

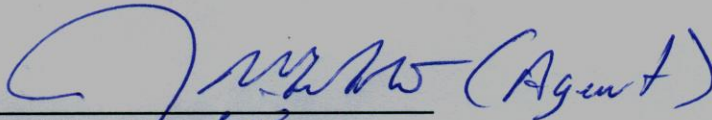
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Indoor Air Sampling Report - Second Quarter 2014

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

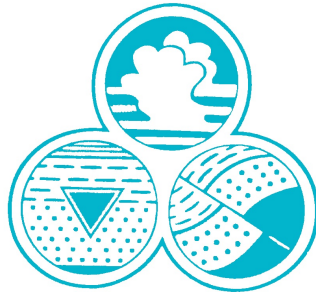
Indoor Air Sampling Report - Second Quarter 2014
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

01 July 2014
AGE Project No. 12-2461

PREPARED FOR:

Mr. William Mathews Brooks
ARDENBROOK, INC.

PREPARED BY:



Advanced GeoEnvironmental, Inc.

Stockton • San Francisco Bay Area • Monterey • Los Angeles • Spokane • Reno •

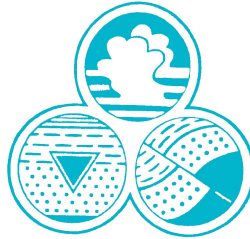
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A handwritten signature in blue ink, appearing to read "Daniel Villanueva", is written over a horizontal line.

Daniel J. Villanueva
Project Geologist

PROJECT MANAGER:

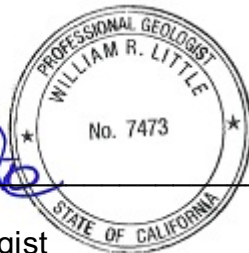
A handwritten signature in blue ink, appearing to read "Daniel Villanueva", is written over a horizontal line.

Daniel J. Villanueva
Project Geologist

REVIEWED BY:

A handwritten signature in blue ink, appearing to read "William Little", is written over a horizontal line.

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



Indoor Air Sampling Report – Second Quarter 2014
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

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Indoor Air Sampling Report – Second Quarter 2014
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

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Indoor Air Sampling Report – Second Quarter 2014
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

1.0. INTRODUCTION

At the request of Mr. William Mathews Brooks of Ardenbrook, Inc., Advanced GeoEnvironmental, Inc. (AGE) has prepared this, *Indoor Air Sampling Report – Second Quarter 2014*, for the above-referenced site. The scope of work included the collection of indoor air quality samples, during two separate sampling events, from the subject site (1395 MacArthur Boulevard) and adjacent suites (1377/1383/1369 MacArthur Boulevard) of the Estudillo Shopping Center located in San Leandro, California.

The location of the site is illustrated in Figure 1. A detailed plan of the site, as well as a regional site plan showing all facilities of the Estudillo Shopping Center, is included in Figures 2 and 3.

2.0. PROCEDURES

Field work was performed utilizing procedures provided in the Interstate Technology Regulatory Council (ITRC)-prepared, *Vapor Intrusion Pathway: A Practical Guideline* dated January 2007 and the Department of Toxic Substance Control (DTSC)-prepared, *Guidance For The Evaluation And Mitigation Of Subsurface Vapor Intrusion To Indoor Air - Final (Vapor Intrusion Guidance)* dated October 2011. Additionally, the field work was performed in accordance with procedures outlined in the AGE-prepared, *Indoor Air Quality Sampling Work Plan*, dated 04 February 2014, and in accordance with Alameda County Environmental Health Services (ACHS) directive letter, dated 11 March 2014 (Appendix A).

2.1. PRE-FIELD WORK PREPARATIONS

On 10 April and 08 May 2014, prior to the start of indoor air sample collection, all suites sampled (1369 [May sampling event only; Dance Fitness & Aerobic Jazzercise], 1377 [Estudillo Plaza Optometry], 1383 [Solthea Salon & Beauty Supply] and 1395 MacArthur Boulevard [Former Swiss Valley Cleaners]) were inspected and an organic vapor meter (OVM) equipped with a photo-ionization detector (PID) was utilized to locate indoor contaminant sources and products that could potentially bias the sampling results (Figure 3). Several products with chemicals of concern were identified in the 1383 MacArthur Boulevard (Solthea Beauty Supply and Salon) facility and are identified on the building screening form, which has been included in Appendix B. Furthermore, alcohol and other miscellaneous cleaning products were identified in the 1377 MacArthur Boulevard (Estudillo Plaza Optometry) facility. All chemicals identified in the subject unit (1395 MacArthur Boulevard) were found to be sealed and away from the

sampling area in the middle of the unit. Organic vapor measurements and chemicals of concern identified during the building surveys are included in Appendix B.

Prior to the start of indoor air sample collection, a Building Survey Form was completed. The Building Survey Form is presented in Appendix C.

2.2. INDOOR AIR SAMPLING

During the April 2014 indoor air sampling event, passive integrated air samples were collected from inside the suites of 1377, 1383 and 1395 MacArthur Boulevard; an ambient air sampling container was deployed outside of the 1395 MacArthur Boulevard suite, but was found to be stolen upon arrival after the 24-hour sampling period.

A second sampling event was conducted on 08 May 20, 2014 inside the suites of 1369, 1377, 1383 and 1395 MacArthur Boulevard. Additionally during the sampling event an ambient air sampling container was deployed and locked up outside of the 1395 MacArthur Boulevard suite.

During the sampling events one single 6-liter summa canister was deployed in the center or rear of each of the facilities in areas lacking public access. One ambient air sample was also collected on top of the storage container located outside of the 1395 MacArthur suite.

The sampling inlet on each canister was connected to a mass flow controller containing a particulate filter; the flow controllers were calibrated to a flow rate of 3.8 milliliters/minute (ml/min) in order to collect air samples over a 24-hour period. Each canister's initial vacuum was measured and recorded to ensure the initial vacuum was greater than 25 inches of mercury (in/Hg); Initial vacuum's were measured between 28 and 30 in/Hg prior to air sample collection.

Upon can retrieval all canisters were observed with residual vacuum remaining in the cans during each of the two sampling events; final vacuum measurements were observed between 1 and 5 in/Hg.

The air samples were transported by AGE under chain-of-custody procedures to McCampbell Analytical Inc. (MAI) located in Pittsburg, California; the CDPH ELAP Certification number is 1644. The indoor air samples were analyzed for VOCs in accordance with EPA Method TO-15 (Appendix D).

3.0. FINDINGS

A total of three indoor air samples (IA-1377 MacArthur, IA-1383 MacArthur and IA-1395 MacArthur) were collected at the site during the 10 April 2014 sampling event. A total of four indoor (IA-1369 MacArthur, IA-1377 MacArthur, IA-1383 MacArthur and IA-1395 MacArthur) and one outdoor ambient sample (Outside 1395 MacArthur) were collected during the 08 May 2014 sampling event. All samples were analyzed for VOCs in accordance with EPA method TO-15. Results are summarized below.

3.1. INDOOR AIR SAMPLES, 10 APRIL 2014

- Acetone was detected in all three indoor air samples at a maximum concentration of 3,600 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$; IA-1383 MacArthur);
- Acrolein was detected in only the sample collected from 1395 MacArthur at a concentration of $2.2 \mu\text{g}/\text{m}^3$;
- Benzene was detected in all three indoor air samples and at a maximum concentration of $0.65 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Carbon tetrachloride (CT) was detected in all three of the indoor air samples and at a maximum concentration of $0.41 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);
- Chloroform was detected in all three indoor air samples and at a maximum concentration of $0.51 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Chloromethane was detected in two of the three samples at concentrations of $0.54 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur) and $0.60 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur), respectively;
- 1,2-dibromoethane (EDB) was detected in only the sample collected from 1383 MacArthur at concentration of $0.011 \mu\text{g}/\text{m}^3$;
- 1,4-dichlorobenzene was detected in all three indoor air samples and at a maximum concentration of $0.10 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- Dichlorodifluoromethane (DCDFM) was detected in two of the three indoor air samples at concentrations of $1.8 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur) and $2.0 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur), respectively;
- 1,2-dichloroethane (1,2-DCA) was detected in all three indoor air samples at a maximum concentration of $0.76 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- 1,2-dichloropropane was detected in two of the three samples at concentrations of $0.025 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur) and $0.016 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur), respectively;

- Ethyl acetate (EA) was detected in all three of the indoor air samples at a maximum concentration $260 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Ethylbenzene was detected in two of the three samples at concentrations of $0.49 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur) and $0.69 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively;
- Isopropyl Alcohol (IPA) was detected in two of the three samples at concentrations of $92 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur) and $180 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively;
- Methylene chloride (MC) was detected in all three indoor air samples and at a maximum concentration of $1.9 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);
- Methyl methacrylate (MM) was detected in all three indoor air samples and at a maximum concentration of $680 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Naphthalene was detected in all three indoor air samples and at a maximum concentration of $0.34 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);
- Styrene was detected in two of the three samples at concentrations of $0.58 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur) and $0.44 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively;
- Tetrachloroethylene (PCE) was detected in all three indoor air samples collected and at a maximum concentration of $12 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);
- Toluene was detected in all three indoor air samples collected and at a maximum concentration of $11 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Trichloroethene (TCE) was detected in all three indoor air samples and at a maximum concentration of $0.057 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Trichlorofluoromethane (TCFM) was detected in two of the three indoor air samples at concentrations of $0.78 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur) and $1.4 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur), respectively; and
- Total xylenes were detected in all three indoor air samples at a maximum concentration of $3.0 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur).

3.2. INDOOR AIR SAMPLES, 08 MAY 2014

- Acetone was detected in all four indoor air samples at a maximum concentration of $5,200 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Benzene was detected in all four indoor air samples and at a maximum concentration of $0.69 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);

- CT was detected in all three of the indoor air samples and at a maximum concentration of $0.45 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur and IA-1377 MacArthur);
- Chloroform was detected in all four indoor air samples and at a maximum concentration of $0.68 \mu\text{g}/\text{m}^3$ (IA-1369 MacArthur);
- Chloromethane was detected in three of the four samples at concentrations of $0.67 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), $0.67 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur) and $0.68 \mu\text{g}/\text{m}^3$ (IA-1369 MacArthur), respectively;
- 1,4-dichlorobenzene was detected in all four indoor air samples and at a maximum concentration of $0.37 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- DCDFM was detected in three of the four samples indoor air samples at concentrations of $2.1 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), $2.0 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur) and $0.68 \mu\text{g}/\text{m}^3$ (IA-1369 MacArthur), respectively;
- 1,2-DCA was detected in all four indoor air samples at a maximum concentration of $2.2 \mu\text{g}/\text{m}^3$ (IA-1369 MacArthur);
- 1,2-dichloropropane was detected in one of the four samples at a concentration of $0.041 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- EA was detected in all four of the indoor air samples at a maximum concentration $1,600 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Ethylbenzene was detected in one of the four samples at a concentration of $1.1 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- IPA was detected in three of the four samples at concentrations of $100 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur), $5.9 \mu\text{g}/\text{m}^3$ (IA-1369 MacArthur) and $350 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively;
- MC was detected in three of the four indoor air samples at concentrations of 0.60 (IA-1383 MacArthur), $0.86 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), $1.3 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur), respectively;
- MM was detected in all four indoor air samples and at a maximum concentration of $2,600 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- Naphthalene was detected in all four indoor air samples and at a maximum concentration of $0.38 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur);
- Styrene was detected in two of the four samples at concentrations of $0.73 \mu\text{g}/\text{m}^3$ (IA-1383 MacArthur) and $0.95 \mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively;
- PCE was detected in all four indoor air samples collected and at a maximum concentration of $17 \mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);

- Toluene was detected in all four indoor air samples collected and at a maximum concentration of 21 $\mu\text{g}/\text{m}^3$ (IA-1383 MacArthur);
- TCE was detected in all four indoor air samples and at a maximum concentration of 0.11 $\mu\text{g}/\text{m}^3$ (IA-1395 MacArthur);
- TCFM was detected in three of the four indoor air samples at concentrations of 1.0 $\mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), 1.1 $\mu\text{g}/\text{m}^3$ (IA-1395 MacArthur) and 1.3 $\mu\text{g}/\text{m}^3$ (IA-1369 MacArthur), respectively; and
- Total xylenes were detected in two of the four indoor air samples at concentrations of 1.5 $\mu\text{g}/\text{m}^3$ (IA-1383 MacArthur) and 4.4 $\mu\text{g}/\text{m}^3$ (IA-1377 MacArthur), respectively.

3.3. AMBIENT AIR, 08 MAY 2014

- Acetone was detected at a concentration of 13 $\mu\text{g}/\text{m}^3$;
- Acrolein was detected at a concentration of 2.6 $\mu\text{g}/\text{m}^3$;
- Benzene was detected at a concentration of 0.20 $\mu\text{g}/\text{m}^3$;
- CT was detected at a concentration of 0.47 $\mu\text{g}/\text{m}^3$;
- Chloroform was detected at a concentration of 0.24 $\mu\text{g}/\text{m}^3$;
- Chloromethane was detected at a concentrations of 0.64 $\mu\text{g}/\text{m}^3$;
- 1,4-dichlorobenzne was detected at a concentration of 0.023 $\mu\text{g}/\text{m}^3$;
- DCDFM was detected at a concentration of 2.0 $\mu\text{g}/\text{m}^3$;
- 1,2-DCA was detected at a concentration of 0.067 $\mu\text{g}/\text{m}^3$;
- EA was detected at a concentration 2.1 $\mu\text{g}/\text{m}^3$;
- Naphthalene was detected at a concentration of 0.12 $\mu\text{g}/\text{m}^3$;
- PCE was detected at a concentration of 0.042 $\mu\text{g}/\text{m}^3$;
- Toluene was detected at a concentration of 0.41 $\mu\text{g}/\text{m}^3$;
- TCE was detected at a concentration of 0.014 $\mu\text{g}/\text{m}^3$; and
- TCFM was detected at a concentration of 1.1 $\mu\text{g}/\text{m}^3$.

A summary of analytical results from samples collected during the April and May 2014 sampling events is included in Table 1. The laboratory reports (MAI work order numbers

1404493 and 1405427), quality assurance/quality control report, and chain-of-custody form are included in Appendix D. Laboratory analytical data were uploaded to the State GeoTracker database under confirmation numbers 6265537321 and 2232535660.

4.0. CONCLUSIONS

Based upon indoor air sampling results from samples collected on 10 April and 08 May 2014, AGE concludes:

- PCE was detected in each of the three indoor air samples collected on 10 April 2014 at concentrations above the established San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for air in a commercial setting. PCE was also detected in all four of the samples collected during the 08 May 2014 sampling event, with three samples exceeding established ESLs (Table 1);
- Chlorinated hydrocarbon constituent 1,2-DCA was detected in all samples collected during the April and May 2014 sampling events. 1,2-DCA concentrations detected in the 1377/1383 units slightly exceed established ESL for 1,2-DCA (Table 1);
- Naphthalene was detected in all samples collected (indoor and ambient outdoor) collected during the April and May 2014 investigation. Only two of the samples collected during the sampling events exceed established ESLs for the constituent. However, concentrations detected in the ambient air sample were similar to those detected in all indoor air samples, and may indicate that the constituent is naturally occurring in air at the site (Table 1);
- The fumigants CT, DCDFM, TCFM and chloroform were generally reported in each indoor air sample. Additionally, the cleaning solvent acetone and petroleum constituent's benzene, toluene and ethylbenzene and total xylenes were generally reported in each indoor air sample. Only benzene and CT were slightly above ESLs for samples collected during the April and May 2014 2014 sampling events. It should be noted that both constituents were detected at similar levels in the ambient air sample collected during the May 2014, which suggests that the reported concentrations are typically (not naturally) occurring in air at the site and not related to the chlorinated hydrocarbon releases at the site (Table 1).
- Several additional VOCs were detected in the indoor air samples collected in April and May 2014. However, the additional VOCs were detected at concentrations below their respective ESLs and the majority of the VOCs were also detected in the ambient air sample collected concurrently with the indoor air samples.

- Both indoor air and outside ambient air appeared to be slightly impacted by VOCs typically associated with fumigants, cleaners and petroleum operations.
- Based on samples collected in the northern most facility (IA-1369 MacArthur) indoor air impact from the subject release appears to attenuate with distance from the subject facility. Additional indoor air samples do not appear warranted at this time at locations further in distance away from the source (1395 MacArthur) location.

5.0. RECOMMENDATIONS

Based on the findings of the environmental activities performed at the site to date, AGE has the following recommendations:

- Installation of the proposed soil vapor extraction (SVE) and SVE pilot test wells as proposed in the AGE prepared, *Site Assessment and Soil Vapor Extraction Pilot Test Work Plan*, dated 20 January 2014. The pilot test should be conducted without delay to determine the effectiveness of active soil remediation on residual known impact within the subject site facility subsurface. Furthermore medication of the well screens, based on the residual known impact to subsurface sites appears warranted at this time. As such, AGE recommends that all proposed wells in the above referenced work plan be installed to total depths of seven feet below surface grade (bsg) instead of the original 15 bsg. Furthermore, the screened section of the well should be built from the proposed base of 7 feet bsg to a depth of 2 feet bsg. The proposed modified well construction details as proposed are included in Figure 4.
- Modification of the Heating, Ventilation and Air Condition system in all three adjacent units to the subject site with reported detections of constituents of concern above ESLs. The modification to the system should be as follows: four air changes per hour and a minimum of 30% of fresh air introduction into the building during each hour of the day during business hours. Additionally, the HVAC system should be operated in all adjacent units during not non-business hours, so that contaminate rebound does not occur. Following one week of the systems operating on the following schedule, an additional round of sampling should be performed to verify that concentrations have decreased to levels below ESLs.
- Installation of a fresh air fan at the eastern wall of the subject facility and an exhaust fan at the western edge. Installation of the fans is necessary at this time to circulate fresh air and remove impacted air out of the subject facility.

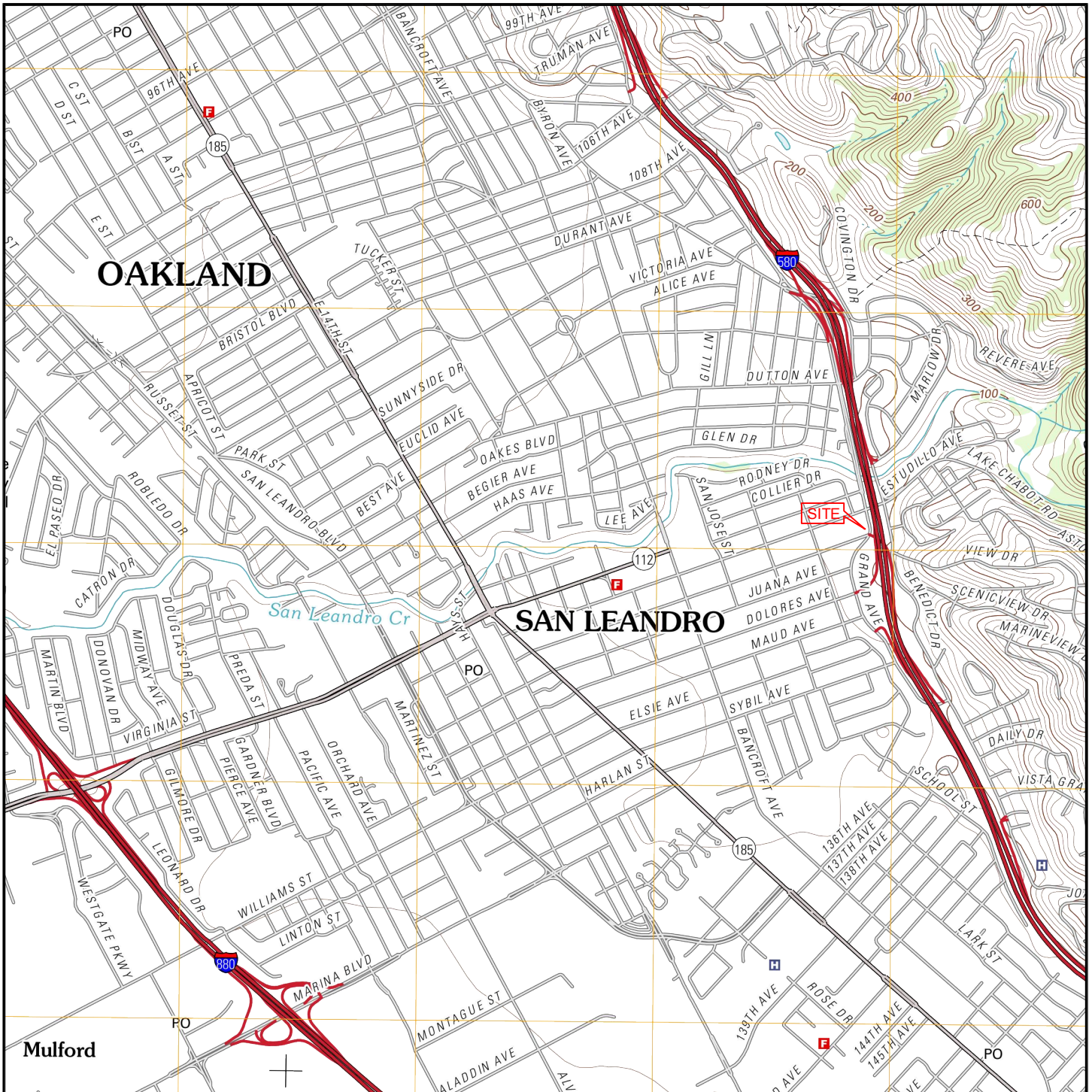
Installations of the fans should aid in reduction of indoor air impact to the adjacent-most facility (1383 MacArthur), which showed elevated impact during indoor air sampling.

- Preparation of a sub-slab, soil-vapor sampling-network installation work plan. At this time it appears necessary to install sub-slab vapor wells to evaluate vapor accumulation below the slab in, at minimum, locations within the subject site facility. The work plan will provide procedures for the well installations and future sampling of the wells.
- Preparation of public notice fact sheets documenting the results of the indoor-air sampling, for each of the four units, indoor air samples that were collected during the April and May 2014 investigations. Face-to-face meetings with each of the tenants should be conducted following ACEHS-approval of the fact sheet.
- Performance of, at minimum, one additional indoor air sampling event during the winter months of 2014.

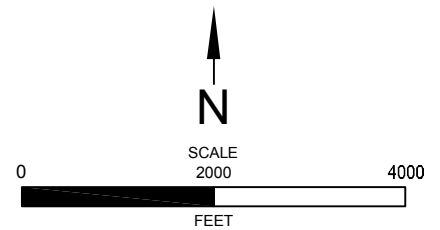
6.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. Findings were based upon analytical results provided by an independent laboratory. Evaluation of the geologic/hydrogeologic conditions at the site for the purpose of this investigation was made from a limited number of available data points (indoor-air) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions, and 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



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

LEGEND

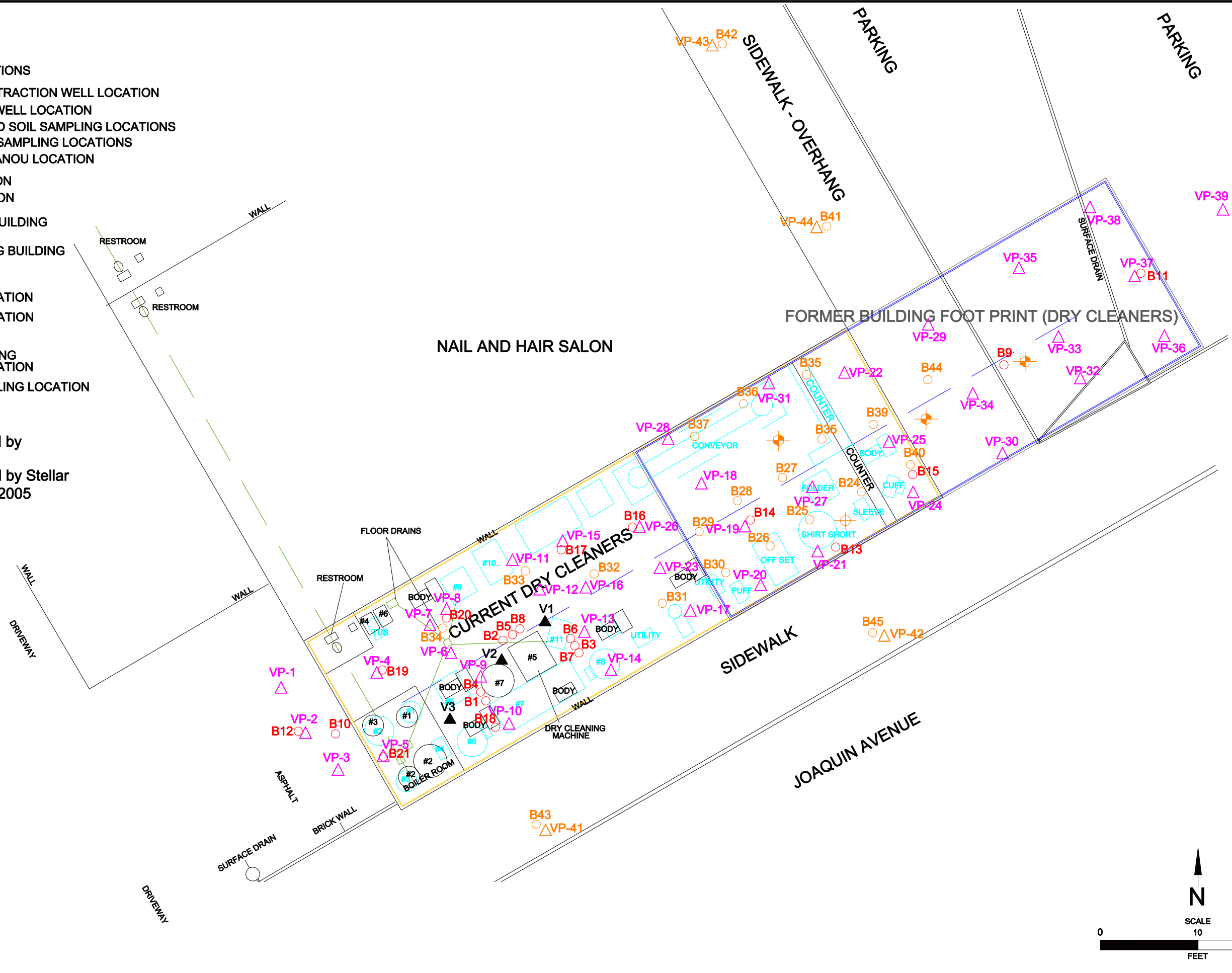
- B9 ○ SOIL BORING LOCATION
- V1 ▲ SOIL VAPOR LOCATIONS
- △ SOIL VAPOR SURVEY LOCATIONS
- ⊕ PROPOSED SOIL VAPOR EXTRACTION WELL LOCATION
- ⊙ PROPOSED OBSERVATION WELL LOCATION
- ⊕ PROPOSED SOIL-VAPOR AND SOIL SAMPLING LOCATIONS
- ⊙ PROPOSED SHALLOW SOIL SAMPLING LOCATIONS
- ◇ SURFACE DRAIN/SEWER CLEANOUT 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
 B38



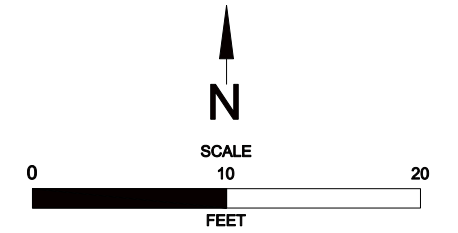
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PROJECT NO. AGE-12-2461
 DATE: OCTOBER 2013

FILE:
 DRAWN BY: MAC

FIGURE: 2

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



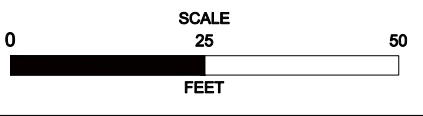


LEGEND

- 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

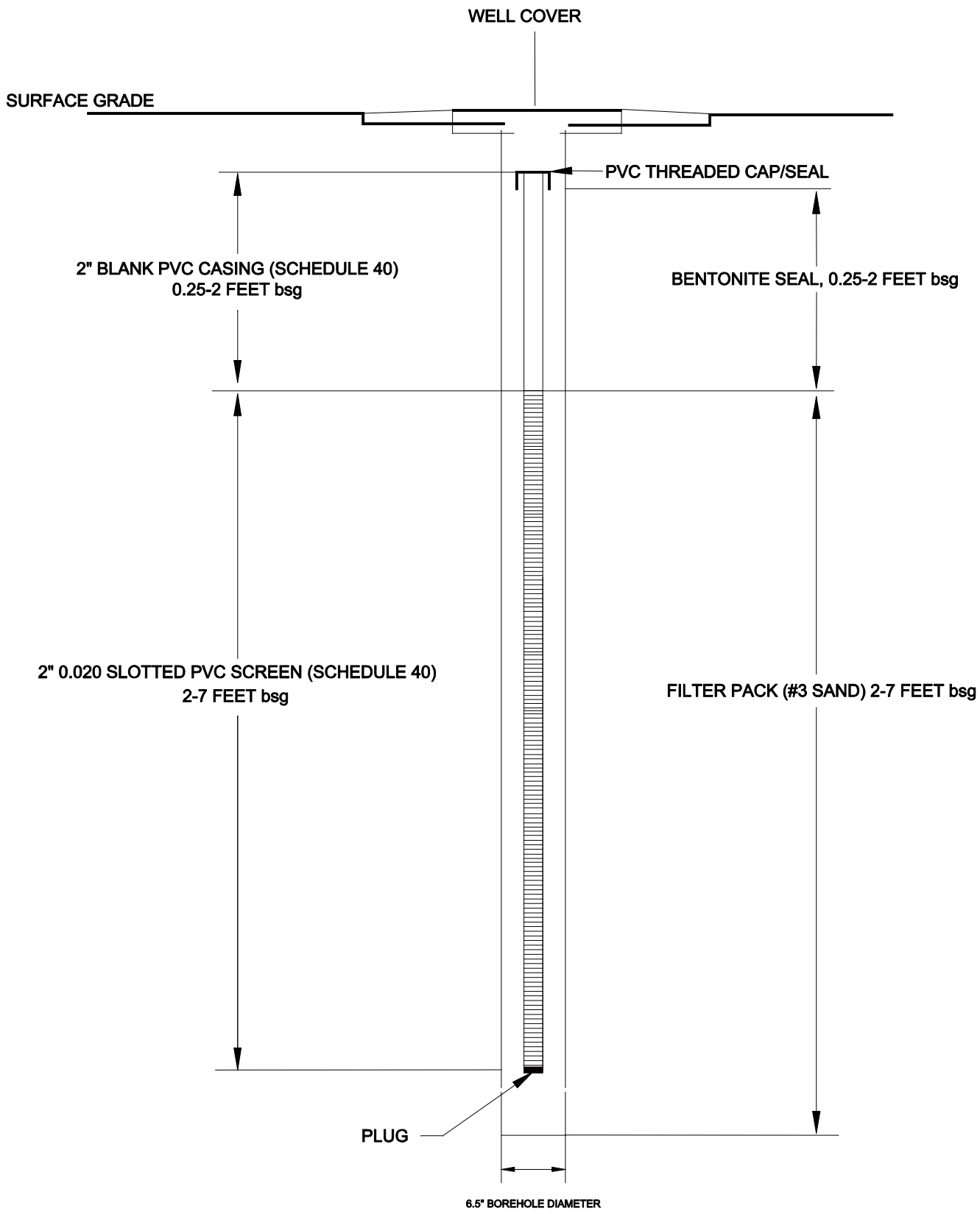
Notes:

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



REGIONAL SITE PLAN
SWISS VALLEY CLEANERS
1395 MACARUTHER BOULEVARD
SAN LEANDRO, CALIFORNIA

| | | |
|---|---------------|---------------------|
| Advanced GeoEnvironmental, Inc. www.advgeoenv.com | | FIGURE: 3 |
| PROJECT NO. AGE-NC-SC | FILE: FILE | |
| DATE: MAY 2014 | DRAWN BY: MAC | |



ALL DEPTHS RELATIVE TO SURFACE GRADE
NOT TO SCALE

PROPOSED SOIL VAPOR WELL
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard
SAN LEANDRO, CALIFORNIA



Advanced
GeoEnvironmental, Inc.
 www.advgeoenv.com

| | | |
|-------------------------|---------------|----------|
| PROJECT NO. AGE-12-2461 | FILE: ESL | FIGURE: |
| DATE: MAY 2014 | DRAWN BY: MAC | 4 |

TABLES

TABLE 1
INDOOR AIR ANALYTICAL RESULTS
SWISS VALLEY CLEANERS
 1395 MacArthur Boulevard,
 San Leandro, California
 (micrograms per cubic meter)

| Sample ID | Date | TO-15 | | | | | | | | | | | | | | | | |
|----------------------|------------|-------|-------|---------|---------|-------------|---------|---------|------|------|------|-------|------|---------------|-------|---------------|-------|------------|
| | | PCE | TCE | 1,2-DCA | EDB | Naphthalene | 1,4-DCB | Acetone | CT | B | T | E | X | Chloromethane | DCDFM | Ethyl Acetate | TCFM | Chloroform |
| IA-1395 MacArthur | 04-10-2014 | 12 | 0.038 | 0.085 | <0.0078 | 0.34 | 0.099 | 46 | 0.41 | 0.52 | 1.4 | <0.44 | 1.2 | 0.60 | 2.0 | 2.7 | 1.4 | 0.19 |
| | 05-08-2014 | 14 | 0.11 | 0.19 | <0.0078 | 0.17 | 0.063 | 75 | 0.44 | 0.27 | 0.74 | <0.44 | <1.3 | 0.67 | 2.0 | 8.8 | 1.1 | 0.22 |
| IA-1383 MacArthur | 04-10-2014 | 11 | 0.057 | 0.43 | 0.011 | 0.26 | 0.096 | 3,600 | 0.38 | 0.65 | 11 | 0.49 | 2.0 | <0.21 | <0.50 | 260 | <0.57 | 0.51 |
| | 05-08-2014 | 17 | 0.055 | 1.1 | <0.0078 | 0.36 | 0.12 | 5,200 | 0.45 | 0.69 | 21 | <0.44 | 1.5 | <0.21 | <0.50 | 1,600 | <0.57 | 0.49 |
| IA-1377 MacArthur | 04-10-2014 | 2.1 | 0.027 | 0.76 | <0.0078 | 0.22 | 0.10 | 110 | 0.39 | 0.54 | 2.8 | 0.69 | 3.0 | 0.54 | 1.8 | 7.4 | 0.78 | 0.18 |
| | 05-08-2014 | 5.1 | 0.033 | 1.1 | <0.0078 | 0.38 | 0.37 | 38 | 0.45 | 0.37 | 6.9 | 1.1 | 4.4 | 0.67 | 2.1 | 4.9 | 1.0 | 0.20 |

TABLE 1
INDOOR AIR ANALYTICAL RESULTS
SWISS VALLEY CLEANERS
 1395 MacArthur Boulevard,
 San Leandro, California
 (micrograms per cubic meter)

| Sample ID | Date | TO-15 | | | | | | | | | | | | | | | | |
|-----------------------------|------------|-------|-------|---------|---------|-------------|---------|---------|------|------|-------|-------|------|---------------|-------|---------------|------|------------|
| | | PCE | TCE | 1,2-DCA | EDB | Naphthalene | 1,4-DCB | Acetone | CT | B | T | E | X | Chloromethane | DCDFM | Ethyl Acetate | TCFM | Chloroform |
| IA-1369 MacArthur | 05-08-2014 | 0.045 | 0.020 | 2.2 | <0.0078 | 0.26 | 0.17 | 18 | 0.47 | 0.60 | 2.1 | <0.44 | <1.3 | 0.68 | 2.0 | 2.2 | 1.3 | 0.25 |
| Outside 1395 MacArthur | 05-08-2014 | 0.042 | 0.014 | 0.067 | <0.0078 | 0.12 | 0.023 | 13 | 0.47 | 0.20 | 0.41 | <0.44 | <1.3 | 0.64 | 2.0 | 2.1 | 1.1 | 0.24 |
| SFBRWCB ESL (Commercial) | | 2.1 | 3.0 | 0.58 | 0.17 | 0.36 | 1.1 | 140,000 | 0.29 | 0.42 | 1,300 | 4.9 | 440 | 390 | - | - | - | 2.3 |

Notes:

SFBRWCB ESL: San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for indoor Air.

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

PCE: Tetrachloroethene

TCE: Trichloroethene

1,2-DCA: 1,2-Dichloroethane

EDB: 1,2-Dibromoethane

1,4-DCB: 1,4-dichlorobenzene

VC: Vinyl Chloride

CT: Carbon Tetrachloride

DCDFM: Dichlorodifluoromethane

TCFM: Trichlorofluoromethane

IPA: Isopropyl Alcohol

B: Benzene; T: Toluene; E: Ethyl-benzene; X: Total Xylenes

*Concentrations denoted with orange fill are above ambient and indoor air screening levels for a commercial setting.

APPENDIX A



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

March 11, 2014

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

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

Dear Mr. Brooks:

Alameda County Environmental Health (ACEH) has reviewed the *Site Assessment and Soil Vapor Extraction Pilot Test Work Plan*, dated January 24, 2014 and the *Indoor Air Quality Sampling Work Plan*, dated February 4, 2014, prepared and submitted on your behalf by Advanced GeoEnvironmental, Inc. (AGE). Thank you for submitting the reports. The January work plan proposed the installation of one soil-vapor extraction (SVE) well, three SVE observation wells, an 8-hour pilot test of the SVE wells, four shallow soil bores to investigate the potential of shallow contamination beneath the site, and four intermediate depth soil bores with shallow vapor sampling to investigate the lateral extent of contamination beneath the site. The February work plan proposed the collection of indoor air quality samples in the subject unit, and the two adjacent units on a seasonal basis (summer / winter). A building screen and inventory are also proposed for the units using standard DTSC forms.

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

TECHNICAL COMMENTS

1. **Subsurface Work Plan Modification** – The referenced subsurface work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests several modifications to the approach. Please submit the results of the investigation in a site investigation report as requested below.
 - a. **Shallow Soil Bores** – Four shallow soil bores are proposed to be installed in order to characterize tetrachlorethene (PCE) concentrations in shallow soil. Each location appears appropriate; however, ACEH requests additional bores in the two areas identified on Figure 3 of the work plan as “vapor phase PCE greater than 100,000 $\mu\text{g}/\text{m}^3$ ”. It appears that the two areas relate to the former building layout, rather than the current building layout. Because the location of equipment in the former building does not appear to be sufficiently known, it appears appropriate to install a series of shallow soil bores to characterize the extent and magnitude of contaminated shallow soil in the former use areas. Thus in the smaller western area it appears prudent that a minimum of two soil bores be installed in the vicinity of VP-11 and VP-16. In the larger eastern area, due to the lack of the known locations of the former equipment, it appears prudent to install additional soil bores on an approximately 5 foot center grid pattern to help determine former use areas and associated contamination, as generally recommended in the April 2012 DTSC *Soil Gas Investigations Advisory*. At a minimum these bores should be in the vicinity of VP-22, VP-25, and VP-31 where higher PCE soil vapor concentrations were detected as these locations may correlate with former use areas. This strategy is consistent with recommendations contained in

the October 2010 *Conducting Contamination Assessment Work at Drycleaning Sites* report issued by the State Coalition for Remediation of Dry Cleaners.

ACEH requests that particular attention to potentially very shallow soil contamination, including base course, or other granular materials, beneath the slab or pavement, be observed, and multiple soil samples and photo-ionization detection (PID) readings be collected within these materials. Consequently, please submit a revised Figure 2, as a Work Plan Addendum, to document proposed revised bore locations, by the date referenced below.

- b. **Intermediate Depth Bores** – Four bores are proposed to be installed to 15 feet below surface grade (bgs) and will be used to provide initial lateral delineation of soil and soil vapor concentrations to the north and south /southwest of likely release areas. ACEH notes that the locations appear appropriate; however, also notes that PCE soil contamination directly beneath the site has not found soil contamination above Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential use, at this commercial property. As described in Technical Comment 1, ACEH thus judges the shallow soil zone and the soil vapor component of these four bores to be more critical components. Consequently, unless significant soil contamination is detected by the onsite mobile lab, ACEH requests that investigative efforts be limited to a depth of five feet bgs, rather than the proposed 15 feet.
- c. **Determination of Lateral Extent of Vapor Contamination** – Initial determination of the lateral extent of PCE soil vapor contamination is proposed with the installation of four lateral soil bores. ACEH is in agreement with this initial determination; however, confirmation of the lateral limits will require the installation of permanent soil vapor probes in order to obtain seasonal repeatable analytical data.
- d. **Shroud Tracer Gas Analysis** – The work plan proposes the use of isopropyl alcohol as a tracer gas in order to determine if outside air has diluted soil vapor concentrations. Please be aware that laboratory analysis for any tracer is required to be collected from inside the shroud as well as from the soil vapor sample for this to be determined. The determination of the lateral as well as the vertical extent of PCE contamination will require this analysis.
- e. **Soil Vapor Extraction Wells** – Four wells are proposed for a soil vapor extraction pilot test (one extraction, three observation wells). Based on telephone conversations, ACEH understands that while one bore has been marked as the vapor extraction well, and three wells have been marked as observation wells, on Figure 2 of the work plan, all wells will be tested as extraction wells during the pilot test. This appears appropriate.

Well screens are proposed to be installed between 2.5 and 12 feet bgs; however, ACEH notes that a soil source has not been found at the site. As such while ACEH judges the pilot test will be useful, significant effort to locate the soil source(s) may provide alternative, more cost effective or appropriate corrective action methods. Consequently, ACEH requests that well design be confirmed and then installed after the results of the soil grid sampling investigation are available. To help expedite site progress, please present the results of the gridding (tabulated data, figures, and bore logs as needed) to ACEH with final extraction well design confirmation.

- f. **Bore Logs** – A review of all bore logs generated to date by AGE indicates that no lithologic details from the upper five feet have been reported either in the text of the report or on submitted bore logs. This is not acceptable for multiple reasons; however, especially because a soil source has not been located beneath the site it is particularly important to focus on this depth interval. Therefore please log the full depth of all bores.

2. **Indoor Air Sampling Work Plan Modifications** – The referenced indoor air work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests several modifications to the approach. Please submit the results of the investigation in a site investigation report as requested below.

- a. **Fact Sheet Modifications** – The Fact Sheet attached to the *Indoor Air Quality Sampling Work Plan*, does not contain sufficient information to inform occupants of the adjacent units of the importance of, and what will happen during, the indoor air sampling work that has been requested. Examples of this type of communication are contained in the March 5, 2012 DTSC *Vapor Intrusion*

Public Participation Advisory (especially pages 76 to 83). Consequently, ACEH requests the submittal of a draft Indoor Air Sampling Fact Sheet intended for units in which indoor air will be sampled, by the date identified below. The draft version will be reviewed quickly for appropriateness.

- b. Fact Sheet Distribution** – After ACEH approval of the draft indoor air fact sheet, please ensure that the indoor air sampling fact sheet be distributed a minimum of 1 week prior to site interviews and observations. Please also ensure that the occupants of the three units have not used chemicals that contain or could confuse PCE vapor sampling results (for example that contain PCE, TCE, or other potential breakdown products etc.) are not used for a minimum of one week prior to the indoor air sampling effort. Finally, please ensure that the heating, ventilation, and air conditioning (HVAC) systems are not operating during the 24 hour sampling events in each unit (*EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites*, December 3, 2013, US EPA).
- c. Indoor Air Sampling** – Two seasonal indoor air sampling events are proposed in the subject unit, and the two adjacent units. Following each event a report is proposed to be generated and submitted to ACEH. ACEH requests that should indoor air results exceed indoor air RWQCB ESLs for commercial facilities, ACEH is to be informed immediately (verbally and in writing) and mitigation measures, such as high speed fan ventilation, be implemented at each occupied unit.
- d. Residual Summa Canister Vacuum** – Please ensure that each vapor sampling summa canister contains a residual vacuum at the end of the sampling period. This ensures the ability to calculate the rate of filling and sampling.
- e. Laboratory Certification** – The referenced work plan proposes to analyze the samples by standard method TO-15 at a State of California Department of Public Health Services-certified laboratory. The California Environmental Laboratory Accreditation Program (ELAP) does not certify toxic organic (TO) methods; however, other accepted accreditation programs do. ACEH requires all vapor analytical work to be conducted by a laboratory that has been accredited by an appropriate program.

TECHNICAL REPORT REQUEST

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

- **March 31, 2014** – Work Plan Addendum (Revised Figure 2, Draft Indoor Air Sampling Fact Sheet)
File to be named: RO3120_WP_ADEND_R_yyyy-mm-dd
- **April 25, 2014** – Results of Indoor Air Sampling
File to be named: RO3120_ANALYT_R_yyyy-mm-dd
- **May 2, 2014** – Results of Soil Gridding
File to be named: RO3120_MISC_R_yyyy-mm-dd
- **June 6, 2014** – Site Investigation Report
File to be named: RO3120_SWI_R_yyyy-mm-dd

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

Mr. William Mathews Brooks
RO0003120
March 11, 2014, Page 4

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

Sincerely,



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

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email,
c=US
Date: 2014.03.11 11:03:22 -07'00'

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Daniel Villanueva, Advanced GeoEnvironmental, Inc, 837 Shaw Road, Stockton, CA 95215
(sent via electronic mail to DVillanueva@advgeoenv.com)

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

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

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements: (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

| | |
|--|--|
| Alameda County Environmental Cleanup Oversight Programs (LOP and SCP) | REVISION DATE: July 25, 2012 |
| | ISSUE DATE: July 5, 2005 |
| | PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010 |
| SECTION: Miscellaneous Administrative Topics & Procedures | SUBJECT: Electronic Report Upload (ftp) Instructions |

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

REQUIREMENTS

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

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

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

APPENDIX B

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Solthea Salon & Beauty Supply
 Address 1383 MacArthur Boulevard,
 City San Leandro,
 Field Investigator Daniel Villanueva Date 4-10-14

| Field Instrument Reading | Measurement Location (Ambient Air, Foundation Opening, or Consumer Product) | If Consumer Product, Potential Volatile Ingredients |
|--------------------------|--|--|
| 1,900 ppb | Counter | Nail Polish, hair Supplies, hair spray acetone, aerosol, ethanol TBA, polyvinyl acetate |
| 1,394 ppb | Waiting Area | Hair products, conditioners hair spray, aerosol, TBA, polyvinyl acetate |
| 1,606 ppb | Entrance | |
| - | Hair Cutting Stations | Disinfectant, hair clipper spray, dog repellent spray, bald spot remover |
| - | Nail Station #1 | nail polish, acetone, hair enamel dryer, Butene, Propane, alcohol, cyclomethicone |
| 5,500 ppb | Nail Station #2; hair dying taking place & nails being done | hair dye, nail polish, acetone & mis. chemicals |
| 2,100 ppb | Foot baths & hair drying station | no chemicals |

Comments: Nail & Hair Products in use during survey; strong
acetone odor present, HVAC not used during
sampling

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Solthea Salon & Beauty Supply
 Address 1383 MacArthur Boulevard
 City San Leandro
 Field Investigator Daniel Villanueva Date 4-10-14

| Field Instrument Reading | Measurement Location (Ambient Air, Foundation Opening, or Consumer Product) | If Consumer Product, Potential Volatile Ingredients |
|--|--|--|
| 3,000 ppb | Hair Washing Sinks | sterilizing agents, blue barbede, dimethyl benzyl ammonium chloride, sodium nitrate, fungicide, germicide, conditioners, hair soap |
| 2,100 ppb | Bathroom | Bleach, pine sol, air freshener, soap, disinfectant |
| - | Chemical Storage Room #1 | closed & locked for duration of sampling |
| Ambient = 3,210 ppb ↓ Near dryas = 3,200 ppb | Storage closet #2 | Shampoos, window paint, pure acetone paint, closed paint can, ammonia, phenylendiamines (tolendiamines), resorcinol, soaps |
| | | 19.9 ppm near acetone |
| 2,143 ppb | Sample Location | Fire extinguisher, insecticide, soap, alcohol, hand sanitizer |

Comments:

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Not Occupied (Former Swiss Valley Cranes)
 Address 1395 MacArthur Boulevard
 City San Leandro
 Field Investigator David Villanueva Date 4-10-14

| Field Instrument Reading | Measurement Location (Ambient Air, Foundation Opening, or Consumer Product) | If Consumer Product, Potential Volatile Ingredients |
|--------------------------|--|--|
| 825 ppb | Front Entrance | none |
| - | chemical storage rack, w0-40 | → laundry soap, ammonia, silicone spray, MFC cleaning chemicals, |
| 664 ppb | Middle of Unit (Sampling Location) | none |
| 533 ppb | Bathroom | hand soap |
| 387 ppb | End of Unit (west entrance) | none |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Comments: No smoking, no HVAC, chemicals all sealed, not occupied

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Estudillo Plaza optometry
 Address 1377 MacArthur Boulevard
 City San Leandro,
 Field Investigator Daniel Villanueva Date 4-10-14

| Field Instrument Reading | Measurement Location (Ambient Air, Foundation Opening, or Consumer Product) | If Consumer Product, Potential Volatile Ingredients |
|--------------------------|--|--|
| 200 ppb | Waiting Room | none |
| 708 ppb | Show room | eye glass cleaner alcohol, cleaner = 11 ppm |
| - | Repair Room | alcohol, all off? on unsealed bottle, window, fire extinguisher, |
| ambient = 770 ppb | Exam Room #1 | alcohol = 770 ppb |
| ambient 774 ppb | Eye Exam Room #2 (adjoining wall w/ Salon) | alcohol = 774 ppb |
| 788 ppb | File Room (sample location) | no chemicals |
| 779 ppb | Bathroom | cleaning chemicals, window, disinfectants, air spray |
| 784 ppb | Eye Exam Room #2 | alcohol - 784 ppb |

Comments: No HVAC system running during sampling

APPENDIX C

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Daniel Villanueva Date/Time Prepared: 4-10-14 / 1105
Affiliation: Project Geologist Phone Number: 209-467-1006

Occupant Information

Occupant Name: None / Former Swiss Valley Cleaner Interviewed: Yes No
Mailing Address: 1395 MacArthur Boulevard
City: San Leandro State: CA Zip Code: 94577
Phone: N/A Email: N/A

Owner/Landlord Information (Check if same as occupant)

Occupant Name: ESC Partners Interviewed: Yes No
Mailing Address: 4725 Thornton Avenue
City: San Francisco State: CA Zip Code: 95436
Phone: N/A Email: N/A

Building Type (Check appropriate boxes)

- Residential Residential Duplex Apartment Building Mobile Home Commercial (office)
- Commercial (warehouse) Industrial Strip Mall Split Level Church School

Building Characteristics

Approximate Building Age (years): 50 Number of Stories: 1
Approximate Building Area (square feet): 1300 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

- Slab-on-Grade Crawl Space Basement

Basement Characteristics (Check appropriate boxes)

- Dirt Floor Sealed Wet Surfaces Sump Pump Concrete Cracks Floor Drains

Factors Influencing Indoor Air Quality

- Is there an attached garage? Yes No
- Is there smoking in the building? Yes No
- Is there new carpet or furniture? Yes No Describe: _____
- Have clothes or drapes been recently dry cleaned? Yes No Describe: _____
- Has painting or staining been done with the last six months? Yes No Describe: _____
- Has the building been recently remodeled? Yes No Describe: _____
- Has the building ever had a fire? Yes No
- Is there a hobby or craft area in the building? Yes No Describe: _____
- Is gun cleaner stored in the building? Yes No
- Is there a fuel oil tank on the property? Yes No
- Is there a septic tank on the property? Yes No
- Has the building been fumigated or sprayed for pests recently? Yes No Describe: _____
- Do any building occupants use solvents at work? Yes No Describe: _____

1395

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

Primary Type of Energy Used (Check appropriate boxes)

Natural Gas Fuel Oil Propane Electricity Wood Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

dry, warm

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Daniel Villanueva Date/Time Prepared: 4-10-14 / 0945 AM
Affiliation: Project Geologist / AGG Phone Number: 209-467-1006

Occupant Information

Occupant Name: Solthea Yi
Solthea Beauty Supply & Salon Interviewed: Yes No
Mailing Address: 1383 MacArthur Boulevard
City: San Leandro State: CA Zip Code: 94577
Phone: N/A Email: None

Owner/Landlord Information (Check if same as occupant)

Occupant Name: ESC Partners Interviewed: Yes No
Mailing Address: 4725 Thornton Avenue
City: Fremont State: CA Zip Code: 95436
Phone: N/A Email: N/A

Building Type (Check appropriate boxes)

- Residential Residential Duplex Apartment Building Mobile Home Commercial (office)
- Commercial (warehouse) Industrial Strip Mall Split Level Church School

Building Characteristics

Approximate Building Age (years): 58 Number of Stories: 1
Approximate Building Area (square feet): 1300 Number of Elevators: None

Foundation Type (Check appropriate boxes)

- Slab-on-Grade Crawl Space Basement

Basement Characteristics (Check appropriate boxes)

- Dirt Floor Sealed Wet Surfaces Sump Pump Concrete Cracks Floor Drains

Factors Influencing Indoor Air Quality

- Is there an attached garage? Yes No
- Is there smoking in the building? Yes No
- Is there new carpet or furniture? Yes No Describe: _____
- Have clothes or drapes been recently dry cleaned? Yes No Describe: _____
- Has painting or staining been done with the last six months? Yes No Describe: _____
- Has the building been recently remodeled? Yes No Describe: _____
- Has the building ever had a fire? Yes No
- Is there a hobby or craft area in the building? Yes No Describe: _____
- Is gun cleaner stored in the building? Yes No
- Is there a fuel oil tank on the property? Yes No
- Is there a septic tank on the property? Yes No
- Has the building been fumigated or sprayed for pests recently? Yes No Describe: _____
- Do any building occupants use solvents at work? Yes No Describe: acetone

1383

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

Primary Type of Energy Used (Check appropriate boxes)

Natural Gas Fuel Oil Propane Electricity Wood Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

Warm, dry

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

1377

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: David Villanueva Date/Time Prepared: 4-10-14 / 10:50 A.M.
Affiliation: Project Geologist / AGE Phone Number: _____

Occupant Information

Occupant Name: Anderson Estudillo Plaza Optometry
1377 MacArthur Boulevard Interviewed: Yes No
Mailing Address: ↓
City: San Leandro State: CA Zip Code: 94577
Phone: N/A Email: N/A

Owner/Landlord Information (Check if same as occupant)

Occupant Name: ESC Partners Interviewed: Yes No
Mailing Address: 475 Thornton Avenue
City: Fremont State: CA Zip Code: 94536
Phone: N/A Email: N/A

Building Type (Check appropriate boxes)

- Residential Residential Duplex Apartment Building Mobile Home Commercial (office)
- Commercial (warehouse) Industrial Strip Mall Split Level Church School

Building Characteristics

Approximate Building Age (years): 50 Number of Stories: 1
Approximate Building Area (square feet): 4,300 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

- Slab-on-Grade Crawl Space Basement

Basement Characteristics (Check appropriate boxes)

- Dirt Floor Sealed Wet Surfaces Sump Pump Concrete Cracks Floor Drains

Factors Influencing Indoor Air Quality

- Is there an attached garage? Yes No
- Is there smoking in the building? Yes No
- Is there new carpet or furniture? Yes No Describe: _____
- Have clothes or drapes been recently dry cleaned? Yes No Describe: _____
- Has painting or staining been done with the last six months? Yes No Describe: _____
- Has the building been recently remodeled? Yes No Describe: _____
- Has the building ever had a fire? Yes No
- Is there a hobby or craft area in the building? Yes No Describe: _____
- Is gun cleaner stored in the building? Yes No
- Is there a fuel oil tank on the property? Yes No
- Is there a septic tank on the property? Yes No
- Has the building been fumigated or sprayed for pests recently? Yes No Describe: _____
- Do any building occupants use solvents at work? Yes No Describe: _____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

Primary Type of Energy Used (Check appropriate boxes)

Natural Gas Fuel Oil Propane Electricity Wood Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

warm, DM

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Keith Lindgren Date/Time Prepared: 5-8-14
Affiliation: _____ Phone Number: _____

Occupant Information

Occupant Name: Delbos Dance Fitness & Acrobatic Jazzercise Interviewed: Yes No
Mailing Address: 1369 MacArthur Boulevard
City: San Leandro State: CA Zip Code: 94577
Phone: N/A Email: N/A

Owner/Landlord Information (Check if same as occupant)

Occupant Name: ESC Partners Interviewed: Yes No
Mailing Address: 4725 Thornton Avenue
City: Emeryville State: CA Zip Code: _____
Phone: N/A Email: N/A

Building Type (Check appropriate boxes)

- Residential Residential Duplex Apartment Building Mobile Home Commercial (office)
- Commercial (warehouse) Industrial Strip Mall Split Level Church School

Building Characteristics

Approximate Building Age (years): 50 Number of Stories: 1
Approximate Building Area (square feet): 1,800 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

- Slab-on-Grade Crawl Space Basement

Basement Characteristics (Check appropriate boxes)

- Dirt Floor Sealed Wet Surfaces Sump Pump Concrete Cracks Floor Drains

Factors Influencing Indoor Air Quality

- Is there an attached garage? Yes No
- Is there smoking in the building? Yes No
- Is there new carpet or furniture? Yes No Describe: _____
- Have clothes or drapes been recently dry cleaned? Yes No Describe: _____
- Has painting or staining been done with the last six months? Yes No Describe: _____
- Has the building been recently remodeled? Yes No Describe: _____
- Has the building ever had a fire? Yes No
- Is there a hobby or craft area in the building? Yes No Describe: _____
- Is gun cleaner stored in the building? Yes No
- Is there a fuel oil tank on the property? Yes No
- Is there a septic tank on the property? Yes No
- Has the building been fumigated or sprayed for pests recently? Yes No Describe: _____
- Do any building occupants use solvents at work? Yes No Describe: _____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

Primary Type of Energy Used (Check appropriate boxes)

Natural Gas Fuel Oil Propane Electricity Wood Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

dry, cool

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

APPENDIX D



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405427 **Amended:** 05/19/2014

Report Created for: Advanced GeoEnvironmental, Inc.
837 Shaw Road
Stockton, CA 95215

Project Contact: Daniel Villanueva
Project P.O.:
Project Name: #Swiss Valley Cleaners

Project Received: 05/09/2014

Analytical Report reviewed & approved for release on 05/16/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
WorkOrder: 1405427

Glossary Abbreviation

| | |
|--------------|---|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| TEQ | Toxicity Equivalence |

Analytical Qualifiers

j1 see attached narrative



Case Narrative

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners

Work Order: 1405427
May 16, 2014

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012

Samples 1405427-004A (IA-1395 MacArthur) and 1405427-005A (Outside 1395 MacArthur):

Vinyl Acetate Reporting Limit raised due to co elution with non target peak interfering with quantitative value.



Analytical Report

Client: Advanced GeoEnvironmental, Inc.

WorkOrder: 1405427

Project: #Swiss Valley Cleaners

Extraction Method: SW5030B

Date Received: 5/9/14 22:23

Analytical Method: SW8260B

Date Prepared: 5/15/14

Unit: µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1383 MacArthur | 1405427-001A | Indoor Air | 05/08/2014 10:12 | GC16 | 90510 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.86 | 13.86 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------|--------|------|----|------------------|
| Acetone | 5200 | 5000 | 1 | 05/15/2014 16:28 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|----------------------|---------|--------|------------------|
| Dibromofluoromethane | 109 | 70-130 | 05/15/2014 16:28 |



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1383 MacArthur | 1405427-001A | Indoor Air | 05/08/2014 10:12 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.86 | 13.86 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|-------------|--------|----|------------------|
| Acrolein | ND | 0.23 | 1 | 05/14/2014 18:41 |
| Acrylonitrile | ND | 0.22 | 1 | 05/14/2014 18:41 |
| tert-Amyl methyl ether (TAME) | ND | 0.42 | 1 | 05/14/2014 18:41 |
| Benzene | 0.69 | 0.032 | 1 | 05/14/2014 18:41 |
| Benzyl chloride | ND | 0.53 | 1 | 05/14/2014 18:41 |
| Bromodichloromethane | ND | 0.0070 | 1 | 05/14/2014 18:41 |
| Bromoform | ND | 1.1 | 1 | 05/14/2014 18:41 |
| Bromomethane | ND | 0.39 | 1 | 05/14/2014 18:41 |
| 1,3-Butadiene | ND | 0.22 | 1 | 05/14/2014 18:41 |
| 2-Butanone (MEK) | 11 | 7.5 | 1 | 05/14/2014 18:41 |
| t-Butyl alcohol (TBA) | ND | 6.2 | 1 | 05/14/2014 18:41 |
| Carbon Disulfide | ND | 0.32 | 1 | 05/14/2014 18:41 |
| Carbon Tetrachloride | 0.45 | 0.0064 | 1 | 05/14/2014 18:41 |
| Chlorobenzene | ND | 0.47 | 1 | 05/14/2014 18:41 |
| Chloroethane | ND | 0.27 | 1 | 05/14/2014 18:41 |
| Chloroform | 0.49 | 0.0049 | 1 | 05/14/2014 18:41 |
| Chloromethane | ND | 0.21 | 1 | 05/14/2014 18:41 |
| Cyclohexane | ND | 1.8 | 1 | 05/14/2014 18:41 |
| Dibromochloromethane | ND | 0.87 | 1 | 05/14/2014 18:41 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0049 | 1 | 05/14/2014 18:41 |
| 1,2-Dibromoethane (EDB) | ND | 0.0078 | 1 | 05/14/2014 18:41 |
| 1,2-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 18:41 |
| 1,3-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 18:41 |
| 1,4-Dichlorobenzene | 0.12 | 0.0061 | 1 | 05/14/2014 18:41 |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 05/14/2014 18:41 |
| 1,1-Dichloroethane | ND | 0.41 | 1 | 05/14/2014 18:41 |
| 1,2-Dichloroethane (1,2-DCA) | 1.1 | 0.0041 | 1 | 05/14/2014 18:41 |
| 1,1-Dichloroethene | ND | 0.10 | 1 | 05/14/2014 18:41 |
| cis-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 18:41 |
| trans-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 18:41 |
| 1,2-Dichloropropane | ND | 0.0047 | 1 | 05/14/2014 18:41 |
| cis-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 18:41 |
| trans-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 18:41 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.71 | 1 | 05/14/2014 18:41 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1383 MacArthur | 1405427-001A | Indoor Air | 05/08/2014 10:12 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.86 | 13.86 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|--------|----|------------------|
| Diisopropyl ether (DIPE) | ND | 0.42 | 1 | 05/14/2014 18:41 |
| 1,4-Dioxane | ND | 0.0037 | 1 | 05/14/2014 18:41 |
| Ethyl acetate | 1600 | 46 | 50 | 05/16/2014 15:50 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.42 | 1 | 05/14/2014 18:41 |
| Ethylbenzene | ND | 0.44 | 1 | 05/14/2014 18:41 |
| 4-Ethyltoluene | ND | 0.50 | 1 | 05/14/2014 18:41 |
| Freon 113 | ND | 0.78 | 1 | 05/14/2014 18:41 |
| Heptane | 3.1 | 2.1 | 1 | 05/14/2014 18:41 |
| Hexachlorobutadiene | ND | 1.1 | 1 | 05/14/2014 18:41 |
| Hexane | ND | 1.8 | 1 | 05/14/2014 18:41 |
| 2-Hexanone | ND | 0.42 | 1 | 05/14/2014 18:41 |
| Isopropyl Alcohol | 100 | 5.0 | 1 | 05/14/2014 18:41 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.42 | 1 | 05/14/2014 18:41 |
| Methyl-t-butyl ether (MTBE) | ND | 0.37 | 1 | 05/14/2014 18:41 |
| Methylene chloride | 0.60 | 0.35 | 1 | 05/14/2014 18:41 |
| Methyl methacrylate | 2600 | 21 | 50 | 05/16/2014 15:50 |
| Naphthalene | 0.36 | 0.050 | 1 | 05/14/2014 18:41 |
| Propene | ND | 8.8 | 1 | 05/14/2014 18:41 |
| Styrene | 0.73 | 0.43 | 1 | 05/14/2014 18:41 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 18:41 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 18:41 |
| Tetrachloroethene | 17 | 0.034 | 1 | 05/14/2014 18:41 |
| Tetrahydrofuran | ND | 0.60 | 1 | 05/14/2014 18:41 |
| Toluene | 21 | 0.38 | 1 | 05/14/2014 18:41 |
| 1,2,4-Trichlorobenzene | ND | 0.75 | 1 | 05/14/2014 18:41 |
| 1,1,1-Trichloroethane | ND | 0.55 | 1 | 05/14/2014 18:41 |
| 1,1,2-Trichloroethane | 0.098 | 0.0055 | 1 | 05/14/2014 18:41 |
| Trichloroethene | 0.055 | 0.0055 | 1 | 05/14/2014 18:41 |
| Trichlorofluoromethane | ND | 0.57 | 1 | 05/14/2014 18:41 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 18:41 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 18:41 |
| Vinyl Acetate | ND | 0.36 | 1 | 05/14/2014 18:41 |
| Vinyl Chloride | ND | 0.0026 | 1 | 05/14/2014 18:41 |
| Xylenes, Total | 1.5 | 1.3 | 1 | 05/14/2014 18:41 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1383 MacArthur | 1405427-001A | Indoor Air | 05/08/2014 10:12 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.86 | 13.86 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|----------------|--------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | | |
| 1,2-DCA-d4 | 96 | 70-130 | | 05/14/2014 18:41 |
| Toluene-d8 | 95 | 70-130 | | 05/14/2014 18:41 |
| 4-BFB | 101 | 70-130 | | 05/14/2014 18:41 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1369-MacArthur | 1405427-002A | Indoor Air | 05/08/2014 10:26 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.03 | 14.03 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | 18 | 6.0 | 1 | 05/14/2014 19:46 |
| Acrolein | ND | 0.23 | 1 | 05/14/2014 19:46 |
| Acrylonitrile | ND | 0.22 | 1 | 05/14/2014 19:46 |
| tert-Amyl methyl ether (TAME) | ND | 0.42 | 1 | 05/14/2014 19:46 |
| Benzene | 0.60 | 0.032 | 1 | 05/14/2014 19:46 |
| Benzyl chloride | ND | 0.53 | 1 | 05/14/2014 19:46 |
| Bromodichloromethane | ND | 0.0070 | 1 | 05/14/2014 19:46 |
| Bromoform | ND | 1.1 | 1 | 05/14/2014 19:46 |
| Bromomethane | ND | 0.39 | 1 | 05/14/2014 19:46 |
| 1,3-Butadiene | ND | 0.22 | 1 | 05/14/2014 19:46 |
| 2-Butanone (MEK) | ND | 7.5 | 1 | 05/14/2014 19:46 |
| t-Butyl alcohol (TBA) | ND | 6.2 | 1 | 05/14/2014 19:46 |
| Carbon Disulfide | ND | 0.32 | 1 | 05/14/2014 19:46 |
| Carbon Tetrachloride | 0.47 | 0.0064 | 1 | 05/14/2014 19:46 |
| Chlorobenzene | ND | 0.47 | 1 | 05/14/2014 19:46 |
| Chloroethane | ND | 0.27 | 1 | 05/14/2014 19:46 |
| Chloroform | 0.25 | 0.0049 | 1 | 05/14/2014 19:46 |
| Chloromethane | 0.68 | 0.21 | 1 | 05/14/2014 19:46 |
| Cyclohexane | ND | 1.8 | 1 | 05/14/2014 19:46 |
| Dibromochloromethane | ND | 0.87 | 1 | 05/14/2014 19:46 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0049 | 1 | 05/14/2014 19:46 |
| 1,2-Dibromoethane (EDB) | ND | 0.0078 | 1 | 05/14/2014 19:46 |
| 1,2-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 19:46 |
| 1,3-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 19:46 |
| 1,4-Dichlorobenzene | 0.17 | 0.0061 | 1 | 05/14/2014 19:46 |
| Dichlorodifluoromethane | 2.0 | 0.50 | 1 | 05/14/2014 19:46 |
| 1,1-Dichloroethane | ND | 0.41 | 1 | 05/14/2014 19:46 |
| 1,2-Dichloroethane (1,2-DCA) | 2.2 | 0.0041 | 1 | 05/14/2014 19:46 |
| 1,1-Dichloroethene | ND | 0.10 | 1 | 05/14/2014 19:46 |
| cis-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 19:46 |
| trans-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 19:46 |
| 1,2-Dichloropropane | ND | 0.0047 | 1 | 05/14/2014 19:46 |
| cis-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 19:46 |
| trans-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 19:46 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1369-MacArthur | 1405427-002A | Indoor Air | 05/08/2014 10:26 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.03 | 14.03 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------------|--------|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.71 | 1 | 05/14/2014 19:46 |
| Diisopropyl ether (DIPE) | ND | 0.42 | 1 | 05/14/2014 19:46 |
| 1,4-Dioxane | ND | 0.0037 | 1 | 05/14/2014 19:46 |
| Ethyl acetate | 2.2 | 0.92 | 1 | 05/14/2014 19:46 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.42 | 1 | 05/14/2014 19:46 |
| Ethylbenzene | ND | 0.44 | 1 | 05/14/2014 19:46 |
| 4-Ethyltoluene | ND | 0.50 | 1 | 05/14/2014 19:46 |
| Freon 113 | ND | 0.78 | 1 | 05/14/2014 19:46 |
| Heptane | ND | 2.1 | 1 | 05/14/2014 19:46 |
| Hexachlorobutadiene | ND | 1.1 | 1 | 05/14/2014 19:46 |
| Hexane | ND | 1.8 | 1 | 05/14/2014 19:46 |
| 2-Hexanone | ND | 0.42 | 1 | 05/14/2014 19:46 |
| Isopropyl Alcohol | 5.9 | 5.0 | 1 | 05/14/2014 19:46 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.42 | 1 | 05/14/2014 19:46 |
| Methyl-t-butyl ether (MTBE) | ND | 0.37 | 1 | 05/14/2014 19:46 |
| Methylene chloride | ND | 0.35 | 1 | 05/14/2014 19:46 |
| Methyl methacrylate | 0.64 | 0.42 | 1 | 05/14/2014 19:46 |
| Naphthalene | 0.26 | 0.050 | 1 | 05/14/2014 19:46 |
| Propene | ND | 8.8 | 1 | 05/14/2014 19:46 |
| Styrene | ND | 0.43 | 1 | 05/14/2014 19:46 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 19:46 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 19:46 |
| Tetrachloroethene | 0.45 | 0.034 | 1 | 05/14/2014 19:46 |
| Tetrahydrofuran | ND | 0.60 | 1 | 05/14/2014 19:46 |
| Toluene | 2.1 | 0.38 | 1 | 05/14/2014 19:46 |
| 1,2,4-Trichlorobenzene | ND | 0.75 | 1 | 05/14/2014 19:46 |
| 1,1,1-Trichloroethane | ND | 0.55 | 1 | 05/14/2014 19:46 |
| 1,1,2-Trichloroethane | ND | 0.0055 | 1 | 05/14/2014 19:46 |
| Trichloroethene | 0.020 | 0.0055 | 1 | 05/14/2014 19:46 |
| Trichlorofluoromethane | 1.3 | 0.57 | 1 | 05/14/2014 19:46 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 19:46 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 19:46 |
| Vinyl Acetate | 2.0 | 0.36 | 1 | 05/14/2014 19:46 |
| Vinyl Chloride | ND | 0.0026 | 1 | 05/14/2014 19:46 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1369-MacArthur | 1405427-002A | Indoor Air | 05/08/2014 10:26 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.03 | 14.03 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 1.3 | 1 | 05/14/2014 19:46 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 104 | 70-130 | 05/14/2014 19:46 |
| Toluene-d8 | 102 | 70-130 | 05/14/2014 19:46 |
| 4-BFB | 102 | 70-130 | 05/14/2014 19:46 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1377 MacArthur | 1405427-003A | Indoor Air | 05/08/2014 10:30 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.89 | 13.89 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | 38 | 6.0 | 1 | 05/14/2014 20:47 |
| Acrolein | ND | 0.23 | 1 | 05/14/2014 20:47 |
| Acrylonitrile | ND | 0.22 | 1 | 05/14/2014 20:47 |
| tert-Amyl methyl ether (TAME) | ND | 0.42 | 1 | 05/14/2014 20:47 |
| Benzene | 0.37 | 0.032 | 1 | 05/14/2014 20:47 |
| Benzyl chloride | ND | 0.53 | 1 | 05/14/2014 20:47 |
| Bromodichloromethane | 0.031 | 0.0070 | 1 | 05/14/2014 20:47 |
| Bromoform | ND | 1.1 | 1 | 05/14/2014 20:47 |
| Bromomethane | ND | 0.39 | 1 | 05/14/2014 20:47 |
| 1,3-Butadiene | ND | 0.22 | 1 | 05/14/2014 20:47 |
| 2-Butanone (MEK) | ND | 7.5 | 1 | 05/14/2014 20:47 |
| t-Butyl alcohol (TBA) | ND | 6.2 | 1 | 05/14/2014 20:47 |
| Carbon Disulfide | ND | 0.32 | 1 | 05/14/2014 20:47 |
| Carbon Tetrachloride | 0.45 | 0.0064 | 1 | 05/14/2014 20:47 |
| Chlorobenzene | ND | 0.47 | 1 | 05/14/2014 20:47 |
| Chloroethane | ND | 0.27 | 1 | 05/14/2014 20:47 |
| Chloroform | 0.20 | 0.0049 | 1 | 05/14/2014 20:47 |
| Chloromethane | 0.67 | 0.21 | 1 | 05/14/2014 20:47 |
| Cyclohexane | ND | 1.8 | 1 | 05/14/2014 20:47 |
| Dibromochloromethane | ND | 0.87 | 1 | 05/14/2014 20:47 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0049 | 1 | 05/14/2014 20:47 |
| 1,2-Dibromoethane (EDB) | ND | 0.0078 | 1 | 05/14/2014 20:47 |
| 1,2-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 20:47 |
| 1,3-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 20:47 |
| 1,4-Dichlorobenzene | 0.37 | 0.0061 | 1 | 05/14/2014 20:47 |
| Dichlorodifluoromethane | 2.1 | 0.50 | 1 | 05/14/2014 20:47 |
| 1,1-Dichloroethane | ND | 0.41 | 1 | 05/14/2014 20:47 |
| 1,2-Dichloroethane (1,2-DCA) | 1.1 | 0.0041 | 1 | 05/14/2014 20:47 |
| 1,1-Dichloroethene | ND | 0.10 | 1 | 05/14/2014 20:47 |
| cis-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 20:47 |
| trans-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 20:47 |
| 1,2-Dichloropropane | 0.041 | 0.0047 | 1 | 05/14/2014 20:47 |
| cis-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 20:47 |
| trans-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 20:47 |

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Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1377 MacArthur | 1405427-003A | Indoor Air | 05/08/2014 10:30 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.89 | 13.89 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|--------|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.71 | 1 | 05/14/2014 20:47 |
| Diisopropyl ether (DIPE) | ND | 0.42 | 1 | 05/14/2014 20:47 |
| 1,4-Dioxane | ND | 0.0037 | 1 | 05/14/2014 20:47 |
| Ethyl acetate | 4.9 | 0.92 | 1 | 05/14/2014 20:47 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.42 | 1 | 05/14/2014 20:47 |
| Ethylbenzene | 1.1 | 0.44 | 1 | 05/14/2014 20:47 |
| 4-Ethyltoluene | ND | 0.50 | 1 | 05/14/2014 20:47 |
| Freon 113 | ND | 0.78 | 1 | 05/14/2014 20:47 |
| Heptane | ND | 2.1 | 1 | 05/14/2014 20:47 |
| Hexachlorobutadiene | ND | 1.1 | 1 | 05/14/2014 20:47 |
| Hexane | ND | 1.8 | 1 | 05/14/2014 20:47 |
| 2-Hexanone | ND | 0.42 | 1 | 05/14/2014 20:47 |
| Isopropyl Alcohol | 350 | 5.0 | 1 | 05/14/2014 20:47 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.42 | 1 | 05/14/2014 20:47 |
| Methyl-t-butyl ether (MTBE) | ND | 0.37 | 1 | 05/14/2014 20:47 |
| Methylene chloride | 0.86 | 0.35 | 1 | 05/14/2014 20:47 |
| Methyl methacrylate | 2.8 | 0.42 | 1 | 05/14/2014 20:47 |
| Naphthalene | 0.38 | 0.050 | 1 | 05/14/2014 20:47 |
| Propene | ND | 8.8 | 1 | 05/14/2014 20:47 |
| Styrene | 0.95 | 0.43 | 1 | 05/14/2014 20:47 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 20:47 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 20:47 |
| Tetrachloroethene | 5.1 | 0.034 | 1 | 05/14/2014 20:47 |
| Tetrahydrofuran | ND | 0.60 | 1 | 05/14/2014 20:47 |
| Toluene | 6.9 | 0.38 | 1 | 05/14/2014 20:47 |
| 1,2,4-Trichlorobenzene | ND | 0.75 | 1 | 05/14/2014 20:47 |
| 1,1,1-Trichloroethane | ND | 0.55 | 1 | 05/14/2014 20:47 |
| 1,1,2-Trichloroethane | 0.029 | 0.0055 | 1 | 05/14/2014 20:47 |
| Trichloroethene | 0.033 | 0.0055 | 1 | 05/14/2014 20:47 |
| Trichlorofluoromethane | 1.0 | 0.57 | 1 | 05/14/2014 20:47 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 20:47 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 20:47 |
| Vinyl Acetate | 1.3 | 0.36 | 1 | 05/14/2014 20:47 |
| Vinyl Chloride | ND | 0.0026 | 1 | 05/14/2014 20:47 |

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Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1377 MacArthur | 1405427-003A | Indoor Air | 05/08/2014 10:30 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 13.89 | 13.89 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | 4.4 | 1.3 | 1 | 05/14/2014 20:47 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| 1,2-DCA-d4 | 102 | 70-130 | 05/14/2014 20:47 |
| Toluene-d8 | 101 | 70-130 | 05/14/2014 20:47 |
| 4-BFB | 100 | 70-130 | 05/14/2014 20:47 |

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Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1395 MacArthur | 1405427-004A | Indoor Air | 05/08/2014 10:43 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.42 | 14.42 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | 75 | 12 | 2 | 05/15/2014 12:40 |
| Acrolein | ND | 0.23 | 1 | 05/14/2014 21:42 |
| Acrylonitrile | ND | 0.22 | 1 | 05/14/2014 21:42 |
| tert-Amyl methyl ether (TAME) | ND | 0.42 | 1 | 05/14/2014 21:42 |
| Benzene | 0.27 | 0.032 | 1 | 05/14/2014 21:42 |
| Benzyl chloride | ND | 0.53 | 1 | 05/14/2014 21:42 |
| Bromodichloromethane | ND | 0.0070 | 1 | 05/14/2014 21:42 |
| Bromoform | ND | 1.1 | 1 | 05/14/2014 21:42 |
| Bromomethane | ND | 0.39 | 1 | 05/14/2014 21:42 |
| 1,3-Butadiene | ND | 0.22 | 1 | 05/14/2014 21:42 |
| 2-Butanone (MEK) | ND | 7.5 | 1 | 05/14/2014 21:42 |
| t-Butyl alcohol (TBA) | ND | 6.2 | 1 | 05/14/2014 21:42 |
| Carbon Disulfide | ND | 0.32 | 1 | 05/14/2014 21:42 |
| Carbon Tetrachloride | 0.44 | 0.0064 | 1 | 05/14/2014 21:42 |
| Chlorobenzene | ND | 0.47 | 1 | 05/14/2014 21:42 |
| Chloroethane | ND | 0.27 | 1 | 05/14/2014 21:42 |
| Chloroform | 0.22 | 0.0049 | 1 | 05/14/2014 21:42 |
| Chloromethane | 0.67 | 0.21 | 1 | 05/14/2014 21:42 |
| Cyclohexane | ND | 1.8 | 1 | 05/14/2014 21:42 |
| Dibromochloromethane | ND | 0.87 | 1 | 05/14/2014 21:42 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0049 | 1 | 05/14/2014 21:42 |
| 1,2-Dibromoethane (EDB) | ND | 0.0078 | 1 | 05/14/2014 21:42 |
| 1,2-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 21:42 |
| 1,3-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 21:42 |
| 1,4-Dichlorobenzene | 0.063 | 0.0061 | 1 | 05/14/2014 21:42 |
| Dichlorodifluoromethane | 2.0 | 0.50 | 1 | 05/14/2014 21:42 |
| 1,1-Dichloroethane | ND | 0.41 | 1 | 05/14/2014 21:42 |
| 1,2-Dichloroethane (1,2-DCA) | 0.19 | 0.0041 | 1 | 05/14/2014 21:42 |
| 1,1-Dichloroethene | ND | 0.10 | 1 | 05/14/2014 21:42 |
| cis-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 21:42 |
| trans-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 21:42 |
| 1,2-Dichloropropane | ND | 0.0047 | 1 | 05/14/2014 21:42 |
| cis-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 21:42 |
| trans-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 21:42 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1395 MacArthur | 1405427-004A | Indoor Air | 05/08/2014 10:43 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.42 | 14.42 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|-------------|--------|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.71 | 1 | 05/14/2014 21:42 |
| Diisopropyl ether (DIPE) | ND | 0.42 | 1 | 05/14/2014 21:42 |
| 1,4-Dioxane | ND | 0.0037 | 1 | 05/14/2014 21:42 |
| Ethyl acetate | 8.8 | 0.92 | 1 | 05/14/2014 21:42 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.42 | 1 | 05/14/2014 21:42 |
| Ethylbenzene | ND | 0.44 | 1 | 05/14/2014 21:42 |
| 4-Ethyltoluene | ND | 0.50 | 1 | 05/14/2014 21:42 |
| Freon 113 | ND | 0.78 | 1 | 05/14/2014 21:42 |
| Heptane | ND | 2.1 | 1 | 05/14/2014 21:42 |
| Hexachlorobutadiene | ND | 1.1 | 1 | 05/14/2014 21:42 |
| Hexane | ND | 1.8 | 1 | 05/14/2014 21:42 |
| 2-Hexanone | ND | 0.42 | 1 | 05/14/2014 21:42 |
| Isopropyl Alcohol | ND | 5.0 | 1 | 05/14/2014 21:42 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.42 | 1 | 05/14/2014 21:42 |
| Methyl-t-butyl ether (MTBE) | ND | 0.37 | 1 | 05/14/2014 21:42 |
| Methylene chloride | 1.3 | 0.35 | 1 | 05/14/2014 21:42 |
| Methyl methacrylate | 12 | 0.42 | 1 | 05/14/2014 21:42 |
| Naphthalene | 0.17 | 0.050 | 1 | 05/14/2014 21:42 |
| Propene | ND | 8.8 | 1 | 05/14/2014 21:42 |
| Styrene | ND | 0.43 | 1 | 05/14/2014 21:42 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 21:42 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 21:42 |
| Tetrachloroethene | 14 | 0.034 | 1 | 05/14/2014 21:42 |
| Tetrahydrofuran | ND | 0.60 | 1 | 05/14/2014 21:42 |
| Toluene | 0.74 | 0.38 | 1 | 05/14/2014 21:42 |
| 1,2,4-Trichlorobenzene | ND | 0.75 | 1 | 05/14/2014 21:42 |
| 1,1,1-Trichloroethane | ND | 0.55 | 1 | 05/14/2014 21:42 |
| 1,1,2-Trichloroethane | ND | 0.0055 | 1 | 05/14/2014 21:42 |
| Trichloroethene | 0.11 | 0.0055 | 1 | 05/14/2014 21:42 |
| Trichlorofluoromethane | 1.1 | 0.57 | 1 | 05/14/2014 21:42 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 21:42 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 21:42 |
| Vinyl Acetate | ND | 5.0 | 1 | 05/14/2014 21:42 |
| Vinyl Chloride | ND | 0.0026 | 1 | 05/14/2014 21:42 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|--------------|----------------|------------------|------------|----------|
| IA-1395 MacArthur | 1405427-004A | Indoor Air | 05/08/2014 10:43 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.42 | 14.42 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 1.3 | 1 | 05/14/2014 21:42 |

| Surrogates | REC (%) | Limits | Analytical Comments: j1 | Date Analyzed |
|------------|---------|--------|-------------------------|------------------|
| 1,2-DCA-d4 | 102 | 70-130 | | 05/14/2014 21:42 |
| Toluene-d8 | 102 | 70-130 | | 05/14/2014 21:42 |
| 4-BFB | 101 | 70-130 | | 05/14/2014 21:42 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|------------------------|--------------|----------------|------------------|------------|----------|
| Outside 1395 MacArthur | 1405427-005A | Indoor Air | 05/08/2014 10:59 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.09 | 14.09 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | 13 | 6.0 | 1 | 05/14/2014 22:40 |
| Acrolein | 2.6 | 0.23 | 1 | 05/14/2014 22:40 |
| Acrylonitrile | ND | 0.22 | 1 | 05/14/2014 22:40 |
| tert-Amyl methyl ether (TAME) | ND | 0.42 | 1 | 05/14/2014 22:40 |
| Benzene | 0.20 | 0.032 | 1 | 05/14/2014 22:40 |
| Benzyl chloride | ND | 0.53 | 1 | 05/14/2014 22:40 |
| Bromodichloromethane | ND | 0.0070 | 1 | 05/14/2014 22:40 |
| Bromoform | ND | 1.1 | 1 | 05/14/2014 22:40 |
| Bromomethane | ND | 0.39 | 1 | 05/14/2014 22:40 |
| 1,3-Butadiene | ND | 0.22 | 1 | 05/14/2014 22:40 |
| 2-Butanone (MEK) | ND | 7.5 | 1 | 05/14/2014 22:40 |
| t-Butyl alcohol (TBA) | ND | 6.2 | 1 | 05/14/2014 22:40 |
| Carbon Disulfide | ND | 0.32 | 1 | 05/14/2014 22:40 |
| Carbon Tetrachloride | 0.47 | 0.0064 | 1 | 05/14/2014 22:40 |
| Chlorobenzene | ND | 0.47 | 1 | 05/14/2014 22:40 |
| Chloroethane | ND | 0.27 | 1 | 05/14/2014 22:40 |
| Chloroform | 0.24 | 0.0049 | 1 | 05/14/2014 22:40 |
| Chloromethane | 0.64 | 0.21 | 1 | 05/14/2014 22:40 |
| Cyclohexane | ND | 1.8 | 1 | 05/14/2014 22:40 |
| Dibromochloromethane | ND | 0.87 | 1 | 05/14/2014 22:40 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0049 | 1 | 05/14/2014 22:40 |
| 1,2-Dibromoethane (EDB) | ND | 0.0078 | 1 | 05/14/2014 22:40 |
| 1,2-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 22:40 |
| 1,3-Dichlorobenzene | ND | 0.61 | 1 | 05/14/2014 22:40 |
| 1,4-Dichlorobenzene | 0.023 | 0.0061 | 1 | 05/14/2014 22:40 |
| Dichlorodifluoromethane | 2.0 | 0.50 | 1 | 05/14/2014 22:40 |
| 1,1-Dichloroethane | ND | 0.41 | 1 | 05/14/2014 22:40 |
| 1,2-Dichloroethane (1,2-DCA) | 0.067 | 0.0041 | 1 | 05/14/2014 22:40 |
| 1,1-Dichloroethene | ND | 0.10 | 1 | 05/14/2014 22:40 |
| cis-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 22:40 |
| trans-1,2-Dichloroethene | ND | 0.40 | 1 | 05/14/2014 22:40 |
| 1,2-Dichloropropane | ND | 0.0047 | 1 | 05/14/2014 22:40 |
| cis-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 22:40 |
| trans-1,3-Dichloropropene | ND | 0.12 | 1 | 05/14/2014 22:40 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|------------------------|--------------|----------------|------------------|------------|----------|
| Outside 1395 MacArthur | 1405427-005A | Indoor Air | 05/08/2014 10:59 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.09 | 14.09 |

| Analytes | Result | RL | DF | Date Analyzed |
|--|--------|--------|----|------------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.71 | 1 | 05/14/2014 22:40 |
| Diisopropyl ether (DIPE) | ND | 0.42 | 1 | 05/14/2014 22:40 |
| 1,4-Dioxane | ND | 0.0037 | 1 | 05/14/2014 22:40 |
| Ethyl acetate | 2.1 | 0.92 | 1 | 05/14/2014 22:40 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.42 | 1 | 05/14/2014 22:40 |
| Ethylbenzene | ND | 0.44 | 1 | 05/14/2014 22:40 |
| 4-Ethyltoluene | ND | 0.50 | 1 | 05/14/2014 22:40 |
| Freon 113 | ND | 0.78 | 1 | 05/14/2014 22:40 |
| Heptane | ND | 2.1 | 1 | 05/14/2014 22:40 |
| Hexachlorobutadiene | ND | 1.1 | 1 | 05/14/2014 22:40 |
| Hexane | ND | 1.8 | 1 | 05/14/2014 22:40 |
| 2-Hexanone | ND | 0.42 | 1 | 05/14/2014 22:40 |
| Isopropyl Alcohol | ND | 5.0 | 1 | 05/14/2014 22:40 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.42 | 1 | 05/14/2014 22:40 |
| Methyl-t-butyl ether (MTBE) | ND | 0.37 | 1 | 05/14/2014 22:40 |
| Methylene chloride | ND | 0.35 | 1 | 05/14/2014 22:40 |
| Methyl methacrylate | ND | 0.42 | 1 | 05/14/2014 22:40 |
| Naphthalene | 0.12 | 0.050 | 1 | 05/14/2014 22:40 |
| Propene | ND | 8.8 | 1 | 05/14/2014 22:40 |
| Styrene | ND | 0.43 | 1 | 05/14/2014 22:40 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 22:40 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0070 | 1 | 05/14/2014 22:40 |
| Tetrachloroethene | 0.042 | 0.034 | 1 | 05/14/2014 22:40 |
| Tetrahydrofuran | ND | 0.60 | 1 | 05/14/2014 22:40 |
| Toluene | 0.41 | 0.38 | 1 | 05/14/2014 22:40 |
| 1,2,4-Trichlorobenzene | ND | 0.75 | 1 | 05/14/2014 22:40 |
| 1,1,1-Trichloroethane | ND | 0.55 | 1 | 05/14/2014 22:40 |
| 1,1,2-Trichloroethane | ND | 0.0055 | 1 | 05/14/2014 22:40 |
| Trichloroethene | 0.014 | 0.0055 | 1 | 05/14/2014 22:40 |
| Trichlorofluoromethane | 1.1 | 0.57 | 1 | 05/14/2014 22:40 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 22:40 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 05/14/2014 22:40 |
| Vinyl Acetate | ND | 10 | 1 | 05/14/2014 22:40 |
| Vinyl Chloride | ND | 0.0026 | 1 | 05/14/2014 22:40 |

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: #Swiss Valley Cleaners
Date Received: 5/9/14 22:23
Date Prepared: 5/14/14-5/16/14

WorkOrder: 1405427
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|------------------------|--------------|----------------|------------------|------------|----------|
| Outside 1395 MacArthur | 1405427-005A | Indoor Air | 05/08/2014 10:59 | GC24 | 90474 |

| Initial Pressure (psia) | Final Pressure (psia) |
|-------------------------|-----------------------|
| 14.09 | 14.09 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------|--------|-----|----|------------------|
| Xylenes, Total | ND | 1.3 | 1 | 05/14/2014 22:40 |

| Surrogates | REC (%) | Limits | Analytical Comments: j1 | Date Analyzed |
|------------|---------|--------|-------------------------|------------------|
| 1,2-DCA-d4 | 102 | 70-130 | | 05/14/2014 22:40 |
| Toluene-d8 | 102 | 70-130 | | 05/14/2014 22:40 |
| 4-BFB | 101 | 70-130 | | 05/14/2014 22:40 |



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 5/16/14
Date Analyzed: 5/15/14
Instrument: GC16
Matrix: Water
Project: #Swiss Valley Cleaners

WorkOrder: 1405427
BatchID: 90510
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-90510

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone | ND | - | 10 | - | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 19.4 | 0.50 | 20 | - | 96.9 | 70-130 |
| Benzene | ND | 20.2 | 0.50 | 20 | - | 101 | 70-130 |
| Bromobenzene | ND | - | 0.50 | - | - | - | - |
| Bromochloromethane | ND | - | 0.50 | - | - | - | - |
| Bromodichloromethane | ND | - | 0.50 | - | - | - | - |
| Bromoform | ND | - | 0.50 | - | - | - | - |
| Bromomethane | ND | - | 0.50 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 2.0 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | 85.7 | 2.0 | 80 | - | 107 | 70-130 |
| n-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| sec-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| tert-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| Carbon Disulfide | ND | - | 0.50 | - | - | - | - |
| Carbon Tetrachloride | ND | - | 0.50 | - | - | - | - |
| Chlorobenzene | ND | 19.1 | 0.50 | 20 | - | 95.7 | 70-130 |
| Chloroethane | ND | - | 0.50 | - | - | - | - |
| Chloroform | ND | - | 0.50 | - | - | - | - |
| Chloromethane | ND | - | 0.50 | - | - | - | - |
| 2-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| 4-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| Dibromochloromethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | - | 0.20 | - | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 20.3 | 0.50 | 20 | - | 101 | 70-130 |
| Dibromomethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| Dichlorodifluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloroethane (1,2-DCA) | ND | 20.4 | 0.50 | 20 | - | 102 | 70-130 |
| 1,1-Dichloroethene | ND | 20.5 | 0.50 | 20 | - | 103 | 70-130 |
| cis-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| trans-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 2,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| cis-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| trans-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |

(Cont.)



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 5/16/14
Date Analyzed: 5/15/14
Instrument: GC16
Matrix: Water
Project: #Swiss Valley Cleaners

WorkOrder: 1405427
BatchID: 90510
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-90510

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE) | ND | 20.3 | 0.50 | 20 | - | 102 | 70-130 |
| Ethylbenzene | ND | - | 0.50 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 19.9 | 0.50 | 20 | - | 99.3 | 70-130 |
| Freon 113 | ND | - | 0.50 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.50 | - | - | - | - |
| Hexachloroethane | ND | - | 0.50 | - | - | - | - |
| 2-Hexanone | ND | - | 0.50 | - | - | - | - |
| Isopropylbenzene | ND | - | 0.50 | - | - | - | - |
| 4-Isopropyl toluene | ND | - | 0.50 | - | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 19.7 | 0.50 | 20 | - | 98.6 | 70-130 |
| Methylene chloride | ND | - | 0.50 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | - | 0.50 | - | - | - | - |
| Naphthalene | ND | - | 0.50 | - | - | - | - |
| n-Propyl benzene | ND | - | 0.50 | - | - | - | - |
| Styrene | ND | - | 0.50 | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| Tetrachloroethene | ND | - | 0.50 | - | - | - | - |
| Toluene | ND | 19.0 | 0.50 | 20 | - | 95.2 | 70-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| Trichloroethene | ND | 20.8 | 0.50 | 20 | - | 104 | 70-130 |
| Trichlorofluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,2,3-Trichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| 1,3,5-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| Vinyl Chloride | ND | - | 0.50 | - | - | - | - |
| Xylenes, Total | ND | - | 0.50 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----------------------|------|------|--|-----|-----|-----|--------|
| Dibromofluoromethane | 27.1 | 47.0 | | 45 | 108 | 105 | 70-130 |
| Toluene-d8 | 24.3 | 42.9 | | 45 | 97 | 95 | 70-130 |
| 4-BFB | 2.85 | 4.79 | | 4.5 | 114 | 107 | 70-130 |



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 5/15/14
Date Analyzed: 5/14/14
Instrument: GC24
Matrix: Soilgas
Project: #Swiss Valley Cleaners

WorkOrder: 1405427
BatchID: 90474
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-90474

QC Summary Report for TO15

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|--|-----------|------------|-------|---------|------------|----------|------------|
| Acetone | ND | - | 25 | - | - | - | - |
| Acrolein | ND | 26.0 | 0.50 | 25 | - | 104 | 60-140 |
| Acrylonitrile | ND | 22.0 | 0.50 | 25 | - | 88.1 | 60-140 |
| tert-Amyl methyl ether (TAME) | ND | 26.0 | 0.50 | 25 | - | 104 | 60-140 |
| Benzene | ND | 21.3 | 0.50 | 25 | - | 85.1 | 60-140 |
| Benzyl chloride | ND | 29.2 | 0.50 | 25 | - | 117 | 60-140 |
| Bromodichloromethane | ND | 24.0 | 0.50 | 25 | - | 96.1 | 60-140 |
| Bromoform | ND | 27.7 | 0.50 | 25 | - | 111 | 60-140 |
| Bromomethane | ND | - | 0.50 | - | - | - | - |
| 1,3-Butadiene | ND | - | 0.50 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 25 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | - | 10 | - | - | - | - |
| Carbon Disulfide | ND | 22.7 | 0.50 | 25 | - | 90.8 | 60-140 |
| Carbon Tetrachloride | ND | 24.4 | 0.50 | 25 | - | 97.4 | 60-140 |
| Chlorobenzene | ND | 22.8 | 0.50 | 25 | - | 91.3 | 60-140 |
| Chloroethane | ND | 24.1 | 0.50 | 25 | - | 96.6 | 60-140 |
| Chloroform | ND | 19.1 | 0.50 | 25 | - | 76.3 | 60-140 |
| Chloromethane | ND | 19.2 | 0.50 | 25 | - | 76.9 | 60-140 |
| Cyclohexane | ND | - | 5.0 | - | - | - | - |
| Dibromochloromethane | ND | 25.3 | 0.50 | 25 | - | 101 | 60-140 |
| 1,2-Dibromo-3-chloropropane | ND | 28.9 | 0.012 | 25 | - | 115 | 60-140 |
| 1,2-Dibromoethane (EDB) | ND | 23.0 | 0.50 | 25 | - | 92.2 | 60-140 |
| 1,2-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | 23.6 | 0.50 | 25 | - | 94.5 | 60-140 |
| 1,4-Dichlorobenzene | ND | 22.6 | 0.50 | 25 | - | 90.6 | 60-140 |
| Dichlorodifluoromethane | ND | 21.0 | 0.50 | 25 | - | 84 | 60-140 |
| 1,1-Dichloroethane | ND | 22.6 | 0.50 | 25 | - | 90.5 | 60-140 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 22.0 | 0.50 | 25 | - | 87.9 | 60-140 |
| 1,1-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| cis-1,2-Dichloroethene | ND | 22.2 | 0.50 | 25 | - | 88.8 | 60-140 |
| trans-1,2-Dichloroethene | ND | 21.6 | 0.50 | 25 | - | 86.5 | 60-140 |
| 1,2-Dichloropropane | ND | 22.4 | 0.50 | 25 | - | 89.4 | 60-140 |
| cis-1,3-Dichloropropene | ND | 25.6 | 0.50 | 25 | - | 102 | 60-140 |
| trans-1,3-Dichloropropene | ND | 25.0 | 0.50 | 25 | - | 100 | 60-140 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 20.0 | 0.50 | 25 | - | 80.1 | 60-140 |
| Diisopropyl ether (DIPE) | ND | 22.0 | 0.50 | 25 | - | 88.1 | 60-140 |
| 1,4-Dioxane | ND | 24.8 | 0.50 | 25 | - | 99.1 | 60-140 |
| Ethanol | ND | - | 50 | - | - | - | - |
| Ethyl acetate | ND | 23.0 | 0.50 | 25 | - | 91.8 | 60-140 |
| Ethyl tert-butyl ether (ETBE) | ND | 23.5 | 0.50 | 25 | - | 94.2 | 60-140 |

(Cont.)



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 5/15/14
Date Analyzed: 5/14/14
Instrument: GC24
Matrix: Soilgas
Project: #Swiss Valley Cleaners

WorkOrder: 1405427
BatchID: 90474
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-90474

QC Summary Report for TO15

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-----------------------------|-----------|------------|------|---------|------------|----------|------------|
| Ethylbenzene | ND | 24.2 | 0.50 | 25 | - | 96.6 | 60-140 |
| 4-Ethyltoluene | ND | - | 0.50 | - | - | - | - |
| Freon 113 | ND | 20.2 | 0.50 | 25 | - | 80.9 | 60-140 |
| Heptane | ND | - | 5.0 | - | - | - | - |
| Hexachlorobutadiene | ND | 21.9 | 0.50 | 25 | - | 87.5 | 60-140 |
| Hexane | ND | - | 5.0 | - | - | - | - |
| 2-Hexanone | ND | - | 0.50 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | 23.8 | 0.50 | 25 | - | 95.1 | 60-140 |
| Methyl-t-butyl ether (MTBE) | ND | 24.1 | 0.50 | 25 | - | 96.3 | 60-140 |
| Methylene chloride | ND | 19.6 | 0.50 | 25 | - | 78.6 | 60-140 |
| Methyl methacrylate | ND | 24.1 | 0.50 | 25 | - | 96.3 | 60-140 |
| Naphthalene | ND | 51.0 | 1.0 | 50 | - | 102 | 60-140 |
| Propene | ND | - | 50 | - | - | - | - |
| Styrene | ND | 25.2 | 0.50 | 25 | - | 101 | 60-140 |
| 1,1,1,2-Tetrachloroethane | ND | 23.3 | 0.50 | 25 | - | 93.3 | 60-140 |
| 1,1,2,2-Tetrachloroethane | ND | 22.3 | 0.50 | 25 | - | 89.1 | 60-140 |
| Tetrachloroethene | ND | 24.0 | 0.50 | 25 | - | 96 | 60-140 |
| Tetrahydrofuran | ND | 20.4 | 0.50 | 25 | - | 81.4 | 60-140 |
| Toluene | ND | 23.1 | 0.50 | 25 | - | 92.5 | 60-140 |
| 1,2,4-Trichlorobenzene | ND | 26.1 | 0.50 | 25 | - | 104 | 60-140 |
| 1,1,1-Trichloroethane | ND | 25.9 | 0.50 | 25 | - | 104 | 60-140 |
| 1,1,2-Trichloroethane | ND | 20.0 | 0.50 | 25 | - | 79.9 | 60-140 |
| Trichloroethene | ND | 21.8 | 0.50 | 25 | - | 87.3 | 60-140 |
| Trichlorofluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | 23.2 | 0.50 | 25 | - | 92.7 | 60-140 |
| 1,3,5-Trimethylbenzene | ND | 22.1 | 0.50 | 25 | - | 88.2 | 60-140 |
| Vinyl Acetate | ND | - | 0.50 | - | - | - | - |
| Vinyl Chloride | ND | 20.3 | 0.50 | 25 | - | 81.2 | 60-140 |
| Xylenes, Total | ND | 67.1 | 1.5 | 75 | - | 89.4 | 60-140 |

Surrogate Recovery

| | | | | | | | |
|------------|-----|-----|--|-----|-----|-----|--------|
| 1,2-DCA-d4 | 485 | 475 | | 500 | 97 | 95 | 60-140 |
| Toluene-d8 | 507 | 508 | | 500 | 101 | 102 | 60-140 |
| 4-BFB | 489 | 506 | | 500 | 98 | 101 | 60-140 |

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405427

ClientCode: AGES

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Daniel Villanueva
 Advanced GeoEnvironmental, Inc.
 837 Shaw Road
 Stockton, CA 95215
 (209) 467-1006 FAX: (209) 467-1118

Email: dvillanueva@advgeoenv.com
 cc/3rd Party:
 PO:
 ProjectNo: #Swiss Valley Cleaners

Bill to:
 Erica
 Advanced GeoEnvironmental, Inc.
 837 Shaw Road
 Stockton, CA 95215
 ebart@advgeoenv.com

Requested TAT: 5 days

Date Received: 05/09/2014

Date Printed: 05/12/2014

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|------------------------|------------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1405427-001 | IA-1383 MacArthur | Indoor Air | 5/8/2014 10:12 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1405427-002 | IA-1369-MacArthur | Indoor Air | 5/8/2014 10:26 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1405427-003 | IA-1377 MacArthur | Indoor Air | 5/8/2014 10:30 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1405427-004 | IA-1395 MacArthur | Indoor Air | 5/8/2014 10:43 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1405427-005 | Outside 1395 MacArthur | Indoor Air | 5/8/2014 10:59 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|--------------------------|----|--|---|--|---|--|----|--|
| 1 | 15_SCAN-SIM_Indoor(ug/m) | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

The following SamplIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ADVANCED GEOENVIRONMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1405427

Project: #Swiss Valley Cleaners

Client Contact: Daniel Villanueva

Date Received: 5/9/2014

Comments:

Contact's Email: dvillanueva@advgeoenv.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Number of Containers | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|------------------------|------------|---------------------|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1405427-001A | IA-1383 MacArthur | Indoor Air | TO15 for Indoor Air | 1 | 6L Summa | <input type="checkbox"/> | 5/8/2014 10:12 | 5 days | | <input type="checkbox"/> | |
| 1405427-002A | IA-1369-MacArthur | Indoor Air | TO15 for Indoor Air | 1 | 6L Summa | <input type="checkbox"/> | 5/8/2014 10:26 | 5 days | | <input type="checkbox"/> | |
| 1405427-003A | IA-1377 MacArthur | Indoor Air | TO15 for Indoor Air | 1 | 6L Summa | <input type="checkbox"/> | 5/8/2014 10:30 | 5 days | | <input type="checkbox"/> | |
| 1405427-004A | IA-1395 MacArthur | Indoor Air | TO15 for Indoor Air | 1 | 6L Summa | <input type="checkbox"/> | 5/8/2014 10:43 | 5 days | | <input type="checkbox"/> | |
| 1405427-005A | Outside 1395 MacArthur | Indoor Air | TO15 for Indoor Air | 1 | 6L Summa | <input type="checkbox"/> | 5/8/2014 10:59 | 5 days | | <input type="checkbox"/> | |

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

6L Summa = 6L Summa Canister



Sample Receipt Checklist

Client Name: **Advanced GeoEnvironmental, Inc.**

Date and Time Received: **5/9/2014 10:23:35 PM**

Project Name: **#Swiss Valley Cleaners**

LogIn Reviewed by: **Jena Alfaro**

WorkOrder N°: **1405427** Matrix: Indoor Air

Carrier: Client Drop-In

Chain of Custody (COC) Information

| | | |
|---|---|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

| | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

| | | | |
|--|---|--|--|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: | | NA <input checked="" type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |

* NOTE: If the "No" box is checked, see comments below.

 Comments: