RECEIVED
By Alameda County Environmental Health 9:55 am, Nov 17, 2016

PERJURY STATEMENT

Subject: **1395 MacArthur Boulevard, San Leandro, California**
Indoor Air & Sub-Slab Monitoring Report

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

Mr. Sayed Hussain, agent for
ESC PARTNERS, L. P. and
Mr. William Matthew Brooks
4725 Thornton Avenue
Fremont, CA, 94536

Indoor Air & Sub-Slab Monitoring Report
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

10 November 2016
AGE-Project No. 12-2461

PREPARED FOR:

Mr. William Matthew Brooks
ARDENBROOK

***PREPARED BY*:**

***Advanced* GeoEnvironmental, Inc.**

Environmental • Industrial Hygiene • Geotechnical • Contracting
(800) 511-9300
www.advgeoenv.com

Indoor Air & Sub-Slab Monitoring Report
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

10 November 2016
AGE-Project No. 12-2461

Advanced GeoEnvironmental, Inc.
Environmental • Industrial Hygiene • Geotechnical • Contracting
(800) 511-9300
www.advgeoenv.com

PREPARED BY:

Daniel J. Villanueva
Senior Project Geologist

PROJECT MANAGER:

Daniel J. Villanueva
Senior Project Geologist

REVIEWED BY:

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

Indoor Air & Sub-Slab Monitoring Report
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

TABLE OF CONTENTS

Indoor Air & Sub-Slab Monitoring Report
SWISS VALLEY CLEANERS
1395 MacArthur Boulevard, San Leandro, California

1.0. INTRODUCTION

Advanced GeoEnvironmental, Inc. has prepared this, *Indoor Air and Sub-Slab Monitoring Report,* for the above-referenced site. The scope of work included the sampling of indoor air in the subject (1395 MacArthur Boulevard) and two adjacent suites (1377 and 1383 MacArthur Boulevard) and the sampling of three sub-slab vapor wells (SS-2 through SS-4) at the subject site; SS-1 was not accessible during the sampling event.

The location of the site and the surrounding area are illustrated in Figure 1; detailed maps of site features and boring and soil-vapor sampling locations are included as Figures 2 and 3.

2.0. PROCEDURES

Indoor air and sub-slab vapor well sampling procedures were outlined in the AGE-prepared, *Site Assessment and Sub-Slab Vapor Well Installation Work Plan,* dated 05 November 2014. Procedures were further modified by the Alameda County Environmental Health Services (ACEHS) directive letter, dated 11 March 2014.

2.1. INDOOR AIR SAMPLING

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.

2.1.1. Pre-Field Work Preparations

On 13 October 2016, prior to the start of indoor air sample collection, all suites sampled (1377 [Estudillo Plaza Optometry] 1383 [Solthea Salon & Beauty Supply] and 1395 MacArthur Boulevard [Former Swiss Valley Cleaners]) were inspected to locate indoor contaminant sources and products that could potentially bias the sampling results (Figure 3). Several products with chemicals of concern had been previously identified in 1383 MacArthur Boulevard (Solthea Beauty Supply and Salon). Organic vapor was not

measured during the survey of each building prior to deployment of the indoor air sampling canisters, as historical values had been established.

2.1.2. Indoor Air Sampling

During the October 2016 indoor air sampling event, passive integrated air samples were collected from inside the suites of 1377, 1383 and 1395 MacArthur Boulevard. During the sampling events one 6-liter summa canister was deployed in the center or rear of each of the facilities in areas lacking public access.

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 3.5 milliliters/minute (ml/min) in order to collect air samples over an 24-hour period. Each canister's initial vacuum was measured and recorded to ensure the initial vacuum was greater than 20 inches of mercury (in/Hg); Initial vacuum's were measured at 28 to 30 in/Hg prior to air sample collection.

Upon can retrieval final vacuum measurements were observed between 5 and 8.5 in/Hg.

The air samples were transported under chain-of-custody procedures to Eurofins Air Toxics (EAT) located in Folsom, California. The indoor air samples were analyzed for VOCs in accordance with EPA Method TO-15.

2.2. SUB-SLAB VAPOR WELL SAMPLING

On 13 October 2016 sub-slab vapor points SS-2, SS-3 and SS-4 were sampled; SS-1 was not accessible during the sampling event. During the sampling event, one-liter (sampling) and six-liter Summa purge canisters were used to collect sub-slab vapor samples. The sampling and purge canisters were connected together with a dedicated and serialized sampling inlet manifold. The sampling inlet manifold consisted of a vapor-tight valve; a particulate filter; a calibrated flow restrictor calibrated to 50 milliliters per minute (ml/min); a stainless steel tee-fitting; two vacuum gauges at either end of the flow controller and connections for both purge and sampling canisters (manifold assembly).

The manifold assembly was attached to Teflon® tubing with a compression sleeve and nut, which was attached to a dedicated brass barb that was fitted to the fitting at the top of the sub-slab monitoring point. The threads of each fitting were covered with Teflon® tape to ensure an airtight seal. The purge canister was attached to the end of the sampling manifold, while the sample canister was attached to the middle of the manifold assembly. Teflon® tape was placed on the threads of each fitting of the manifold assembly prior to attaching the sampling and purge canisters.

The initial vacuum of each canister was measured and recorded in inches of mercury (in Hg) on field logs (Appendix A). Leak tests were performed on each assembly by attaching and securing the sample and purge canisters to the manifold and opening the valves on the purge canister and the manifold. The leak test was performed for approximately 10 minutes on each assembly. Adjustments were made (tightening of fittings) and a leak test was performed again, if necessary. Once a proper seal was assured, each sub-slab monitoring location was isolated from ambient air by enclosing the sub-slab point, tubing and manifold/canister assembly in clear plastic shroud. Isopropyl alcohol (IPA) as a liquid was placed in a stainless steel bowl within the plastic shroud and allowed to volatilize into the air enclosed within the shroud surrounding the sub-slab monitoring point, tubing and manifold/canister assembly.

The purge volume was pre-determined prior to sampling by calculating the internal volume of the tubing of the manifold and well volume including filter pack.

Once the sampling apparatus was leak-tested and sealed within the shroud, the purge canister valve was opened for a calculated period of time (35 seconds) to allow the three calculated volumes of air and soil vapor to be purged. The purge vacuum gauge was monitored and recorded to ensure a proper decrease of vacuum purged.

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

The vapor samples were transported by AGE under chain-of-custody procedures to EAT. The sub-slab vapor samples were analyzed for VOCs and iso-propyl alcohol (IPA - tracer gas) in accordance with EPA Method TO-15.

3.0. FINDINGS

Chlorinated hydrocarbon and VOC impact was quantified based on laboratory analysis of indoor air and sub-slab vapor samples collected at the site during the October 2016 investigations.

3.1. ANALYTICAL RESULTS OF INDOOR AIR SAMPLES

Three indoor air samples (IA-1877 MacArthur, IA-1383 MacArthur and IA-1395 MacArthur) were collected at the site during the 13 October 2016 sampling event. All samples were analyzed for VOCs in accordance with EPA method TO-15. Results are summarized below.

IA-1377 MacArthur:

- Ethanol was detected at a concentration of 290 micrograms per cubic meter (µg/m^3);
- Acetone was detected at a concentration of 310 µg/m^3;
- 2-propanol (IPA) was detected at a concentration of 1,000 µg/m^3;
- Freon 12 was detected at a concentration of 1.9 µg/m^3;
- Chloromethane was detected at a concentration of 1.0 µg/m^3;
- Toluene was detected at a concentration of 2.1 µg/m^3;
- Tetrachloroethene (PCE) was detected at a concentration of 5.3 µg/m^3;
- Ethylbenzene was detected at a concentration of 0.88 µg/m^3;
- m,p-xylene was detected at a concentration of 2.9 µg/m^3;
- o-xylene was detected at a concentration of 0.90 µg/m^3;

IA-1383 MacArthur:

- Ethanol was detected at a concentration of 200 µg/m^3;
- Acetone was detected at a concentration of 6,300 µg/m^3;
- IPA was detected at a concentration of 1,900 µg/m^3;
- Freon 12 was detected at a concentration of 2.1 µg/m^3;
- Toluene was detected at a concentration of 14 µg/m^3;
- PCE was detected at a concentration of 7.2 µg/m^3;

IA-1395 MacArthur:

- Freon 11 was detected at a concentration of 0.96µg/m^3;
- Ethanol was detected at a concentration of 33 µg/m^3;
- Acetone was detected at a concentration of 340 µg/m^3;
- IPA was detected at a concentration of 260 µg/m^3;
- 2-Butanone (MEK) was detected at a concentration of 5.6 µg/m^3;
- Tetrahydrofuran was detected at a concentration of 19 µg/m^3;
- Heptane was detected at a concentration of 0.98 µg/m^3;
- Freon 12 was detected at a concentration of 1.9 µg/m^3;
- Chloromethane was detected at a concentration of 0.87 µg/m^3;

- Carbon Tetrachloride was detected at a concentration of 0.35 µg/m^3;
- Benzene was detected at a concentration of 0.42 µg/m^3;
- Toluene was detected at a concentration of 3.1 µg/m^3;
- PCE was detected at a concentration of 40 µg/m^3;
- Ethylbenzene was detected at a concentration of 0.24 µg/m^3;
- m,p-xylene was detected at a concentration of 0.77 µg/m^3;
- o-xylene was detected at a concentration of 0.28 µg/m^3;

A summary of analytical results from samples collected during the October 2016 sampling event are included in Table 1. The laboratory report (EAT work order number 1610390), quality assurance/quality control report, and chain-of-custody form are included in Appendix B. Laboratory analytical was uploaded to the State GeoTracker database under confirmation number 9327719330.

3.2. ANALYTICAL RESULTS OF SUB-SLAB VAPOR SAMPLES

A total of three (3) sub-slab vapor samples were collected at the site in October 2016 and analyzed for VOCs and IPA. The following is a summary of the results:

- PCE was detected in all three sub-slab vapor samples at a maximum concentration of 20,000 µg/m^3 (SS-3); and
- Tracer gas isopropyl alcohol was detected in one of the three samples (SS-2) at a concentration of 79 µg/m^3, which is slightly over the detection limit of 56 µg/m^3.

No other constituents of concern were detected in the sub-slab samples collected during the October 2016 monitoring event. A summary of the analytical results from the sampling event are included in Table 2. The laboratory report (EAT work order number 1610316), quality assurance/quality control report, and chain-of-custody forms are included in Appendix C. Laboratory analytical data was uploaded to the State GeoTracker database under confirmation number 9327719330.

4.0. SUMMARY/CONCLUSIONS

Based upon the findings of this investigation, AGE concludes:

- Based on sub-slab vapor samples and a comparison to indoor air samples collected during the March 2015, December 2015 and October 2016 sampling events, significant attenuation appears to be taking place from five feet bsg to just beneath the concrete slab and into the indoor air. Based on sub-slab vapor

samples and indoor air samples collected during this round of investigation, a significant attenuation in chlorinated hydrocarbon impact is still occurring between the sub-slab and indoor air (Tables 1 and 2).

- However, PCE concentrations detected during this event in sub-slab soil-vapor samples SS-2 though SS-4, remain above the Commercial CHHSL for PCE in soil gas. Accumulation of chlorinated hydrocarbon impact below the slab will likely be addressed following active remediation. Additional sampling should be completed following a significant period of remedial operation to evaluate conditions beneath the concrete slab.
- PCE concentrations detected in indoor air samples were slightly higher in all units in comparison to samples collected during the December 2016 sampling event.
- The proposed corrective action, once initiated, will reduce sub-slab soil-vapor concentrations and likely further reduce indoor air impacts.

5.0. RECOMMENDATIONS

Based on the results of this investigation, AGE recommends that additional sub-slab and indoor air samples be collected in the summer of 2017, following active soil-vapor remediation.

6.0. LIMITATIONS

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

FIGURES

N

SCALE
0 2000 4000
FEET

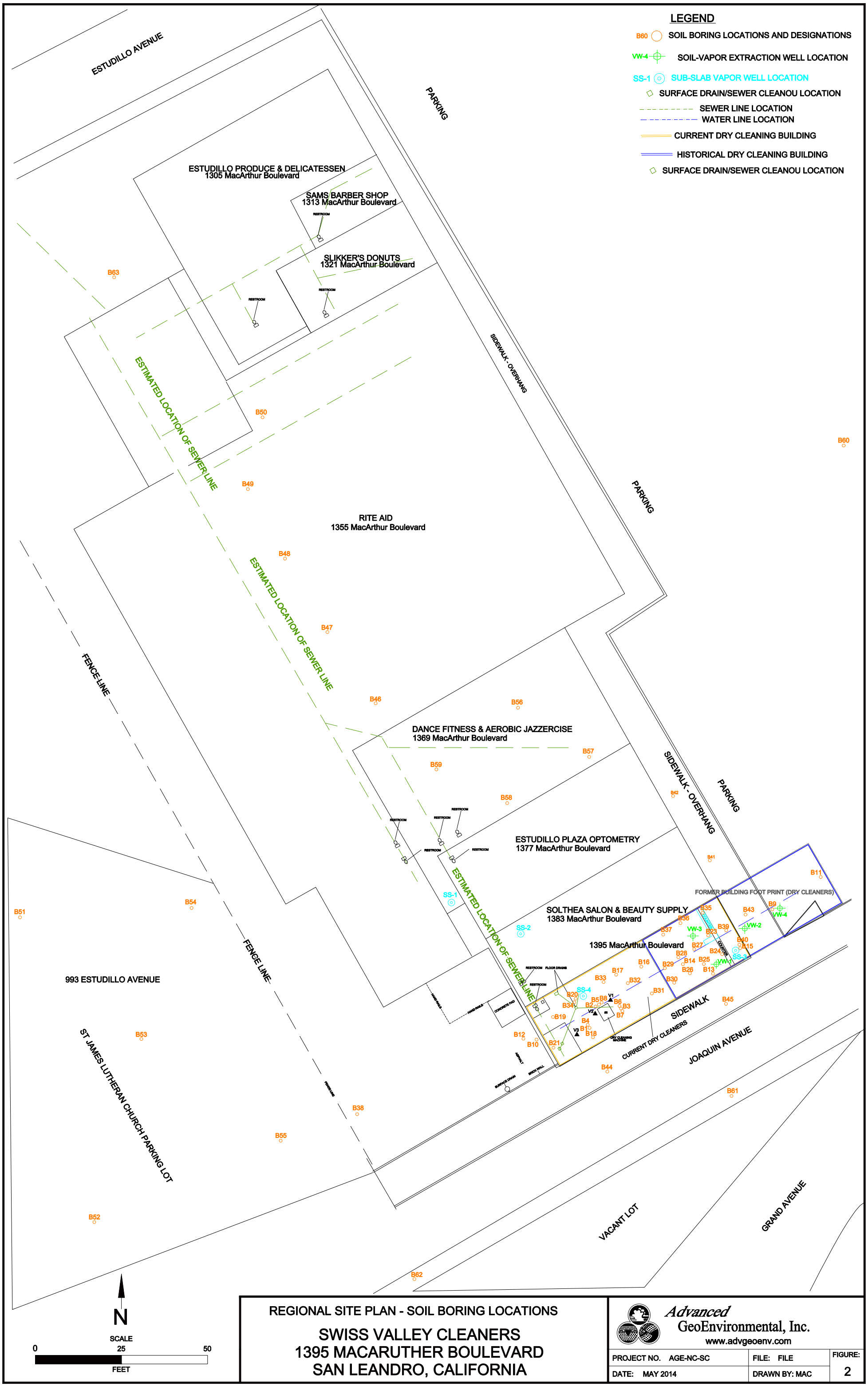
SAN LEANDRO QUADRANGLE, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

LOCATION MAP

SWISS VALLEY CLEANERS
1395 MacArthur Boulevard
SAN LEANDRO, CALIFORNIA

Advanced GeoEnvironmental, Inc.
www.advgeoenv.com

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

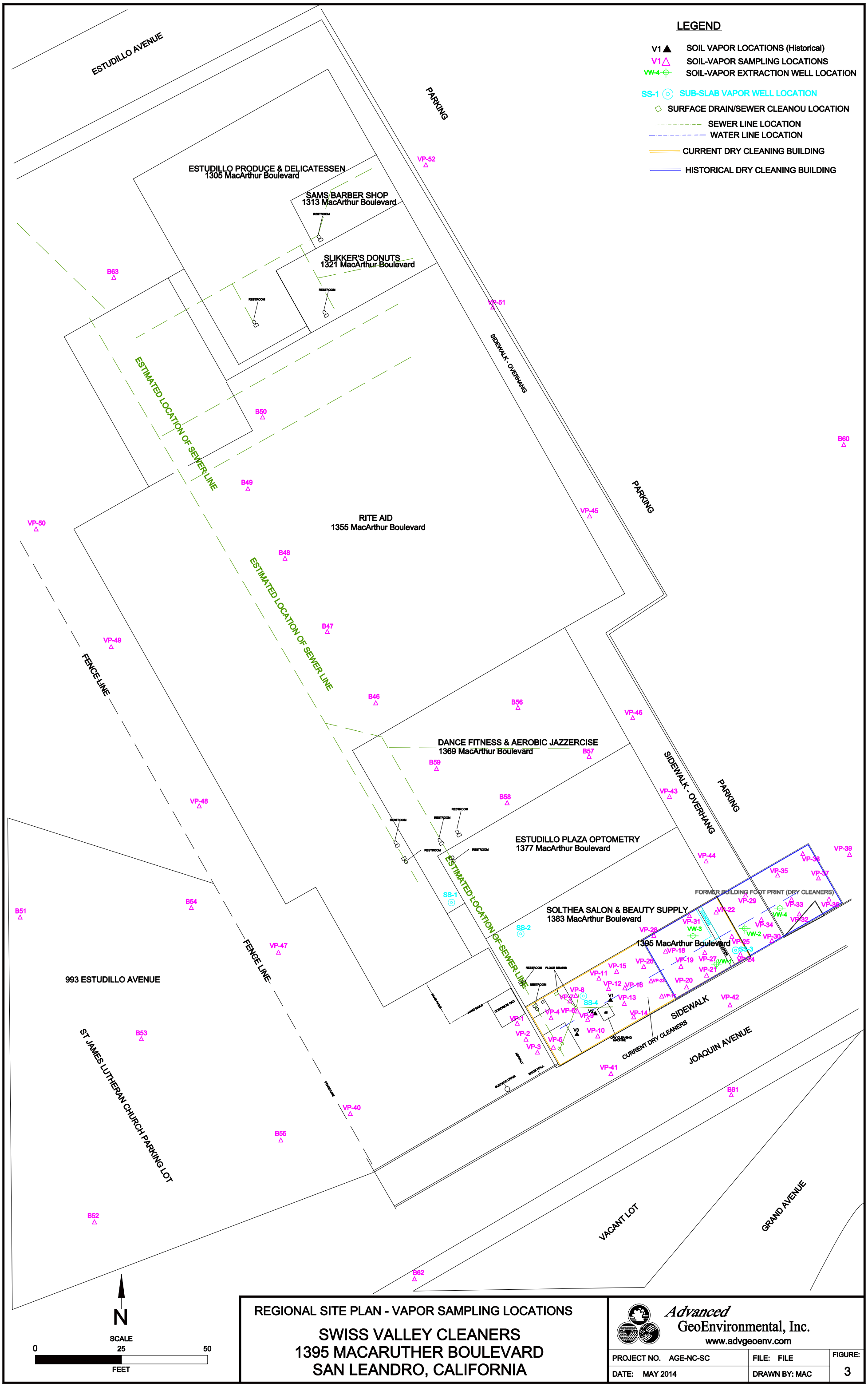


REGIONAL SITE PLAN - SOIL BORING LOCATIONS

SWISS VALLEY CLEANERS
1395 MACARUTHER BOULEVARD
SAN LEANDRO, CALIFORNIA

Advanced GeoEnvironmental, Inc.
www.advgeoenv.com

PROJECT NO. AGE-NC-SC	FILE: FILE	FIGURE: 2
DATE: MAY 2014	DRAWN BY: MAC	



REGIONAL SITE PLAN - VAPOR SAMPLING LOCATIONS

SWISS VALLEY CLEANERS
1395 MACARUTHER BOULEVARD
SAN LEANDRO, CALIFORNIA

Advanced GeoEnvironmental, Inc.
www.advgeoenv.com

PROJECT NO. AGE-NC-SC	FILE: FILE	FIGURE: 3
DATE: MAY 2014	DRAWN BY: MAC	

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**
	03-23-2015	**16**	**0.03**	**0.10**	<0.0078	**0.17**	**0.074**	**110**	**0.46**	**0.50**	**2.3**	<0.44	<1.3	**0.62**	**2.4**	**14.0**	**1.3**	**0.33**
	10-30-2015	**0.77**	<0.17	<0.13	<0.25	-	<0.19	<1.9	<0.20	**0.85**	**3.0**	**0.44**	**2.03**	**1.0**	-	-	-	**0.18**
	10-13-2016	**40**	<0.17	<0.13	<0.25	-	<0.19	<1.9	**0.35**	**0.42**	**3.1**	**0.24**	**1.05**	-	-	-	-	**0.39**
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	**1600**	<0.57	**0.49**
	03-23-2015	**19**	**0.064**	**0.37**	<0.0078	**0.41**	**0.33**	**8,600**	**0.56**	**0.64**	**15**	**0.53**	**2.0**	<0.21	0.89	**580**	0.84	**5.3**
	10-30-2015	**3.5**	<0.17	<1.3	<2.5	-	<1.9	**1,300**	<2.0	<2.6	**5.2**	<1.4	<1.4	**1.7**	-	-	-	<1.6
	10-13-2016	**7.2**	<1.7	<1.3	<2.4	-	<1.9	**6,300**	<2.0	<2.5	**14**	<1.4	<1.4	-	-	-	-	<1.5
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**	**1.10**	<0.0078	**0.38**	**0.37**	**38**	**0.45**	**0.37**	**6.9**	**1.1**	**4.4**	**0.67**	**2.1**	**4.9**	**1**	**0.2**
	10-30-2015	**3.2**	<1.8	<1.3	<2.5	-	<2.0	**97**	<2.1	<2.6	**4.8**	<1.4	<1.4	<1.7	-	-	-	<1.6
	10-13-2016	**5.3**	<0.38	<0.28	<0.54	-	<0.42	**310**	<0.44	<0.56	**2.1**	**0.88**	**3.8**	-	-	-	-	<0.34

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 ambiant and indoor air screening levels for a commercial setting.

TABLE 4

SUB-SLAB VAPOR ANALYTICAL RESULTS
Swiss Valley Cleaners
1395 MacArthur Boulevard, San Leandro, California
(micrograms per cubic meter)

Sample ID	Location	Date	TO-15																					
			Dry Cleaning Constituents						Chemicals from other sources															
			PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	IPA	1,2-DCA	B	T	E	X	1,2-DCP	Ethanol	4-ET	1,2,4-TMB	Ethyl Acetate	Naphthalene	1,3,5-TMB	Acetone	2-Butanone
SS-1	1369 MacArthur Boulvard	03-23-2015	**5,700**	**3.3**	<2.0	<2.0	<2.0	<1.3	<50	<2.0	**42**	**58**	**39**	**190**	<2.4	<96	**53**	**98**	<1.8	<5.3	**64**	<60	<75
		10-30-2015	**1,700**	<5.9	<4.4	<4.4	<4.4	<2.8	<11	<4.5	<3.5	<4.2	<4.8	<4.8	<5.1	<8.3	<5.4	<33	-	-	<5.4	<26	<13
SS-2	1383 MacArthur Boulevard	03-23-2015	**5,400**	<2.8	<2.0	<2.0	<2.0	<1.3	<50	<2.0	**8.6**	**2.2**	<2.2	<6.6	<2.4	<96	<2.5	**9.8**	**4.7**	<5.3	**2.7**	<60	<75
		10-30-2015	**12,000**	<41	<30	<30	<30	<20	<76	<31	<24	<29	<33	<33	<36	<58	<38	<38	-	-	<38	<180	<91
		10-13-2016	**15,000**	<31	<23	<22	<22	<14	**79**	<23	<18	<21	<25	<25	<26	<43	<28	<170	-	-	<28	<140	<67
SS-3	1395 MacArthur Boulevard (Front of Suite)	03-23-2015	**8,300**	**19**	<2.0	<2.0	<2.0	<1.3	<50	<2.0	**13**	**5.1**	**3.9**	**24**	<2.4	<96	**6.2**	**29**	<1.8	<5.3	**6.8**	<60	<75
		10-30-2015	**24,000**	**67**	<46	<46	<46	<29	<110	<46	<37	<43	<50	<50	<53	<87	<56	<56	-	-	<56	<270	<140
		10-13-2016	**20,000**	<73	<55	<54	<54	<35	<130	<55	<43	<51	<59	<59	<63	<100	<67	<67	-	-	<67	<320	<160

TABLE 4

SUB-SLAB VAPOR ANALYTICAL RESULTS
Swiss Valley Cleaners
1395 MacArthur Boulevard, San Leandro, California
(micrograms per cubic meter)

Sample ID	Location	Date	TO-15																				
			Dry Cleaning Constituents						Chemicals from other sources														
			PCE	TCE	1,1-DCE	Trans 1,2-DCE	Cis 1,2-DCE	VC	IPA	1,2-DCA	B	T	E	X	1,2-DCP	Ethanol	4-ET	1,2,4-TMB	Ethyl Acetate	Naphthalene	1,3,5-TMB	Acetone	2-Butanone
SS-4	1395 MacArthur Boulevard (Rear of Suite)	03-23-2015	**7,600**	**5.6**	<2.0	<2.0	<2.0	<1.3	<50	2.2	**17**	**14**	**9.4**	**44**	<2.4	<96	**9.6**	**29**	<1.8	<5.3	**5.7**	<60	<75
		10-30-2015	**21,000**	<48	<48	<47	<47	<30	<120	<48	<38	<45	<51	<51	<55	<89	<58	<58	-	-	<58	<280	<140
		10-13-2016	**19,000**	<40	<30	<29	<29	<19	<72	<48	<23	<28	<32	<32	<34	<55	<36	<36	-	-	<36	<170	<87
CHHSLs (Commercial)			1,600	1,300	-	240,000	120,000	95.0	-	360	280	890,000	3,600	6,700,000	-	-	-	-	-	310	-	-	-
SFBRWCB ESL (Commercial)			2,100	3,000	880,000	2,600,000	-	160	-	580	420	1,300,000	4,900	440,000	1,200	-	-	-	-	360	-	140,000,000	22,000,000

Notes:

SFBRWCB ESL: San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for shallow soil gas

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

CHHSLs: California Human Health Screening Levels (Soil Gas Screening for VOC's below bulidings constructed with engineere fill below sub-slab gravel)

PCE: Tetrachloroethene

TCE: Trichloroethene

1,1-DCE: 1,1-Dichloroethene

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

Cis 1,2-DCE: Cis 1,2-Dichloroethene

VC: Vinyl Chloride

IPA: Isopropyl Alcohol

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

1,2-DCA: 1,2-Dichloroethane

1,2-DCP: 1,2-Dichloropropane

4-ET: 4-Ethyltoluene

1,2,4-TMB: 1,2,4-Trimethylbenzene

1,3,5-TMB: 1,3,5-Trimethylbenzene

APPENDIX A

Soil Vapor Sampling Field Log

Date: 10-13-10 Field Personnel: DJV | KC

Purge Apparatus:	200ml/min low flow pump
Purge Volume:	118 ml
Purge Time:	~36 seconds
Sample Canister Total Volume:	6.0L

Field Point: SS-2 (Solthea) **Sample ID:** SS-2 = 0.7 ppm

		Purge		Sample	
Canister #:	36406	Initial	Post	Initial	Post
Manifold#:	30805				
Time		1021	1022	1027	1029
Pressure (in Hg)		-	-	29 Hg	4 Hg
Manifold Leak Test (10 Minutes):					
Start Time:	1018		End Time:	1028	

Field Point: SS-3 (Front of SUV) **Sample ID:** = 0.2 ppm

		Purge		Sample	
Canister #:	20049	Initial	Post	Initial	Post
Manifold#:	100601				
Time		1046	1047	1048	1053
Pressure (in Hg)				28 Hg	4 Hg
Manifold Leak Test (10 Minutes):					
Start Time:	1030		End Time:	1040	

Field Point: SS-4 (Rear of SUV) **Sample ID:** = 0.7 ppm

		Purge		Sample	
Canister #:	27381	Initial	Post	Initial	Post
Manifold#:	30966				
Time		1112	1113	1114	1122
Pressure (in Hg)				29 Hg	4 Hg
Manifold Leak Test (10 Minutes):					
Start Time:	1100		End Time:	1110	

Field Point: [redacted] **Sample ID:**

		Purge		Sample	
Canister #:		Initial	Post	Initial	Post
Manifold#:					
Time					
Pressure (in Hg)					
Manifold Leak Test (10 Minutes):					
Start Time:			End Time:		

APPENDIX B

eurofins | Air Toxics

10/29/2016
Mr. Daniel Villanueva
Advanced GeoEnvironmental
837 Shaw Road

Stockton CA 95215

Project Name: Swiss Valley Cleaners
Project #: Swiss Valley Cleaners
Workorder #: 1610390

Dear Mr. Daniel Villanueva

The following report includes the data for the above referenced project for sample(s) received on 10/18/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1610390

Work Order Summary

CLIENT:	Mr. Daniel Villanueva Advanced GeoEnvironmental 837 Shaw Road Stockton, CA 95215	**BILL TO:**	Mr. Daniel Villanueva Advanced GeoEnvironmental 837 Shaw Road Stockton, CA 95215
PHONE:	209-467-1006	**P.O. #**	Swiss Valley Cleaners
FAX:	209-467-1118	**PROJECT #**	Swiss Valley Cleaners Swiss Valley Cleaners
DATE RECEIVED:	10/18/2016	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	10/29/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IA-1377 MacArthur	Modified TO-15	7.1 "Hg	5 psi
01B	IA-1377 MacArthur	Modified TO-15	7.1 "Hg	5 psi
02A	IA-1395 MacArthur	Modified TO-15	4.9 "Hg	5.1 psi
02B	IA-1395 MacArthur	Modified TO-15	4.9 "Hg	5.1 psi
03A	IA-1383 MacArthur	Modified TO-15	4.5 "Hg	5 psi
03B	IA-1383 MacArthur	Modified TO-15	4.5 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 10/29/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Std Full Scan/SIM
Advanced GeoEnvironmental
Workorder# 1610390

Three 6 Liter Summa Canister (SIM Certified) samples were received on October 18, 2016. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to </= 40% RSD	For SIM only: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to </= 40% RSD
Daily Calibration	+- 30% Difference	For Std. Full Scan: </= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	For SIM only: Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample IA-1383 MacArthur did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on samples IA-1377 MacArthur and IA-1383 MacArthur due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

eurofins | Air Toxics

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-1377 MacArthur

Lab ID#: 1610390-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	1.8	150 E	3.3	290 E
Acetone	1.8	130	4.2	310
2-Propanol	1.8	420 E	4.3	1000 E

Client Sample ID: IA-1377 MacArthur

Lab ID#: 1610390-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.070	0.39	0.35	1.9
Chloromethane	0.18	0.48	0.36	1.0
Toluene	0.070	0.57	0.26	2.1
Tetrachloroethene	0.070	0.78	0.48	5.3
Ethyl Benzene	0.070	0.20	0.30	0.88
m,p-Xylene	0.14	0.67	0.61	2.9
o-Xylene	0.070	0.21	0.30	0.90

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.16	0.17	0.90	0.96
Ethanol	0.80	17	1.5	33
Acetone	0.80	140 E	1.9	340 E
2-Propanol	0.80	110 E	2.0	260 E
2-Butanone (Methyl Ethyl Ketone)	0.80	1.9	2.4	5.6
Tetrahydrofuran	0.80	6.6	2.4	19
Heptane	0.16	0.24	0.66	0.98

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

eurofins | Air Toxics

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.39	0.16	1.9
Chloromethane	0.080	0.42	0.17	0.87
Chloroform	0.032	0.080	0.16	0.39
Carbon Tetrachloride	0.032	0.055	0.20	0.35
Benzene	0.080	0.13	0.26	0.42
Toluene	0.032	0.83	0.12	3.1
Tetrachloroethene	0.032	5.8	0.22	40
Ethyl Benzene	0.032	0.055	0.14	0.24
m,p-Xylene	0.064	0.18	0.28	0.77
o-Xylene	0.032	0.064	0.14	0.28

Client Sample ID: IA-1383 MacArthur

Lab ID#: 1610390-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7.9	110	15	200
Acetone	7.9	2600 E	19	6300 E
2-Propanol	7.9	760 E	19	1900 E

Client Sample ID: IA-1383 MacArthur

Lab ID#: 1610390-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.43	1.6	2.1
Toluene	0.32	3.8	1.2	14
Tetrachloroethene	0.32	1.1	2.1	7.2

eurofins | Air Toxics

Client Sample ID: IA-1377 MacArthur

Lab ID#: 1610390-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102611**	**Date of Collection:**	**10/14/16 11:55:00 A**
Dil. Factor:	**3.52**	**Date of Analysis:**	**10/26/16 02:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.35	Not Detected	0.78	Not Detected
Bromomethane	1.8	Not Detected	6.8	Not Detected
Freon 11	0.35	Not Detected	2.0	Not Detected
Ethanol	1.8	150 E	3.3	290 E
Freon 113	0.35	Not Detected	2.7	Not Detected
Acetone	1.8	130	4.2	310
2-Propanol	1.8	420 E	4.3	1000 E
Carbon Disulfide	1.8	Not Detected	5.5	Not Detected
3-Chloropropene	1.8	Not Detected	5.5	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Hexane	0.35	Not Detected	1.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.8	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.2	Not Detected
Cyclohexane	0.35	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	1.8	Not Detected	8.2	Not Detected
Heptane	0.35	Not Detected	1.4	Not Detected
1,2-Dichloropropane	0.35	Not Detected	1.6	Not Detected
1,4-Dioxane	0.35	Not Detected	1.3	Not Detected
Bromodichloromethane	0.35	Not Detected	2.4	Not Detected
cis-1,3-Dichloropropene	0.35	Not Detected	1.6	Not Detected
4-Methyl-2-pentanone	0.35	Not Detected	1.4	Not Detected
trans-1,3-Dichloropropene	0.35	Not Detected	1.6	Not Detected
2-Hexanone	1.8	Not Detected	7.2	Not Detected
Dibromochloromethane	0.35	Not Detected	3.0	Not Detected
Chlorobenzene	0.35	Not Detected	1.6	Not Detected
Styrene	0.35	Not Detected	1.5	Not Detected
Bromoform	0.35	Not Detected	3.6	Not Detected
Cumene	0.35	Not Detected	1.7	Not Detected
Propylbenzene	0.35	Not Detected	1.7	Not Detected
4-Ethyltoluene	0.35	Not Detected	1.7	Not Detected
1,3,5-Trimethylbenzene	0.35	Not Detected	1.7	Not Detected
1,2,4-Trimethylbenzene	0.35	Not Detected	1.7	Not Detected
1,3-Dichlorobenzene	0.35	Not Detected	2.1	Not Detected
alpha-Chlorotoluene	0.35	Not Detected	1.8	Not Detected
1,2-Dichlorobenzene	0.35	Not Detected	2.1	Not Detected
1,2,4-Trichlorobenzene	1.8	Not Detected	13	Not Detected
Hexachlorobutadiene	1.8	Not Detected	19	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits

eurofins | Air Toxics

Client Sample ID: IA-1377 MacArthur

Lab ID#: 1610390-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102611**	**Date of Collection:**	**10/14/16 11:55:00 A**
Dil. Factor:	**3.52**	**Date of Analysis:**	**10/26/16 02:58 PM**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: IA-1377 MacArthur

Lab ID#: 1610390-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102611sim**	**Date of Collection: 10/14/16 11:55:00 A**	
Dil. Factor:	**3.52**	**Date of Analysis: 10/26/16 02:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.070	0.39	0.35	1.9
Freon 114	0.070	Not Detected	0.49	Not Detected
Chloromethane	0.18	0.48	0.36	1.0
Vinyl Chloride	0.035	Not Detected	0.090	Not Detected
Chloroethane	0.18	Not Detected	0.46	Not Detected
1,1-Dichloroethene	0.035	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.35	Not Detected	1.4	Not Detected
Methyl tert-butyl ether	0.35	Not Detected	1.3	Not Detected
1,1-Dichloroethane	0.070	Not Detected	0.28	Not Detected
cis-1,2-Dichloroethene	0.070	Not Detected	0.28	Not Detected
Chloroform	0.070	Not Detected	0.34	Not Detected
1,1,1-Trichloroethane	0.070	Not Detected	0.38	Not Detected
Carbon Tetrachloride	0.070	Not Detected	0.44	Not Detected
Benzene	0.18	Not Detected	0.56	Not Detected
1,2-Dichloroethane	0.070	Not Detected	0.28	Not Detected
Trichloroethene	0.070	Not Detected	0.38	Not Detected
Toluene	0.070	0.57	0.26	2.1
1,1,2-Trichloroethane	0.070	Not Detected	0.38	Not Detected
Tetrachloroethene	0.070	0.78	0.48	5.3
1,2-Dibromoethane (EDB)	0.070	Not Detected	0.54	Not Detected
Ethyl Benzene	0.070	0.20	0.30	0.88
m,p-Xylene	0.14	0.67	0.61	2.9
o-Xylene	0.070	0.21	0.30	0.90
1,1,2,2-Tetrachloroethane	0.070	Not Detected	0.48	Not Detected
1,4-Dichlorobenzene	0.070	Not Detected	0.42	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102610**	**Date of Collection:**	**10/14/16 10:53:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/26/16 02:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Freon 11	0.16	0.17	0.90	0.96
Ethanol	0.80	17	1.5	33
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	140 E	1.9	340 E
2-Propanol	0.80	110 E	2.0	260 E
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	1.9	2.4	5.6
Tetrahydrofuran	0.80	6.6	2.4	19
Cyclohexane	0.16	Not Detected	0.55	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.16	0.24	0.66	0.98
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits

eurofins | Air Toxics

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102610**	**Date of Collection:**	**10/14/16 10:53:00 A**
Dil. Factor:	**1.61**	**Date of Analysis:**	**10/26/16 02:15 PM**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: IA-1395 MacArthur

Lab ID#: 1610390-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102610sim**	**Date of Collection: 10/14/16 10:53:00 A**	
Dil. Factor:	**1.61**	**Date of Analysis: 10/26/16 02:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.39	0.16	1.9
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.080	0.42	0.17	0.87
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Chloroethane	0.080	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.080	0.16	0.39
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.055	0.20	0.35
Benzene	0.080	0.13	0.26	0.42
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.83	0.12	3.1
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	5.8	0.22	40
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.032	0.055	0.14	0.24
m,p-Xylene	0.064	0.18	0.28	0.77
o-Xylene	0.032	0.064	0.14	0.28
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: IA-1383 MacArthur

Lab ID#: 1610390-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102612**	**Date of Collection:**	**10/14/16 10:23:00 A**
Dil. Factor:	**15.8**	**Date of Analysis:**	**10/26/16 03:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.6	Not Detected	3.5	Not Detected
Bromomethane	7.9	Not Detected	31	Not Detected
Freon 11	1.6	Not Detected	8.9	Not Detected
Ethanol	7.9	110	15	200
Freon 113	1.6	Not Detected	12	Not Detected
Acetone	7.9	2600 E	19	6300 E
2-Propanol	7.9	760 E	19	1900 E
Carbon Disulfide	7.9	Not Detected	25	Not Detected
3-Chloropropene	7.9	Not Detected	25	Not Detected
Methylene Chloride	3.2	Not Detected	11	Not Detected
Hexane	1.6	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.9	Not Detected	23	Not Detected
Tetrahydrofuran	7.9	Not Detected	23	Not Detected
Cyclohexane	1.6	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	7.9	Not Detected	37	Not Detected
Heptane	1.6	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.3	Not Detected
1,4-Dioxane	1.6	Not Detected	5.7	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.5	Not Detected
trans-1,3-Dichloropropene	1.6	Not Detected	7.2	Not Detected
2-Hexanone	7.9	Not Detected	32	Not Detected
Dibromochloromethane	1.6	Not Detected	13	Not Detected
Chlorobenzene	1.6	Not Detected	7.3	Not Detected
Styrene	1.6	Not Detected	6.7	Not Detected
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	Not Detected	7.8	Not Detected
Propylbenzene	1.6	Not Detected	7.8	Not Detected
4-Ethyltoluene	1.6	Not Detected	7.8	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	7.8	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.5	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.2	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.5	Not Detected
1,2,4-Trichlorobenzene	7.9	Not Detected	59	Not Detected
Hexachlorobutadiene	7.9	Not Detected	84	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits

eurofins | Air Toxics

Client Sample ID: IA-1383 MacArthur

Lab ID#: 1610390-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102612**	**Date of Collection:**	**10/14/16 10:23:00 A**
Dil. Factor:	**15.8**	**Date of Analysis:**	**10/26/16 03:42 PM**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: IA-1383 MacArthur

Lab ID#: 1610390-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102612sim**	**Date of Collection: 10/14/16 10:23:00 A**	
Dil. Factor:	**15.8**	**Date of Analysis: 10/26/16 03:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.43	1.6	2.1
Freon 114	0.32	Not Detected	2.2	Not Detected
Chloromethane	0.79	Not Detected	1.6	Not Detected
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.7	Not Detected
1,1-Dichloroethane	0.32	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.32	Not Detected	1.2	Not Detected
Chloroform	0.32	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.32	Not Detected	2.0	Not Detected
Benzene	0.79	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.32	Not Detected	1.3	Not Detected
Trichloroethene	0.32	Not Detected	1.7	Not Detected
Toluene	0.32	3.8	1.2	14
1,1,2-Trichloroethane	0.32	Not Detected	1.7	Not Detected
Tetrachloroethene	0.32	1.1	2.1	7.2
1,2-Dibromoethane (EDB)	0.32	Not Detected	2.4	Not Detected
Ethyl Benzene	0.32	Not Detected	1.4	Not Detected
m,p-Xylene	0.63	Not Detected	2.7	Not Detected
o-Xylene	0.32	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.32	Not Detected	2.2	Not Detected
1,4-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1610390-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 11:48 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1610390-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 11:48 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1610390-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102607sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 11:48 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.050	Not Detected	0.10	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1610390-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 07:48 AM**	

Compound	%Recovery
1,3-Butadiene	86
Bromomethane	91
Freon 11	86
Ethanol	86
Freon 113	84
Acetone	88
2-Propanol	90
Carbon Disulfide	79
3-Chloropropene	82
Methylene Chloride	84
Hexane	87
2-Butanone (Methyl Ethyl Ketone)	84
Tetrahydrofuran	92
Cyclohexane	85
2,2,4-Trimethylpentane	88
Heptane	92
1,2-Dichloropropane	89
1,4-Dioxane	88
Bromodichloromethane	89
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	92
trans-1,3-Dichloropropene	85
2-Hexanone	90
Dibromochloromethane	90
Chlorobenzene	85
Styrene	89
Bromoform	92
Cumene	89
Propylbenzene	88
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	91
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	85
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1610390-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 07:48 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1610390-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102602sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 07:48 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	84
Chloromethane	87
Vinyl Chloride	86
Chloroethane	86
1,1-Dichloroethene	79
trans-1,2-Dichloroethene	80
Methyl tert-butyl ether	83
1,1-Dichloroethane	86
cis-1,2-Dichloroethene	79
Chloroform	80
1,1,1-Trichloroethane	83
Carbon Tetrachloride	80
Benzene	80
1,2-Dichloroethane	85
Trichloroethene	80
Toluene	86
1,1,2-Trichloroethane	87
Tetrachloroethene	82
1,2-Dibromoethane (EDB)	83
Ethyl Benzene	89
m,p-Xylene	88
o-Xylene	87
1,1,2,2-Tetrachloroethane	88
1,4-Dichlorobenzene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1610390-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 08:32 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	106	70-130
Bromomethane	115	70-130
Freon 11	106	70-130
Ethanol	69 Q	70-130
Freon 113	102	70-130
Acetone	106	70-130
2-Propanol	106	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	101	70-130
Methylene Chloride	102	70-130
Hexane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
Tetrahydrofuran	111	70-130
Cyclohexane	109	70-130
2,2,4-Trimethylpentane	105	70-130
Heptane	118	70-130
1,2-Dichloropropane	113	70-130
1,4-Dioxane	109	70-130
Bromodichloromethane	114	70-130
cis-1,3-Dichloropropene	112	70-130
4-Methyl-2-pentanone	115	70-130
trans-1,3-Dichloropropene	104	70-130
2-Hexanone	107	70-130
Dibromochloromethane	112	70-130
Chlorobenzene	108	70-130
Styrene	110	70-130
Bromoform	117	70-130
Cumene	111	70-130
Propylbenzene	109	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	107	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	105	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1610390-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 08:32 AM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1610390-06AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 09:21 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	106	70-130
Bromomethane	112	70-130
Freon 11	106	70-130
Ethanol	70	70-130
Freon 113	104	70-130
Acetone	107	70-130
2-Propanol	107	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	102	70-130
Methylene Chloride	103	70-130
Hexane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
Tetrahydrofuran	110	70-130
Cyclohexane	107	70-130
2,2,4-Trimethylpentane	105	70-130
Heptane	114	70-130
1,2-Dichloropropane	111	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	112	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	114	70-130
trans-1,3-Dichloropropene	105	70-130
2-Hexanone	107	70-130
Dibromochloromethane	112	70-130
Chlorobenzene	107	70-130
Styrene	110	70-130
Bromoform	116	70-130
Cumene	110	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	109	70-130
1,2,4-Trimethylbenzene	103	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	84	70-130
Hexachlorobutadiene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1610390-06AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 09:21 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1610390-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102603sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 08:32 AM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	108	70-130
Chloromethane	114	70-130
Vinyl Chloride	113	70-130
Chloroethane	112	70-130
1,1-Dichloroethene	95	70-130
trans-1,2-Dichloroethene	100	70-130
Methyl tert-butyl ether	104	70-130
1,1-Dichloroethane	104	70-130
cis-1,2-Dichloroethene	95	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	104	70-130
Carbon Tetrachloride	104	60-140
Benzene	99	70-130
1,2-Dichloroethane	102	70-130
Trichloroethene	100	70-130
Toluene	107	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	101	70-130
1,2-Dibromoethane (EDB)	102	70-130
Ethyl Benzene	111	70-130
m,p-Xylene	109	70-130
o-Xylene	110	70-130
1,1,2,2-Tetrachloroethane	106	70-130
1,4-Dichlorobenzene	102	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1610390-06BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**e102604sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/16 09:21 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	107	70-130
Chloromethane	112	70-130
Vinyl Chloride	112	70-130
Chloroethane	111	70-130
1,1-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	98	70-130
Methyl tert-butyl ether	103	70-130
1,1-Dichloroethane	104	70-130
cis-1,2-Dichloroethene	94	70-130
Chloroform	98	70-130
1,1,1-Trichloroethane	103	70-130
Carbon Tetrachloride	103	60-140
Benzene	98	70-130
1,2-Dichloroethane	100	70-130
Trichloroethene	99	70-130
Toluene	105	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	100	70-130
1,2-Dibromoethane (EDB)	102	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	106	70-130
o-Xylene	108	70-130
1,1,2,2-Tetrachloroethane	106	70-130
1,4-Dichlorobenzene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager David Villanueva

Collected by: (Print and Sign) David Villanueva

Company AGE Email dvillanueva@advsciconv.com

Address 837 Shaw Rd City Stockton State CA Zip 95215

Phone 209-467-1000 Fax 209-467-1118

Project Info:
P.O. # Swiss Valley Cleaners
Project # Swiss Valley Cleaners
Project Name Swiss Valley Cleaners

Turn Around Time:
[X] Normal
[ ] Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01a	IA-1377 MacArthur	N0600	10-13-16 10-14-16	1155	TO-15	30	8.5		
02a	IA-1395 MacArthur	00408	10-13-16 10-14-16	1053	TO-15	30	6		
03a	IA-1383 MacArthur	SH39712	10-13-16 10-14-16	1023	TO-15	28	5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	10-17-16	Andrea Augustin EATL	10/18/16 1015
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	OnTrac		NA	Good	Yes No (None)	1510390

APPENDIX C

eurofins | Air Toxics

10/26/2016
Mr. Daniel Villanueva
Advanced GeoEnvironmental
837 Shaw Road

Stockton CA 95215

Project Name: Swiss Valley Cleaners
Project #:
Workorder #: 1610316

Dear Mr. Daniel Villanueva

The following report includes the data for the above referenced project for sample(s) received on 10/14/2016 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1610316

Work Order Summary

CLIENT:	Mr. Daniel Villanueva Advanced GeoEnvironmental 837 Shaw Road Stockton, CA 95215	**BILL TO:**	Mr. Daniel Villanueva Advanced GeoEnvironmental 837 Shaw Road Stockton, CA 95215
PHONE:	209-467-1006	**P.O. #**	
FAX:	209-467-1118	**PROJECT #**	Swiss Valley Cleaners
DATE RECEIVED:	10/14/2016	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	10/26/2016		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SS-2	TO-15	3.1 "Hg	15.3 psi
02A	SS-3	TO-15	8 "Hg	14.6 psi
03A	SS-4	TO-15	2.6 "Hg	14.9 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 10/26/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Advanced GeoEnvironmental
Workorder# 1610316

Three 1 Liter Summa Canister samples were received on October 14, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SS-2, SS-3 and SS-4 due to the presence of high level target species.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

eurofins | Air Toxics

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS-2

Lab ID#: 1610316-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	23	32	56	79
Tetrachloroethene	5.7	2200	39	15000

Client Sample ID: SS-3

Lab ID#: 1610316-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	14	3000	92	20000

Client Sample ID: SS-4

Lab ID#: 1610316-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	7.4	2800	50	19000

eurofins | Air Toxics

Client Sample ID: SS-2

Lab ID#: 1610316-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102522**	**Date of Collection:**	**10/13/16 10:22:00 A**
Dil. Factor:	**11.4**	**Date of Analysis:**	**10/25/16 11:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.7	Not Detected	28	Not Detected
Freon 114	5.7	Not Detected	40	Not Detected
Chloromethane	57	Not Detected	120	Not Detected
Vinyl Chloride	5.7	Not Detected	14	Not Detected
1,3-Butadiene	5.7	Not Detected	13	Not Detected
Bromomethane	57	Not Detected	220	Not Detected
Chloroethane	23	Not Detected	60	Not Detected
Freon 11	5.7	Not Detected	32	Not Detected
Ethanol	23	Not Detected	43	Not Detected
Freon 113	5.7	Not Detected	44	Not Detected
1,1-Dichloroethene	5.7	Not Detected	23	Not Detected
Acetone	57	Not Detected	140	Not Detected
2-Propanol	23	32	56	79
Carbon Disulfide	23	Not Detected	71	Not Detected
3-Chloropropene	23	Not Detected	71	Not Detected
Methylene Chloride	57	Not Detected	200	Not Detected
Methyl tert-butyl ether	23	Not Detected	82	Not Detected
trans-1,2-Dichloroethene	5.7	Not Detected	22	Not Detected
Hexane	5.7	Not Detected	20	Not Detected
1,1-Dichloroethane	5.7	Not Detected	23	Not Detected
2-Butanone (Methyl Ethyl Ketone)	23	Not Detected	67	Not Detected
cis-1,2-Dichloroethene	5.7	Not Detected	22	Not Detected
Tetrahydrofuran	5.7	Not Detected	17	Not Detected
Chloroform	5.7	Not Detected	28	Not Detected
1,1,1-Trichloroethane	5.7	Not Detected	31	Not Detected
Cyclohexane	5.7	Not Detected	20	Not Detected
Carbon Tetrachloride	5.7	Not Detected	36	Not Detected
2,2,4-Trimethylpentane	5.7	Not Detected	27	Not Detected
Benzene	5.7	Not Detected	18	Not Detected
1,2-Dichloroethane	5.7	Not Detected	23	Not Detected
Heptane	5.7	Not Detected	23	Not Detected
Trichloroethene	5.7	Not Detected	31	Not Detected
1,2-Dichloropropane	5.7	Not Detected	26	Not Detected
1,4-Dioxane	23	Not Detected	82	Not Detected
Bromodichloromethane	5.7	Not Detected	38	Not Detected
cis-1,3-Dichloropropene	5.7	Not Detected	26	Not Detected
4-Methyl-2-pentanone	5.7	Not Detected	23	Not Detected
Toluene	5.7	Not Detected	21	Not Detected
trans-1,3-Dichloropropene	5.7	Not Detected	26	Not Detected
1,1,2-Trichloroethane	5.7	Not Detected	31	Not Detected
Tetrachloroethene	5.7	2200	39	15000
2-Hexanone	23	Not Detected	93	Not Detected

eurofins | Air Toxics

Client Sample ID: SS-2

Lab ID#: 1610316-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102522**	**Date of Collection:**	**10/13/16 10:22:00 A**
Dil. Factor:	**11.4**	**Date of Analysis:**	**10/25/16 11:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.7	Not Detected	48	Not Detected
1,2-Dibromoethane (EDB)	5.7	Not Detected	44	Not Detected
Chlorobenzene	5.7	Not Detected	26	Not Detected
Ethyl Benzene	5.7	Not Detected	25	Not Detected
m,p-Xylene	5.7	Not Detected	25	Not Detected
o-Xylene	5.7	Not Detected	25	Not Detected
Styrene	5.7	Not Detected	24	Not Detected
Bromoform	5.7	Not Detected	59	Not Detected
Cumene	5.7	Not Detected	28	Not Detected
1,1,2,2-Tetrachloroethane	5.7	Not Detected	39	Not Detected
Propylbenzene	5.7	Not Detected	28	Not Detected
4-Ethyltoluene	5.7	Not Detected	28	Not Detected
1,3,5-Trimethylbenzene	5.7	Not Detected	28	Not Detected
1,2,4-Trimethylbenzene	5.7	Not Detected	28	Not Detected
1,3-Dichlorobenzene	5.7	Not Detected	34	Not Detected
1,4-Dichlorobenzene	5.7	Not Detected	34	Not Detected
alpha-Chlorotoluene	5.7	Not Detected	30	Not Detected
1,2-Dichlorobenzene	5.7	Not Detected	34	Not Detected
1,2,4-Trichlorobenzene	23	Not Detected	170	Not Detected
Hexachlorobutadiene	23	Not Detected	240	Not Detected
TPH ref. to Gasoline (MW=100)	570	Not Detected	2300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: SS-3

Lab ID#: 1610316-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102532**	**Date of Collection:**	**10/13/16 10:48:00 A**
Dil. Factor:	**27.2**	**Date of Analysis:**	**10/26/16 08:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	67	Not Detected
Freon 114	14	Not Detected	95	Not Detected
Chloromethane	140	Not Detected	280	Not Detected
Vinyl Chloride	14	Not Detected	35	Not Detected
1,3-Butadiene	14	Not Detected	30	Not Detected
Bromomethane	140	Not Detected	530	Not Detected
Chloroethane	54	Not Detected	140	Not Detected
Freon 11	14	Not Detected	76	Not Detected
Ethanol	54	Not Detected	100	Not Detected
Freon 113	14	Not Detected	100	Not Detected
1,1-Dichloroethene	14	Not Detected	54	Not Detected
Acetone	140	Not Detected	320	Not Detected
2-Propanol	54	Not Detected	130	Not Detected
Carbon Disulfide	54	Not Detected	170	Not Detected
3-Chloropropene	54	Not Detected	170	Not Detected
Methylene Chloride	140	Not Detected	470	Not Detected
Methyl tert-butyl ether	54	Not Detected	200	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	54	Not Detected
Hexane	14	Not Detected	48	Not Detected
1,1-Dichloroethane	14	Not Detected	55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	54	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	14	Not Detected	54	Not Detected
Tetrahydrofuran	14	Not Detected	40	Not Detected
Chloroform	14	Not Detected	66	Not Detected
1,1,1-Trichloroethane	14	Not Detected	74	Not Detected
Cyclohexane	14	Not Detected	47	Not Detected
Carbon Tetrachloride	14	Not Detected	86	Not Detected
2,2,4-Trimethylpentane	14	Not Detected	64	Not Detected
Benzene	14	Not Detected	43	Not Detected
1,2-Dichloroethane	14	Not Detected	55	Not Detected
Heptane	14	Not Detected	56	Not Detected
Trichloroethene	14	Not Detected	73	Not Detected
1,2-Dichloropropane	14	Not Detected	63	Not Detected
1,4-Dioxane	54	Not Detected	200	Not Detected
Bromodichloromethane	14	Not Detected	91	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	62	Not Detected
4-Methyl-2-pentanone	14	Not Detected	56	Not Detected
Toluene	14	Not Detected	51	Not Detected
trans-1,3-Dichloropropene	14	Not Detected	62	Not Detected
1,1,2-Trichloroethane	14	Not Detected	74	Not Detected
Tetrachloroethene	14	3000	92	20000
2-Hexanone	54	Not Detected	220	Not Detected

eurofins | Air Toxics

Client Sample ID: SS-3

Lab ID#: 1610316-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102532**	**Date of Collection:**	**10/13/16 10:48:00 A**
Dil. Factor:	**27.2**	**Date of Analysis:**	**10/26/16 08:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	100	Not Detected
Chlorobenzene	14	Not Detected	63	Not Detected
Ethyl Benzene	14	Not Detected	59	Not Detected
m,p-Xylene	14	Not Detected	59	Not Detected
o-Xylene	14	Not Detected	59	Not Detected
Styrene	14	Not Detected	58	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	67	Not Detected
1,1,2,2-Tetrachloroethane	14	Not Detected	93	Not Detected
Propylbenzene	14	Not Detected	67	Not Detected
4-Ethyltoluene	14	Not Detected	67	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	67	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	67	Not Detected
1,3-Dichlorobenzene	14	Not Detected	82	Not Detected
1,4-Dichlorobenzene	14	Not Detected	82	Not Detected
alpha-Chlorotoluene	14	Not Detected	70	Not Detected
1,2-Dichlorobenzene	14	Not Detected	82	Not Detected
1,2,4-Trichlorobenzene	54	Not Detected	400	Not Detected
Hexachlorobutadiene	54	Not Detected	580	Not Detected
TPH ref. to Gasoline (MW=100)	1400	Not Detected	5600	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: SS-4

Lab ID#: 1610316-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102524**	**Date of Collection:**	**10/13/16 11:14:00 A**
Dil. Factor:	**14.7**	**Date of Analysis:**	**10/26/16 12:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.4	Not Detected	36	Not Detected
Freon 114	7.4	Not Detected	51	Not Detected
Chloromethane	74	Not Detected	150	Not Detected
Vinyl Chloride	7.4	Not Detected	19	Not Detected
1,3-Butadiene	7.4	Not Detected	16	Not Detected
Bromomethane	74	Not Detected	280	Not Detected
Chloroethane	29	Not Detected	78	Not Detected
Freon 11	7.4	Not Detected	41	Not Detected
Ethanol	29	Not Detected	55	Not Detected
Freon 113	7.4	Not Detected	56	Not Detected
1,1-Dichloroethene	7.4	Not Detected	29	Not Detected
Acetone	74	Not Detected	170	Not Detected
2-Propanol	29	Not Detected	72	Not Detected
Carbon Disulfide	29	Not Detected	92	Not Detected
3-Chloropropene	29	Not Detected	92	Not Detected
Methylene Chloride	74	Not Detected	260	Not Detected
Methyl tert-butyl ether	29	Not Detected	100	Not Detected
trans-1,2-Dichloroethene	7.4	Not Detected	29	Not Detected
Hexane	7.4	Not Detected	26	Not Detected
1,1-Dichloroethane	7.4	Not Detected	30	Not Detected
2-Butanone (Methyl Ethyl Ketone)	29	Not Detected	87	Not Detected
cis-1,2-Dichloroethene	7.4	Not Detected	29	Not Detected
Tetrahydrofuran	7.4	Not Detected	22	Not Detected
Chloroform	7.4	Not Detected	36	Not Detected
1,1,1-Trichloroethane	7.4	Not Detected	40	Not Detected
Cyclohexane	7.4	Not Detected	25	Not Detected
Carbon Tetrachloride	7.4	Not Detected	46	Not Detected
2,2,4-Trimethylpentane	7.4	Not Detected	34	Not Detected
Benzene	7.4	Not Detected	23	Not Detected
1,2-Dichloroethane	7.4	Not Detected	30	Not Detected
Heptane	7.4	Not Detected	30	Not Detected
Trichloroethene	7.4	Not Detected	40	Not Detected
1,2-Dichloropropane	7.4	Not Detected	34	Not Detected
1,4-Dioxane	29	Not Detected	100	Not Detected
Bromodichloromethane	7.4	Not Detected	49	Not Detected
cis-1,3-Dichloropropene	7.4	Not Detected	33	Not Detected
4-Methyl-2-pentanone	7.4	Not Detected	30	Not Detected
Toluene	7.4	Not Detected	28	Not Detected
trans-1,3-Dichloropropene	7.4	Not Detected	33	Not Detected
1,1,2-Trichloroethane	7.4	Not Detected	40	Not Detected
Tetrachloroethene	7.4	2800	50	19000
2-Hexanone	29	Not Detected	120	Not Detected

eurofins | Air Toxics

Client Sample ID: SS-4

Lab ID#: 1610316-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102524**	**Date of Collection:**	**10/13/16 11:14:00 A**
Dil. Factor:	**14.7**	**Date of Analysis:**	**10/26/16 12:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.4	Not Detected	63	Not Detected
1,2-Dibromoethane (EDB)	7.4	Not Detected	56	Not Detected
Chlorobenzene	7.4	Not Detected	34	Not Detected
Ethyl Benzene	7.4	Not Detected	32	Not Detected
m,p-Xylene	7.4	Not Detected	32	Not Detected
o-Xylene	7.4	Not Detected	32	Not Detected
Styrene	7.4	Not Detected	31	Not Detected
Bromoform	7.4	Not Detected	76	Not Detected
Cumene	7.4	Not Detected	36	Not Detected
1,1,2,2-Tetrachloroethane	7.4	Not Detected	50	Not Detected
Propylbenzene	7.4	Not Detected	36	Not Detected
4-Ethyltoluene	7.4	Not Detected	36	Not Detected
1,3,5-Trimethylbenzene	7.4	Not Detected	36	Not Detected
1,2,4-Trimethylbenzene	7.4	Not Detected	36	Not Detected
1,3-Dichlorobenzene	7.4	Not Detected	44	Not Detected
1,4-Dichlorobenzene	7.4	Not Detected	44	Not Detected
alpha-Chlorotoluene	7.4	Not Detected	38	Not Detected
1,2-Dichlorobenzene	7.4	Not Detected	44	Not Detected
1,2,4-Trichlorobenzene	29	Not Detected	220	Not Detected
Hexachlorobutadiene	29	Not Detected	310	Not Detected
TPH ref. to Gasoline (MW=100)	740	Not Detected	3000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1610316-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102509**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 03:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1610316-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102509**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 03:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1610316-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 02:51 PM**	

Compound	%Recovery
Freon 12	97
Freon 114	104
Chloromethane	90
Vinyl Chloride	96
1,3-Butadiene	87
Bromomethane	104
Chloroethane	93
Freon 11	96
Ethanol	80
Freon 113	99
1,1-Dichloroethene	97
Acetone	98
2-Propanol	79
Carbon Disulfide	92
3-Chloropropene	93
Methylene Chloride	94
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	103
Hexane	91
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	100
Tetrahydrofuran	92
Chloroform	101
1,1,1-Trichloroethane	95
Cyclohexane	97
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	99
Benzene	105
1,2-Dichloroethane	96
Heptane	98
Trichloroethene	121
1,2-Dichloropropane	105
1,4-Dioxane	100
Bromodichloromethane	104
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	81
Toluene	102
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	104
Tetrachloroethene	102
2-Hexanone	85

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1610316-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 02:51 PM**	

Compound	%Recovery
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	101
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	98
Styrene	97
Bromoform	102
Cumene	97
1,1,2,2-Tetrachloroethane	104
Propylbenzene	98
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	111
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1610316-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 12:47 PM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	104	70-130
Chloromethane	93	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	83	70-130
Bromomethane	100	70-130
Chloroethane	91	70-130
Freon 11	95	70-130
Ethanol	80	70-130
Freon 113	93	70-130
1,1-Dichloroethene	92	70-130
Acetone	81	70-130
2-Propanol	82	70-130
Carbon Disulfide	78	70-130
3-Chloropropene	85	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	83	70-130
trans-1,2-Dichloroethene	101	70-130
Hexane	87	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	94	70-130
Tetrahydrofuran	90	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	94	70-130
Carbon Tetrachloride	96	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	104	70-130
1,2-Dichloroethane	93	70-130
Heptane	96	70-130
Trichloroethene	117	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	97	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	100	70-130
2-Hexanone	100	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1610316-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 12:47 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	97	70-130
o-Xylene	100	70-130
Styrene	105	70-130
Bromoform	103	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	104	70-130
Propylbenzene	100	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	100	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	110	70-130
Hexachlorobutadiene	113	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	101	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1610316-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 01:11 PM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	102	70-130
Chloromethane	91	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	84	70-130
Bromomethane	99	70-130
Chloroethane	92	70-130
Freon 11	95	70-130
Ethanol	78	70-130
Freon 113	94	70-130
1,1-Dichloroethene	93	70-130
Acetone	81	70-130
2-Propanol	83	70-130
Carbon Disulfide	78	70-130
3-Chloropropene	84	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	84	70-130
trans-1,2-Dichloroethene	102	70-130
Hexane	86	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	88	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	95	70-130
Carbon Tetrachloride	96	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	102	70-130
1,2-Dichloroethane	93	70-130
Heptane	98	70-130
Trichloroethene	116	70-130
1,2-Dichloropropane	102	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	97	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	100	70-130
2-Hexanone	97	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1610316-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3102505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/16 01:11 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	96	70-130
o-Xylene	98	70-130
Styrene	104	70-130
Bromoform	103	70-130
Cumene	97	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	100	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	114	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	100	70-130

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Daniel Villanueva
Collected by: (Print and Sign) Keith Lindgren
Company Advanced GeoEnvironmental Email DVillanueva@AGEenv.com
Address 837 Shaw rd. City Stockton State CA Zip 95215
Phone 209-467-1006 Fax

Project Info:
P.O. #
Project #
Project Name Swiss Valley Cleaners

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SS-2	36406	10-13-16	1022	TO-15, IPA	29	4		
02A	SS-3	20049	"	1048	" "	28	4		
03A	SS-4	37381	"	1114	" "	29	4		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
[signature] [signature]	[signature] 10/14/16 09:15
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	On Trac		N/A	good	Yes No (None)	1610316

Form 1293 rev.11