

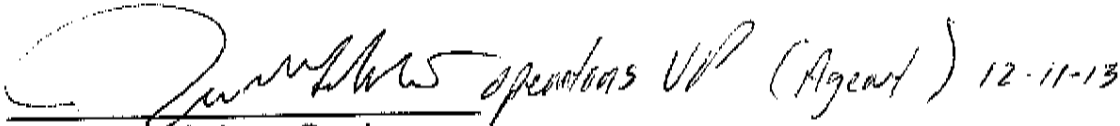
**RECEIVED**

By Alameda County Environmental Health at 4:19 pm, Dec 20, 2013

**PERJURY STATEMENT**

Subject: 1395 MacArthur Boulevard, San Leandro, California  
**Site Assessment Report**

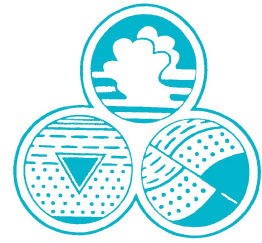
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate,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



*William Mathews Brooks VP (Agent) 12-11-13*

Mr. William Mathews Brooks  
4725 Thornton Avenue  
Fremont, CA, 94536

*Advanced*  
GeoEnvironmental, Inc.



10 December 2013  
AGE Project No. 12-2461

Mr. William Mathews Brooks  
Ardenbrook, Inc.  
4725 Thornton Avenue  
Fremont, California 94536

**Subject: Site Assessment Report  
SWISS VALLEY CLEANERS  
1395 MacArthur Boulevard, San Leandro, California**

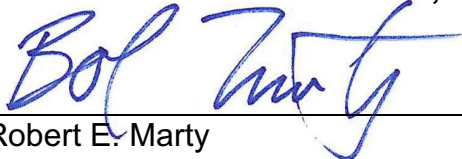
Dear Mr. Brooks:

At your request, *Advanced* GeoEnvironmental, Inc. has prepared the enclosed, *Site Assessment Report* for the site located at 1395 MacArthur Boulevard, San Leandro, California. The scope of work included the advancement of eleven (11) soil borings for collection of soil samples and forty (40) borings for the collection of soil-vapor samples. Borings were advanced at the site to evaluate chlorinated hydrocarbon impact to soil and soil-vapor resulting from historic dry-cleaning operations at the site. Upon your approval, copies of this report will be transmitted to Mark Detterman of the Alameda County Local Oversight Program.

If you have any questions or require further information, please contact me at (209) 467-1006.

Sincerely,

**Advanced GeoEnvironmental, Inc.**

  
\_\_\_\_\_  
Robert E. Marty  
President

cc: Mark Detterman, Alameda County Local Oversight Program

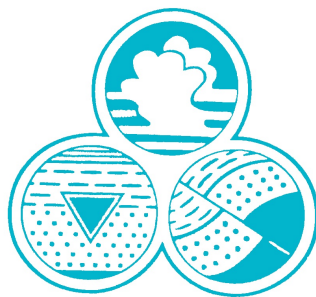
**Site Assessment Report**  
**SWISS VALLEY CLEANERS**  
**1395 MacArthur Boulevard, San Leandro, California**

26 November 2013  
AGE Project No. 12-2461

*PREPARED FOR:*

Mr. William Mathews Brooks  
ARDENBROOK, INC.

*PREPARED BY:*



---

***Advanced GeoEnvironmental, Inc.***

*Stockton • Santa Rosa • Monterey • Brea • Spokane • Reno • Dallas*

*(800) 511-9300*

[www.advgeoenv.com](http://www.advgeoenv.com)

**Site Assessment Report**  
**SWISS VALLEY CLEANERS**  
1001 Railroad Avenue, San Leandro, California

26 November 2013  
AGE Project No. 12-2461



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**PREPARED BY:**

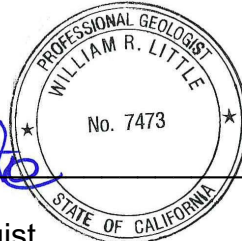
Daniel J. Villanueva  
Project Geologist

**PROJECT MANAGER:**

Robert Marty  
President

**REVIEWED BY:**

William R. Little  
Senior Project Geologist  
California Professional Geologist No. 7473



**Site Assessment Report**  
**SWISS VALLEY CLEANERS**  
1395 MacArthur Boulevard, San Leandro, California

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**Site Assessment Report**  
**SWISS VALLEY CLEANERS**  
**1395 MacArthur Boulevard, San Leandro, California**

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**Site Assessment Report**  
**SWISS VALLEY CLEANERS**  
**1395 MacArthur Boulevard, San Leandro, California**

**1.0. INTRODUCTION**

*Advanced GeoEnvironmental, Inc. (AGE)* has prepared this, *Site Assessment Report* for the site located at 1395 MacArthur Boulevard, San Leandro, California (site). The scope of work included the advancement of eleven (11) soil borings for collection of soil samples and forty (40) soil borings for collection of soil-vapor samples to assess chlorinated hydrocarbon impact resulting from historic dry-cleaning operations conducted at the site. The location of the site and the surrounding area are illustrated in Figure 1; site structures and boring locations are illustrated in Figure 2.

**2.0. PROCEDURES**

Soil boring advancement and sampling procedures were outlined in the AGE-prepared, *Site Assessment Work Plan*, dated 16 September 2013. Borings were advanced at the site under Alameda County Public Work Agency - Water Resources permit (Appendix A).

**2.1. SOIL PROBE BORING ADVANCEMENT**

Between 15 and 18 October 2013, AGE advanced forty (40) soil probe borings for collection of soil-vapor samples at the site; utilizing either hand tooling, a limited access direct-push probe or a van-mounted Geoprobe direct-push probing unit, depending on access. All borings were advanced to a depth of five feet below surface grade (bsg) for the collection of soil-vapor samples, with the exception of borings VP-3 and VP-24, which were advanced to three feet bsg due to refusal conditions. Soil-vapor boring VP-20 was not advanced or sampled due to refusal condition.

Additionally, between 22 and 24 October 2013 a total of eleven (11) soil borings were advanced at the site for collection of soil samples utilizing either a limited access direct-push probe, van-mounted Geoprobe direct-push probing unit or a hand auger, depending on access. All borings, with the exception of B21 (advanced to ten feet bsg with hand auger), were advanced to a total depth of 15 feet bsg.

The locations of the soil and soil-vapor borings are illustrated in Figure 2.

**2.2. SOIL-VAPOR SAMPLE COLLECTION**

Soil-vapor samples were collected from borings VP-1 through VP-40 at depths of either 3 (VP-3 and VP-24 only) or 5 feet bsg (all other sampling points) using either a rotohammer

and soil-vapor sampling assembly or utilizing the limited access or standard access direct-push drilling rig and temporary vapor implants.

For samples collected with the hand tooling, an expandable vapor tip was placed at the bottom of an assembly of ½-inch diameter hollow rods. Single use, ¼-inch diameter disposable teflon tubing was then attached to a tubing adapter on the expandable vapor tip. The assembly and rods were then advanced to the specified depth and retracted approximately six inches in order to disengage the expandable point and expose a column of strata from which soil-vapor could be extracted.

Above ground, the surface around the soil-vapor sampler was sealed with a bentonite sealant to prevent ambient air intrusion. Once the bentonite was hydrated, each vapor sampling point was allowed to equilibrate for a minimum of 30 minutes prior to sample collection.

For vapor samples collected using the direct-push probing units, ¾-inch rods were used to drive the rods to total depth. Once total depth was reached, the rods were pulled and vapor implants with ¼-inch teflon tubing were used to create a temporary sampling point. Once the sampling implant was in place, clean #2/12 sand was used to fill the void of the area surrounding the implant to a depth of approximately 4.5 feet bsg. The rest of the void space between 4.5 feet and ground surface was then filled with granular bentonite and hydrated in order to prevent ambient air and tracer gas from intruding into the subsurface sampling points.

All samples were collected following a minimum of 30 minutes equilibration time. Further, all samples were collected following three purge volumes, as determined by step sampling at the first vapor sampling point (samples collected and analyzed at 1, 3 and 10 purge volumes). All samples were collected by a representative of TEG Northern California and analyzed onsite in a mobile laboratory to provide real time results of subsurface conditions at the site. All vapor samples collected were analyzed for volatile organic compounds by EPA method 8260B.

### 2.3. SOIL SAMPLE COLLECTION

Soil samples were collected continuously, between 5 and 15 feet bsg, at two foot intervals from borings B11 through B15. Due to little variation (geology, field contaminant impact) between the initial borings advanced at the site (B11 through B15) soil samples were then collected from probe borings B16 through B20 at depths of five, ten and fifteen feet bsg; soil samples were collected at five and ten feet bsg at boring B21. Each sample was



collected utilizing a 1.5-inch Geoprobe soil sampling assembly loaded with a two-foot acetate liner, with the exception of B21, which were hand-packed at each sampling depth following boring by hand auger and extension due to accessibility issues. After sample collection, a selected section of the acetate liner was removed from the two-foot section and the ends of the section were covered with Teflon sheets, capped and sealed with tape. The selected section was labeled with the sample designation, date, time, and sampler's initials, then stored on ice and transported under chain-of-custody to Cal Tech Environmental Laboratories (CTEL), a CDPH-certified analytical laboratory in Paramount, California. Selected samples were analyzed for volatile organic compounds (VOC's) by EPA method 8260B.

The remaining soil from the acetate liners were then extruded into plastic bags, visually classified in accordance with the Unified Soil Classification System (USCS) and recorded on a boring log. Additionally, soil samples were field screened for the presence of organic vapors using an organic vapor meter (OVM), equipped with a photo-ionization detector (PID). Boring logs documenting field observations are included in Appendix B.

#### 2.4. EQUIPMENT DECONTAMINATION

Prior to use, all subsurface tools for sample collection were thoroughly rinsed with clean tap water after being washed with a solution of Alconox. All probing rods were cleaned prior to advancement at each probe boring location.

#### 2.5. BOREHOLE ABANDONMENT

Following soil boring activities at B11 through B21, each borehole was permanently sealed to prevent the vertical migration of contaminants. Under Alameda County oversight, the boreholes were backfilled with a portland type II cement slurry from the total depth to surface grade. For all vapor borings (VP1 through V40), the tubing was removed and bentonite crumbles were used to fill the boreholes from total depth to near surface grade. Once in place, the crumbles were hydrated and the surfaces were completed with rapid setting concrete.

### 3.0. FINDINGS

Chlorinated hydrocarbon impact was quantified based on laboratory analysis of soil-vapor and soil samples collected at the site during the October 2013 investigations.

### 3.1. ANALYTICAL RESULTS OF SOIL-VAPOR SAMPLES

A total of forty-four (44) soil-vapor samples were collected from borings advanced between 15 and 18 October 2013; three soil-vapor samples were collected from VP-1 at three different purge volumes (1, 3, and 10 volumes); while a duplicate analysis was conducted from samples collected from borings VP-7, VP-14, and VP-32. All soil-vapor samples were analyzed for volatile organic compounds by EPA method 8260B. Tetrachloroethene (PCE) was detected in all forty-four vapor samples at concentrations ranging between of 1,200 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) in VP-30 and 400,000  $\mu\text{g}/\text{m}^3$  in VP-24. The average concentrations for PCE detections was 60,558  $\mu\text{g}/\text{m}^3$ ; while the median concentration for PCE detections was 39,000  $\mu\text{g}/\text{m}^3$ . The estimated standard deviation for the concentrations of PCE detected was 64,573  $\mu\text{g}/\text{m}^3$  and the Upper Confidence Limit for the concentrations of PCE detected was 76,367  $\mu\text{g}/\text{m}^3$ .

Trichloroethene (TCE) was detected in one of the forty-four vapor samples collected at a concentration of 220  $\mu\text{g}/\text{m}^3$  (VP-40). Chloroform was detected in one of the forty-four vapor samples collected at a concentration of 240  $\mu\text{g}/\text{m}^3$  (VP-5).

No other analytes were reported in the analyzed soil-vapor samples. Analytical results of soil-vapor samples are summarized in Table 1. A map showing the current extent of PCE concentrations in vapor is included as Figure 3. Laboratory report (TEG Project# 31015F), QA/QC reports and chain of custody forms are included in Appendix C. Laboratory results were uploaded to the State Geotracker database under confirmation number 1024682223.

### 3.2 STRATIGRAPHY AND SUMMARY OF PID MEASUREMENTS

A total of forty-two soil samples were collected and evaluated during the October 2013 investigation. Based on field observations, generally brown, dry to saturated, silts and clays were observed between 5 and 15 feet bsg; intermittent layers of silty sand were also encountered during boring advancement.

No odors or soil staining were noted during field sample collection at all boring locations. Organic vapor was detected at low concentrations in selected borings at concentrations ranging between 0.1 and 9.8 parts per million volume (ppmv).

Boring logs summarizing findings from the October 2013 investigation are included in Appendix B. Boring logs were uploaded to the State Geotracker database under confirmation numbers 1691689670, 7678826510, 4771241664, 7873918056, 3601800143, 3854981899, 2855086565, 1830750942, 7253877162, 1593636691 and 2419590771;

boring logs from previous assessment borings B9 and B10 were also uploaded to the database under confirmation numbers 9304643750 and 9187386691.

### 3.3. ANALYTICAL RESULTS OF SOIL SAMPLES

A total of twenty-nine soil samples were submitted for laboratory analysis during the October 2013 investigation. PCE was detected in eighteen of the twenty-nine samples collected at concentrations ranging from 0.005 milligrams per kilogram (mg/kg; B12-5) to 0.030 mg/kg (B15-5).

No other constituents of concern were reported in samples collected during the October 2013 investigation. Analytical results from the October 2013 investigation are summarized in Table 2. Maps illustrating adsorbed PCE impact at depths of 5, 10 and 15 feet bsg are included in Figures 4, 5 and 6. The laboratory reports (CTEL Project Nos. CT214-1310126 and -1310137), QA/QC reports and chain of custody forms are included in Appendix D. Electronic data files were uploaded to the state Geotracker database under confirmation numbers 3400063693 and 7999179899.

### 4.0. SUMMARY/CONCLUSIONS

Based upon the findings of this investigation, AGE concludes:

- A total of forty borings were advanced at the site for collection of soil-vapor samples and a total eleven borings were advanced for soil sample collection. Grab groundwater samples were not collected during the October 2013 investigation (Figure 2).
- Based on soil samples collected during the October 2013 investigation silts, clays and intermittent silty sands are generally located from near surface grade to the maximum investigated depth of 15 feet bsg (Appendix B).
- A total of forty-four soil-vapor samples were collected throughout the existing building and on the southwest ally side and northeast parking side of the facility (Figure 2). PCE was reported at concentrations above the commercial Cal-EPA California Human Health Screening Levels (CHHSL) and the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) in all samples collected during the investigation.
- Based on vapor concentrations reported during the survey it appears that the “core area” of the plume is located near the rear of the former building footprint in the

location of borings VP-24 and VP-25 (Figures 2 and 3). A second minor elevated area of the plume is located near the center of the current facility in the location of borings VP-11 and VP-16. The vapor plume appears to decrease (degrade) in concentrations moving away from the “core area” at the east and west ends of the current building. However, significant concentrations were detected toward the east and west of the “core area” and the soil-vapor plume is currently undefined in all directions at the site (Figure 3).

- Based on soil samples collected at the site and analyzed for chlorinated hydrocarbons, PCE-impacted soil extends from near surface grade (sample B-8 at two feet bsg - 0.6 mg/kg) to 15 feet bsg in the center of the former and current building locations (B9-15 feet - 0.022 mg/kg and B16-15 feet - 0.006 mg/kg), and to a depth of 10 feet bsg in the rear of the current building location (B16/17-10 feet - 0.01 mg/kg).
- The highest PCE concentrations were detected during the current sampling event at 5 feet bsg in the center of the former building and at the east edge of the current building (B15-5 feet - 0.03 mg/kg). While the greatest detection of PCE in soil was at a depth of two feet bsg (sample B-8 at two feet bsg - 0.6 mg/kg). PCE concentrations generally decrease with depth.
- PCE concentrations were not detected between 5 and 15 feet bsg in the area of borings B18, B19, and B20, located in the western portion of the current building. At 15 feet bsg, the adsorbed PCE plume is defined at the eastern edge of the former building by boring B11 and at the western edge of the current building by borings B10 and B12. However, the adsorbed PCE plume is undefined at 5 and 10 feet bsg. The lateral extent of PCE-impacted soil at 5, 10 and 15 feet bsg is depicted in Figures 4, 5, and 6, respectively.
- Adsorbed PCE concentrations reported during the investigation are below residential and commercial ESLs. Even though adsorbed concentration are below ESL's, it appears the PCE vapor plume at the site is emanating from the low concentrations in the soil.

## 5.0. RECOMMENDATIONS

Based on the results of this investigation, AGE recommends the following:

- Approval of the previously prepared, *Vapor Mitigation and Remedial Well Installation Work Plan*, submitted to the Alameda County Local Oversight Program on 08 July 2013. An addendum to the work plan will be prepared detailing additional

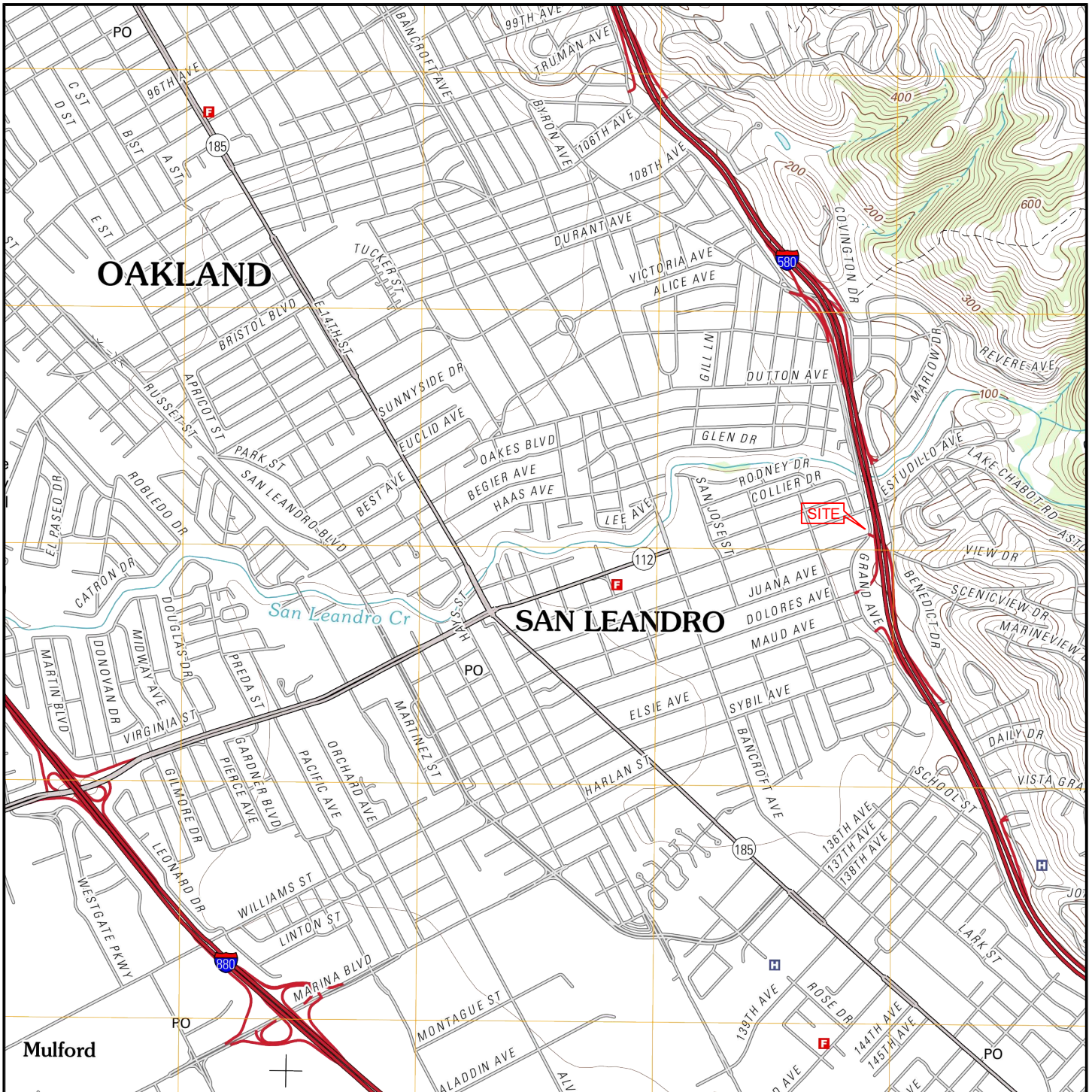
locations for remediation wells within the building based on data collected during the survey and will contain revised well construction details and procedures. The work plan should be implemented without delay on the inside of the facility to expedite the reoccupation of the building.

- Following implementation of interim or pilot remediation within the inside of the facility, a work plan should be prepared to assess both indoor air quality and conditions directly beneath the sub-slab. The work plan will provide procedures for the installation of several sub-slab vapor points and the procedures for collection of indoor air quality samples. Additionally, the work plan will provide procedures for additional assessment of the vapor and adsorbed plumes to evaluate the lateral extents of PCE impact at the site.

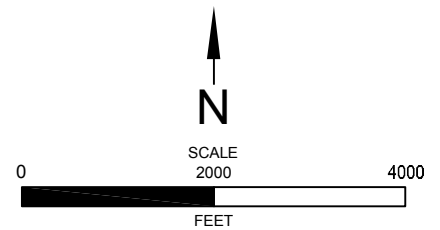
## **6.0. LIMITATIONS**

Our professional services were performed using the degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based mainly upon analytical results provided by an independent laboratory. Evaluations of the geologic/ hydrogeologic conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. soil borings, soil samples and soil-vapor samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

# FIGURES



SAN LEANDRO QUADRANGLE, CALIFORNIA  
 7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)



**LOCATION MAP**  
 SWISS VALLEY CLEANERS  
 1395 MacArthur Boulevard  
 SAN LEANDRO, CALIFORNIA



*Advanced*  
**GeoEnvironmental, Inc.**  
 www.advgeoenv.com

PROJECT NO. AGE-NC-12-2461	FILE: LOCATION	FIGURE:
DATE: 21 MAY, 2013	DRAWN BY: MAC	1

**LEGEND**

- B9 ○ SOIL BORING LOCATION
- V1 ▲ SOIL VAPOR LOCATIONS
- △ SOIL VAPOR SURVEY LOCATIONS
- ◇ SURFACE DRAIN/SEWER CLEANOUT LOCATION
- SEWER LINE LOCATION
- WATER LINE LOCATION
- CURRENT DRY CLEANING BUILDING
- HISTORICAL DRY CLEANING BUILDING

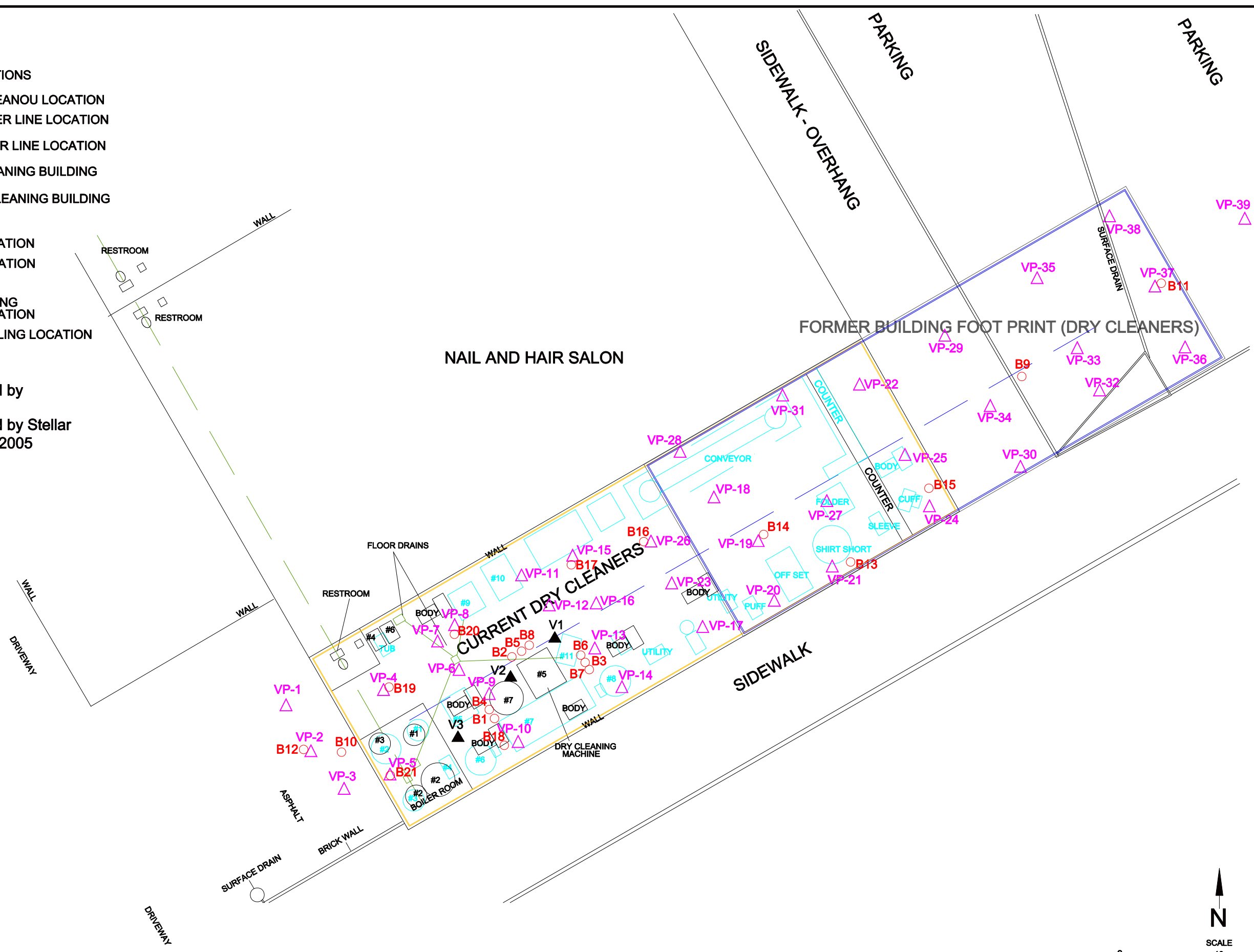
- #8 GARMET CLEANING CHEMICAL RECOVERY LOCATION
- CUFF GARMET HANDELING LOCATION
- #8 FORMER GARMET CLEANING CHEMICAL RECOVERY LOCATION
- CUFF FORMER GARMET HANDELING LOCATION

**Notes:**

Borings B1 through B3 advanced by Hageman-Aguiar in August 1998  
 Borings B4 through B6 advanced by Stellar Environmental Solutions in April 2005

- #1 - HOT WATER HEATER
- #2 - BOILER
- #3 - COMPRESSOR
- #4 - COMPT.
- #5 - RECLAIMER
- #6 - FILTER
- #7 - CLEANING UNIT
- #8 - SNIFF-O-MISER (RECOVERY)
- #9 - WX
- #10 - TUMBLER
- #11 - SPOT CLEANER
- #1 - HOT WATER HEATER
- #2 - BOILER
- #3 - COMPRESSOR
- #4 - SMALL DRY CLEANING UNIT
- #5 - LARGE DRY CLEANING UNIT
- #6 - SMALL DRYING UNIT
- #7 - RECLAIMER

VP-40  
 FENCE LINE



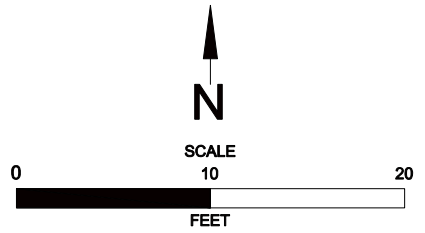
**Advanced GeoEnvironmental, Inc.**  
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PROJECT NO. AGE-12-2461  
 DATE: OCTOBER 2013

FILE:  
 DRAWN BY: MAC

FIGURE: 2

**SITE PLAN**  
 SWISS VALLEY CLEANERS  
 1395 MACARTHUR BOULEVARD  
 SAN LEANDRO, CALIFORNIA





**LEGEND**

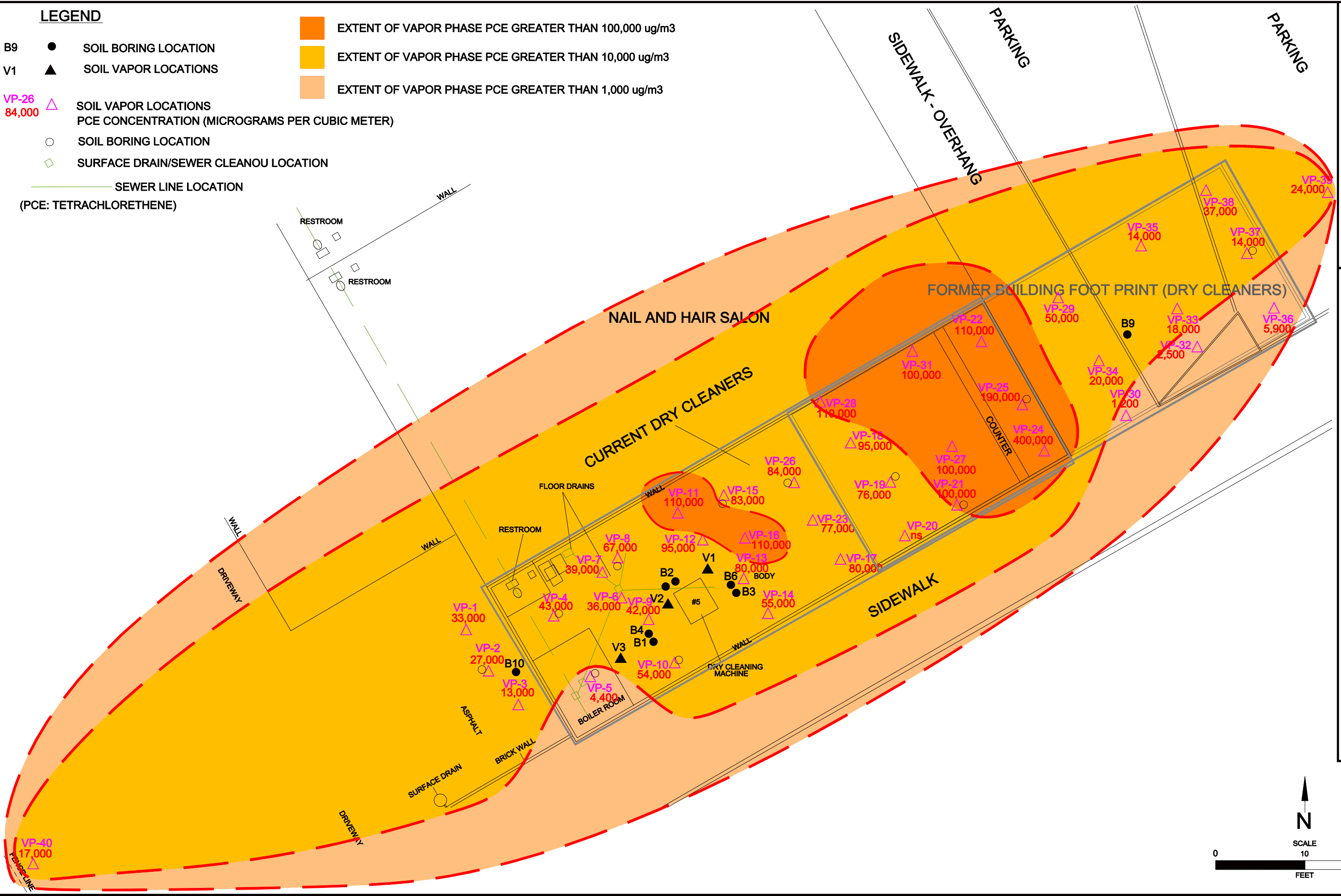
- B9 ● SOIL BORING LOCATION
- V1 ▲ SOIL VAPOR LOCATIONS

- VP-26 △ SOIL VAPOR LOCATIONS  
84,000 PCE CONCENTRATION (MICROGRAMS PER CUBIC METER)

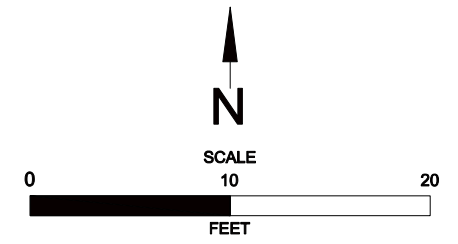
- SOIL BORING LOCATION
- ◇ SURFACE DRAIN/SEWER CLEANOUT LOCATION

- EXTENT OF VAPOR PHASE PCE GREATER THAN 100,000 ug/m3
- EXTENT OF VAPOR PHASE PCE GREATER THAN 10,000 ug/m3
- EXTENT OF VAPOR PHASE PCE GREATER THAN 1,000 ug/m3

— SEWER LINE LOCATION  
(PCE: TETRACHLORETHENE)



**PCE VAPOR CONCENTRATION MAP**  
 SWISS VALLEY CLEANERS  
 1395 MACARTHUR BOULEVARD  
 SAN LEANDRO, CALIFORNIA

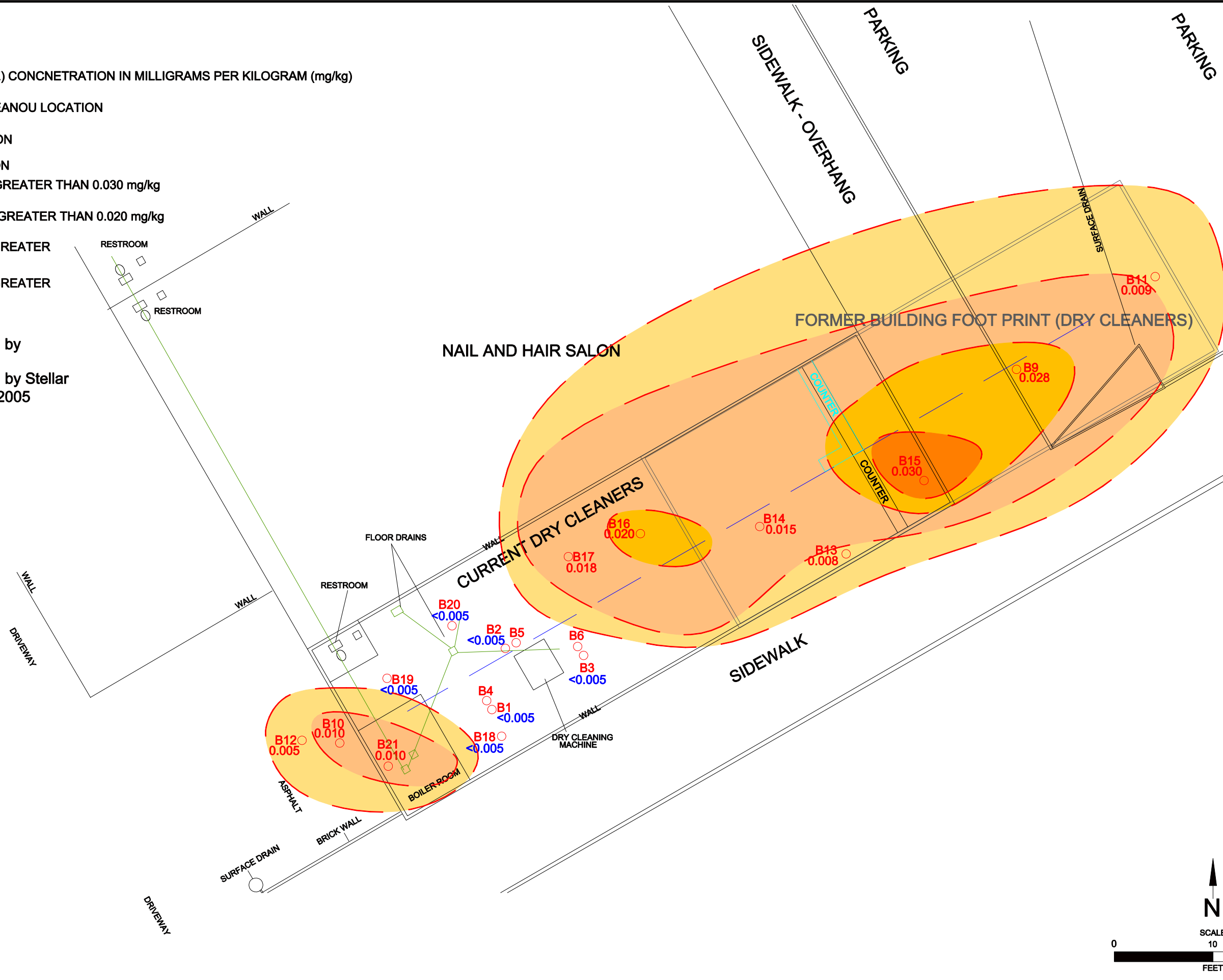


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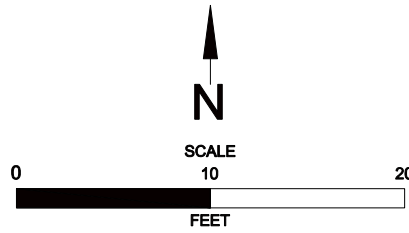
- B9 0.002 SOIL BORING LOCATION
- PCE (TETRACHLOROETHENE) CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)
- ◇ SURFACE DRAIN/SEWER CLEANOUT LOCATION
- SEWER LINE LOCATION
- WATER LINE LOCATION
- EXTENT OF ADSORBED PCE GREATER THAN 0.030 mg/kg
- EXTENT OF ADSORBED PCE GREATER THAN 0.020 mg/kg
- EXTENT OF ADSORBED PCE GREATER THAN 0.010 mg/kg
- EXTENT OF ADSORBED PCE GREATER THAN 0.005 mg/kg

**Notes:**

Borings B1 through B3 advanced by Hageman-Aguir in August 1998  
 Borings B4 through B6 advanced by Stellar Environmental Solutions in April 2005



**ADSORBED PCE: 5 FEET BSG**  
**SWISS VALLEY CLEANERS**  
**1395 MACARTHUR BOULEVARD**  
**10**



FENCE LINE

**LEGEND**

B9 ○ SOIL BORING LOCATION  
AND PCE (TETRACHLOROETHENE) CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

◇ SURFACE DRAIN/SEWER CLEANOUT LOCATION

— SEWER LINE LOCATION

— WATER LINE LOCATION

■ EXTENT OF ADSORBED PCE GREATER THAN 0.030 mg/kg

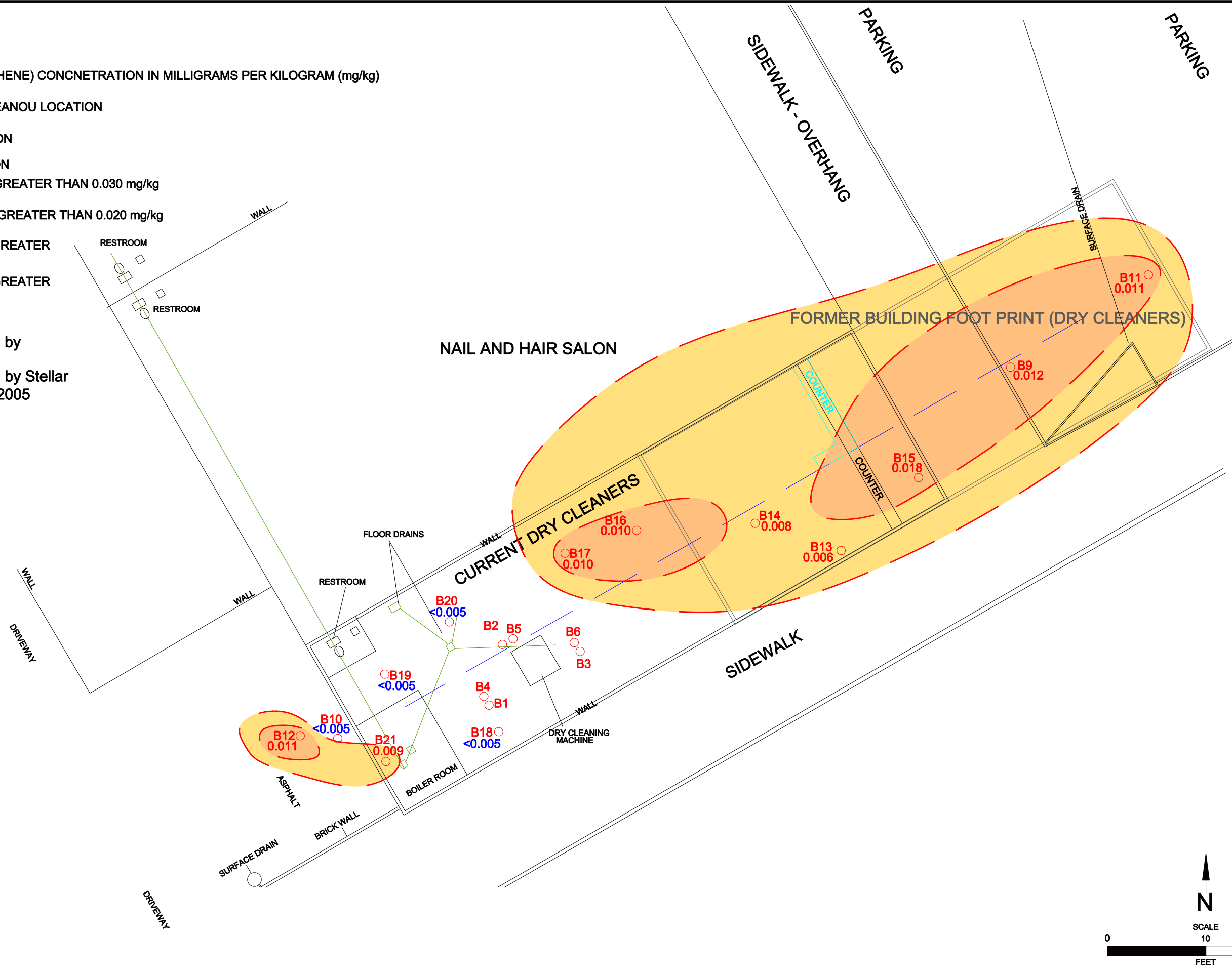
■ EXTENT OF ADSORBED PCE GREATER THAN 0.020 mg/kg

■ EXTENT OF ADSORBED PCE GREATER THAN 0.010 mg/kg

■ EXTENT OF ADSORBED PCE GREATER THAN 0.001 mg/kg

**Notes:**

Borings B1 through B3 advanced by Hageman-Aguir in August 1998  
Borings B4 through B6 advanced by Stellar Environmental Solutions in April 2005



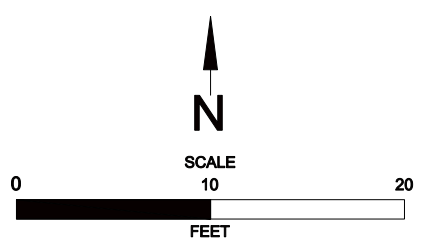
Advanced GeoEnvironmental, Inc.  
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PROJECT NO. AGE-12-2461  
DATE: NOVEMBER 2013

FILE:  
DRAWN BY: MAC

FIGURE:  
5

**ADSORBED PCE: 10 FEET BSG**  
SWISS VALLEY CLEANERS  
1395 MACARTHUR BOULEVARD  
SAN LEANDRO, CALIFORNIA



FENCE LINE

**LEGEND**

B9 ○ 0.002 SOIL BORING LOCATION AND PCE (TETRACHLOROETHENE) CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

◇ SURFACE DRAIN/SEWER CLEANOUT LOCATION

— SEWER LINE LOCATION

— WATER LINE LOCATION

■ EXTENT OF ADSORBED PCE GREATER THAN 0.030 mg/kg

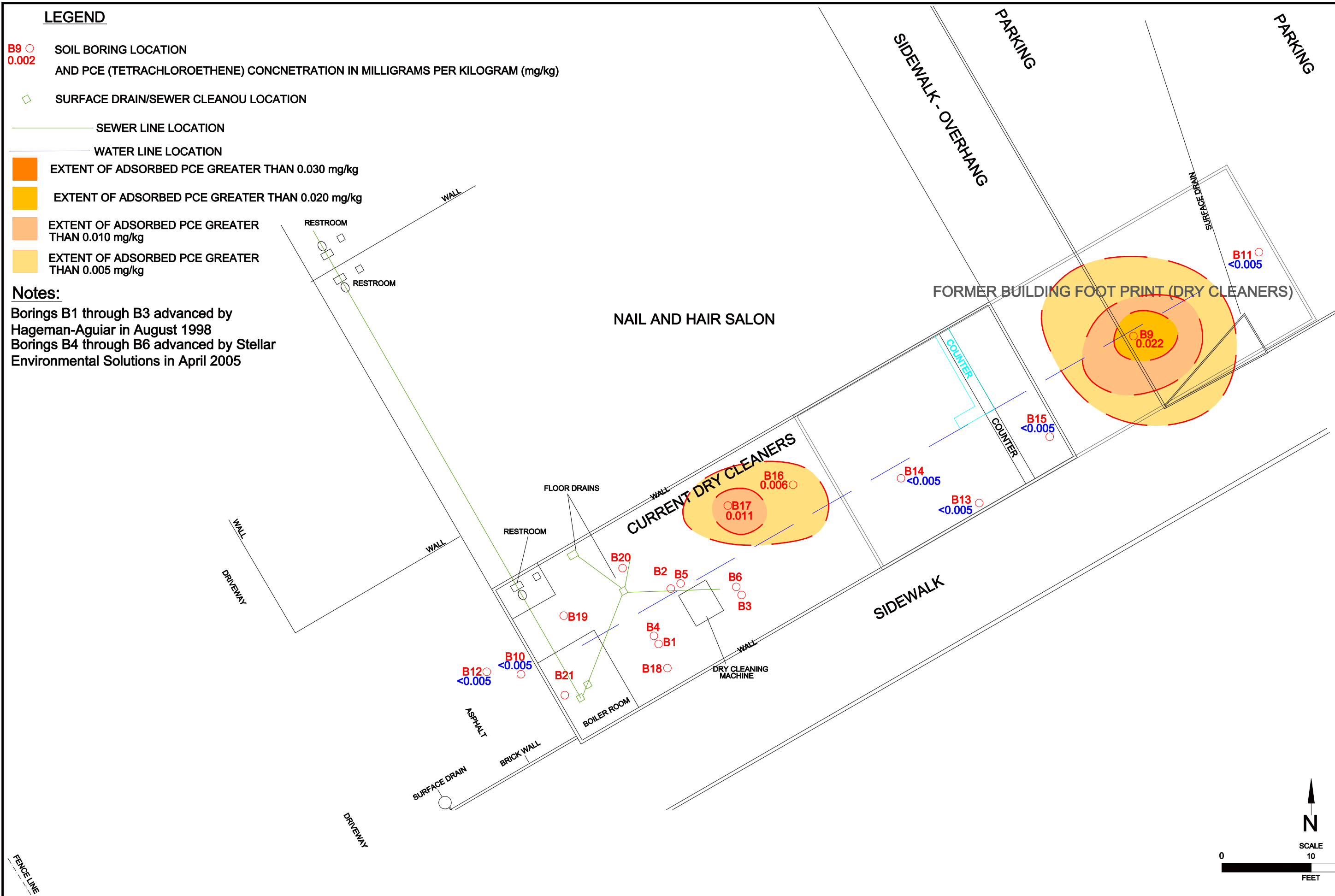
■ EXTENT OF ADSORBED PCE GREATER THAN 0.020 mg/kg

■ EXTENT OF ADSORBED PCE GREATER THAN 0.010 mg/kg

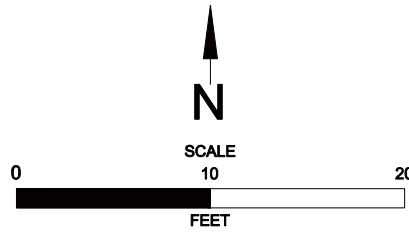
■ EXTENT OF ADSORBED PCE GREATER THAN 0.005 mg/kg

**Notes:**

Borings B1 through B3 advanced by Hageman-Aguar in August 1998  
 Borings B4 through B6 advanced by Stellar Environmental Solutions in April 2005



**ADSORBED PCE: 15 FEET BSG**  
 SWISS VALLEY CLEANERS  
 1395 MACARTHUR BOULEVARD  
 SAN LEANDRO, CALIFORNIA



FENCE LINE

# **TABLES**

**TABLE 1**  
**ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (micrograms per cubic meter)

Sample ID	Date	Depth (feet bsg)	EPA Method 8260B							
			PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	Chloroform	
V-1	05-08-2013	5	<b>29,000</b>	<2	<2	<2	<2	<2	<2	<1
V-2	05-08-2013	5	<b>23,000</b>	<2	<2	<2	<2	<2	<2	<1
V-3	05-08-2013	5	<b>15,000</b>	<2	<2	<2	<2	<2	<2	<1
VP-1 (1 purge volume)	10-15-2013	5	<b>33,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-1 (3 purge volumes)	10-15-2013	5	<b>33,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-1 (10 purge volumes)	10-15-2013	5	<b>33,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-2	10-15-2013	5	<b>27,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-3	10-15-2013	3	<b>13,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-4	10-15-2013	5	<b>43,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-5	10-15-2013	5	<b>4,400</b>	<100	<100	<100	<100	<100	<100	<b>240</b>
VP-6	10-15-2013	5	<b>36,000</b>	<100	<100	<100	<100	<100	<100	<100
VP-7	10-15-2013	5	<b>39,000</b>	<100	<100	<100	<100	<100	<100	<100

**TABLE 1**  
**ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (micrograms per cubic meter)

VP-7 (dup)	10-15-2013	5	<b>37,000</b>	<100	<100	<100	<100	<100	<100
VP-8	10-15-2013	5	<b>67,000*</b>	<100	<100	<100	<100	<100	<100
VP-9	10-16-2013	5	<b>42,000</b>	<100	<100	<100	<100	<100	<100
VP-10	10-16-2013	5	<b>54,000*</b>	<100	<100	<100	<100	<100	<100
VP-11	10-16-2013	5	<b>110,000</b>	<100	<100	<100	<100	<100	<100
VP-12	10-16-2013	5	<b>95,000</b>	<100	<100	<100	<100	<100	<100
VP-13	10-16-2013	5	<b>80,000</b>	<100	<100	<100	<100	<100	<100
VP-14	10-16-2013	5	<b>55,000</b>	<100	<100	<100	<100	<100	<100
VP-14 (dup)	10-16-2013	5	<b>57,000</b>	<100	<100	<100	<100	<100	<100
VP-15	10-16-2013	5	<b>83,000</b>	<100	<100	<100	<100	<100	<100
VP-16	10-16-2013	5	<b>110,000</b>	<100	<100	<100	<100	<100	<100
VP-17	10-16-2013	5	<b>80,000</b>	<100	<100	<100	<100	<100	<100
VP-18	10-16-2013	5	<b>95,000</b>	<100	<100	<100	<100	<100	<100
VP-19	10-16-2013	5	<b>76,000</b>	<100	<100	<100	<100	<100	<100
VP-20	not completed								

**TABLE 1**  
**ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (micrograms per cubic meter)

VP-21	10-17-2013	5	<b>100,000</b>	<100	<100	<100	<100	<100	<100
VP-22	10-17-2013	5	<b>110,000</b>	<100	<100	<100	<100	<100	<100
VP-23	10-17-2013	5	<b>77,000</b>	<100	<100	<100	<100	<100	<100
VP-24	10-17-2013	3	<b>400,000</b>	<100	<100	<100	<100	<100	<100
VP-25	10-17-2013	5	<b>190,000</b>	<100	<100	<100	<100	<100	<100
VP-26	10-17-2013	5	<b>84,000</b>	<100	<100	<100	<100	<100	<100
VP-27	10-17-2013	5	<b>100,000</b>	<100	<100	<100	<100	<100	<100
VP-28	10-17-2013	5	<b>110,000</b>	<100	<100	<100	<100	<100	<100
VP-29	10-17-2013	5	<b>50,000</b>	<100	<100	<100	<100	<100	<100
VP-30	10-17-2013	5	<b>1,200</b>	<100	<100	<100	<100	<100	<100
VP-31	10-18-2013	5	<b>100,000</b>	<100	<100	<100	<100	<100	<100
VP-32	10-18-2013	5	<b>2,500</b>	<100	<100	<100	<100	<100	<100
VP-32 (dup)	10-18-2013	5	<b>2,100</b>	<100	<100	<100	<100	<100	<100
VP-33	10-18-2013	5	<b>18,000</b>	<100	<100	<100	<100	<100	<100
VP-34	10-18-2013	5	<b>20,000</b>	<100	<100	<100	<100	<100	<100



**TABLE 1**  
**ANALYTICAL RESULTS OF SOIL VAPOR SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (micrograms per cubic meter)

VP-35	10-18-2013	5	<b>14,000</b>	<100	<100	<100	<100	<100	<100
VP-36	10-18-2013	5	<b>5,900</b>	<100	<100	<100	<100	<100	<100
VP-37	10-18-2013	5	<b>14,000</b>	<100	<100	<100	<100	<100	<100
VP-38	10-18-2013	5	<b>37,000</b>	<100	<100	<100	<100	<100	<100
VP-39	10-18-2013	5	<b>24,000</b>	<100	<100	<100	<100	<100	<100
VP-40	10-18-2013	5	<b>17,000</b>	<b>220</b>	<100	<100	<100	<100	<100
CHHSLs (Residential)			180	528	-	31,900	15,900	13.3	-
SFBRWCB ESL Shallow Soil Gas (Commercial)			2,100	3,000	100,000	260,000	-	16	230
SFBRWCB ESL Shallow Soil Gas (Residential)			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

**TABLE 2**  
**ANALYTICAL RESULTS OF SOIL SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (mg/kg)

Sample ID	Depth (feet bsg)	Date	EPA SW 846/8260B					
			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	<b>0.0057</b>	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098
B-5	1.83	04-06-2005	<b>0.0074</b>	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094
B-6	1.67	04-06-2005	<b>0.022</b>	<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	<b>0.060</b>	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094
B9-5	5	05-07-2013	<b>0.028</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B9-10	10	05-07-2013	<b>0.012</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B9-15	15	05-07-2013	<b>0.022</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B10-5	5	05-07-2013	<b>0.010</b>	<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	<b>0.009</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B11-10	10	10-22-2013	<b>0.011</b>	<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	<b>0.005</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B12-10	10	10-22-2013	<b>0.011</b>	<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	<b>0.008</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B13-10	10	10-22-2013	<b>0.006</b>	<0.005	<0.005	<0.005	<0.005	<0.005

**TABLE 2**  
**ANALYTICAL RESULTS OF SOIL SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (mg/kg)

Sample ID	Depth (feet bsg)	Date	EPA SW 846/8260B					
			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	<b>0.015</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B14-10	10	10-22-2013	<b>0.008</b>	<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	<b>0.030</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B15-10	10	10-22-2013	<b>0.018</b>	<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	<b>0.020</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B16-10	10	10-23-2013	<b>0.010</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B16-15	15	10-23-2013	<b>0.006</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B17-5	5	10-23-2013	<b>0.018</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B17-10	10	10-23-2013	<b>0.010</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B17-15	15	10-23-2013	<b>0.011</b>	<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

**TABLE 2**  
**ANALYTICAL RESULTS OF SOIL SAMPLES**  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California  
 (mg/kg)

Sample ID	Depth (feet bsg)	Date	EPA SW 846/8260B					
			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	<b>0.010</b>	<0.005	<0.005	<0.005	<0.005	<0.005
B21-10	10	10-24-2013	<b>0.009</b>	<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 Public Works Agency - Water Resources Well Permit



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

Application Approved on: 10/10/2013 By jamesy

Permit Numbers: W2013-0845  
Permits Valid from 10/22/2013 to 11/15/2013

Application Id: 1381276685415  
Site Location: 1395 MacArthur Boulevard  
Project Start Date: 10/22/2013  
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: San Leandro

Completion Date: 11/15/2013

Applicant: Advanced GeoEnvironmental Inc. - Daniel

Phone: 209-467-1006

Villanueva  
837 Shaw Road, Stockton, CA 95215

Property Owner: Matthew Brooks  
4725 Thornton Boulevard, Fremont, CA 94536

Phone: 510-714-2672

Client: \*\* same as Property Owner \*\*

Contact: Daniel Villanueva

Phone: 209-467-1006  
Cell: 209-601-3541

Receipt Number: WR2013-0390 Payer Name : Robert Marty  
Total Due: \$265.00  
Total Amount Paid: \$265.00  
Paid By: VISA PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Geo Probes-Injection Points - 52 Boreholes

Driller: Advanced GeoEnvironmental Inc. - Lic #: 680227 - Method: DPcpt

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0845	10/10/2013	01/20/2014	52	1.25 in.	15.00 ft

### Specific Work Permit Conditions

1. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and

## Alameda County Public Works Agency - Water Resources Well Permit

all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Inject borehole and backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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# **APPENDIX B**





**Advanced  
GeoEnvironmental, Inc.**

837 Shaw Road, Stockton, CA 95215  
(209) 467-1006 FAX: (209) 467-1118

**BORING LOG**

BOREHOLE NO.: **B11**

TOTAL DEPTH: **15 FEET**

Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
Rig/Auger Type: Geoprobe 5400/ 1.25" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 22 October 2013

Notes: B11 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling  
☑ Water level in completed well  
Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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**Advanced  
GeoEnvironmental, Inc.**

837 Shaw Road, Stockton, CA 95215  
(209) 467-1006 FAX: (209) 467-1118

**BORING LOG**

BOREHOLE NO.: **B12**  
TOTAL DEPTH: **15 FEET**

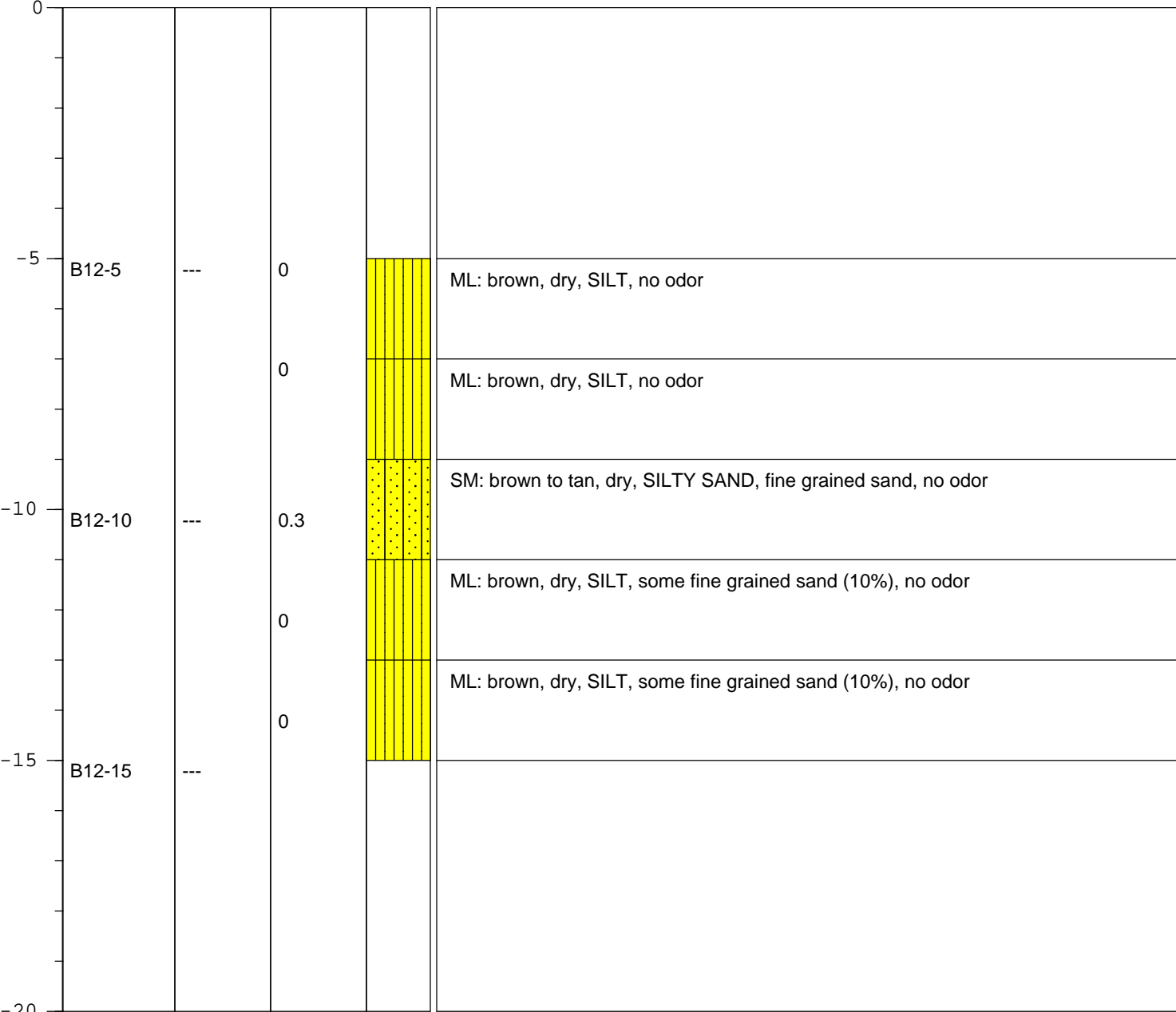
Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
Rig/Auger Type: Geoprobe 5400/ 1.25" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 22 October 2013

Notes: B12 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling  
☑ Water level in completed well  
Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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**Advanced  
GeoEnvironmental, Inc.**

837 Shaw Road, Stockton, CA 95215  
(209) 467-1006 FAX: (209) 467-1118

**BORING LOG**

BOREHOLE NO.: **B13**

TOTAL DEPTH: **15 FEET**

Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

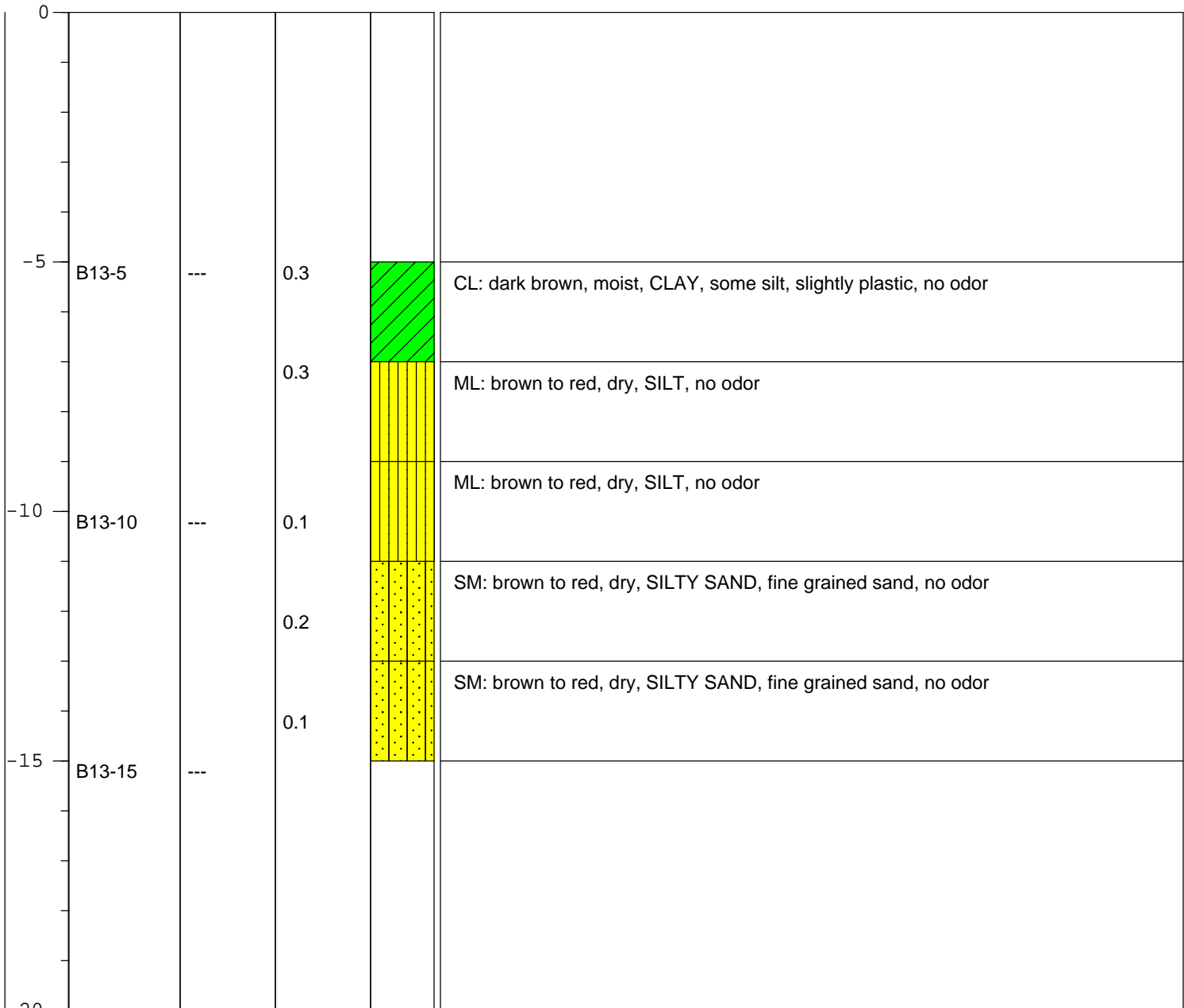
Drilling Co.: AGE  
Rig/Auger Type: Limited Access Probe Rig/ 0.75" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 22 October 2013

Notes: B13 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling  
☑ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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**Advanced  
GeoEnvironmental, Inc.**

837 Shaw Road, Stockton, CA 95215  
(209) 467-1006 FAX: (209) 467-1118

**BORING LOG**

BOREHOLE NO.: **B14**

TOTAL DEPTH: **15 FEET**

Project:	SWISS VALLEY CLEANERS	Drilling Co.:	AGE
Site Location:	1395 MacArthur Boulevard San Leandro, California	Rig/Auger Type:	Limited Access Probe Rig; 0.75" rods
Project No.:	AGE-NC-12-2461	Logged By:	D. Villanueva
		Reviewed By:	W. Little
		Date(s) Drilled:	22 October 2013

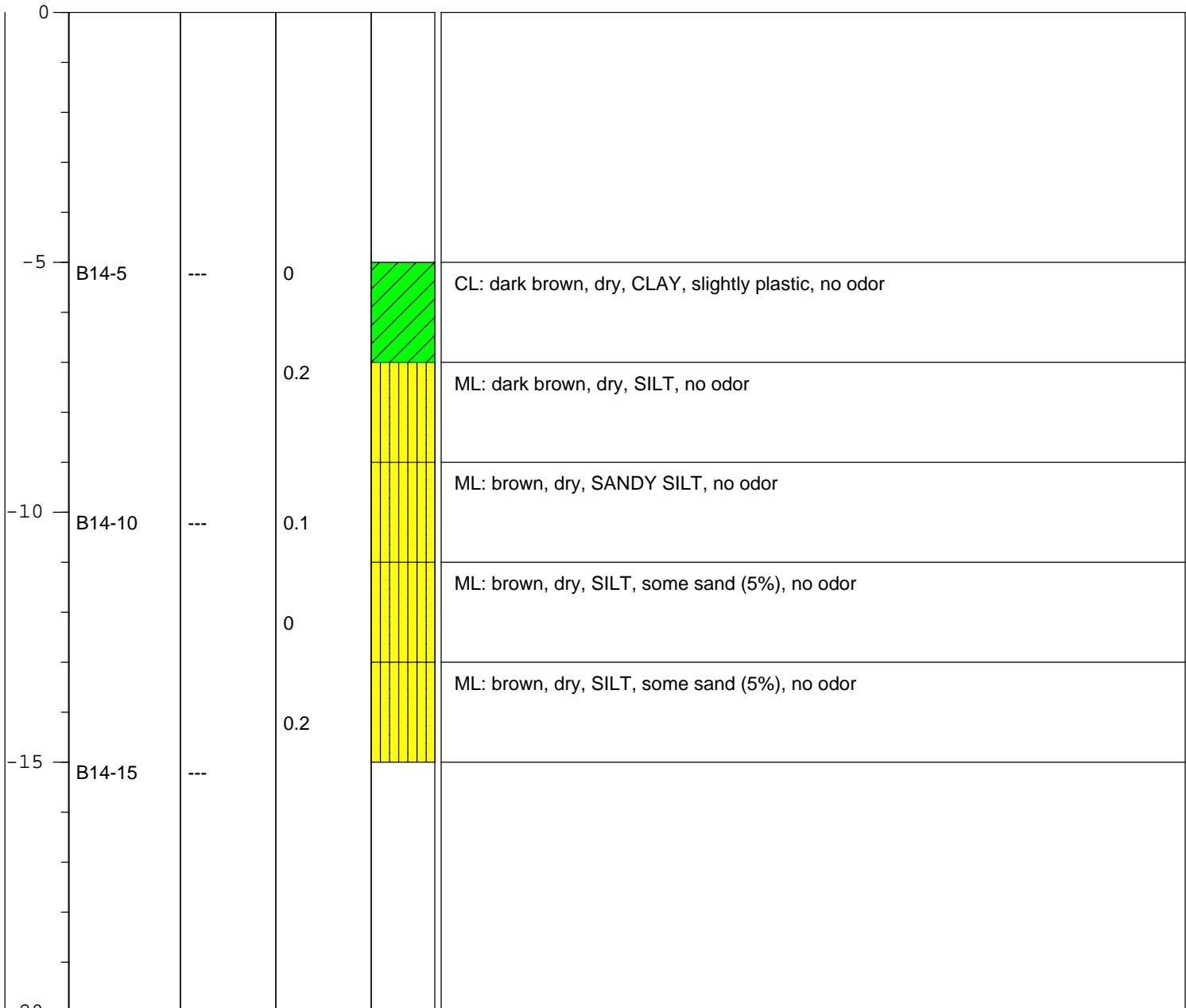
**Notes:** B14 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling

☑ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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**BORING LOG**

BOREHOLE NO.: **B15**  
TOTAL DEPTH: **15 FEET**

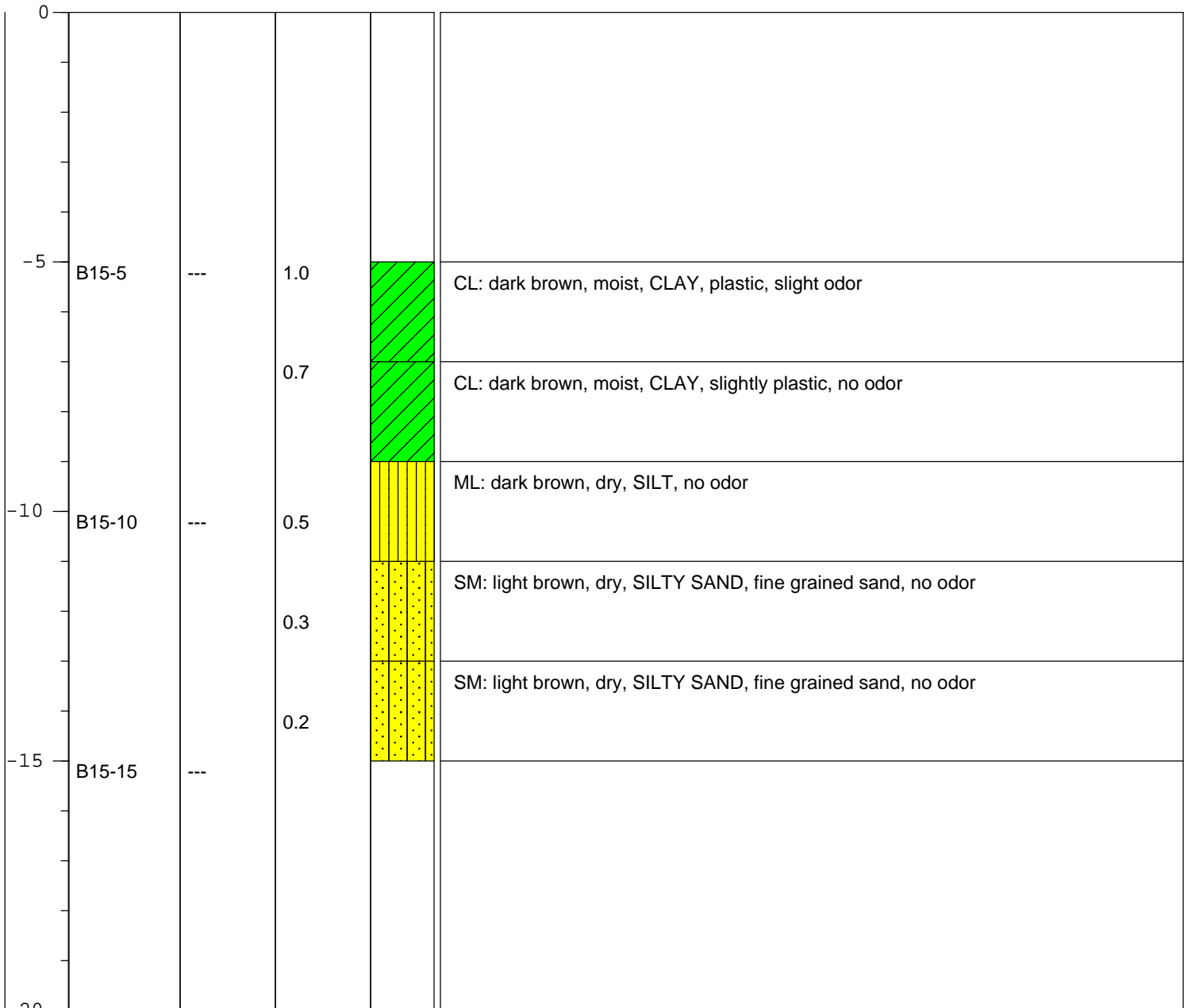
Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
Rig/Auger Type: Limited Access Probe Rig; 0.75" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 22 October 2013

Notes: B15 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☞ Water level during drilling  
☛ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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GeoEnvironmental, Inc.**

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(209) 467-1006 FAX: (209) 467-1118

**BORING LOG**

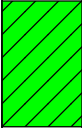
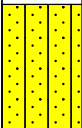
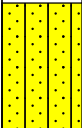
BOREHOLE NO.: **B16**  
TOTAL DEPTH: **15 FEET**

Project:	SWISS VALLEY CLEANERS	Drilling Co.:	AGE
Site Location:	1395 MacArthur Boulevard San Leandro, California	Rig/Auger Type:	Limited Access Probe Rig; 0.75" rods
Project No.:	AGE-NC-12-2461	Logged By:	D. Villanueva
		Reviewed By:	W. Little
		Date(s) Drilled:	23 October 2013

**Notes:** B16 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

- ☒ Water level during drilling
- ☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-------	-----------	----------------	-----------	-------------	---------------------------------

0					
-5	B16-5	---	0		CL: dark brown, dry, CLAY, plastic, no odor
-10	B16-10	---	0.2		SM: brown, dry, SILTY SAND, fine grained sand, no odor
-15	B16-15	---	0.2		SM: brown, dry, SILTY SAND, fine grained sand, no odor
-20					



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**BORING LOG**

BOREHOLE NO.: **B17**  
TOTAL DEPTH: **15 FEET**

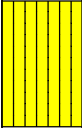
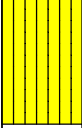
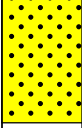
Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
Rig/Auger Type: Limited Access Probe Rig; 0.75" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 23 October 2013

Notes: B17 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

- ☒ Water level during drilling
- ☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-------	-----------	----------------	-----------	-------------	---------------------------------

0					
-5	B17-5	---	0.3		ML: dark brown, dry, SILT, no odor
-10	B17-10	---	0.6		ML: brown, dry, SILT, no odor
-15	B17-15	---	0.2		SP: brown, dry, SAND with gravel (10%), no odor
-20					



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**BORING LOG**

BOREHOLE NO.: **B18**  
TOTAL DEPTH: **15 FEET**

Project:	SWISS VALLEY CLEANERS	Drilling Co.:	AGE
Site Location:	1395 MacArthur Boulevard San Leandro, California	Rig/Auger Type:	Limited Access Probe Rig; 0.75" rods
Project No.:	AGE-NC-12-2461	Logged By:	D. Villanueva
		Reviewed By:	W. Little
		Date(s) Drilled:	23 October 2013

**Notes:** B18 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

- ☒ Water level during drilling
- ☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-------	-----------	----------------	-----------	-------------	---------------------------------

0					
-5	B18-5	---	0.4		ML: brown, dry, SILT, no odor
-10	B18-10	---	0.7		ML: brown, dry, SILT, no odor
-15	B18-15	---	0		ML: brown, dry, SILT, no odor
-20					





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**BORING LOG**

BOREHOLE NO.: **B19**  
TOTAL DEPTH: **15 FEET**

Project: SWISS VALLEY CLEANERS  
Site Location: 1395 MacArthur Boulevard  
San Leandro, California  
Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
Rig/Auger Type: Limited Access Probe Rig; 0.75" rods  
Logged By: D. Villanueva  
Reviewed By: W. Little  
Date(s) Drilled: 23 October 2013

Notes: B19 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling  
☑ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-------	-----------	----------------	-----------	-------------	---------------------------------

0					
-5	B19-5	---	9.8		ML: dark brown, dry, SILT, no odor
-10	B19-10	---	6.4		ML: brown, dry, SILT, no odor
-15	B19-15	---	0.6		ML: brown dry, SILT, some fine grained sand (15%), no odor
-20					



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**BORING LOG**

BOREHOLE NO.: **B20**

TOTAL DEPTH: **15 FEET**

Project:	SWISS VALLEY CLEANERS	Drilling Co.:	AGE
Site Location:	1395 MacArthur Boulevard San Leandro, California	Rig/Auger Type:	Limited Access Probe Rig; 0.75" rods
Project No.:	AGE-NC-12-2461	Logged By:	D. Villanueva
		Reviewed By:	W. Little
		Date(s) Drilled:	23 October 2013

**Notes:** B20 advanced to 15 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling

☑ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-------	-----------	----------------	-----------	-------------	---------------------------------

0					
-5	B20-5	---	0.4		ML: brown, dry, SILT, no odor
-10	B20-10	---	0.1		ML: light brown, dry, SILT, no odor
-15	B20-15	---	0.1		ML: light brown, dry, SILT, no odor
-20					



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**BORING LOG**

BOREHOLE NO.: **B21**

TOTAL DEPTH: **10 FEET**

Project: SWISS VALLEY CLEANERS  
 Site Location: 1395 MacArthur Boulevard  
 San Leandro, California  
 Project No.: AGE-NC-12-2461

Drilling Co.: AGE  
 Rig/Auger Type: Hand Auger  
 Logged By: D. Villanueva  
 Reviewed By: W. Little  
 Date(s) Drilled: 24 October 2013

Notes: B21 advanced to 10 feet bsg. Boring backfilled to surface grade with Portland cement.

☒ Water level during drilling  
 ☑ Water level in completed well  
 Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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0					
-5	B21-5	---	0		ML: brown, saturated, CLAY, plastic, no odor
-10	B21-10	---	0		ML: brown, saturated, SILT, some sand (10%), fine grained sand, no odor
-15					
-20					

# **APPENDIX C**



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		Syringe Blank	Syringe Blank	Syringe Blank	Syringe Blank	VP-1	VP-1	VP-1	VP-2
SAMPLE DEPTH (feet):						5.0	5.0	5.0	5.0
PURGE VOLUME:						1	3	10	3
COLLECTION DATE:		10/15/13	10/16/13	10/17/13	10/18/13	10/15/13	10/15/13	10/15/13	10/15/13
COLLECTION TIME:		09:48	07:33	07:50	08:54	11:11	11:34	11:58	12:22
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1	1
	RL								
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Chloroform</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	nd	nd	nd	nd	33000	33000	33000	27000
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		94%	90%	100%	89%	100%	103%	91%	108%
Surrogate Recovery (Toluene-d8)		94%	91%	98%	92%	102%	101%	94%	112%
Surrogate Recovery (1,4-BFB)		123%	126%	130%	127%	138%	133%	123%	137%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:	VP-3	VP-4	VP-5	VP-6	VP-7	VP-7 dup	VP-8	VP-9
SAMPLE DEPTH (feet):	3.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:	3	3	3	3	3	3	3	3
COLLECTION DATE:	10/15/13	10/15/13	10/15/13	10/15/13	10/15/13	10/15/13	10/15/13	10/16/13
COLLECTION TIME:	13:20	14:00	14:45	15:35	16:15	16:15	17:10	08:30
DILUTION FACTOR (VOCs):	1	1	1	1	1	1	1	5
	RL							
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
<b>Chloroform</b>	100	nd	nd	240	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	13000	43000	4400	36000	39000	37000	67000 *
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		96%	91%	96%	94%	108%	97%	90%
Surrogate Recovery (Toluene-d8)		100%	96%	100%	96%	110%	101%	93%
Surrogate Recovery (1,4-BFB)		131%	124%	134%	126%	138%	138%	123%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits  
 '\*' Indicates value above calibration of range.

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		VP-10	VP-11	VP-12	VP-13	VP-14	VP-14 dup	VP-15	VP-16
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:		3	3	3	3	3	3	3	3
COLLECTION DATE:		10/16/13	10/16/13	10/16/13	10/16/13	10/16/13	10/16/13	10/16/13	10/16/13
COLLECTION TIME:		08:54	09:56	10:53	11:20	12:13	12:13	13:55	14:55
DILUTION FACTOR (VOCs):		1	5	5	5	5	5	5	5
	RL								
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Chloroform</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	54000 *	110000	95000	80000	55000	57000	83000	110000
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	84%	104%	95%	94%	107%	99%	100%
Surrogate Recovery (Toluene-d8)		108%	87%	104%	97%	100%	108%	98%	100%
Surrogate Recovery (1,4-BFB)		72%	116%	137%	132%	130%	136%	136%	136%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits  
 '\*\*' Indicates value above calibration of range.

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		VP-17	VP-18	VP-19	VP-21	VP-22	VP-23	VP-24	VP-25
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0
PURGE VOLUME:		3	3	3	3	3	3	3	3
COLLECTION DATE:		10/16/13	10/16/13	10/16/13	10/17/13	10/17/13	10/17/13	10/17/13	10/17/13
COLLECTION TIME:		15:10	15:50	16:10	08:35	09:25	09:05	11:09	11:31
DILUTION FACTOR (VOCs):		5	5	5	5	5	5	10	10
	RL								
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Chloroform</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	80000	95000	76000	100000	110000	77000	400000	190000
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		107%	89%	94%	94%	90%	103%	91%	97%
Surrogate Recovery (Toluene-d8)		107%	94%	100%	122%	93%	109%	90%	100%
Surrogate Recovery (1,4-BFB)		139%	130%	135%	139%	131%	140%	124%	135%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon





Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		VP-26	VP-27	VP-28	VP-29	VP-30	VP-31	VP-32	VP-32 dup
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:		3	3	3	3	3	3	3	3
COLLECTION DATE:		10/17/13	10/17/13	10/17/13	10/17/13	10/17/13	10/18/13	10/18/13	10/18/13
COLLECTION TIME:		12:02	12:24	13:30	13:55	14:24	09:35	09:58	09:58
DILUTION FACTOR (VOCs):		10	10	10	10	10	10	10	10
	RL								
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Chloroform</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	84000	100000	110000	50000	1200	100000	2500	2100
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		87%	92%	95%	96%	94%	95%	89%	88%
Surrogate Recovery (Toluene-d8)		89%	93%	101%	97%	97%	98%	95%	90%
Surrogate Recovery (1,4-BFB)		120%	128%	139%	129%	138%	133%	132%	129%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
 Swiss Valley Cleaners  
 1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:	VP-33	VP-34	VP-35	VP-36	VP-37	VP-38	VP-39	VP-40	
SAMPLE DEPTH (feet):	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
PURGE VOLUME:	3	3	3	3	3	3	3	3	
COLLECTION DATE:	10/18/13	10/18/13	10/18/13	10/18/13	10/18/13	10/18/13	10/18/13	10/18/13	
COLLECTION TIME:	10:45	11:11	11:33	11:59	12:23	12:45	13:08	13:56	
DILUTION FACTOR (VOCs):	1	1	1	1	1	1	1	1	
	RL								
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd	
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd	
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd	
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd	
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd	
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd	
<b>Chloroform</b>	100	nd	nd	nd	nd	nd	nd	nd	
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd	
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd	
Benzene	80	nd	nd	nd	nd	nd	nd	nd	
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	nd	220	
Toluene	200	nd	nd	nd	nd	nd	nd	nd	
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd	
<b>Tetrachloroethene</b>	100	18000	20000	14000	5900	14000	37000	24000	17000
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd	nd
Isopropyl Alcohol (IPA - leak check)	10000	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		85%	83%	83%	86%	82%	90%	86%	83%
Surrogate Recovery (Toluene-d8)		95%	88%	106%	106%	99%	99%	97%	105%
Surrogate Recovery (1,4-BFB)		132%	124%	137%	138%	132%	139%	137%	136%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Advanced GeoEnvironmental, Inc. Project # AGE-12-2461  
Swiss Valley Cleaners  
1395 MacArthur Boulevard, San Leandro, California

TEG Project #31015F

CALIBRATION DATA - Calibration Check Compounds

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	10.0	10.0	10.0	10.0	10.0	10.0

Continuing Calibration - Midpoint

10/15/13	10.1 101%	9.0 90%	10.5 105%	10.8 108%	10.7 107%	9.5 95%
10/16/13	9.2 92%	9.1 91%	9.7 97%	9.8 98%	10.1 101%	8.6 86%
10/17/13	9.4 94%	8.9 89%	10.5 105%	10.3 103%	10.5 105%	8.6 86%
10/18/13	11.0 110%	10.5 105%	10.8 108%	9.8 98%	11.6 116%	10.7 107%

# **APPENDIX D**

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/22/13 @ 09:33 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-1	1310-126-2	1310-126-3	Method	Units:	Detection Limit
Client Sample ID:	B11-5	B11-10	B11-15			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-1 B11-5	1310-126-2 B11-10	1310-126-3 B11-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.009	0.011	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	101	102	102	70-130
1,2 Dichloromethaned4	102	102	105	70-130
Toluene-d8	91	93	91	70-130
Bromofluorobenzene	104	104	107	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/22/13 @ 10:20 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-4	1310-126-5	1310-126-6	Method	Units:	Detection Limit
Client Sample ID:	B12-5	B12-10	B12-15			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-4 B12-5	1310-126-5 B12-10	1310-126-6 B12-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.005	0.011	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	103	102	97	70-130
1,2 Dichloromethaned4	103	102	103	70-130
Toluene-d8	92	93	92	70-130
Bromofluorobenzene	103	101	101	70-130



**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/22/13 @ 11:40 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-7	1310-126-8	1310-126-9	Method	Units:	Detection
Client Sample ID:	B13-5	B13-10	B13-15			Limit
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-7 B13-5	1310-126-8 B13-10	1310-126-9 B13-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.008	0.006	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	101	102	105	70-130
1,2 Dichloromethaned4	101	102	104	70-130
Toluene-d8	92	91	90	70-130
Bromofluorobenzene	101	108	101	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/22/13 @ 13:20 p.m.  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-10	1310-126-11	1310-126-12	Method	Units:	Detection
Client Sample ID:	B14-5	B14-10	B14-15			Limit
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-10 B14-5	1310-126-11 B14-10	1310-126-12 B14-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.015	0.008	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	102	101	104	70-130
1,2 Dichloromethaned4	101	101	104	70-130
Toluene-d8	96	89	92	70-130
Bromofluorobenzene	107	102	101	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/22/13 @ 14:35 p.m.  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-13	1310-126-14	1310-126-15	Method	Units:	Detection Limit
Client Sample ID:	B15-5	B15-10	B15-15			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-13 B15-5	1310-126-14 B15-10	1310-126-15 B15-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.030	0.018	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	102	101	101	70-130
1,2 Dichloromethaned4	103	101	104	70-130
Toluene-d8	89	93	92	70-130
Bromofluorobenzene	101	108	102	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/23/13 @ 10:00 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-16	1310-126-17	1310-126-18	Method	Units:	Detection Limit
Client Sample ID:	B16-5	B16-10	B16-15			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-16 B16-5	1310-126-17 B16-10	1310-126-18 B16-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.020	0.010	0.006	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	103	101	102	70-130
1,2 Dichloromethaned4	103	102	104	70-130
Toluene-d8	91	93	91	70-130
Bromofluorobenzene	102	101	101	70-130



**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/23/13 @ 10:55 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

<b>Laboratory ID:</b>	1310-126-19	1310-126-20	1310-126-21	<b>Method</b>	<b>Units:</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	B17-5	B17-10	B17-15			
<b>Dilution</b>	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID: Client Sample ID:	1310-126-19 B17-5	1310-126-20 B17-10	1310-126-21 B17-15	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.018	0.010	0.011	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	102	102	101	70-130
1,2 Dichloromethaned4	102	101	104	70-130
Toluene-d8	91	90	92	70-130
Bromofluorobenzene	104	99	103	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/23/13 @ 11:45 am  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-22	1310-126-23	1310-126-25	Method	Units:	Detection Limit
Client Sample ID:	B18-5	B18-10	B19-5			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID:	1310-126-22	1310-126-23	1310-126-25	Method	Units	Detection Limit
Client Sample ID:	B18-5	B18-10	B19-5			
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	102	102	102	70-130
1,2 Dichloromethaned4	101	103	102	70-130
Toluene-d8	94	95	96	70-130
Bromofluorobenzene	102	101	109	70-130

**CTEL Project No:** CT214-1310126  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Daniel Villanueva

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID:  
**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/23/13 @ 13:10 p.m.  
**Date Received:** 10/24/13 @ 09:00 am  
**Date Analyzed:** 10/24/13 – 10/30/13

**Matrix:** Soil

Laboratory ID:	1310-126-26	1310-126-28	1310-126-29	Method	Units:	Detection
Client Sample ID:	B19-10	B20-5	B20-10			Limit
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005


CTEL Project No: CT214-1310126

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID:	1310-126-26	1310-126-28	1310-126-29	Method	Units	Detection Limit
Client Sample ID:	B19-10	B20-5	B20-10			
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
m,p-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	102	103	102	70-130
1,2 Dichloromethaned4	102	103	102	70-130
Toluene-d8	96	92	95	70-130
Bromofluorobenzene	104	103	104	70-130

  
Greg Tejirian  
Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B  
 Matrix: Soil  
 Date Analyzed: 10/24/2013  
 Date Extracted: 10/24/2013

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Rec.	Limits RPD	RPD
	MS	MSD		MS	MSD			
1,1-Dichloroethene	47	49	50	94	96	70-130	20	2
Benzene	45	47	50	90	94	70-130	20	4
Trichloroethene	49	49	50	98	98	70-130	20	0
Toluene	46	47	50	92	94	70-130	20	2
Chlorobenzene	43	46	50	86	92	70-130	20	6
m,p-Xylenes	89	95	100	89	95	70-130	20	6

MS: Matrix Spike  
 MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B  
 Matrix: Soil  
 Date Analyzed: 10/30/2013  
 Date Extracted: 10/30/2013

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Rec.	Limits RPD	RPD
	MS	MSD		MS	MSD			
1,1-Dichloroethene	44	45	50	88	90	70-130	20	2
Benzene	48	48	50	96	96	70-130	20	0
Trichloroethene	52	53	50	104	106	70-130	20	2
Toluene	53	53	50	106	106	70-130	20	0
Chlorobenzene	47	45	50	94	90	70-130	20	4
m,p-Xylenes	102	104	100	102	104	70-130	20	2

MS: Matrix Spike

MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5











# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
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## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-1310137

**Client Name:** Advanced Geo Environmental, Inc.

837 Shaw Road  
 Stockton, CA 95215

**Phone:**(209) 467-1006

**Fax:** (209) 467-1118

**Attention:** Mr. Daniel Villanueva

**Project ID:** Global ID:

**Project Name:** Swiss Valley Cleaners

**Date Sampled:** 10/24/13 @ 10:00 am

**Matrix:** Soil

**Date Received:** 10/25/13 @ 09:00 am

**Date Analyzed:** 10/25/13

Laboratory ID:	1310-137-1	1310-137-2	Method	Units:	Detection Limit
<b>Client Sample ID:</b>	B21-5	B21-10			
<b>Dilution</b>	1	1			
Dichlorodifluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005


CTEL Project No: CT214-1310137

Project ID: Global ID:  
Project Name: Swiss Valley Cleaners

Laboratory ID:	1310-137-1	1310-137-2	Method	Units	Detection Limit
Client Sample ID:	B21-5	B21-10			
1,2-Dibromoethane(EDB)	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	0.010	0.009	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	ND	EPA 8260B	mg/Kg	0.1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	105	106	70-130
1,2 Dichloromethaned4	101	102	70-130
Toluene-d8	90	91	70-130
Bromofluorobenzene	94	100	70-130

  
Greg Tejrjian  
Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B  
 Matrix: Soil  
 Date Analyzed: 10/25/2013  
 Date Extracted: 10/25/2001

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control	Limits	RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	48	46	50	96	92	70-130	20	4
Benzene	43	45	50	86	90	70-130	20	4
Trichloroethene	45	45	50	90	90	70-130	20	0
Toluene	47	45	50	94	90	70-130	20	4
Chlorobenzene	44	42	50	88	84	70-130	20	4
m,p-Xylenes	87	83	100	87	83	70-130	20	4

MS: Matrix Spike

MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

