

SoundEarth Strategies, Inc. 2811 Fairview Avenue East, Suite 2000 Seattle, Washington 98102

May 21, 2019

Mr. Paul Klansnic TB TS/RELP LLC 1425 4th Avenue Suite 200 Seattle, Washington 98101

SUBJECT: SUPPLEMENTAL VAPOR INTRUSION ASSESSMENT REPORT Troy Laundry Property 300 Boren Avenue North and 399 Fairview Avenue North Seattle, Washington Project Number: 0731-004-05

Dear Mr. Klansnic:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Supplemental Vapor Intrusion Assessment Report to present the results of the 2019 indoor air vapor intrusion assessment that was conducted at the Troy Laundry Property located at 300 Boren Avenue North and 399 Fairview Avenue North in Seattle, Washington (the Property). The location of the Property is shown on Figure 1. The vapor intrusion assessment was performed in accordance with the Supplemental Vapor Intrusion Assessment Work Plan (VI Work Plan; SoundEarth 2019) previously submitted to and approved by the Washington State Department of Ecology (Ecology).

The purpose of the supplemental vapor intrusion assessment was to confirm the results from a previous indoor air sampling event which showed that concentrations of chemicals of concern (COCs) in the indoor ambient air do not present a risk to human health through the inhalation pathway. The vapor intrusion assessment work for the Property is currently managed under the authority of Agreed Order No. DE 8996 between Touchstone SLU LLC, TB TS/RELP LLC and Ecology.

The supplemental vapor intrusion assessment was performed to evaluate the potential vapor intrusion pathway at the Property, and to confirm that the interim action goal for indoor air has been achieved. The goal for indoor air at the Property is for concentrations of COCs to be below remediation levels at the point of compliance, as presented in the original VI Work Plan that was previously reviewed and approved by Ecology. The engineering control components at the Property include a vapor barrier, capping (foundation slab), air exchange system in the parking garage levels, and positive pressure in the elevator shaft, and building elevator lobbies.

2018 VAPOR INTRUSION ASSESSMENT

The initial vapor intrusion assessment was completed at the Property in March 2018 and is detailed in the Vapor Intrusion Assessment Report dated June 28, 2018 (SoundEarth 2018b). The scope of work included the following work elements:

- Prior to collecting air quality samples, SoundEarth completed a building survey of the South Tower and parking garage to evaluate the potential volatile organic compound sources or materials that may contribute to background indoor air contamination.
- Eighteen indoor air samples (IA01 through IA16, IA19, and IA20) and one outdoor air sample (OA01) were collected during the sampling event. Indoor air samples were collected from various locations throughout the parking garage levels P5 through P1, as well as in select stairways and the elevator shaft of the south tower (Figures 2 and 3).

Air samples were submitted to Friedman & Bruya, Inc. under standard chain-of-custody protocols for laboratory analysis. The air samples were analyzed for chlorinated volatile organic compounds (CVOCs; tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cis-1,2-DCE], trans-1,2-dichloroethene [trans-1,2-DCE], and vinyl chloride) and/or air-phase hydrocarbons (APHs) by US Environmental Protection Agency (EPA) Method TO-15. Analytical results for the indoor and outdoor air samples collected as part of the indoor air monitoring event indicated the following:

 Concentrations of CVOCs and APHs in the indoor and outdoor air samples were less than the MTCA Modified Method B Indoor Air Commercial Land Use Cleanup Remediation Levels, and were also below the more stringent MTCA Method B Indoor Air Cleanup Levels, as presented in Tables 1 and 2.

2019 SUPPLEMENTAL INDOOR AIR MONITORING EVENT

The scope of work for the supplemental vapor intrusion assessment, which was approved in advance by Ecology, was conducted in general accordance with Ecology's *DRAFT: Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action* and VI Work Plan. The scope of work included the following work elements:

- Prior to collecting air quality samples, SoundEarth completed a building survey of the South Tower and parking garage to evaluate the potential volatile organic compound sources or materials that may contribute to background indoor air contamination.
- Five indoor air samples (IA21 through IA25) were collected during the sampling event (Table 1 of this supplemental report). The supplemental indoor air sample locations are shown in Figures 2 and 3 and are described below:
 - Three indoor air samples were collected on the P5 parking level. The samples were collected as follows:
 - IA21, located in Stairway 4.
 - IA22, located within the elevator shaft. This sample was collected during a 3-week period utilizing a passive air sampler.
 - IA23, located in Stairway 1 adjacent to the south tower elevator.
 - Two indoor air samples were collected on the P1 parking level. The samples were collected as follows:
 - IA24, located in Stairway 4.

- IA25, located in Stairway 1, within the hallway leading to the lobby, just outside the door connecting the stairway to the lobby (above the garage).
- SoundEarth collected one outdoor air sample (OA02) from the exterior of the building. The sample
 was collected upwind at street level outside the HVAC intake on the north side of the building
 (Figure 3).

SoundEarth collected the indoor air samples on a weekend for all the samples except IA22, which was collected during normal weekday business hours and on the weekend over a period of 21 days. For the weekend sampling event, the parking levels were closed to minimize interference from unknown sources of CVOCs. The facilities managers simulated garage exhaust, air exchanges, and stairway use typical for weekday operations during the vapor intrusion sampling event. The sampling occurred in February 2019 on a day when the outdoor ambient air temperature was on average less than 40 degrees Fahrenheit for the 24-hour sample interval. A log of NOAA average temperature readings from the nearby University of Washington weather station (WAAQ) documenting approximate ambient air temperatures is included as Attachment A.

Each indoor air sample and the outdoor air sample were collected with a SUMMA canister fitted with a particulate filter to minimize interference associated with particulate matter from the parking levels. Friedman & Bruya, Inc. of Seattle, Washington, provided the 6-liter, individually certified SUMMA canisters for the air samples. The SUMMA canisters for indoor air samples were fitted with individually certified flow controllers calibrated by the laboratory for an approximate 24-hour sample collection. The SUMMA canisters were placed at a height of approximately 4 feet above the ground surface to approximate a potential worker's breathing level. Indoor air sample IA22 was collected within the elevator shaft using a passive Waterloo Membrane Sampler (WMS) provided by Eurofins Air Toxics, Inc., of Folsom, California.

A detailed discussion of the indoor air monitoring event is presented below.

Building Survey and Indoor Air Sampling Conditions

On February 15, 2019, SoundEarth performed a site walk of the Property parking garage levels to review the proposed locations of the indoor air and outdoor air samples, and perform a building survey. SoundEarth's observations included a review of current tenant operations in the parking garage levels P1 to P5; HVAC system; potential indoor air sources of contamination; and location of utilities (sewer, sumps, and cleanouts). SoundEarth did not observe any conditions outdoors, in the parking garage levels, or in the staircases between the parking garage levels that would suggest an intrinsic source for the CVOCs at the proposed indoor air sampling locations.

The HVAC system in the parking garage levels operated normally prior to sampling. The HVAC exhaust fans run continuously under normal operations. If necessary, carbon dioxide sensors in the parking garage levels modulate the exchange exhaust fans to maintain carbon monoxide levels to below acceptable levels. All cars were removed from the parking garage levels 26 hours prior to sampling. The HVAC system in the parking garage levels was manually adjusted during the sampling to simulate typical building conditions.

A detailed account of observations made during the building survey is included as Attachment B. Photographs of the building survey are included as Attachment C.

Sampling and Analysis

Sampling was conducted in accordance with the approved VI Work Plan (SoundEarth 2019). On Sunday, February 17, 2019, starting at 0058 hours (12:58 a.m.) SoundEarth installed indoor air samples IA21 and IA23 through IA25 in the P1 parking garage interior stairway north and south tower and P5 parking garage interior stairways north and south tower. Outdoor air sample OA02 was installed at the outdoor HVAC intake system on the north side of the building. The SUMMA cannister for OA02 was placed just inside the closed parking garage door, connected to the sampling area by 10 feet of Teflon sample tubing. Each air sample was taken with a 6-liter SUMMA canister. Each canister was retrieved on Monday, February 18, approximately 24 hours after installation. The SUMMA canisters (Samples IA21, IA23 through IA25, and OA02) were fitted with individually certified flow controllers calibrated by the laboratory for an approximate 24-hour sample collection. IA22 was sampled separately utilizing a WMS passive sampler over a 3-week time period at the request of Ecology. Sample IA22 was installed in the south tower elevator shaft on February 19 and was retrieved on March 12.

Air samples IA21, IA23 through IA25, and OA02 were submitted to Friedman & Bruya, Inc. under standard chain-of-custody protocols for laboratory analysis for CVOCs (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) by EPA Method TO-15. Air sample IA22 was submitted to Eurofins Air Toxics, Inc., of Folsom, California, under standard chain-of-custody protocols for laboratory analysis of CVOCs by EPA Modified Method TO-17. Sample analysis was performed in accordance with the VI Work Plan (SoundEarth 2019).

Simulation of Typical Building Conditions

During the supplemental indoor air sampling event, the buildings facility managers simulated typical building use conditions in accordance with the approved VI Work Plan (SoundEarth 2019) by simulating typical stairway usage and HVAC fan speeds. Based on garage fan use logs, all garage fans operate 24 hours per day, 7 days a week, at 15 hertz. The fans ramp up when the carbon monoxide sensors detect elevated levels. Parking garage fan speeds were previously recorded on Wednesday, November 7, and Thursday, November 8, 2018, to use as reference of typical building fan conditions. During the supplemental indoor air sampling event, a facility engineer manually adjusted the parking garage HVAC fan speeds to match those previously recorded, in order to mimic typical conditions and period where fan speeds increased to account for carbon monoxide buildup. A copy of the garage fan exhaust simulation tracking form is included as Attachment D.

Typical stairway usage was additionally simulated during the supplemental indoor air sampling event. The facility management had previously recorded the usage of Stairways 1 and 4 on Tuesday, November 13, 2018. During the supplemental indoor air sampling event, the building facility managers simulated the previously observed usage rates during the air sampling event by opening the P5 and P1 doorways of Stairway - 1 every 30 minutes and Stairway - 4 every 15 minutes between 8:00 a.m. to 6:00 p.m. Copies of the stairway usage simulation tracking forms are included as Attachment E.

INDOOR AIR MONITORING RESULTS

Analytical results for the indoor and outdoor air samples collected as part of the indoor air monitoring event indicated the following:

- Concentrations of CVOCs in the indoor and outdoor air samples were not detected above laboratory reporting limits and were less than MTCA Modified Method B Indoor Air Commercial Land Use Cleanup Remediation Levels. As required for this round of testing, all sampling was conducted when ambient average temperatures were under 40 degrees Fahrenheit. Analytical results for the indoor and outdoor air samples IA21, IA23 through IA25, and OA02 collected by SUMMA canisters as part of the indoor air monitoring event indicated the following:
 - Concentrations of CVOCs in all the SUMMA cannister samples were not detected above the applicable laboratory reporting limits, the Modified Method B Indoor Air Remediation Levels, or the more stringent MTCA Method B Indoor Air Cleanup Levels calculated for a reasonable maximum exposure for a commercial scenario assuming an exposure frequency of 5 days per week, 1 hour per day, for 52 weeks a year.
- Analytical results for indoor air sample IA22, collected by WMS passive sampler from the south tower elevator shaft over a 3-week period, are as follows:
 - Concentrations of CVOCs in passive air sample IA22 were not detected above the applicable laboratory reporting limits or the Modified Method B Indoor Air Remediation Levels.

Analytical results from the 2019 Supplemental Vapor Intrusion Assessment are as presented in Table 1, and the laboratory analytical reports are included as Attachment F.

DATA QUALITY CONTROL

A data quality control assessment was conducted on field samples and laboratory analytical results. The purpose of the review was to ensure the sample results were useable and met the objectives of the project.

Field Quality Control

A review of field notes showed that initial vacuum pressure in the Summa canisters ranged from 29.0 to 30.0 millimeters of mercury (mmHg). The final vacuum pressures, measured at the time these samples were retrieved, ranged from 6.1 to 7.5 mmHg.

Laboratory Quality Control

Data validation was conducted on current laboratory reports provided for the air sampling event. Analytical results were evaluated for holding times, blank contamination, and accuracy and precision using quality control limits provided by the laboratory at the time an analysis was performed. Analytical results reviewed included PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride for indoor and outdoor air samples. No data qualifiers were noted for any of the air samples submitted for analysis by EPA Method TO-15. Friedman & Bruya, Inc. laboratory conducted TO-15 instrument upgrades between the 2018 and 2019 indoor air sampling events, during which laboratory detection limits for CVOCs have been modified based on the criteria set forth in the Ecology Vapor Intrusion Guidance Table B-1 2015 update (Ecology

2009). A copy of a Friedman & Bruya, Inc. letter indicating the modification to their laboratory detection limits is included as Attachment G.

Because air sample IA22 was collected utilizing a WMS passive sampler, the sample collection and analysis were completed following EPA Modified Method TO-17 procedure. A laboratory narrative indicating modifications to the TO-17 method is included in Attachment F.

Based on the data validation results for the laboratory reports, the analytical results are acceptable to meet the objectives of the indoor air quality evaluation.

CONCLUSIONS

Concentration of CVOCs were not detected above laboratory reporting limits in any of the indoor air samples IA21 through IA25. Laboratory reporting limits for indoor air samples IA21 through IA25 were compared to MTCA Modified Method B Remediation Levels and the more stringent MTCA Method B Indoor Air Cleanup Levels, as shown in Table 1.

The indoor air monitoring analytical results for the five samples indicate that indoor air concentrations of CVOCs were below laboratory reporting limits as well as below the Modified Method B Indoor Air Remediation Level. Air sample analytical results, MTCA Method B Cleanup Levels, and the MTCA Modified Method B Remediation Levels are presented on Table 1.

Based on the results from the indoor air vapor assessment, the interim action goal for indoor air has been achieved and the following conclusions can be drawn:

- Indoor air quality in the parking levels, stairwell, and the elevator shaft is protective of human health for the inhalation exposure pathway.
- The results from the vapor intrusion assessment confirm the effectiveness of the interim cleanup action and confirm that there are no impacts to indoor air quality on the Property. Furthermore, since the concentrations of CVOCs are less than laboratory reporting limits and the applicable Modified Method B Remediation Levels, no additional sampling is warranted or required under the Ecology-approved VI Work Plan.

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at 206-306-1900 if you have any questions or require additional information.

Respectfully,

SoundEarth Strategies, Inc.

Logan Schumacher, LG Project Geologist

Thomas Cammarata, LG, LHG Senior Geochemist

Attachments: Figure 1, Property Location Map

Figure 2, Parking Garage Level P5 – Indoor Air Sample Locations Figure 3, Parking Garage Level P1 – Indoor Air Sample Locations Table 1, Summary of Indoor and Outdoor Air Analytical Results for CVOCs Table 2, Summary of Indoor and Outdoor Air Analytical Results for APHs A, Sampling Event NOAA Weather Conditions (WAAQ)

- B, Building Survey Form
- C, Photographs

D, Simulated Normal Operating Conditions Log (Exhaust Fans)

- E, Simulated Normal Operating Conditions Log (Stairway Doors)
- F, Laboratory Analytical Reports

Friedman & Bruya, Inc. #902235

Eurofins Air Toxics, Inc. #1903365

G, Friedman & Bruya, Inc. TO-15 Detection Limits Update

REFERENCES:

SoundEarth Strategies, Inc. (SoundEarth). 2012a. Draft Remedial Investigation Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. May 2.

_____. 2012b. Draft Feasibility Study Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. August 9.

_____. 2012c. Draft Addendum—Supplemental Remedial Investigation Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. December 17.

_____. 2013. Interim Action Plan, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. August 21.

_____. 2016. Interim Action Progress Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. January 22.

______. 2018a. Vapor Intrusion Assessment Work Plan, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. January 25.

_____. 2018b. Vapor Intrusion Assessment Report, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. June 28.

____. 2019. Supplemental Vapor Intrusion Assessment Work Plan, Troy Laundry Property, 307 Fairview Avenue North, Seattle, Washington. February 12.

Washington State Department of Ecology (Ecology). 2009. DRAFT: Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Publication No. 09-09-047. October. Revised February 2016.

TJC/JRF:rt/dnm/cms

FIGURES







TABLES



Table 1 Summary of Indoor and Outdoor Air Analytical Results for CVOCs Troy Laundry Property 300 Boren Avenue North and 399 Fairview Avenue North Seattle, Washington

						Analytical Results ⁽¹⁾ (µg/m ³)				
Sample	Sample	Sample	Sampled	Sample	Sample					
ID	Name	Location	Ву	Туре	Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
OA01	OA01-20180304	Outdoor - HVAC Intake		Outdoor Air (24-hour)		<1.7	<0.27	<0.2	<0.2	<0.13
IA01	IA01-20180304	P5 - North wall								
IA02	IA02-20180304	P5 - Interior Stairway - North			03/04/18-03/05/18	6.2	0.27	<0.2	<0.2	<0.13
IA03	IA03-20180304	P5 - West wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA04	IA04-20180304	P5 - West wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA05	IA05-20180307	P5 - South Tower Parking Elevator Shaft			03/07/18–03/08/18	<1.7	<0.27	<0.2	<0.2	<0.13
IA06	IA06-20180304	P5- Elevator lobby				<1.7	<0.27	<0.2	<0.2	<0.13
IA07	IA07-20180304	North wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA08	IA08-20180304	P4 - West wall			03/04/18–03/05/18	<1.7	<0.27	<0.2	<0.2	<0.13
IA09	IA09-20180304	P4 - West wall	SoundEarth	Indoor Air (24-bour)		<1.7	<0.27	<0.2	<0.2	<0.13
IA10	IA10-20180304	P4 - South wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA11	IA11-20180304	P3 - West wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA12	IA12-20180304	P3 - West wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA13	IA13-20180304	P3 - East wall								
IA14	IA14-20180304	P2 - West wall								
IA15	IA15-20180304	P2 - West wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA16	IA16-20180304	P2 - South wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA19	IA19-20180304	P1 - South wall				<1.7	<0.27	<0.2	<0.2	<0.13
IA20	IA20-20180304	P1 - Interior Stairway - North				2.4	0.34	<0.2	<0.2	0.13
				2019 Supplemental Indo	oor Air Sampling Event					
OA02	OA02-20190217	Outdoor - HVAC Intake		Outdoor Air (24-hour)	02/17/19-02/18/19	<6.8	<0.27	<0.4	<0.4	<0.26
IA21	IA21-20190217	P5 - Interior Stairway - North		Indoor Air (24-hour)	02/17/19 02/10/19	<6.8	<0.27	<0.4	<0.4	<0.26
IA22	IA22-20190219	P5 - South Tower Parking Elevator Shaft	SoundEarth	Indoor Air (3-week)	02/19/19–03/12/19	<0.42	<0.64	<0.87	<2.1	<5.5
IA23	IA23-20190217	P5 - Interior Stairway - South Tower	SoundEarth			<6.8	<0.27	<0.4	<0.4	<0.26
IA24	IA24-20190217	P1 - Interior Stairway - North		Indoor Air (24-hour)	02/17/19–02/18/19	<6.8	<0.27	<0.4	<0.4	<0.26
IA25	IA25-20190217	P1 - Interior Stairway - South Tower				<6.8	<0.27	<0.4	<0.4	<0.26
MTCA Method	B Indoor Air Cleanup Level	S				9.62 ⁽²⁾	0.37 ⁽²⁾	NE	NE	0.28 ⁽²⁾
Modified Met	hod B Indoor Air Remediatio	on Levels ⁽³⁾	323.08 ⁽³⁾	20.49 ⁽³⁾	NE	NE	9.55 ⁽³⁾			

NOTES:

Bold indicates laboratory detection limit exceeds MTCA Method B Indoor Air Cleanup Level but less than the Modified Method B Indoor Air Remediation Level.

Sample analysis performed by Friedman & Bruya, Inc., Seattle, Washington, or Eurofins Air toxics, Inc. of Folsom, California. ⁽¹⁾Analyzed by EPA Method TO-15 or Modified Method TO-17.

⁽²⁾MTCA Method B Indoor Air Cleanup Levels, Noncancer, DRAFT: Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, October 2009 and updated in February 2016.

⁽³⁾Modified Method B Indoor Air Remediation Levels, calculated from MTCA Equation 750-2 and assumes an exposure frequency of 5 days/week, 1 hour/day, and 52 weeks a year.

-- = not tested $\mu g/m^3$ = micrograms per cubic meter

CVOC = chlorinated volatile organic compound DCE = dichloroethene EPA = US Environmental Protection Agency MTCA = Washington State Model Toxics Control Act

NE = not established

PCE = tetrachloroethene

SoundEarth = SoundEarth Strategies, Inc. TCE = trichloroethene

P:\0731 Touchstone\0731-004 Troy Laundry\Technical\Tables\2019\VI Tables\Supplemental VI Sampling\0731-004_2019IA_Table_F.xlsx/Tbl 1 - cVOCs

< = not detected at a concentration exceeding the laboratory reporting limit</pre>



Table 2 Summary of Indoor and Outdoor Air Analytical Results for APHs Troy Laundry Property 300 Boren Avenue North and 399 Fairview Avenue North Seattle, Washington

						Analytical Results⁽¹⁾ (μg/m³)				
Sample	Sample	Sample	Sampled	Sample	Sample	APH EC5-8	APH EC9-12	APH EC9-10		
ID	Name	Location	Ву	Туре	Date	aliphatics	aliphatics	aromatics		
OA01	OA01-20180304	Outdoor - HVAC Intake	$ \\ Sampled By Net Contrant Sample Type Name Nature Name Nation (Solution of the Sample Nature Na$	<35	<25					
IA01	IA01-20180304	P5 - North wall				67	<35	<25		
IA02	IA02-20180304	P5 - Interior Stairway - North			03/04/18-03/05/18	130	36	<25		
IA03	IA03-20180304	P5 - West wall				49	<35	<25		
IA04	IA04-20180304	P5 - West wall								
IA05	IA05-20180307	P5 - South Tower Parking Elevator Shaft			03/07/18-03/08/18					
IA06	IA06-20180304	P5- Elevator lobby								
IA07	IA07-20180304	North wall								
IA08	IA08-20180304	P4 - West wall				69	<35	<25		
IA09	IA09-20180304	P4 - West wall	SoundEarth	Indoor Air (24-hour)						
IA10	IA10-20180304	P4 - South wall								
IA11	IA11-20180304	P3 - West wall				84	35	<25		
IA12	IA12-20180304	P3 - West wall			03/04/18-03/05/18					
IA13	IA13-20180304	P3 - East wall				140	<35	<25		
IA14	IA14-20180304	P2 - West wall				65	<35	<25		
IA15	IA15-20180304	P2 - West wall				62	<35	<25		
IA16	IA16-20180304	P2 - South wall								
IA19	IA19-20180304	P1 - South wall								
IA20	IA20-20180304	P1 - Interior Stairway - North				86	47	<25		
MTCA Method	d B Indoor Air Cleanup Level	s ⁽²⁾				2,700 ⁽²⁾	140 ⁽²⁾	180 ⁽²⁾		
Modified Met	hod B Indoor Remediation L	.evels ⁽³⁾				113,400 ⁽³⁾	5,880 ⁽³⁾	7,560 ⁽³⁾		

NOTES:

Bold indicates concentration exceeds laboratory detection limits.

Sample analysis performed by Friedman & Bruya, Inc., Seattle, Washington.

⁽¹⁾Analyzed by Method MA-APH[.]

⁽²⁾MTCA Method B Indoor Air Cleanup Levels, Noncancer, DRAFT: Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, October 2009 and updated in February 2016.

⁽³⁾Modified Method B Indoor Remediation Levels, calculated from MTCA Equation 750-2 and assumes an exposure frequency of 5 days/week, 1 hour/day, and 52 weeks a year.

-- = not tested

< = not detected at a concentration exceeding the laboratory reporting limit

 $\mu g/m^3$ = micrograms per cubic meter

APH = air-phase hydrocarbons

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

ATTACHMENT A SAMPLING EVENT NOAA WEATHER CONDITIONS (WAAQ)

17 Feb 10:55 am 39

17 Feb 9:55 am 39

17 Feb 7:55 am 35

17 Feb 4:55 am 33

17 Feb 1:55 am 36

17 Feb 8:55 am

17 Feb 6:55 am

17 Feb 5:55 am

17 Feb 3:55 am

17 Feb 2:55 am

37

38

35

33

34

36

37 37

35 35

34 34

34

36 36

94 SE

95 ENE

99 ENE

100 E

100

100 ENE

100

100

100 ESE

100 ESE

ESE

NNE

ESE

2G3

CALM

1G2

CALM

CALM

CALM

1G2

CALM

1G3

CALM

1021.4

1020.8

1020.1

1019.1

1018.2

1017.7

1016.7

1015.9

1015.6

1014.9

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15



0.08

0.13

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.01

17 Feb 12:55 am	37	37	100	SE	2G6	1014.3	0.15			0.06	0.15
16 Feb 11:55 pm	37	37	100	NE	1G2	1013.8	0.15			0.10	0.15
16 Feb 10:55 pm	37	37	99	SSW	CALM	1013.3	0.15		0.01	0.13	0.15
16 Feb 9:55 pm	37	37	99	NNW	CALM	1012.8	0.15		0.06	0.15	0.15
16 Feb 8:55 pm	37	36	98	NNW	1G3	1012.3	0.15	0.01	0.10	0.08	0.15
16 Feb 7:55 pm	37	36	97	Ν	3G6	1011.9	0.14	0.05	0.12	0.07	0.14
16 Feb 6:55 pm	38	37	97	Ν	3G7	1011.5	0.09	0.04	0.09	0.02	0.09
16 Feb 5:55 pm	38	37	96	NNW	5G8	1010.8	0.05	0.03			0.05
16 Feb 4:55 pm	40	39	98	WNW	2G3	1010.4	0.02	0.02			0.02
16 Feb 3:55 pm	41	40	97	NE	1G3	1010.2	0.00				
16 Feb 2:55 pm	41	40	96	NE	1G3	1010.1	0.07			0.07	0.06
16 Feb 1:55 pm	41	40	95	ESE	3G5	1010.0	0.07			0.07	0.06
16 Feb 12:55 pm	41	40	98	SSE	2G5	1010.2	0.07		0.05	0.07	0.06
16 Feb 11:55 am	40	39	98	SE	3G5	1010.4	0.07		0.07	0.07	0.06
16 Feb 10:55 am	40	39	98	SE	2G5	1010.1	0.07	0.05	0.07	0.07	0.06
16 Feb 9:55 am	39	39	99	SE	1G3	1009.8	0.02	0.02	0.02	0.02	0.01
16 Feb 8:55 am	39	38	97	SE	2G5	1009.5	0.00				
16 Feb 7:55 am	38	37	97	ESE	1G3	1009.0	0.00				
16 Feb 6:55 am	37	37	99	NE	1G2	1008.3	0.00				
16 Feb 5:55 am	36	35	98	E	CALM	1008.0	0.00				
16 Feb 4:55 am	37	36	98	NNE	1G3	1007.5	0.00				
16 Feb 3:55 am	36	35	98	E	CALM	1007.1	0.00				
16 Feb 2:55 am	36	35	98	NW	1G2	1006.8	0.00				
16 Feb 1:55 am	35	35	99	NNE	1G2	1006.5	0.00				
16 Feb 12:55 am	36	35	97		CALM	1006.1	0.00				
15 Feb 11:55 pm	37	36	96	NE	CALM	1005.9	0.00				
15 Feb 10:55 pm	37	36	97	NE	CALM	1005.9	0.00				
15 Feb 9:55 pm	36	35	98	NNW	1G2	1005.6	0.00				
15 Feb 8:55 pm	37	36	97	NE	CALM	1005.5	0.00				
15 Feb 7:55 pm	38	36	92	ENE	CALM	1005.3	0.00				
15 Feb 6:55 pm	40	37	90	ENE	CALM	1005.2	0.00				
15 Feb 5:55 pm	43	37	80	SW	CALM	1005.0	0.00				
15 Feb 4:55 pm	47	38	71	S	3G11	1004.6	0.00				
15 Feb 3:55 pm	48	37	65	SSW	3G10	1004.5	0.00				
15 Feb 2:55 pm	48	37	66	S	5G9	1003.9	0.01				

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US Dept of Commerce National Oceanic and Atmospheric Administration National Weather Service Salt Lake City, UT Comments, Questions? Please Contact Us. Disclaimer Information Quality Help

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ATTACHMENT B BUILDING SURVEY FORM



SoundEarth Strategies, Inc. 2811 Fairview Avenue East, Suite 2000 Seattle, Washington 98102

Client & Site Name/Number:	SoundEarth Project Number;	Date: 0 1
Trace Laundy	0731-004	12/15/19
200 Farsen Are N. S. Her.	Purpose of Visit/Task #: MA 2019 IA	Field Report Prepared by:
Sco (14,10,10, 10, 10, 10, 10, 10, 10, 10, 10,	ioze) +0
Building Survey Form		
Address: 300 En En Au N), Sently, WA.	
Tenant/Occupant Name: Amazo	Phone:	
Owner's Name: Touchstone	Phone: <u>2</u> 0	6-357-2305
Owner's Address: 2025 (st A	e 5. Re 1212 Salle	i, list
Point of Contact: Powl Klosner	Phone: _2	206-357-2305
Contact Information:		
Bullin	s Sum	
weather conditions at time of indoor a	ir sampling event:	
- Juny, SUS		
A. General Building Information		
Attach plan view or sketch of building	floor plan	
Building Year Constructed:2014	6	
Building Type: Residential / Office / Co	mmercial/Industrial/Gove	ernment / School
Warehouse		
Building Occupants: Adults Chi	ldren under 6 📑 👘 Chi	ldren 6-15 🥂
Women A	ge 18-40	
Building Use: Office, Comm	1, Parking arme.	
Square Enotage: ~17.000	2 0 A	
Number of Stories:		
Number of Elevators: <u>2 × Buys</u>	6 total plus Servi	e elevator

1

General Description of Building Construction Materials:

Renford Concrete

Foundation Type: Basement / Crawl Space / Slab	
Foundation Materials: Roured Concrete Cinder E	Blocks / Earthen / Wood Pilings/
Other (Specify)
Foundation Wall Material Poured Concrete Cinc	der Blocks / Earthen / Wood / Stone
If there is a basement, please answer questions in Section C.	Section B. If there is not a basement, skip to
A. Subfloor / Basement Information P2-to	PS
Is the basement finished? ()/ N	
Does anyone live in the basement as a primary re-	sidence or use the basement daily?(Y) N
Basement floor type: Dirt / Concrete / Other	PS pilling
(describe):	
Is the basement generally: wet /dry/ damp?	
Is there a sump in the basement $\widetilde{\mathbb{W}}$ N	
If yes, please describe the size, the construction, v	where it is, and whether or not there is a sump
and how it is activated: Multiple Sumps	for Sw conveyonce
What was the PID reading on the air above the su	mp grate?
Does the basement have cracks? Y (N)	If yes, PID reading:
Drainage point in floor? Y / N	If yes, PID reading:
Sump or sump pump? Y / N	If yes, PID reading:
Pipes or utility conduits through floor or outside v	walls? Y N If yes, PID reading:
Is the basement painted Y N	
If yes, whenand with: latex	/oil-based paint/stain Partial a columns.
Does the basement have flooring over the founda	ation?Y/N
If yes, what type: tile / carpet / wood / pe	rgo / other, specify
Was glue used for installing the flooring?	
Is there new furniture in the basement?	If yes, describe type and date received

	Are there odors in the basement? Y (N) f yes, describe
	PI
	A. First Floor Information (Complete for each additional floor)
	What are the walls constructed of?Cinder block / sheet rock / paneling / other, specify
	Are the walls painted (V)/ N
	If yes, when <u>2016</u> and with: latex / oil-based paint / stain
	Is there flooring in the first floor? (Y/N) Some
	If yes, what type tile / carpet / wood / pergo / other, specify Carpet M elevitor
	Was glue used for installing the flooring? YN
	Is there new furniture on the first floor? Y (N)
	If yes, describe type and date received
	Are there pipes or utility conduits through the outside walls or floor? Y (N)
	If yes, PID reading
	Are there odors on the first floor? If ves, describe
	F Heating and Ventilation Systems
	What type of heating system(s) are used in the building? (circle all that apply)
	Heat Ruman / Furmers Het Air Dediction / Sterry Dediction / Haussted Kenner Here
	Wood Stove / Electric Baseboard
	Other, specify work about a particip garge
	What type of fuel(s) are used in the building? (circle all that apply):
_	
	Natural Gas / Electric / Fuel Oil /Wood / Coal / Solar / Propane / Kerosene
22	Other medify

4

 \leq

Mechanical Fans/ Open Windows / Individual Air Conditioning Units / Kitchen Range Hood Bathroom Ventilation / Fan Air-to-Air Heat Exchanger Other, specify _____

F. Roof construction	
Is the roof pitched or flat? Flat	
Is there an attic? Y/N	
If so, is it accessible? Y/N	
If so, what is the height of the attic?	
What is the roof comprised of?	

Tar shingles / metal / rolled tar material / asphalt coating other, specify _______ Not use roof.

Description of roof support system (trusses, beams, construction materials, etc.) : Diagram of Roof and Roof Supports

G. Building Use: Is there standing water in the building (historic or current)? Y (N)Is there water damage in the building (historic or current)? Y (N) is there fire damage to the building? Y (N) if yes, date Are there pest control applications to the building? Y / N If yes, date Is there a septic system? Y (N) If yes, date of system ____ Do one or more smokers occupy this building on a regular basis? Y / N Has anybody smoked in the building in the last 48 hours? Y / 🕅 🕻 Does the building have an attached garage? Y N If so, is a car usually parked in the garage? (Y) N Do the occupants of the building frequently have their clothes dry-cleaned? Y / N $\frac{2}{3}$ Was there recent remodeling or painting done in the building (within the past 6 months)? Y (N) Are there any pressed wood products in the building (e.g., hardwood plywood wall paneling, particleboard, fiberboard)? Y / N Not h brown Are there any new upholstery, drapes or other textiles in the building? Y /(N)Has the building been treated with any insecticides/pesticides? Y / N $\,$ $\,$ If so, what chemicals are used and how often are they applied? red tryps near PI doors Do any of the occupants apply pesticides/herbicides in the yard or garden? Y / N 🍸 If so, what chemicals are used and how often are they applied? Type of ground cover (e.g., grass, pavement, etc.) outside the building: PaurA Is there a well on the property? If so, what is it used for and where is it screened? <u>EwmAd</u> 20-46 Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

H. Potential Sources of Indoor Chemical Contaminants:

ŧ

Which of these items are present in the building? (Check all that apply)

Potential VOC Source	Location of Source	Removed 48 hours prior to sampling (Yes/No/NA)
Paints		(res/No/NA)
Gas-powered equipment		
Gasoline storage cans		
Cleaning solvents (thinner)		
Air fresheners		
Oven cleaners		
Carpet/uphoIstery cleaners		
Hairspray		
Nail polish/polish remover		
Bathroom cleaner		
Appliance cleaner		
Furniture/floor polish		
Moth balis		
Fuel tank		
Wood stove		
Fireplace		
Perfume/colognes		
Hobby supplies (e.g., solvents,		
paints, lacquers, glues,		
photographic darkroom		
chemicals)		
Scented trees, wreaths,		
potpourri, etc.		
Polish / wax		
Insecticide / pesticide		
Kerosene		
Gun cleaner stored in the		
building		
Building occupants using		
Solvents at work		
Otner	floor (from Parkin (15)	NO

I. Other Potential Sources of Ind	oor or Outdoor Air Contaminatio	n
Outside Sources of Contaminatio	n (check all that apply):	
Garbage Dumpsters / Heavy Mot	or Traffic / Landing Dock in Use / (Construction Activities
Airport fli	ght path / Railyard or railcar traffic	
Nearby Industries, specify	samon	
UST/AST (gasoline/heating fuel/c	other, specify)	
Is there a known spill or release ou	Itside or inside the building? If yes, v	was it:
Oil / Natural gas / Kerosene / Hea	ating oil / Used vehicle oil / Solven	ts / Pesticide or insecticide
other, describe		
Describe any additional information	on about the release (amount, when	it occurred, action taken to
clean up, etc.):		
	/	

Instructions for Occupants of Building Prior to Sampling Event

(to be followed starting at least 48 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open. with white regists use
- Do not operate ventilation fans or air conditioning. Why will mixme home will will be
- Do not use air fresheners or odor eliminators
- Do not smoke inside.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater).
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage. / 24 hours prove

Restrictions start: 2/16/14 e 12 Am Sampling event starts: 3/17/14 p. 12 Am Sampling and Restrictions end: 2/18/14 e 12 m

Please call	Login	at	206-494-7189	_ with any questions or concerns.
	0			

ATTACHMENT C PHOTOGRAPHS



PROPERTY PHOTOGRAPHS Troy Laundry Property 300 Boren Avenue North and 399 Fairview Avenue North Seattle, Washington Project No.:0731-004-07Date:April 22, 2019Drawn By:LDSChk By:TJC



Photograph 1. Indoor air sample IA21, installed in Stairway 4 on Parking Level P5.



Photograph 3. Indoor air sample IA23, installed in Stairway 1 on Parking Level P5.



Photograph 5. Indoor air sample IA24, installed in Stairway 4 hallway on Parking Level P1.



Photograph 2. Indoor air sample IA21, showing sample tubing installed in breathing zone.



Photograph 4. Indoor air sample IA23, showing sample tubing installed in breathing zone.



Photograph 6. Indoor air sample IA24, showing sample tubing installed in breathing zone.



PROPERTY PHOTOGRAPHS Troy Laundry Property 300 Boren Avenue North and 399 Fairview Avenue North Seattle, Washington Project No.:0731-004-07Date:April 22, 2019Drawn By:LDSChk By:TJC



Photograph 7. Indoor air sample IA25, installed in Stairway 1 on Parking Level P1.



Photograph 9. Outdoor air sample OA02, installed at south garage door, with tubing extending to the exterior.



Photograph 11. Passive WMS air sample IA22 installed in the south tower elevator shaft.



Photograph 8. Indoor air sample IA25, showing sample tubing installed in breathing zone.



Photograph 10. Teflon sample tubing running from air sample OA02 to the vicinity of the HVAC intake south of the building.



Photograph 12. Close-up view of passive WMS air sample IA22.

ATTACHMENT D SIMULATED NORMAL OPERATING CONDITIONS LOG (EXHAUST FANS)

Troy Block Seattle Washington

Garage Exhaust Fan Simulation

DATE:	2-17-19	
SIMULATION completed by:	Jesus Herrer	9
PRINT NAME & TITLE:	Jesus Herrery Ensine	erine
		5

IMP/2018 000 Isi // ImP/2018 000 Isi // ImP/2018 000 Imp/2018 000 Isi // Imp/2018 000 Isi // <th>Date-Time</th> <th>GEF-P1- 1 Fan</th> <th>GEF-P2- Date: 1 Fan</th> <th></th> <th></th> <th>Date-Time</th> <th>GEF-P2- 2 Fan</th> <th>Date-Time</th> <th>GEF-P3- 1 Fan</th> <th>Date-Time</th> <th>GEF-P3- 2 Fan</th> <th>Date-Time</th> <th>GEF-P4- 2 Fan</th> <th>Date-Time</th> <th>GEF-P5-1 Fan</th> <th>Date-Time</th> <th>GEF-P5-</th>	Date-Time	GEF-P1- 1 Fan	GEF-P2- Date: 1 Fan			Date-Time	GEF-P2- 2 Fan	Date-Time	GEF-P3- 1 Fan	Date-Time	GEF-P3- 2 Fan	Date-Time	GEF-P4- 2 Fan	Date-Time	GEF-P5-1 Fan	Date-Time	GEF-P5-
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11/8/2018 7:00	15.1	11/8/2018 7:00	15	11/8/2018 7:00	15	11/8/2018 7:00	15 1	11/8/2018 7:00	15 🗸	11/8/2018 7:00	15 V	11/8/2018 7:00	15 🗸	11/8/2018 7:00	15 V.
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11/8/2018 7:10	15.1	11/8/2018 7:10	15 0	11/8/2018 7:10	15 1	11/8/2018 7:10	15 🗸	11/8/2018 7:10	15 V,	11/8/2018 7:10	15 1	11/8/2018 7:10	15	11/8/2018 7:10	15
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<u>11/7/2018 11:55</u> <u>15.1</u> <u>11/7/2018 11:55</u>	15 🗸	11/7/2018 11:55	15 V	11/7/2018 11:55	15 V	11/7/2018 11:55	15 🗸	11/7/2018 11:55	15	11/7/2018 11:55	15 🗸	11/7/2018 11:55	15 🗸
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11/7/2018 20:55	15.1	11/7/2018 20:55	15 V	11/7/2018 20:55	15	11/7/2018 20:55	23	11/7/2018 20:55	15 🗸	11/7/2018 20:55	15 🗸	11/7/2018 20:55	15 0	11/7/2018 20:55	15
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11/7/2018 21:30	15 /	11/7/2018 21:30	15 V	11/7/2018 21:30	15	11/7/2018 21:30	15 🗸	11/7/2018 21:30	15 J	11/7/2018 21:30	15 1	11/7/2018 21:30	15 /	11/7/2018 21:30	15 /
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$\frac{11}{17/2018} \frac{22:10}{2:5} \frac{15}{15} \frac{1}{17/2018} \frac{11}{17/2018} \frac{15}{2:20} \frac{15}{17/2018} \frac{15}{2:20} \frac{15}{17/2018} \frac{11}{17/2018} $	11/7/2018 22:05	15.1 V	11/7/2018 22:05	15	11/7/2018 22:05	15	11/7/2018 22:05	15 1	11/7/2018 22:05	17.5 🗸	11/7/2018 22:05	15 1	11/7/2018 22:05	15 1/	11/7/2018 22:05	15 V
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11/7/2018 23:55 15 V 11/7/2018 200 100 V 10 V 10 V 10 V 10 V 10 V 10 V	11/7/2018 23:55	15.1 V	11/7/2018 23:55	15 🗸	11/7/2018 23:55	15	11/7/2018 23:55	15 V	11/7/2018 23:55	15	11/7/2018 23:55	15	11/7/2018 23:55	15 V	11/7/2018 23:55	15 1

ATTACHMENT E SIMULATED NORMAL OPERATING CONDITIONS LOG (STAIRWAY DOORS)

Troy Block

Seattle Washington

Garage Stairwell usage simulation

STAIR 1 - LEVEL 1 EXITING INTO SOUTH TOWER LOBBY -

Each opening will consist of: (A) <u>From the parking garage</u> open the stairway-1 door on P5 for 2 seconds then let close naturally, but <u>do not enter the stairway and stay away from the sampler</u>. (B) <u>take the elevator to the lobby</u>, then <u>from the lobby</u> open the stairway-1 door for 2 seconds then let close naturally, but <u>do not</u> <u>enter the stairway and stay away from the sampler</u>.



TIME		COUNT	COMPLETE (INITIAL)
8:00 AM	Clear		1
8:30 AM	cleas		1
9:00 AM	Clear		1
9:30 AM	clear		
10:00 AM	clear, door	doesn't close all the way	
10:30 AM	clear	J	V
11:00 AM	clear		
11:30 AM	clear		
NOON	clear		
12:30 PM	Clear		
1:00 PM	clear		
1:30 PM	clear		V
2:00 PM	clear		
2:30 PM	clear		
3:00 PM	clear		
3:30 PM	clear		V
4:00 PM	clear		
4:30 PM	clear		V
5:00 PM	clear		V
5:30 PM	clear		V
6:00 PM	Clear		

SIMULATION completed by:	Khalid Elmi : Seeur PRINT NAME & TI	rity Officer
Date:	2/17/19	
Comment: This all the all the	door doesn't close a kes about a couple re way.	All the way most of the time. seconds to shut if opened

Troy Block

Seattle Washington

Garage Stairwell usage simulation

STAIR 4 - NORTH STAIRWAY - EXITING TO GARAGE ENTRY AND HARRISON STREET

Each opening will consist of: (A) <u>From the parking garage</u> open the stairway-4 door on P5 for 2 seconds then let close naturally, but <u>do not enter the stairway and stay away from the sampler</u>. (B) <u>take the elevator to the lobby to exit the building</u>, then <u>from the</u> <u>exterior on Harrison Street</u> open the exterior stairway-4 door next to the parking garage entrance for 2 seconds then let close naturally, but <u>do not enter the hallway/stairway and stay away</u> <u>from the sampler</u>.



TIDAE	COUNT	CYCLE
	COONT	(INITIAL)
8:00 AM	Close	
8:15 AM	clear	
8:30 AM	Clear	
8:45 AM	CLEON	
9:00 AM	Clear	
9:15 AM	rlear	
9:30 AM	Clear	
9:45 AM	Clear	
10:00 AM	Clears	
10:15 AM	Clear	
10:30 AM	clear	
10:45 AM	CLEAR	
11:00 AM	clear	
11:15 AM	Clear	
11:30 AM	CLEAR	
11:45 AM	clear	
NOON	clear	
12:15 PM	Clear	
12:30 PM	riear	
12:45 PM	CLEAR	
1:00 PM	clear	
1:15 PM	CLEAN	
1:30 PM	rlear	
1:45 PM	cloar	
2:00 PM	Clear	
2:15 PM	CLOAV	
2:30 PM	CLARC	

Comment: This door shut exergitine, and it only took one second or less to do so.

2:45 PM	clear	
3:00 PM	Clear	
3:15 PM	clear	
3:30 PM	clear	
3:45 PM	Clear	
4:00 PM	elear	
4:15 PM	Clock	
4:30 PM	Cleart	
4:45 PM	Clear	
5:00 PM	Clear	
5:15 PM	clear	
5:30 PM	clear	
5:45 PM	CLEAR	
6:00 PM	clear	

, . .

SIMULATION completed by:	Khalid Elmi: Security Officer PRINT NAME & TITLE
Date:	21110

ATTACHMENT F LABORATORY ANALYTICAL REPORTS

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 22, 2019

Logan Schumacher, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr Schumacher:

Included are the results from the testing of material submitted on February 18, 2019 from the SOU_0731-004_20190218, F&BI 902235 project. There are 9 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata SOU0222R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 18, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
902235 -01	IA21-20190217
902235 -02	IA23-20190217
902235 -03	IA24-20190217
902235 -04	IA25-20190217
902235 -05	OA02-20190217

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	IA21-20190217 02/18/19 02/17/19 02/19/19 Air ug/m3	Clier Proje Lab Data Instr Oper	nt: ect: ID: IFile: rument: rator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 902235-01 021818.D GCMS7 BAT
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenze	ene 95	70	130	
	Concen	tration		
Compounds:	ug/m3	ppbv		
Vinyl chloride	<0.26	< 0.1		
trans-1,2-Dichloroe	thene <0.4	< 0.1		
cis-1,2-Dichloroethe	ene <0.4	< 0.1		
Trichloroethene	< 0.27	< 0.05		
Tetrachloroethene	<6.8	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	IA23-20190217 02/18/19 02/17/19 02/19/19 Air ug/m3	C H I I I C	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 902235-02 021819.D GCMS7 BAT
Surrogates: 4-Bromofluorobenze	Recover ene E	% Lowe y: Limi 39 7	er Upper it: Limit: 70 130	
Compounds:	Conc ug/n	entration 13 ppt	OV	
Vinyl chloride	<0.2	26 <0	.1	
trans-1,2-Dichloroe	tnene <0	.4 <0	. L 1	
Tuitalalana atlaana	ene <0	.4 <0	.1 \r	
Tetrachloroethene	<0.2 <6	21 <0.0 .8 <	סט 1	

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	IA24-20190217 02/18/19 02/17/19 02/19/19 Air ug/m3	Clier Proj Lab Data Instr Oper	nt: ect: ID: a File: rument: rator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 902235-03 021820.D GCMS7 BAT
C	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromonuorobenze	ene 96	70	130	
	Concent	tration		
Compounds:	ug/m3	ppbv		
Vinyl chloride	<0.26	< 0.1		
trans-1,2-Dichloroe	thene <0.4	<0.1		
cis-1,2-Dichloroethe	ene <0.4	<0.1		
Trichloroethene	< 0.27	< 0.05		
Tetrachloroethene	<6.8	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	IA25-20190217 02/18/19 02/17/19 02/19/19 Air ug/m3	Clier Proje Lab Data Instr Oper	nt: ect: ID: a File: rument: rator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 902235-04 021821.D GCMS7 BAT
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenze	ene 104	70	130	
	Concent	tration		
Compounds:	ug/m3	ppbv		
Vinyl chloride	<0.26	< 0.1		
trans-1,2-Dichloroet	thene <0.4	< 0.1		
cis-1,2-Dichloroethe	ene <0.4	< 0.1		
Trichloroethene	< 0.27	< 0.05		
Tetrachloroethene	<6.8	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	OA02-20190217 02/18/19 02/17/19 02/19/19 Air ug/m3	Clien Proje Lab I Data Instr Opera	t: cct: D: File: ument: ator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 902235-05 021822.D GCMS7 BAT
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenze	ene 96	70	130	
	Concent	ration		
Compounds:	ug/m3	ppbv		
Vinyl chloride	<0.26	< 0.1		
trans-1,2-Dichloroet	thene <0.4	< 0.1		
cis-1,2-Dichloroethe	ene <0.4	< 0.1		
Trichloroethene	< 0.27	< 0.05		
Tetrachloroethene	<6.8	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix: Units:	Method Blank Not Applicable Not Applicable 02/19/19 Air ug/m3	Cli Pro La Da Ins Op	ent: oject: b ID: ta File: strument: erator:	SoundEarth Strategies SOU_0731-004_ 20190218, F&BI 902235 09-0287 mb 021817.D GCMS7 BAT
	%	6 Lower	Upper	
Surrogates:	Recovery	: Limit:	Limit:	
4-Bromofluorobenze	ene 107	7 70	130	
	Conce	entration		
Compounds:	ug/m	3 ppbv		
Vinyl chloride	<0.20	6 < 0.1		
trans-1,2-Dichloroe	thene <0.4	4 < 0.1		
cis-1,2-Dichloroethe	ene <0.4	4 < 0.1		
Trichloroethene	< 0.2	7 <0.05		
Tetrachloroethene	<6.	8 <1		

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/19 Date Received: 02/18/19 Project: SOU_0731-004_20190218, F&BI 902235

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Eaboratory could Eaboratory con	ier or Sampro			
			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Vinyl chloride	ppbv	5	121	70-130
trans-1,2-Dichloroethene	ppbv	5	124	70-130
cis-1,2-Dichloroethene	ppbv	5	126	70-130
Trichloroethene	ppbv	5	101	70-130
Tetrachloroethene	ppbv	5	104	70-130

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

 ${\bf b}$ - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

 ${\rm d}$ - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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a Gaules	<u> </u>		()入	- PBOJE	CT NAME	μn	12			PO	#			-Star	rURI 1daré	NAROUND TI l	ME
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SAMPLE INFORMATION .		1	1		<u> </u>	<u> </u>	1			ANA		IS R	EQU	JEST	ED		
							-			Scan	XN	*°°°					
				Reporting			2/17/19		2/18/19	m	BTE	°VC	ΡH	lium			
			Flow	IA=Indoor Air		Initial	Field	Final	Field	15 I	015	015	Α	He			
Sample Name	Lab ID	Canister	Cont.	SG=Soil Gas (Circle One)	Date Sampled	Vac.	Initial Time	Vac.	Final Time	2 2	Ĕ	F				Noto	
IA21-20190217	0/	20554	07848	(IA) / SG	2/17/14 +0	29,0	0058	6, í	0102			X				INOLE	8
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0A02-20190217	05	18576	06604	(A) / SG	d	29,7	0109	6.8	6132			\times		цк,	٤) .	- 	
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Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
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Ph. (206) 285-8282	Relinquished by:		7		<i>4</i>
Fax (206) 283-5044	Received by:				
FORMS\COC\COCTO-15.DOC	L	<u>1</u>			



3/21/2019 Mr. Logan Schumacher SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle WA 98102

Project Name: Troy Laundry Property Project #: 0731-004 Workorder #: 1903365

Dear Mr. Logan Schumacher

The following report includes the data for the above referenced project for sample(s) received on 3/15/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. WMS 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 to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Killy Butte

Kelly Buettner Project Manager

A Eurofins Lancaster Laboratories Company

180 Blue Ravine Road, Suite B Folsom, CA 95630



WORK ORDER #: 1903365

Work Order Summary

CLIENT:	Mr. Logan Schumacher SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102	BILL TO:	Mr. Logan Schumacher SoundEarth Strategies, Inc 2811 Fairview Avenue East Suite 2000 Seattle, WA 98102
PHONE:	206-306-1900	P.O. #	0731-004
FAX:	206-306-1907	PROJECT #	0731-004 Troy Laundry Property
DATE RECEIVED:	03/15/2019	CONTACT	Kelly Buettner
DATE COMPLETED:	03/21/2019	contact.	Keny Ducturer

FRACTION #	NAME	<u>TEST</u>
01A	IA22-20190219	Passive S.E. WMS
02A	Trip Blank	Passive S.E. WMS
03A	Lab Blank	Passive S.E. WMS
04A	LCS	Passive S.E. WMS
04AA	LCSD	Passive S.E. WMS

CERTIFIED BY:

Rayes Tende 6

Technical Director

DATE: <u>03/21/19</u>

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics LLC. 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



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LABORATORY NARRATIVE WMS Passive SE by Mod EPA TO-17 SoundEarth Strategies, Inc Workorder# 1903365

Two WMS-SE samples were received on March 15, 2019. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Please note that 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) can degrade into Trichloroethene (TCE) during storage on the charcoal-based sorbent used in the WMS device. Samples containing 1,1,2,2-PCA may yield reduced concentrations of 1,1,2,2-PCA and elevated concentrations of TCE.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	TO-17	ATL Modifications
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.



Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank and Trip Blank, a sampling duration of 30220 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate 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.
- C Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

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



Summary of Detected Compounds VOC BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA22-20190219

Lab ID#: 1903365-01A No Detections Were Found.

Client Sample ID: Trip Blank

Lab ID#: 1903365-02A No Detections Were Found.



Client Sample ID: IA22-20190219 Lab ID#: 1903365-01A VOC BY PASSIVE SAMPLER - GC/MS

T

File Name: Dil. Factor:	18031814sim 1.00	Date of Collection: 3/12/19 6:03:00 AM Date of Analysis: 3/18/19 01:04 PM Date of Extraction: 3/18/19					
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)			
Vinyl Chloride	0.20	5.5	Not Detected	Not Detected			
trans-1,2-Dichloroethene	0.10	2.1	Not Detected	Not Detected			
cis-1,2-Dichloroethene	0.050	0.87	Not Detected	Not Detected			
Trichloroethene	0.050	0.64	Not Detected	Not Detected			
Tetrachloroethene	0.050	0.42	Not Detected	Not Detected			

Temperature = 77.0F , duration time = 30220 minutes. Container Type: WMS-SE

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	94	70-130		



Client Sample ID: Trip Blank Lab ID#: 1903365-02A VOC BY PASSIVE SAMPLER - GC/MS

T

File Name: Dil. Factor:	18031815sim 1.00	Date of Collection: 3/12/19 Date of Analysis: 3/18/19 01:29 PM Date of Extraction: 3/18/19		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Vinyl Chloride	0.20	5.5	Not Detected	Not Detected
trans-1,2-Dichloroethene	0.10	2.1	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.050	0.87	Not Detected	Not Detected
Trichloroethene	0.050	0.64	Not Detected	Not Detected
Tetrachloroethene	0.050	0.42	Not Detected	Not Detected

Temperature = 77.0F , duration time = 30220 minutes. Container Type: WMS-SE

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	94	70-130		



Client Sample ID: Lab Blank Lab ID#: 1903365-03A VOC BY PASSIVE SAMPLER - GC/MS

T

File Name: Dil. Factor:	18031805sim 1.00	Date of Collection: NA Date of Analysis: 3/18/19 09:20 AM Date of Extraction: 3/18/19			
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)	
Vinyl Chloride	0.20	5.5	Not Detected	Not Detected	
trans-1,2-Dichloroethene	0.10	2.1	Not Detected	Not Detected	
cis-1,2-Dichloroethene	0.050	0.87	Not Detected	Not Detected	
Trichloroethene	0.050	0.64	Not Detected	Not Detected	
Tetrachloroethene	0.050	0.42	Not Detected	Not Detected	

Temperature = 77.0F , duration time = 30220 minutes. Container Type: WMS-SE

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	92	70-130		



Client Sample ID: LCS Lab ID#: 1903365-04A VOC BY PASSIVE SAMPLER - GC/MS

Т

File Name: Dil. Factor:	18031803sim 1.00	Date of Collection: NA Date of Analysis: 3/18/19 08:29 AM Date of Extraction: 3/18/19		
Compound		%Recovery	Method Limits	
Vinyl Chloride		83	50-140	
trans-1,2-Dichloroethene		86	70-130	
cis-1,2-Dichloroethene		83	70-130	
Trichloroethene		95	70-130	
Tetrachloroethene		91	70-130	

Container Type: NA - Not Applicable

Currentee	1 / D = = = = = = = = = = = = = = = = = = =	Method	
Surrogates	%Recovery	Limits	
Toluene-d8	93	70-130	



Client Sample ID: LCSD Lab ID#: 1903365-04AA VOC BY PASSIVE SAMPLER - GC/MS

Т

File Name: Dil. Factor:	18031804sim 1.00	Date of Collection: NA Date of Analysis: 3/18/19 08:55 AM Date of Extraction: 3/18/19		
Compound		%Recovery	Method Limits	
Vinyl Chloride		69	50-140	
trans-1,2-Dichloroethene		86	70-130	
cis-1,2-Dichloroethene		83	70-130	
Trichloroethene		97	70-130	
Tetrachloroethene		90	70-130	

Container Type: NA - Not Applicable

		Method
Surrogates	%Recovery	Limits
Toluene-d8	93	70-130

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Air Toxics

Passive Sorbent Chain of Custody

		65				Case	Seal #:				WO#:	1903365
Com	pany: S <u>andE</u> a	with Strategrs	Project #: 07	31-004	P.O.# 073	-004	Samp	le Matr or	'ix (ne)	check	Reporting Units (circle)	Turn Around Time:
Proje	ect Manager: Logn	Schumaches	Project Name	Troy L.	wholes Pro	pesty	Air		itoring	کايد	ppbv ug/m3	Normal
Cont	act phone/email: (206,	1484-718*1	Collected by:	Login Sch	omacher	r	tdoor		e Mon	P Bi	ppmv mg/m3	Rush
Lab ID	Sample Identification	Sampler ID	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	door/Ou	oil Gas	/orkplace	ther(<u> </u>	ug ng Analysis Paguostad	Specify Sample Comments:
άĄ	IA22-20190219	1844-AN-R-039	02/14/14	0623	03/12/19	0603	X	٥.	8	0	CVOCS*	
524	Trip Blunk	1844-AN-R-040					$\mathbf{\tilde{\mathbf{X}}}$			×		Trap Blank.
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Relin	quisped by:		Date	Time	Received by:			Date			Time	tring-1,2-DCE and Visual chlorace
Relind	Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and International laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples.											
Shinn	er Namo:		Outrate due Outrate d		Lab Use Only							
Air bil	I#: HCd	ZX	Temperature (°C	ntact? Ye	s No	None	Sam	ple C	onditi (ci	on Up ircle)	oon Receipt:	Good SDR

Eurofins Air Toxics, Inc. 180 Blue Ravine Rd. Suite B Folsom, CA 95630 (916) 985-1000 Fax: (916) 351-8279

ATTACHMENT G FRIEDMAN & BRUYA, INC. TO-15 DETECTION LIMITS UPDATE

Logan Schumacher

From: Sent: To: Subject: Eric Young <eyoung@friedmanandbruya.com> Tuesday, February 26, 2019 2:33 PM Logan Schumacher TO15 Reporting Limits

Hello Logan,

In late 2018, we upgraded our TO15 instrument to a cryogen free system. The reporting limits we established for the new instrument were based on routinely meeting the criteria set forth in the WADOE VI Table (2015). Reporting limits for samples analyzed prior to implementation of the cryo-free system may differ slightly. If you have further questions, please let me know.

Regards,

Eric Young

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119 Office - (206)285-8282 Cell - (206)683-1731



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