-28	10-17-2013	5	110,000	<100	<100	<100	<100	<100	<100
VP-29	10-17-2013	5	50,000	<100	<100	<100	<100	<100	<100

# ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Swiss Valley Cleaners 1395 MacArthur Boulevard, San Leandro, California (micrograms per cubic meter)

					EPA I	Method 826	0B	7	
Sample ID	Date	Depth (feet bsg)	PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	NC	Chloroform
VP-30	10-17-2013	5	1,200	<100	<100	<100	<100	<100	<100
VP-31	10-18-2013	5	100,000	<100	<100	<100	<100	<100	<100
VP-32	10-18-2013	5	2,500	<100	<100	<100	<100	<100	<100
VP-32 (dup)	10-18-2013	5	2,100	<100	<100	<100	<100	<100	<100
VP-33	10-18-2013	5	18,000	<100	<100	<100	<100	<100	<100
VP-34	10-18-2013	5	20,000	<100	<100	<100	<100	<100	<100
VP-35	10-18-2013	5	14,000	<100	<100	<100	<100	<100	<100
VP-36	10-18-2013	5	5,900	<100	<100	<100	<100	<100	<100
VP-37	10-18-2013	5	14,000	<100	<100	<100	<100	<100	<100
VP-38	10-18-2013	5	37,000	<100	<100	<100	<100	<100	<100
VP-39	10-18-2013	5	24,000	<100	<100	<100	<100	<100	<100
VP-40	10-18-2013	5	17,000	220	<100	<100	<100	<100	<100
VP-41	05-05-2014	5	7,300	<100	<100	<100	<100	<100	<100
VP-42	05-05-2014	5	14,000	<100	<100	<100	<100	<100	<100
VP-43	05-05-2014	5	32,000	<100	<100	<100	<100	<100	<100
VP-43 (dup)	05-05-2014	5	30,000	<100	<100	<100	<100	<100	<100
VP-44	05-05-2014	5	38,000	<100	<100	<100	<100	<100	<100
VP-45	05-06-2014	5	1,200	<100	<100	<100	<100	<100	<100

# ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES Swiss Valley Cleaners 1395 MacArthur Boulevard, San Leandro, California (micrograms per cubic meter)

					EPA I	Method 826	0B	EPA Method 8260B						
Sample ID	Date	Depth (feet bsg)	PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	Chloroform					
VP-46	05-06-2014	5	24,000	<100	<100	<100	<100	<100	<100					
VP-46 (dup)	05-06-2014	5	21,000	<100	<100	<100	<100	<100	<100					
VP-47	05-07-2014	5	1,400	<100	<100	<100	<100	<100	<100					
VP-48	05-07-2014	5	3,400	<100	<100	<100	<100	<100	<100					
VP-49	05-07-2014	5	3,000	<100	<100	<100	<100	<100	<100					
VP-50	05-07-2014	5	570	<100	<100	<100	<100	<100	<100					
VP-51	05-07-2014	5	2,100	<100	<100	<100	<100	<100	<100					
VP-52	05-07-2014	5	1,300	<100	<100	<100	<100	<100	<100					
VP-52 (dup)	05-07-2014	5	1,500	<100	<100	<100	<100	<100	<100					
CHHSLs (Residential)			180	528	-	31,900	15,900	13.3	-					
SFBRWCB E (Co	2,100	3,000	100,000	260,000	-	16	230							
SFBRWCB E (R	210	300	880,000	31,000	-	160	2,300							

Notes:

SFBRWCB ESL: San Francisco Bay Regional Water Quality Control Board Environmental

Screening Level for shallow soil gas

<: Indicates constituents were not detected at a concentration greater than the reporting limit shown.

CHHSLs: California Human Health Screening Levels

PCE: Tetrachloroethene

TCE: Trichloroethene

1,1-DCE: 1,1-Dichloroethene

Trans 1,2-DCE: Trans 1,2-Dichloroethene

- Cis 1,2-DCE: Cis 1,2-Dichloroethene
- VC: Vinyl Chloride

bsg: below surface grade

\* : notation for detection above the liner range of calibration

					EPA SW 846/8	260B		
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)
B-1@3'	3	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-1@5'	5	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-2@3'	3	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-2@5'	5	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-3@3'	3	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-3@5'	5	08-19-1998	<0.005	<0.005	<0.005	-	-	<0.005
B-4	1.75	04-06-2005	0.0057	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098
B-5	1.83	04-06-2005	0.0074	<0.0047	<0.0047	<0.0047	<0.0047	< 0.0094
B-6	1.67	04-06-2005	0.022	<0.0046	<0.0046	<0.0046	<0.0046	< 0.0093
B-7	2	07-08-2008	<0.005	<0.0047	<0.0047	<0.0047	<0.0047	< 0.0094
B-8	2	07-08-2008	0.060	<0.0047	<0.0047	<0.0047	<0.0047	< 0.0094
B9-5	5	05-07-2013	0.028	<0.005	<0.005	<0.005	<0.005	<0.005
B9-10	10	05-07-2013	0.012	<0.005	<0.005	<0.005	<0.005	<0.005
B9-15	15	05-07-2013	0.022	<0.005	<0.005	<0.005	<0.005	<0.005
B10-5	5	05-07-2013	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B10-10	10	05-07-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B10-15	15	05-07-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B11-5	5	10-22-2013	0.009	<0.005	<0.005	<0.005	<0.005	<0.005
B11-10	10	10-22-2013	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
B11-15	15	10-22-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B12-5	5	10-22-2013	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B12-10	10	10-22-2013	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
B12-15	15	10-22-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B13-5	5	10-22-2013	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
B13-10	10	10-22-2013	0.006	<0.005	<0.005	<0.005	<0.005	<0.005

Advanced GeoEnvironmental, Inc.

					EPA SW 846/82	260B		
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)
B13-15	15	10-22-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B14-5	5	10-22-2013	0.015	<0.005	<0.005	<0.005	<0.005	<0.005
B14-10	10	10-22-2013	0.008	<0.005	<0.005	<0.005	<0.005	<0.005
B14-15	15	10-22-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B15-5	5	10-22-2013	0.030	<0.005	<0.005	<0.005	<0.005	<0.005
B15-10	10	10-22-2013	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
B15-15	15	10-22-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B16-5	5	10-23-2013	0.020	<0.005	<0.005	<0.005	<0.005	<0.005
B16-10	10	10-23-2013	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B16-15	15	10-23-2013	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
B17-5	5	10-23-2013	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
B17-10	10	10-23-2013	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B17-15	15	10-23-2013	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
B18-5	5	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005
B18-10	10	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B19-5	5	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

					EPA SW 846/8	260B		
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)
B19-10	10	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B20-5	5	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B20-10	10	10-23-2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B21-5	5	10-24-2013	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B21-10	10	10-24-2013	0.009	<0.005	<0.005	<0.005	<0.005	<0.005
B23-0.5-1.0	0.5-1.0	04-28-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-1.5-2.0	1.5-2.0	04-28-2014	0.026	<0.005	<0.005	<0.005	<0.005	<0.005
B23-2.5-3.0	2.5-3.0	04-28-2014	0.12	<0.005	<0.005	<0.005	<0.005	<0.005
B23-3.5-4.0	3.5-4.0	04-28-2014	0.040	<0.005	<0.005	<0.005	<0.005	<0.005
B23-4.5-5.0	4.5-5.0	04-28-2014	0.030	<0.005	<0.005	<0.005	<0.005	<0.005
B24-0.5-1.0	0.5-1.0	04-28-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B24-1.5-2.0	1.5-2.0	04-28-2004	0.032	<0.005	<0.005	<0.005	<0.005	<0.005
B24-4.5-5.0	4.5-50	04-28-2014	0.017	<0.005	<0.005	<0.005	<0.005	<0.005
B25-0.5-1.0	0.5-1.0	04-28-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B25-1.5-2.0	1.5-2.0	04-28-2014	0.048	<0.005	<0.005	<0.005	<0.005	<0.005
B25-2.5-3.0	2.5-3.0	04-28-2014	0.061	<0.005	<0.005	<0.005	<0.005	<0.005
B25-4.5-5.0	4.5-5.0	04-28-2014	0.023	<0.005	<0.005	<0.005	<0.005	<0.005
B26-0.5-1.0	0.5-1.0	04-28-2014	0.0056	<0.005	<0.005	<0.005	<0.005	<0.005
B26-1.5-2.0	1.5-2.0	04-29-2014	0.0063	<0.005	<0.005	<0.005	<0.005	<0.005
B26-3.0-3.5	3.0-3.5	04-29-2014	0.043	<0.005	<0.005	<0.005	<0.005	<0.005
B26-4.5-5.0	4.5-5.0	04-29-2014	0.018	<0.005	<0.005	<0.005	<0.005	< 0.005
B27-0.5-1.0	0.5-1.0	04-29-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B27-1.5-2.0	1.5-3.0	04-29-2014	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B27-2.5-3.0	2.5-3.0	04-29-2014	0.045	<0.005	<0.005	<0.005	<0.005	<0.005

					EPA SW 846/8	260B		
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)
B27-4.5-5.0	4.5-5.0	04-29-2014	0.043	<0.005	<0.005	<0.005	<0.005	<0.005
B28-0.5-1.0	1.5-3.0	04-29-2014	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005
B28-2.5-3.0	2.5-3.0	04-29-2014	0.037	<0.005	<0.005	<0.005	<0.005	<0.005
B28-4.5-5.0	4.5-5.0	04-29-2014	0.021	<0.005	<0.005	<0.005	<0.005	<0.005
B29-1.5-2.0	1.5-3.0	04-29-2014	0.015	<0.005	<0.005	<0.005	<0.005	<0.005
B29-2.5-3.0	2.5-3.0	04-29-2014	0.033	<0.005	<0.005	<0.005	<0.005	<0.005
B29-4.5-5.0	4.5-5.0	04-29-2014	0.019	<0.005	<0.005	<0.005	<0.005	<0.005
B30-1.5-2.0	1.5-3.0	04-30-2014	0.019	<0.005	<0.005	<0.005	<0.005	<0.005
B30-2.5-3.0	2.5-3.0	04-30-2014	0.024	<0.005	<0.005	<0.005	<0.005	<0.005
B30-4.5-5.0	4.5-5.0	04-30-2014	0.051	<0.005	<0.005	<0.005	<0.005	<0.005
B31-1.5-2.0	1.5-2.0	04-30-2014	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
B31-2.5-3.0	2.5-3.0	04-30-2014	0.025	<0.005	<0.005	<0.005	<0.005	<0.005
B32-1.5-2.0	1.5-3.0	04-30-2014	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005
B32-2.5-3.0	2.5-3.0	04-30-2014	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
B32-4.5-5.0	4.5-5.0	04-30-2014	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
B33-1.5-2.0	1.5-3.0	04-30-2014	0.012	<0.005	<0.005	<0.005	<0.005	<0.005
B33-2.5-3.0	2.5-3.0	04-30-2014	0.037	<0.005	<0.005	<0.005	<0.005	<0.005
B33-4.5-5.0	4.5-5.0	04-30-2014	0.029	<0.005	<0.005	<0.005	<0.005	<0.005
B34-1.5-2.0	1.5-3.0	05-01-2014	0.028	<0.005	<0.005	<0.005	<0.005	<0.005
B34-2.5-3.0	2.5-3.0	05-01-2014	0.020	<0.005	<0.005	<0.005	<0.005	<0.005
B34-4.5-5.0	4.5-5.0	05-01-2014	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
B35-1.5-2.0	1.5-3.0	05-01-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B35-2.5-3.0	2.5-3.0	05-01-2014	0.092	<0.005	<0.005	<0.005	<0.005	<0.005
B35-4.5-5.0	4.5-5.0	05-01-2014	0.058	<0.005	<0.005	<0.005	<0.005	<0.005

					EPA SW 846/8	260B		
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)
B36-1.5-2.0	1.5-3.0	05-01-2014	0.11	<0.005	<0.005	<0.005	<0.005	<0.005
B36-2.5-3.0	2.5-3.0	05-01-2014	0.015	<0.005	<0.005	<0.005	<0.005	<0.005
B36-4.5-5.0	4.5-5.0	05-01-2014	0.012	<0.005	<0.005	<0.005	<0.005	<0.005
B37-1.5-2.0	1.5-3.0	05-01-2014	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
B37-2.5-3.0	2.5-3.0	05-01-2014	0.038	<0.005	<0.005	<0.005	<0.005	<0.005
B37-4.5-5.0	4.5-5.0	05-01-2014	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
B38-1.0-1.5	1.0-1.5	05-02-2014	0.023	<0.005	<0.005	<0.005	<0.005	<0.005
B38-1.5-2.0	1.5-2.0	05-02-2014	0.023	<0.005	<0.005	<0.005	<0.005	<0.005
B38-2.5-3.0	2.5-3.0	05-02-2014	0.014	<0.005	<0.005	<0.005	<0.005	<0.005
B38-4.5-5.0	4.5-5.0	05-02-2014	0.0061	<0.005	<0.005	<0.005	<0.005	<0.005
B39-1.5-2.0	1.5-3.0	05-02-2014	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
B39-2.5-3.0	2.5-3.0	05-02-2014	0.021	<0.005	<0.005	<0.005	<0.005	<0.005
B39-4.5-5.0	4.5-5.0	05-02-2014	0.034	<0.005	<0.005	<0.005	<0.005	<0.005
B40-1.5-2.0	1.5-3.0	05-02-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B40-2.5-3.0	2.5-3.0	05-02-2014	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B40-4.5-5.0	4.5-5.0	05-02-2014	0.029	<0.005	<0.005	<0.005	<0.005	<0.005
B41-1.5-2.0	1.5-2.0	05-05-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B41-4.5-5.0	4.5-5.0	05-05-2014	0.0076	<0.005	<0.005	<0.005	<0.005	<0.005
B42-1.5-2.0	1.5-3.0	05-05-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B42-2.5-3.0	2.5-3.0	05-05-2014	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B42-4.5-5.0	4.5-5.0	05-05-2014	0.022	<0.005	<0.005	<0.005	<0.005	<0.005
B43-1.5-2.0	1.5-2.0	05-06-2014	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005
B43-2.5-3.0	2.5-3.0	05-06-2014	0.022	<0.005	<0.005	<0.005	<0.005	< 0.005
B43-4.5-5.0	4.5-5.0	05-06-2014	0.015	<0.005	<0.005	<0.005	<0.005	<0.005

				EPA SW 846/8260B							
Sample ID	Depth (feet bsg)	Date	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1- Dichloroethene (1,1-DCE)	Trans 1,2- Dichloroethene (Trans 1,2-DCE)	Cis 1,2- Dichloroethene (Cis 1,2-DCE)	Vinyl Chloride (VC)			
B44-1.5-2.0	1.5-3.0	05-07-2014	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005			
B44-2.5-3.0	2.5-3.0	05-07-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
B44-4.5-5.0	4.5-5.0	05-07-2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
B45-1.5-2.0	1.5-3.0	05-07-2014	0.0052	<0.005	<0.005	<0.005	<0.005	< 0.005			
B45-2.5-3.0	2.5-3.0	05-07-2014	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005			
B45-4.5-5.0	4.5-5.0	05-07-2014	0.0068	<0.005	<0.005	<0.005	<0.005	<0.005			

Notes:

mg/kg: milligrams per kilogram

bsg: below surface grade

<: Indicates constituents were not detected at a concentration greater than the reporting limit shown.

# **APPENDIX A**

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

September 16, 2014

Mr. William Mathews Brooks 4725 Thornton Avenue Fremont, CA 94536 (Sent via electronic mail to <u>REWMB@aol.com</u>)

ALEX BRISCOE, Agency Director

Subject: Request for Work Plan; Site Cleanup Program (SCP) Case No. RO0003120 and GeoTracker Global ID T10000005063, Swiss Valley Cleaners, 1395 MacArthur Blvd, Oakland, CA 94577

Dear Mr. Brooks:

Alameda County Environmental Health (ACEH) has reviewed the *Site Assessment Report*, dated July 14, 2014 and the *Risk Characterization and Uncertainty Analysis Report*, dated August 5, 2014, prepared and submitted on your behalf by Advanced GeoEnvironmental, Inc, (AGE). Thank you for submitting the reports.

The site assessment report documented the installation of soil bores SB23 to SB45, the sampling of shallow soil and the sampling of soil vapor at a depth of 5 feet below surface grade (bgs) in an effort to delineate the lateral extent of soil and soil vapor contamination at the site. The subsurface work was generally conducted concurrently with indoor air sampling at a number of commercial suites at the shopping center and reported on in the *Indoor Air Sampling Report – Second Quarter 2014*, dated July 1, 2014. The *Risk Characterization and Uncertainty Analysis Report* was requested in a July 18, 2014 directive letter as a result of the review of the indoor air sampling data and report in which indoor air concentrations of tetrachloroethene (PCE) above acceptable regulatory screening levels. The risk evaluation provided a list of major assumptions which appear appropriate, a list of uncertainties identified at the site, and used RISC5 software to calculate a preliminary risk assessment based on site specific data. The resulting calculations indicated a cancer risk of 8.4 x 10<sup>-6</sup> and a hazard index of 0.015. The preliminary results indicate that an imminent health risk concern may not appear to be present. Thank you for the analysis.

Based on the review of the case file ACEH requests that you address the following technical comments and send us the documents requested below.

#### TECHNICAL COMMENTS

- SVE Pilot Test As previously communicated, ACEH is in general agreement with conducting the Soil Vapor Extraction (SVE) pilot test, using the modified well screening interval (2 to 7 feet bgs) proposed in the Site Assessment Report. Please submit a Remedial Action Plan (RAP) that evaluates a minimum of three feasible alternatives for the site, to incorporate the results of the pilot test, and to recommend final alternatives in accordance with DTSC guidelines, by the date identified below.
- 2. Delineation of Chlorinated Solvent Soil and Soil Vapor Plumes ACEH is in general agreement with the recommendation contained in the *Site Assessment Report* for the lateral delineation of the soil and soil vapor contaminant plume at the site. Please submit a work plan for the work by the date identified below.
- 3. Sub-Slab Vapor Concentrations ACEH is also in general agreement with the recommendation contained in the *Site Assessment Report* for the installation of sub-slab vapor points in order to evaluate vapor concentrations below the slab. Please submit a work plan for the work by the date identified below; both work plans can be combined into a single document.

Mr. William Mathews Brooks RO0003120 September 16, 2014, Page 2

### TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with Attachment 1 and the specified file naming convention below, according to the following schedule:

- November 14, 2014 Remedial Action Plan File to be named: RO3120\_RAP\_R\_yyyy-mm-dd
- November 7, 2014 Work Plans File to be named: RO3120\_WP\_R\_yyyy-mm-dd

Online case files are available for review at the following website: <u>http://www.acgov.org/aceh/index.htm</u>. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at <u>mark.detterman@acgov.org</u>.

Sincerely,

Mark E. Detterman, P.G., C.E.G. Senior Hazardous Materials Specialist

- Enclosures: Attachment 1 Responsible Party (ies) Legal Requirements / Obligations Electronic Report Upload (ftp) Instructions
- cc: Daniel Villanueva, Advanced GeoEnvironmental, Inc, 837 Shaw Road, Stockton, CA 95215 (sent via electronic mail to <u>DVillanueva@advgeoenv.com</u>)

William Little, Advanced GeoEnvironmental, Inc, 837 Shaw Road, Stockton, CA 95215 (sent via electronic mail to <u>WLittle@advgeoenv.com</u>)

Dilan Roe (sent via electronic mail to <u>dilan.roe@acgov.org</u>) Mark Detterman, ACEH, (sent via electronic mail to <u>mark.detterman@acgov.org</u>) Geotracker, Electronic File

### Responsible Party(ies) Legal Requirements / Obligations

#### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please SWRCB visit the website for more information on these requirements (http://www.waterboards.ca.gov/water issues/programs/ust/electronic submittal/).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

	REVISION DATE: May 15, 2014
Alameda County Environmental Cleanup	ISSUE DATE: July 5, 2005
Oversight Programs (LOP and SLIC)	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- Please <u>do not</u> submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- <u>Do not</u> password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection <u>will not</u> be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

### **Submission Instructions**

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to <u>deh.loptoxic@acgov.org</u>
  - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <a href="http://alcoftp1.acgov.org">http://alcoftp1.acgov.org</a>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to <u>deh.loptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.