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Attorneys

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608.210.6307

November 14, 2019

VIA CERTIFIED MAIL

John Ekornaas
5619 22nd Avenue
Kenosha, WI 53140

7017 2400 0000 6701 0591

John Ekornaas
5605 22nd Avenue
Kenosha, WI 53140

7017 2400 0000 6701 0607

RE: Groundwater and Vapor Sampling Results for Former Arctic Laundry & Cleaners, BRRTS No. 02-30-245843

Dear Mr. Ekornaas:

Included with this letter are the results of recent groundwater and vapor sampling conducted at your properties located at 5619 22nd Avenue and 5605 22nd Avenue (Midnight Liquor & Bar) in Kenosha, Wisconsin, by SCS Engineers. This investigation was conducted as part of continuing site investigation and remediation efforts at 5619 22nd Avenue, the former Arctic Laundry & Cleaners site.

A. Groundwater Samples

SCS Engineers collected groundwater samples on October 1, 2019 from three monitoring wells ("MW"). These results were submitted to Test America for laboratory analysis for volatile organic compounds (VOCs).

There were no dry cleaner-related VOCs detected in the MW1 or MW2 samples. The analysis detected PCE in the MW3 sample in excess of a Department of Natural Resources NR 140 enforcement standard (ES). This concentration was slightly higher than the concentration detected at the same monitoring well in February 2017, but consistent with the concentration detected at the same monitoring well in October 2018.

In addition, the VOC 1,2-dichloropropane was detected in the MW2 sample at a concentration in excess of the Department of Natural Resources NR 140 preventive action limit (PAL). The source of 1,2-dichloropropane is not known, but it was detected in the previous MW2 samples in 2017 and 2018.

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1200 North Mayfair Road
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Milwaukee, Wisconsin
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888.655.4752
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www.staffordlaw.com

B. Vapor Samples

SCS Engineers collected sub-slab and indoor air samples on October 2, 2019 from the building located at 5605 22nd Ave (Midnight Liquor & Bar). These results were submitted to Pace Analytical for laboratory analysis for VOCs including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dicyloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

Sub-slab vapor samples were collected from sample ports SS-7, SS-8, and SS-9. PCE was detected in all of the sub-slab samples at concentrations below DNR's residential and commercial vapor risk screening levels (VRSLs). TCE was detected in one sub-slab sample (SS-8) at a concentration below DNR's residential and commercial VRSL. The sub-slab vapor concentrations of TCE and PCE were slightly higher than observed during the prior sampling in January 2018.

Indoor air samples were collected from 5605 22nd Ave (Midnight Liquor & Bar) on October 2, 2019. An outdoor air sample was also collected on October 2, 2019. The analysis found no detections of VOCs in the outdoor air sample. PCE was detected in all of the Midnight Liquor & Bar indoor air samples at concentrations below DNR's residential and commercial indoor air vapor action levels (VALs). TCE was detected in the 5605 22nd Avenue basement indoor air sample at a concentration below the DNR's indoor air VAL.

Please find attached to this letter a notification form, sampling results, a map of sampling locations, and the laboratory analysis.

If you have any questions regarding these results, please feel free to contact me at (608) 210-6307 or vwishart@staffordlaw.com

Best Regards,

Stafford Rosenbaum LLP

Vanessa D. Wishart

VDW:mai
Enclosures

cc: Robert Langdon, SCS Engineers, by email
Doug Cieslak, Wisconsin DNR, by email

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City, State, ZIP+4® Kenosha, WI 53140

PS Form **3800**, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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1. Article Addressed to:

John Ekornaas
5605 - 22nd Avenue
Kenosha, WI 53140

9590 9402 3215 7196 5839 27

2. Article Number *(Transfer from service label)*

7017 2400 0000 6701 0607

PS Form **3811**, July 2015 PSN 7530-02-000-9053

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Sent To
John Ekornaas
Street and Apt. No., or PO Box No.
5619 - 22nd Avenue
City, State, ZIP+4®
Kenosha, WI 53140

PS Form **3800**, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

---

SENDER: *COMPLETE THIS SECTION*

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- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:

John Ekornaas
5619 22nd Avenue
Kenosha, WI 53140

9590 9402 3215 7196 5839 34

2. Article Number *(Transfer from service label)*
7017 2400 0000 6701 0591

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

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PS Form **3811**, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Former Arctic Laundry & Cleaners			02-30-245843
Address	**City**	**State**	**ZIP Code**
5619 22nd Avenue	Kenosha	WI	53140

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner			
Roy Baietto			
Address	**City**	**State**	**ZIP Code**
1850 19th Avenue	Kenosha	WI	53140
Contact Person		**Phone Number (include area code)**	
Vanessa Wishart, Attorney, Stafford Rosenbaum LLP		(608) 210-6307	

Person or company that collected samples

SCS Engineers

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) NR 716 Site Investigation

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	○	○	○
Diesel or Fuel Oil	○	○	○	○
Solvents	◉	○	◉	○
Heavy Metals	○	○	○	○
Pesticides	○	○	○	○
Other: _____	○	○	○	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	◉	○
Sub-slab	◉	○
Exterior Soil Gas	○	○

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name		
Address	City	State	ZIP Code	
		WI		
Phone # (inc. area code)	Email			

Select which agency: ◯ Natural Resources ◯ Agriculture, Trade and Consumer Protection

State of Wisconsin Department of

Contact Person Last Name	First Name	Phone # (inc. area code)	
Address	City	State	ZIP Code
		WI	
Email			

Table 1. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs
GP-1	8/25/1994	--	**42.0**	*1.0*	<3	<1	<1	Toluene 7.2
GP-2	10/20/1995	--	**13**	<1.0	<3.0	<1.0	<1.0	ND
GP-3	10/20/1995	--	**50**	<1.0	<3.0	<1.0	<1.0	ND
GP-4	10/20/1995	--	**14**	*2.2*	<3.0	6.2	<1.0	ND
GP-5	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-6	10/26/1995	--	<1.0	<1.0	<3.0	<1.0	<1.0	ND
GP-7	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-8	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-9	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-10	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
GP-11	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
MW-1	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
	10/3/2018	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND
	10/1/2019	--	<0.37	<0.16	<0.20	<0.41	<0.35	Toluene 0.22 J
MW-2	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *1.3*
	2/21/2017 (DUP)	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *1.2*
	10/3/2018	--	0.39 J	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *2.6* Dichlorodifluoromethane 0.85 J,B
	10/1/2019	--	<0.37	<0.16	<0.20	<0.41	<0.35	1,2-Dichloropropane *1.7* Toluene 0.18 J

Table 1. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	VC	cis-1,2-DCE	trans-1,2-DCE	Other VOCs	
MW-3	2/21/2017	--	1.5	<0.16	<0.20	<0.41	<0.35	ND	
	10/3/2018	--	**41**	<0.16	<0.20	<0.41	<0.35	Dichlorodifluoromethane	0.81 J,B
	10/3/2018 (DUP)	--	**41**	<0.16	<0.20	<0.41	<0.35	ND	
	10/1/2019	--	**37**	<0.16	<0.20	<0.41	<0.35	Toluene	0.22 J
	10/1/2019 (DUP)	--	**41**	<0.16	<0.20	<0.41	<0.35	Toluene	0.19 J
Trip Blank	2/6/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND	
	2/21/2017	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND	
	10/3/2018	--	<0.37	<0.16	<0.20	<0.41	<0.35	ND	
	10/1/2019	--	<0.37	<0.16	<0.20	<0.41	<0.35	Toluene	0.21 J
NR 140 Enforcement Standards (ESs)			5	5	0.2	70	100	Toluene 1,2-Dichloropropane Dichlorodifluoromethane	800 5 1,000
NR 140 Preventive Action Limits (PALs)			0.5	0.5	0.02	7	20	Toluene 1,2-Dichloropropane Dichlorodifluoromethane	160 0.5 200

Abbreviations:
µg/L = micrograms per liter or parts per billion (ppb)
VC = Vinyl Chloride
NA = Not Analyzed
DCE = Dichloroethene
TCE = Trichloroethene
ND = Not Detected
PCE = Tetrachloroethene
VOCs = Volatile Organic Compounds
– = Not Applicable

Table 1. Groundwater Analytical Results Summary
Former Arctic Laundry & Cleaners - 5619 22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00

Notes:
NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.
NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from July 2015.
Bold+underlined values meet or exceed NR 140 ESs.
Italic+underlined values meet or exceed NR 140 PALs.

8/23/1994, 10/20/1995, and 10/26/1995 samples collected by Sigma Environmental Services, Inc., of Oak Creek, WI
2/6/2017, 2/21/2017, 10/3/2018, and 10/1/2019 samples collected by SCS Engineers of Madison, WI

Laboratory Notes/Qualifiers:
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B = Compound was found in the blank and sample.

Created by:	LMH	Date:	2/21/2017
Last revision by:	LMH	Date:	10/28/2019
Checked by:	JSN	Date:	10/29/2019
Proj Mgr QA/QC:	REL	Date:	11/5/2019

Table 2. Sub-Slab Vapor Analytical Results Summary
22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
5605 Midnight Liquor and Bar							
SS-7	1/25/2018	--	<0.074	<0.088	<0.15	<0.13	<0.089
	10/2/2019	--	4.3	<0.081	<0.094	<0.12	<0.085
SS-8	1/25/2018	--	5.2	0.22	<0.15	<0.13	<0.089
	10/2/2019	--	11	0.81	<0.087	<0.11	<0.077
SS-9	1/25/2018	--	1.9	<0.099	<0.17	<0.15	<0.096
	10/2/2019	--	3.6	<0.075	<0.087	<0.11	<0.077
5619 Former Arctic Laundry & Cleaners							
SS-1	2/7/2017	--	**418,000** A3, E	**1,290** A3	5.7	5.8	<0.14
SS-2	2/7/2017	--	**973**	**66.5**	1.7	11.8	<0.13
SS-3	2/7/2017	--	**26,100** A3	**86.4** A3	1.4	0.5	<0.14
5621/5625 Pa's Pizzeria							
SS-4	1/24/2018	--	<0.074	<0.088	<0.15	<0.13	<0.089
SS-5	1/24/2018	--	0.78	<0.1	<0.17	<0.15	<0.1
SS-6	1/24/2018	--	0.2	<0.092	<0.16	<0.14	<0.092
	10/2/2019	--	0.93	<0.1	<0.12	<0.16	<0.11
Vapor Risk Screening Level (Residential Building)			210	13	NE	NE	22
Vapor Risk Screening Level (Small Commercial Building)			900	53	NE	NE	370

Table 2. Sub-Slab Vapor Analytical Results Summary
22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00

Abbreviations:
ppbV = parts per billion by volume
trans-1,2-DCE = trans-1,2-dichloroethylene
cis-1,2-DCE = cis-1,2-dichloroethylene
NE = not established
– = not applicable

Notes:
1. Samples were collected in 6-liter summa canisters over a 30-minute period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on N USEPA Regional Screening Level Tables.
3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Lab Notes:
A3 = The sample was analyzed by serial dilution.
E = Analyte concentration exceeded the calibration range. The reported result is estimated.

Created by:	LMH	Date:	2/24/2017
Last revision by:	JSN	Date:	10/17/2019
Checked by:	AJR	Date:	10/18/2019
Proj Mgr QA/QC:	REL	Date:	10/28/2019

I:\25216186.00\Data and Calculations\Tables\[Sub-Slab Vapor.xlsx]Sub-Slab Results

Table 3. Indoor Air Analytical Results Summary
22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
5605 Midnight Liquor and Bar							
5605 Basement	1/25/2018	--	<0.064	<0.077	<0.13	<0.11	<0.077
	10/2/2019	--	0.46	0.16	<0.082	<0.1	<0.073
5605 2nd Floor	1/25/2018	--	<0.064	<0.077	<0.13	<0.11	<0.077
	10/2/2019	--	0.12 J	<0.07	<0.082	<0.1	<0.073
5605 Outdoor	1/25/2018	--	<0.059	<0.071	<0.12	<0.1	<0.069
	10/2/2019	--	<0.059	<0.06	<0.069	<0.092	<0.062
5605 Bar	1/25/2018	--	<0.064	<0.077	<0.13	<0.11	<0.077
	10/2/2019	--	0.13 J	<0.07	<0.082	<0.1	<0.073
5605 Liquor Store	1/25/2018	--	<0.067	<0.079	<0.14	<0.12	<0.077
	10/2/2019	--	0.11 J	<0.07	<0.082	<0.1	<0.073
5619 Former Arctic Laundry & Cleaners							
5619 Basement	2/7/2017	--	5.6	1	5	<0.15	<0.12
5619 1st Floor	2/7/2017	--	1.3	0.31	1.2	<0.15	<0.12
5619 2nd Floor	2/7/2017	--	1.1	0.22	0.84	<0.16	<0.13
5619 Outdoor	2/7/2017	--	1.8	<0.075	<0.092	<0.14	<0.11
5621/5625 Pa's Pizzeria							
5621 Basement	1/24/2018	--	<0.064	<0.075	<0.13	<0.11	<0.073
	10/2/2019	--	<0.068	<0.07	<0.082	<0.1	<0.073

Table 3. Indoor Air Analytical Results Summary
22nd Avenue, Kenosha, Wisconsin / SCS Engineers Project #25216186.00
(Results are in ppbV)

Sample/Location	Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
5621 1st Floor	1/24/2018	--	<0.061	<0.071	<0.12	<0.11	<0.069
	10/2/2019	--	<0.068	<0.07	<0.082	<0.1	<0.073
5621 Outdoor	1/24/2018	--	<0.062	<0.073	<0.13	<0.11	<0.073
	10/2/2019	--	<0.064	<0.066	<0.077	<0.099	<0.069
5625 Storage	1/24/2018	--	<0.064	<0.077	<0.13	<0.11	<0.077
	10/2/2019	--	<0.17	<0.18	<0.21	<0.27	<0.19
Indoor Air Vapor Action Level (Residential Building)			6.2	0.39	NE	NE	0.65
Indoor Air Vapor Action Level (Commercial Building)			27	1.6	NE	NE	11

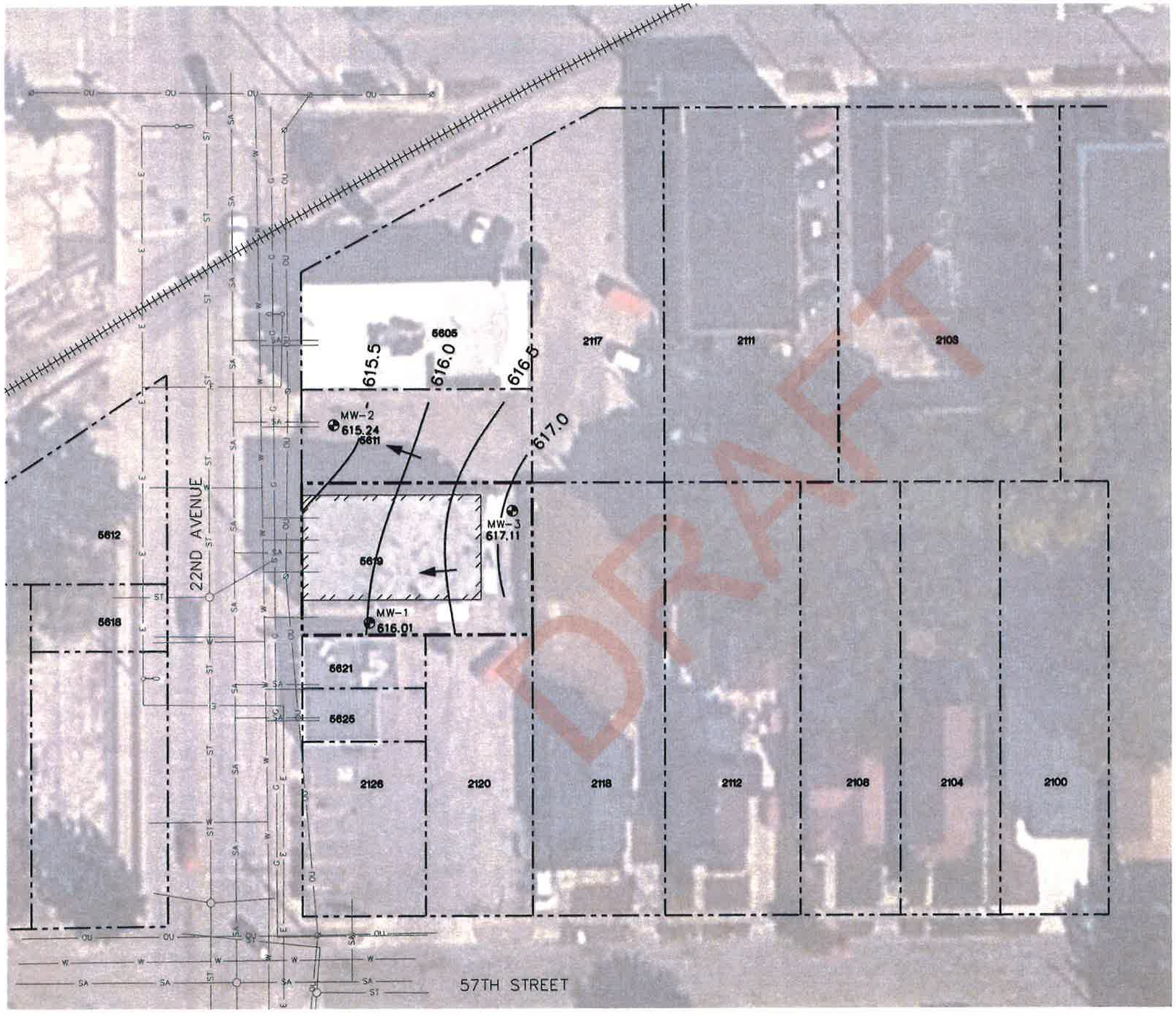
Abbreviations:
ppbV = parts per billion by volume
cis-1,2-DCE = cis-1,2-dichloroethylene
trans-1,2-DCE = trans-1,2-dichloroethylene
NE = not established

Notes:
1. Samples were collected in 6-liter summa canisters over a 24-hour period and analyzed using the USEPA TO-15 analytical method.
2. Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on Nove USEPA Regional Screening Level Tables.
3. **Bold** & **underlined** values exceed Indoor Air Vapor Action Levels.

Lab Notes:
J = Estimated concentration at or above theLOD and below the LOQ.

Created by: LMH Date: 2/24/2017
Last revision by: JSN Date: 10/18/2019
Checked by: AJR Date: 10/18/2019
Proj Mgr QA/QC: REL Date: 10/28/2019

I:\25216186.00\Data and Calculations\Tables\[Indoor Air.xlsx]Results



N

LEGEND

- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
- APPROXIMATE PROPERTY LINE
- 5619 PROPERTY ADDRESS NUMBER
- RAILROAD TRACKS
- E ELECTRIC (BURIED)
- OU ELECTRIC (OVERHEAD)
- G GAS MAIN
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER MAIN
- UTILITY POLE
- STREET LIGHT
- MONITORING WELL
- WATER TABLE CONTOUR
- 616.01 WATER TABLE ELEVATION MEASURED 10.01.19
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES:

1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
3. SAMPLE LOCATIONS ARE APPROXIMATE.

40 0 40

SCALE: 1" = 40'

WATER TABLE MAP
OCTOBER 1, 2019

FIGURE 3

SCS ENGINEERS
2830 DAIRY DRIVE, MADISON, WI 53718-6751
PHONE: (608) 224-2830

ENGINEER

ARCTIC LAUNDRY AND CLEANERS
5619 22ND AVENUE
KENOSHA, WISCONSIN

SITE

STAFFORD ROSENBAUM, LLP
222 WEST WASHINGTON AVENUE
MADISON, WI 53701

CLIENT

PROJECT NO.	25216186.00	DRAWN BY:	KP
DRAWN:	11/08/19	CHECKED BY:	REL
REVISED:	11/11/19	APPROVED BY:	REL 11/14/19

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N

LEGEND

- APPROXIMATE PROPERTY LINE (5619 22ND AVENUE)
- APPROXIMATE PROPERTY LINE
- 5619 PROPERTY ADDRESS NUMBER
- RAILROAD TRACKS
- E ELECTRIC (BURIED)
- OU ELECTRIC (OVERHEAD)
- G GAS MAIN
- SA SANITARY SEWER
- ST STORM SEWER
- W WATER MAIN
- ⌀ UTILITY POLE
- STREET LIGHT
- SUMP
- GEOPROBE BORING
- MONITORING WELL
- SUB-SLAB VAPOR SAMPLE
- INDOOR AIR SAMPLE [BASEMENT (B), FIRST FLOOR (1), SECOND FLOOR (2)]
- OUTDOOR AIR SAMPLE
- VAPOR MITIGATION SYSTEM PIPING
- VAPOR MITIGATION SYSTEM PICK-UP POINT
- VAPOR MITIGATION SYSTEM FAN

NOTES:

1. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD 2016 GEOLOCATION MAP TOOL.
2. UTILITY LOCATIONS ARE APPROXIMATE, BASED ON 22ND AVENUE STORM SEWER AND LIGHTING DRAWING PROVIDED BY THE CITY OF KENOSHA (STATE PROJECT NO. 3994-03-70, SHEET 2.5).
3. SAMPLE LOCATIONS ARE APPROXIMATE.

40 0 40

SCALE: 1" = 40'

SITE FEATURES MAP

ARCTIC LAUNDRY AND CLEANERS
5619 22ND AVENUE
KENOSHA, WISCONSIN

SITE

STAFFORD ROSENBAUM, LLP
222 WEST WASHINGTON AVENUE
MADISON, WI 53701

CLIENT

FIGURE 2

SCS ENGINEERS
2830 DAIRY DRIVE, MADISON, WI 53718-6751
PHONE: (608) 224-2830

ENGINEER

PROJECT NO.	25216186.00
DRAWN:	10/20/16
REVISED:	11/11/19
DRAWN BY:	KP
CHECKED BY:	JD
APPROVED BY:	REL 11/14/19

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eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-171208-1
Client Project/Site: Arctic Laundry & Cleaners 25216186.00

For:
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

Attn: Mr. Robert Langdon

Authorized for release by:
10/18/2019 1:10:52 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners 25216186.00

Job ID: 500-171208-1

Job ID: 500-171208-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-171208-1

Comments
No additional comments.

Receipt
The samples were received on 10/4/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method 8260B: The following samples were collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW3 Dup (500-171208-1), MW2 (500-171208-2) and MW3 (500-171208-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: MW3 Dup — Lab Sample ID: 500-171208-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	41		1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.19	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW2 — Lab Sample ID: 500-171208-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.7		1.0	0.43	ug/L	1		8260B	Total/NA
Toluene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW3 — Lab Sample ID: 500-171208-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	37		1.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.22	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: MW1 — Lab Sample ID: 500-171208-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.22	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-171208-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.21	J	0.50	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-171208-1	MW3 Dup	Water	10/01/19 13:15	10/04/19 08:45	
500-171208-2	MW2	Water	10/01/19 12:45	10/04/19 08:45	
500-171208-3	MW3	Water	10/01/19 13:15	10/04/19 08:45	
500-171208-4	MW1	Water	10/01/19 13:49	10/04/19 08:45	
500-171208-5	Trip Blank	Water	10/01/19 00:00	10/04/19 08:45	

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: MW3 Dup
Lab Sample ID: 500-171208-1
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 16:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 16:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 16:58	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 16:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 16:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 16:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 16:58	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 16:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 16:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 16:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 16:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 16:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 16:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 16:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 16:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 16:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 16:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 16:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 16:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 16:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/19 16:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 16:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 16:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 16:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 16:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 16:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 16:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 16:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 16:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 16:58	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 16:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 16:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 16:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 16:58	1
Tetrachloroethene	**41**		1.0	0.37	ug/L			10/14/19 16:58	1
Toluene	**0.19**	**J**	0.50	0.15	ug/L			10/14/19 16:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 16:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: MW3 Dup
Lab Sample ID: 500-171208-1
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 16:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 16:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 16:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 16:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 16:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 16:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 16:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 16:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 16:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 16:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*10/14/19 16:58*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*10/14/19 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 126*		*10/14/19 16:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*10/14/19 16:58*	*1*

Client Sample ID: MW2
Lab Sample ID: 500-171208-2
Date Collected: 10/01/19 12:45
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 17:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 17:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 17:23	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 17:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 17:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 17:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 17:23	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 17:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 17:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 17:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 17:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 17:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 17:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 17:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 17:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 17:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 17:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 17:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 17:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1

Client Sample ID: MW2
Lab Sample ID: 500-171208-2
Date Collected: 10/01/19 12:45
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	**1.7**		1.0	0.43	ug/L			10/14/19 17:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 17:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 17:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 17:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 17:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 17:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 17:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 17:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 17:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:23	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 17:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 17:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 17:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/19 17:23	1
Toluene	**0.18**	**J**	0.50	0.15	ug/L			10/14/19 17:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 17:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 17:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 17:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 17:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 17:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 17:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 17:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 17:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 17:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 17:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*10/14/19 17:23*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*10/14/19 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*10/14/19 17:23*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*10/14/19 17:23*	*1*

Client Sample ID: MW3
Lab Sample ID: 500-171208-3
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 17:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 17:49	1

Client Sample ID: MW3
Lab Sample ID: 500-171208-3
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 17:49	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 17:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 17:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 17:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 17:49	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 17:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 17:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 17:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 17:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 17:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 17:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 17:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 17:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 17:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 17:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 17:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 17:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/19 17:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 17:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 17:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 17:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 17:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 17:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 17:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 17:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 17:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:49	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 17:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 17:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 17:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 17:49	1
Tetrachloroethene	**37**		1.0	0.37	ug/L			10/14/19 17:49	1
Toluene	**0.22**	**J**	0.50	0.15	ug/L			10/14/19 17:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 17:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 17:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 17:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 17:49	1

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: MW3
Lab Sample ID: 500-171208-3
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 17:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 17:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 17:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 17:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 17:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 17:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 17:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*10/14/19 17:49*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/14/19 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*10/14/19 17:49*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/14/19 17:49*	*1*

Client Sample ID: MW1
Lab Sample ID: 500-171208-4
Date Collected: 10/01/19 13:49
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 18:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 18:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 18:14	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 18:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 18:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 18:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 18:14	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 18:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 18:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 18:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 18:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 18:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 18:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 18:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 18:14	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 18:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 18:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 18:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 18:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/19 18:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 18:14	1

Client Sample ID: MW1
Lab Sample ID: 500-171208-4
Date Collected: 10/01/19 13:49
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 18:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 18:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 18:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 18:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 18:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 18:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 18:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:14	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 18:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:14	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 18:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 18:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/19 18:14	1
Toluene	**0.22**	**J**	0.50	0.15	ug/L			10/14/19 18:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 18:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 18:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 18:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 18:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 18:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 18:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 18:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 18:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 18:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 18:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*10/14/19 18:14*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*10/14/19 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*10/14/19 18:14*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/14/19 18:14*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 500-171208-5
Date Collected: 10/01/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 18:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 18:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 18:39	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 18:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 18:39	1

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: Trip Blank
Lab Sample ID: 500-171208-5
Date Collected: 10/01/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 18:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 18:39	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 18:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 18:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 18:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 18:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 18:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 18:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 18:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 18:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 18:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 18:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 18:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 18:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/19 18:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 18:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 18:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 18:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 18:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 18:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 18:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 18:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 18:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:39	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 18:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 18:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 18:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 18:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/19 18:39	1
Toluene	**0.21**	**J**	0.50	0.15	ug/L			10/14/19 18:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 18:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 18:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 18:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 18:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 18:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 18:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 18:39	1

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: Trip Blank
Lab Sample ID: 500-171208-5
Date Collected: 10/01/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 18:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 18:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 18:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 18:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*10/14/19 18:39*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*10/14/19 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*10/14/19 18:39*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/14/19 18:39*	*1*

Definitions/Glossary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

GC/MS VOA

Analysis Batch: 509833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-171208-1	MW3 Dup	Total/NA	Water	8260B	
500-171208-2	MW2	Total/NA	Water	8260B	
500-171208-3	MW3	Total/NA	Water	8260B	
500-171208-4	MW1	Total/NA	Water	8260B	
500-171208-5	Trip Blank	Total/NA	Water	8260B	
MB 500-509833/6	Method Blank	Total/NA	Water	8260B	
LCS 500-509833/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners 25216186.00

Job ID: 500-171208-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-171208-1	MW3 Dup	110	90	81	99
500-171208-2	MW2	108	90	83	97
500-171208-3	MW3	111	93	85	98
500-171208-4	MW1	112	89	83	100
500-171208-5	Trip Blank	112	90	87	100
LCS 500-509833/4	Lab Control Sample	94	95	83	105
MB 500-509833/6	Method Blank	105	91	87	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Client: SCS Engineers
Project/Site: Arctic Laundry & Cleaners 25216186.00

Job ID: 500-171208-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-509833/6
Matrix: Water
Analysis Batch: 509833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/19 09:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/19 09:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/19 09:26	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/19 09:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/19 09:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/19 09:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/19 09:26	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/19 09:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/19 09:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/19 09:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/19 09:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/19 09:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/19 09:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/19 09:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/19 09:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/19 09:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/19 09:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/19 09:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/19 09:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/19 09:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/19 09:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/19 09:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/19 09:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/19 09:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/19 09:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/19 09:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/19 09:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/19 09:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/19 09:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 09:26	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/19 09:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/19 09:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/19 09:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/19 09:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/19 09:26	1
Toluene	<0.15		0.50	0.15	ug/L			10/14/19 09:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/19 09:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-509833/6
Matrix: Water
Analysis Batch: 509833

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/19 09:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/19 09:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/19 09:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/19 09:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/19 09:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/19 09:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/19 09:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/19 09:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/19 09:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/19 09:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/19 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*10/14/19 09:26*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*10/14/19 09:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*10/14/19 09:26*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*10/14/19 09:26*	*1*

Lab Sample ID: LCS 500-509833/4
Matrix: Water
Analysis Batch: 509833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.3		ug/L		99	70 - 120
Bromobenzene	50.0	49.0		ug/L		98	70 - 122
Bromochloromethane	50.0	48.8		ug/L		98	65 - 122
Bromodichloromethane	50.0	42.8		ug/L		86	69 - 120
Bromoform	50.0	46.2		ug/L		92	56 - 132
Bromomethane	50.0	42.9		ug/L		86	40 - 152
Carbon tetrachloride	50.0	44.1		ug/L		88	59 - 133
Chlorobenzene	50.0	50.9		ug/L		102	70 - 120
Chloroethane	50.0	54.3		ug/L		109	48 - 136
Chloroform	50.0	45.9		ug/L		92	70 - 120
Chloromethane	50.0	41.7		ug/L		83	56 - 152
2-Chlorotoluene	50.0	47.3		ug/L		95	70 - 125
4-Chlorotoluene	50.0	46.1		ug/L		92	68 - 124
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	70 - 125
cis-1,3-Dichloropropene	50.0	47.9		ug/L		96	64 - 127
Dibromochloromethane	50.0	45.9		ug/L		92	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	33.6		ug/L		67	56 - 123
1,2-Dibromoethane	50.0	48.6		ug/L		97	70 - 125
Dibromomethane	50.0	43.9		ug/L		88	70 - 120
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 125
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	34.8		ug/L		70	40 - 159
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-509833/4
Matrix: Water
Analysis Batch: 509833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	42.5		ug/L		85	68 - 127
1,1-Dichloroethene	50.0	45.7		ug/L		91	67 - 122
1,2-Dichloropropane	50.0	54.0		ug/L		108	67 - 130
1,3-Dichloropropane	50.0	47.3		ug/L		95	62 - 136
2,2-Dichloropropane	50.0	49.4		ug/L		99	58 - 139
1,1-Dichloropropene	50.0	50.2		ug/L		100	70 - 121
Ethylbenzene	50.0	53.1		ug/L		106	70 - 123
Hexachlorobutadiene	50.0	56.4		ug/L		113	51 - 150
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 126
Methylene Chloride	50.0	46.5		ug/L		93	69 - 125
Methyl tert-butyl ether	50.0	40.6		ug/L		81	55 - 123
Naphthalene	50.0	40.5		ug/L		81	53 - 144
n-Butylbenzene	50.0	48.4		ug/L		97	68 - 125
N-Propylbenzene	50.0	48.4		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	49.7		ug/L		99	70 - 125
sec-Butylbenzene	50.0	50.6		ug/L		101	70 - 123
Styrene	50.0	49.5		ug/L		99	70 - 120
tert-Butylbenzene	50.0	50.2		ug/L		100	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.3		ug/L		93	62 - 140
Tetrachloroethene	50.0	56.6		ug/L		113	70 - 128
Toluene	50.0	49.5		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	43.5		ug/L		87	62 - 128
1,2,3-Trichlorobenzene	50.0	46.6		ug/L		93	51 - 145
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	57 - 137
1,1,1-Trichloroethane	50.0	47.1		ug/L		94	70 - 125
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	71 - 130
Trichloroethene	50.0	51.4		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	44.6		ug/L		89	55 - 128
1,2,3-Trichloropropane	50.0	43.2		ug/L		86	50 - 133
1,2,4-Trimethylbenzene	50.0	48.4		ug/L		97	70 - 123
1,3,5-Trimethylbenzene	50.0	49.4		ug/L		99	70 - 123
Vinyl chloride	50.0	54.3		ug/L		109	64 - 126
Xylenes, Total	100	97.1		ug/L		97	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Chronicle

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Client Sample ID: MW3 Dup
Lab Sample ID: 500-171208-1
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	509833	10/14/19 16:58	STW	TAL CHI

Client Sample ID: MW2
Lab Sample ID: 500-171208-2
Date Collected: 10/01/19 12:45
Matrix: Water
Date Received: 10/04/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	509833	10/14/19 17:23	STW	TAL CHI

Client Sample ID: MW3
Lab Sample ID: 500-171208-3
Date Collected: 10/01/19 13:15
Matrix: Water
Date Received: 10/04/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	509833	10/14/19 17:49	STW	TAL CHI

Client Sample ID: MW1
Lab Sample ID: 500-171208-4
Date Collected: 10/01/19 13:49
Matrix: Water
Date Received: 10/04/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	509833	10/14/19 18:14	STW	TAL CHI

Client Sample ID: Trip Blank
Lab Sample ID: 500-171208-5
Date Collected: 10/01/19 00:00
Matrix: Water
Date Received: 10/04/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	509833	10/14/19 18:39	STW	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 500-171208-1
Project/Site: Arctic Laundry & Cleaners 25216186.00

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Robert Langdon	Lab PM: Fredrick, Sandie	Carrier: 500-171208 COC	COC No: 500-75643-35177.1
Client Contact: Mr. Robert Langdon	Phone: 608 212 3995	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: SCS Engineers				Job #: 500-171208
Address: 2830 Dairy Dr	Due Date Requested:			Preservation Codes:
City: Madison	TAT Requested (days): standard			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: WI, 53718	PO #: 25216186.00			
Phone:	WO #:			Other:
Email: rlangdon@scsengineers.com	Project #: 50006561			
Project Name: Arctic Laundry & Cleaners 25216186.00	SSOW#:			
Site:				

Analysis Requested

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	Total Number of containers	Special Instructions/Note:
	Preservation Code:							A		
1	MW3 Dup	10/1/19	1315	G	Water	N	N	X	3	3 VOAs
2	MW2	10/1/19	1245	G	Water	N	N	X	3	
3	MW3	10/1/19	1315	G	Water	N	N	X	3	
4	MW1	10/1/19	1329	G	Water	N	N	X	3	
5	Trip Blank	10/1/19	—	—	Water	N	N	X	1	1 VOA
					Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert Langdon	10/3/19 1200	SCS		10/4/19 0845	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 136060 | Cooler Temperature(s) °C and Other Remarks: 1.0

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 500-171208-1

Login Number: 171208
List Number: 1
Creator: James, Jeff A

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

October 14, 2019

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Dear Rob Langdon:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10494447001	**5605 Bar**	Air	10/02/19 11:17	10/04/19 12:00
10494447002	**5605 Liquor Store**	Air	10/02/19 11:17	10/04/19 12:00
10494447003	**5605 Basement**	Air	10/02/19 11:19	10/04/19 12:00
10494447004	**5605 Outdoor**	Air	10/02/19 11:13	10/04/19 12:00
10494447005	**5605 2nd Floor**	Air	10/02/19 11:10	10/04/19 12:00
10494447006	**5621 1st Floor**	Air	10/02/19 11:40	10/04/19 12:00
10494447007	**5621 Basement**	Air	10/02/19 11:41	10/04/19 12:00
10494447008	**5625 Storage**	Air	10/02/19 11:42	10/04/19 12:00
10494447009	**5621 Outdoor**	Air	10/02/19 11:39	10/04/19 12:00
10494447010	**Unused Can 0199**	Air		10/04/19 12:00
10494447011	**Unused Can 3495**	Air		10/04/19 12:00

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SAMPLE ANALYTE COUNT

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10494447001	**5605 Bar**	TO-15	MJL	5	PASI-M
10494447002	**5605 Liquor Store**	TO-15	MJL	5	PASI-M
10494447003	**5605 Basement**	TO-15	MJL	5	PASI-M
10494447004	**5605 Outdoor**	TO-15	MJL	5	PASI-M
10494447005	**5605 2nd Floor**	TO-15	MJL	5	PASI-M
10494447006	**5621 1st Floor**	TO-15	MJL	5	PASI-M
10494447007	**5621 Basement**	TO-15	MJL	5	PASI-M
10494447008	**5625 Storage**	TO-15	MJL	5	PASI-M
10494447009	**5621 Outdoor**	TO-15	MJL	5	PASI-M

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(612)607-1700

ANALYTICAL RESULTS

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Sample: 5605 Bar **Lab ID: 10494447001** Collected: 10/02/19 11:17 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/11/19 22:59	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/11/19 22:59	156-60-5	
Tetrachloroethene	**0.87J**	ug/m3	1.0	0.47	1.49		10/11/19 22:59	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		10/11/19 22:59	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/11/19 22:59	75-01-4	

Sample: 5605 Liquor Store **Lab ID: 10494447002** Collected: 10/02/19 11:17 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/11/19 22:01	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/11/19 22:01	156-60-5	
Tetrachloroethene	**0.78J**	ug/m3	1.0	0.47	1.49		10/11/19 22:01	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		10/11/19 22:01	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/11/19 22:01	75-01-4	

Sample: 5605 Basement **Lab ID: 10494447003** Collected: 10/02/19 11:19 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/11/19 23:57	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/11/19 23:57	156-60-5	
Tetrachloroethene	**3.2**	ug/m3	1.0	0.47	1.49		10/11/19 23:57	127-18-4	
Trichloroethene	**0.86**	ug/m3	0.81	0.38	1.49		10/11/19 23:57	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/11/19 23:57	75-01-4	

Sample: 5605 Outdoor **Lab ID: 10494447004** Collected: 10/02/19 11:13 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.28**	ug/m3	1.0	0.28	1.3		10/12/19 00:55	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/m3	1.0	0.37	1.3		10/12/19 00:55	156-60-5	
Tetrachloroethene	**<0.41**	ug/m3	0.90	0.41	1.3		10/12/19 00:55	127-18-4	
Trichloroethene	**<0.33**	ug/m3	0.71	0.33	1.3		10/12/19 00:55	79-01-6	
Vinyl chloride	**<0.16**	ug/m3	0.34	0.16	1.3		10/12/19 00:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Sample: 5605 2nd Floor **Lab ID: 10494447005** Collected: 10/02/19 11:10 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/12/19 01:25	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/12/19 01:25	156-60-5	
Tetrachloroethene	**0.81J**	ug/m3	1.0	0.47	1.49		10/12/19 01:25	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		10/12/19 01:25	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/12/19 01:25	75-01-4	

Sample: 5621 1st Floor **Lab ID: 10494447006** Collected: 10/02/19 11:40 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/12/19 01:55	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/12/19 01:55	156-60-5	
Tetrachloroethene	**<0.47**	ug/m3	1.0	0.47	1.49		10/12/19 01:55	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		10/12/19 01:55	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/12/19 01:55	75-01-4	

Sample: 5621 Basement **Lab ID: 10494447007** Collected: 10/02/19 11:41 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		10/12/19 03:27	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		10/12/19 03:27	156-60-5	
Tetrachloroethene	**<0.47**	ug/m3	1.0	0.47	1.49		10/12/19 03:27	127-18-4	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		10/12/19 03:27	79-01-6	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		10/12/19 03:27	75-01-4	

Sample: 5625 Storage **Lab ID: 10494447008** Collected: 10/02/19 11:42 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.84**	ug/m3	3.1	0.84	3.85		10/12/19 02:28	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/m3	3.1	1.1	3.85		10/12/19 02:28	156-60-5	
Tetrachloroethene	**<1.2**	ug/m3	2.7	1.2	3.85		10/12/19 02:28	127-18-4	
Trichloroethene	**<0.97**	ug/m3	2.1	0.97	3.85		10/12/19 02:28	79-01-6	
Vinyl chloride	**<0.49**	ug/m3	1.0	0.49	3.85		10/12/19 02:28	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Sample: 5621 Outdoor **Lab ID: 10494447009** Collected: 10/02/19 11:39 Received: 10/04/19 12:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.31**	ug/m3	1.1	0.31	1.41		10/12/19 02:58	156-59-2	
trans-1,2-Dichloroethene	**<0.40**	ug/m3	1.1	0.40	1.41		10/12/19 02:58	156-60-5	
Tetrachloroethene	**<0.44**	ug/m3	0.97	0.44	1.41		10/12/19 02:58	127-18-4	
Trichloroethene	**<0.36**	ug/m3	0.77	0.36	1.41		10/12/19 02:58	79-01-6	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.41		10/12/19 02:58	75-01-4	

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QUALITY CONTROL DATA

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

QC Batch: 637837 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10494447001, 10494447002, 10494447003, 10494447004, 10494447005, 10494447006, 10494447007, 10494447008, 10494447009

METHOD BLANK: 3438137 Matrix: Air
Associated Lab Samples: 10494447001, 10494447002, 10494447003, 10494447004, 10494447005, 10494447006, 10494447007, 10494447008, 10494447009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/11/19 15:14	
Tetrachloroethene	ug/m3	<0.31	0.69	10/11/19 15:14	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/11/19 15:14	
Trichloroethene	ug/m3	<0.25	0.55	10/11/19 15:14	
Vinyl chloride	ug/m3	<0.13	0.26	10/11/19 15:14	

LABORATORY CONTROL SAMPLE: 3438138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	105	70-130	
Tetrachloroethene	ug/m3	68.9	69.3	101	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.9	106	70-130	
Trichloroethene	ug/m3	54.6	56.5	103	70-130	
Vinyl chloride	ug/m3	26	23.9	92	70-130	

SAMPLE DUPLICATE: 3438738

Parameter	Units	10494461003 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Tetrachloroethene	ug/m3	ND	1.2J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
Trichloroethene	ug/m3	ND	<0.49		25	
Vinyl chloride	ug/m3	ND	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Artic Laundry & Cleaners
Pace Project No.: 10494447

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10494447001	**5605 Bar**	TO-15	637837		
10494447002	**5605 Liquor Store**	TO-15	637837		
10494447003	**5605 Basement**	TO-15	637837		
10494447004	**5605 Outdoor**	TO-15	637837		
10494447005	**5605 2nd Floor**	TO-15	637837		
10494447006	**5621 1st Floor**	TO-15	637837		
10494447007	**5621 Basement**	TO-15	637837		
10494447008	**5625 Storage**	TO-15	637837		
10494447009	**5621 Outdoor**	TO-15	637837		

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AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant f

WO# : 10494447

10494447

45591

Page: 1 of 1

Section A Required Client Information:

Company: SCS
Address: 2830 Dairy Dr
Madison WI 53718
Email To: vlangdon@scsengineers.com
Phone: 6082167291 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Robert Langdon
Copy To:
Purchase Order No.:
Project Name: Arctic Laundry Cleaners
Project Number:

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 32630

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☒ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ mg/m³ PPBV ☒ PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	5605 Bar	LLO	0	10/1/19	1126	10/2	1117	-30	-4	01237	20374						X				001
2	5605 Liquor store	LLO	0	10/1/19	1130	10/2/19	1117	-30	-4	35672	45808						X				002
3	5605 Basement	LLO	0	10/1/19	1135	10/2/19	1119	-28.5	-5	01277	20800						X				003
4	5605 Outdoor	LLO	0	10/1/19	1143	10/2/19	1113	-29	-1	20752	13500						X				004
5	5605 2nd Floor	LLO	0	10/1/19	1115	10/2/19	1110	-29	-3.5	26931	98800						X				005
6	5621 1st Floor	LLO	0	10/1/19	1200	10/2/19	1140	-30	-4	16372	15000						X				006
7	5621 Basement	LLO	0	10/1/19	1201	10/2/19	1141	-30	-3	02411	20771						X				007
8	5625 Storage	LLO	0	10/1/19	1206	10/2/19	1142	-30	-21	35911	19388						X				008
9	5621 Outdoor	LLO	0	10/1/19	1203	10/2/19	1139	-30	-4	11897	21533						X				009
10																					
11																					
12																					

Comments :
* PCE, TCE, cis & trans 12DCE and vinyl chloride.
Returning two unused 30-min canisters # 199 and 3495

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert Langdon	10/3/19	1200	Matt Jay / Pace	10-4-19	12:00

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Robert Langdon
SIGNATURE of SAMPLER: Robert Langdon
DATE Signed (MM / DD / YY): 10/03/19

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AmB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 31Jan2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.18	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt **Client Name:** SCS **Project #:** **WO#: 10494447**

PM: KNH **Due Date: 10/11/19**

CLIENT: SCS Engineer

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☐

Tracking Number: 1083 0281 0744, 1083 0281 0810 MJ 10-7-19 1083 0281 0800, 1083 0281 0773

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☐No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☒No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermometer Used:** ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** 10-7-19 MJ

Type of ice Received ☐Blue ☐Wet ☒None

		Comments:
Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used?	☒Yes ☐No	9.
-Pace Containers Used?	☒Yes ☐No	
Containers Intact?	☒Yes ☐No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	☒Yes ☐No	13.

Samples Received: Pressure Gauge # ☐10AIR34 ☒10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
5605 Bar	123	2037	-3	5	5621 Outdoor	1189	2153	-1.5	5
5605 1st floor Store	3567	2158	-3	5	Unused 199	199	2835		
5605 Basement	127	2088	-3	5	Unused 3495	3495	1731		
5605 Outdoor	2045	2135	+0.5	5					
5605 2nd Floor	2693	1988	-3	5					
5621 1st Floor	1637	2150	-3	5					
5621 Basement	241	2071	-3	5					
5625 Storage	3591	1938	-19.5	5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 10/8/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447001 ProjSampleNum: 10494447001 Date Collected: 10/02/19 11:17
Client Sample ID: 5605 Bar Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/11/19 22:59 MJL	156-59-2	
Tetrachloroethene	0.13J	ppbv	0.15	0.068	10/11/19 22:59 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/11/19 22:59 MJL	156-60-5	
Trichloroethene	<0.07	ppbv	0.15	0.07	10/11/19 22:59 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/11/19 22:59 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447002 ProjSampleNum: 10494447002 Date Collected: 10/02/19 11:17
Client Sample ID: 5605 Liquor Store Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/11/19 22:01 MJL	156-59-2	
Tetrachloroethene	0.11J	ppbv	0.15	0.068	10/11/19 22:01 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/11/19 22:01 MJL	156-60-5	
Trichloroethene	<0.07	ppbv	0.15	0.07	10/11/19 22:01 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/11/19 22:01 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447003 ProjSampleNum: 10494447003 Date Collected: 10/02/19 11:19
Client Sample ID: 5605 Basement Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/11/19 23:57 MJL	156-59-2	
Tetrachloroethene	0.46	ppbv	0.15	0.068	10/11/19 23:57 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/11/19 23:57 MJL	156-60-5	
Trichloroethene	0.16	ppbv	0.15	0.07	10/11/19 23:57 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/11/19 23:57 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447004 ProjSampleNum: 10494447004 Date Collected: 10/02/19 11:13
Client Sample ID: 5605 Outdoor Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.069	ppbv	0.25	0.069	10/12/19 0:55 MJL	156-59-2	
Tetrachloroethene	<0.059	ppbv	0.13	0.059	10/12/19 0:55 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.092	ppbv	0.25	0.092	10/12/19 0:55 MJL	156-60-5	
Trichloroethene	<0.06	ppbv	0.13	0.06	10/12/19 0:55 MJL	79-01-6	
Vinyl chloride	<0.062	ppbv	0.13	0.062	10/12/19 0:55 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447005 ProjSampleNum: 10494447005 Date Collected: 10/02/19 11:10
Client Sample ID: 5605 2nd Floor Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/12/19 1:25 MJL	156-59-2	
Tetrachloroethene	0.12J	ppbv	0.15	0.068	10/12/19 1:25 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/12/19 1:25 MJL	156-60-5	
Trichloroethene	<0.07	ppbv	0.15	0.07	10/12/19 1:25 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/12/19 1:25 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447006 ProjSampleNum: 10494447006 Date Collected: 10/02/19 11:40
Client Sample ID: 5621 1st Floor Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/12/19 1:55 MJL	156-59-2	
Tetrachloroethene	<0.068	ppbv	0.15	0.068	10/12/19 1:55 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/12/19 1:55 MJL	156-60-5	
Trichloroethene	<0.07	ppbv	0.15	0.07	10/12/19 1:55 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/12/19 1:55 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447007 ProjSampleNum: 10494447007 Date Collected: 10/02/19 11:41
Client Sample ID: 5621 Basement Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.082	ppbv	0.3	0.082	10/12/19 3:27 MJL	156-59-2	
Tetrachloroethene	<0.068	ppbv	0.15	0.068	10/12/19 3:27 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.1	ppbv	0.3	0.1	10/12/19 3:27 MJL	156-60-5	
Trichloroethene	<0.07	ppbv	0.15	0.07	10/12/19 3:27 MJL	79-01-6	
Vinyl chloride	<0.073	ppbv	0.15	0.073	10/12/19 3:27 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447008 ProjSampleNum: 10494447008 Date Collected: 10/02/19 11:42
Client Sample ID: 5625 Storage Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.21	ppbv	0.77	0.21	10/12/19 2:28 MJL	156-59-2	
Tetrachloroethene	<0.17	ppbv	0.39	0.17	10/12/19 2:28 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.27	ppbv	0.77	0.27	10/12/19 2:28 MJL	156-60-5	
Trichloroethene	<0.18	ppbv	0.38	0.18	10/12/19 2:28 MJL	79-01-6	
Vinyl chloride	<0.19	ppbv	0.38	0.19	10/12/19 2:28 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

Lab Sample No: 10494447009 ProjSampleNum: 10494447009 Date Collected: 10/02/19 11:39
Client Sample ID: 5621 Outdoor Matrix: Air Date Received: 10/04/19 12:00

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.077	ppbv	0.27	0.077	10/12/19 2:58 MJL	156-59-2	
Tetrachloroethene	<0.064	ppbv	0.14	0.064	10/12/19 2:58 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.099	ppbv	0.27	0.099	10/12/19 2:58 MJL	156-60-5	
Trichloroethene	<0.066	ppbv	0.14	0.066	10/12/19 2:58 MJL	79-01-6	
Vinyl chloride	<0.069	ppbv	0.14	0.069	10/12/19 2:58 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494447
Project Name: Artic Laundry & Cleaners

PARAMETER FOOTNOTES

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

October 14, 2019

Rob Langdon
SCS Engineers
2830 Dairy Dr.
Madison, WI 53718

RE: Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Dear Rob Langdon:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10494511001	**SS-6**	Air	10/02/19 14:35	10/05/19 09:10
10494511002	**SS-7**	Air	10/02/19 12:35	10/05/19 09:10
10494511003	**SS-8**	Air	10/02/19 13:34	10/05/19 09:10
10494511004	**SS-9**	Air	10/02/19 12:45	10/05/19 09:10

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SAMPLE ANALYTE COUNT

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10494511001	**SS-6**	TO-15	MJL	5	PASI-M
10494511002	**SS-7**	TO-15	MJL	5	PASI-M
10494511003	**SS-8**	TO-15	MJL	5	PASI-M
10494511004	**SS-9**	TO-15	MJL	5	PASI-M

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Sample: SS-6 **Lab ID: 10494511001** Collected: 10/02/19 14:35 Received: 10/05/19 09:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.8	0.49	2.24		10/12/19 21:51	156-59-2	
trans-1,2-Dichloroethene	**<0.64**	ug/m3	1.8	0.64	2.24		10/12/19 21:51	156-60-5	
Tetrachloroethene	**6.4**	ug/m3	1.5	0.70	2.24		10/12/19 21:51	127-18-4	
Trichloroethene	**<0.57**	ug/m3	1.2	0.57	2.24		10/12/19 21:51	79-01-6	
Vinyl chloride	**<0.28**	ug/m3	0.58	0.28	2.24		10/12/19 21:51	75-01-4	

Sample: SS-7 **Lab ID: 10494511002** Collected: 10/02/19 12:35 Received: 10/05/19 09:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		10/12/19 22:21	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		10/12/19 22:21	156-60-5	
Tetrachloroethene	**29.9**	ug/m3	1.2	0.55	1.75		10/12/19 22:21	127-18-4	
Trichloroethene	**<0.44**	ug/m3	0.96	0.44	1.75		10/12/19 22:21	79-01-6	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		10/12/19 22:21	75-01-4	

Sample: SS-8 **Lab ID: 10494511003** Collected: 10/02/19 13:34 Received: 10/05/19 09:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		10/12/19 22:50	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		10/12/19 22:50	156-60-5	
Tetrachloroethene	**76.1**	ug/m3	1.1	0.51	1.61		10/12/19 22:50	127-18-4	
Trichloroethene	**4.4**	ug/m3	0.88	0.41	1.61		10/12/19 22:50	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		10/12/19 22:50	75-01-4	

Sample: SS-9 **Lab ID: 10494511004** Collected: 10/02/19 12:45 Received: 10/05/19 09:10 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		10/12/19 23:20	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		10/12/19 23:20	156-60-5	
Tetrachloroethene	**25.1**	ug/m3	1.1	0.51	1.61		10/12/19 23:20	127-18-4	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		10/12/19 23:20	79-01-6	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		10/12/19 23:20	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

QC Batch: 637913 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10494511001, 10494511002, 10494511003, 10494511004

METHOD BLANK: 3438892 Matrix: Air
Associated Lab Samples: 10494511001, 10494511002, 10494511003, 10494511004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/12/19 10:45	
Tetrachloroethene	ug/m3	<0.31	0.69	10/12/19 10:45	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/12/19 10:45	
Trichloroethene	ug/m3	<0.25	0.55	10/12/19 10:45	
Vinyl chloride	ug/m3	<0.13	0.26	10/12/19 10:45	

LABORATORY CONTROL SAMPLE: 3438893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	40.3	44.8	111	70-130	
Tetrachloroethene	ug/m3	68.9	70.4	102	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	30.3	75	70-130	
Trichloroethene	ug/m3	54.6	59.8	109	70-130	
Vinyl chloride	ug/m3	26	29.1	112	70-130	

SAMPLE DUPLICATE: 3439043

Parameter	Units	10493456010 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
Tetrachloroethene	ug/m3	18.7	19.0	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
Trichloroethene	ug/m3	ND	<0.36		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

SAMPLE DUPLICATE: 3439044

Parameter	Units	10493456011 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25216186 Arctic Laundry & Clea
Pace Project No.: 10494511

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10494511001	**SS-6**	TO-15	637913		
10494511002	**SS-7**	TO-15	637913		
10494511003	**SS-8**	TO-15	637913		
10494511004	**SS-9**	TO-15	637913		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All rele

WO# : 10494511

10494511

45592

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SS Engineers	Report To: Robert Langdon	Attention: Same
Address: 2830 Dairy Dr Madison, WI 53718	Copy To:	Company Name:
Email To: rlangdon@ssengineers.com	Purchase Order No.:	Address:
Phone: 608 216 7429 Fax:	Project Name: Arctic Laundry & Cleaners	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 252 16186	Pace Project Manager/Sales Rep.
		Pace Profile #: 32630

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☒ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ☒ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other:___

'Section D Required Client Information

AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-6	6LC	17	10/2/19	1355	10/2/19	1435	-30	-13	0645	1224							X			001
2	SS-7	6LC	6	10/2/19	1205	10/2/19	1235	-27.5	-6	3537	1246							X			002
3	SS-8	6LC	1.1	10/2/19	1245	10/2/19	1245	-31	-5	3654	0912							X			Void
4	SS-8	6LC	1.6	10/2/19	1300	10/2/19	1334	-30	-5	3654	0912							X			003
5	SS-9	6LC	1.1	10/2/19	1245	10/2/19	1245	-3	-5	0679	1119							X			004
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

* PCE, TCE, CO & trans 12DCE, and vinyl chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Robert Langdon	10/4/19	1200		10/5/19	0900

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Robert Langdon

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 10/03/19

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 31Jan2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.18	Issuing Authority:

Air Sample Condition Upon Receipt **Client Name:** SCS **Project #:** **WO#: 10494511**

PM: KNH **Due Date: 10/14/19**

CLIENT: SCS Engineer

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: 1083 0281 0800

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RG 10/7/19

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used?	☒ Yes ☐ No	9.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	☒ Yes ☐ No	13.

Samples Received: Pressure Gauge # ☐ 10AIR34 ☐ 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS-6	0645	1224	-12	+5					
" 7	3537	1246	-7	"					
" 8	3054	0912	-5	"					
" 9	0679	1119	-5	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 10/8/2019

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494511
Project Name: 25216186 Artic Laundry & Clean

Lab Sample No: 10494511001 ProjSampleNum: 10494511001 Date Collected: 10/02/19 14:35
Client Sample ID: SS-6 Matrix: Air Date Received: 10/05/19 9:10

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.12	ppbv	0.45	0.12	10/12/19 21:51 MJL	156-59-2	
Tetrachloroethene	0.93	ppbv	0.22	0.1	10/12/19 21:51 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.16	ppbv	0.45	0.16	10/12/19 21:51 MJL	156-60-5	
Trichloroethene	<0.1	ppbv	0.22	0.1	10/12/19 21:51 MJL	79-01-6	
Vinyl chloride	<0.11	ppbv	0.22	0.11	10/12/19 21:51 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494511
Project Name: 25216186 Artic Laundry & Clean

Lab Sample No: 10494511002 ProjSampleNum: 10494511002 Date Collected: 10/02/19 12:35
Client Sample ID: SS-7 Matrix: Air Date Received: 10/05/19 9:10

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.094	ppbv	0.35	0.094	10/12/19 22:21 MJL	156-59-2	
Tetrachloroethene	4.3	ppbv	0.17	0.08	10/12/19 22:21 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.12	ppbv	0.35	0.12	10/12/19 22:21 MJL	156-60-5	
Trichloroethene	<0.081	ppbv	0.18	0.081	10/12/19 22:21 MJL	79-01-6	
Vinyl chloride	<0.085	ppbv	0.18	0.085	10/12/19 22:21 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494511
Project Name: 25216186 Artic Laundry & Clean

Lab Sample No: 10494511003 ProjSampleNum: 10494511003 Date Collected: 10/02/19 13:34
Client Sample ID: SS-8 Matrix: Air Date Received: 10/05/19 9:10

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.087	ppbv	0.32	0.087	10/12/19 22:50 MJL	156-59-2	
Tetrachloroethene	11	ppbv	0.16	0.074	10/12/19 22:50 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.11	ppbv	0.32	0.11	10/12/19 22:50 MJL	156-60-5	
Trichloroethene	0.81	ppbv	0.16	0.075	10/12/19 22:50 MJL	79-01-6	
Vinyl chloride	<0.077	ppbv	0.16	0.077	10/12/19 22:50 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494511
Project Name: 25216186 Artic Laundry & Clean

Lab Sample No: 10494511004 ProjSampleNum: 10494511004 Date Collected: 10/02/19 12:45
Client Sample ID: SS-9 Matrix: Air Date Received: 10/05/19 9:10

Parameters	Results	Units	Report Limit	MDL	Analyzed	CAS No.	Ftnote
Air							
TO-15							
cis-1,2-Dichloroethene	<0.087	ppbv	0.32	0.087	10/12/19 23:20 MJL	156-59-2	
Tetrachloroethene	3.6	ppbv	0.16	0.074	10/12/19 23:20 MJL	127-18-4	
trans-1,2-Dichloroethene	<0.11	ppbv	0.32	0.11	10/12/19 23:20 MJL	156-60-5	
Trichloroethene	<0.075	ppbv	0.16	0.075	10/12/19 23:20 MJL	79-01-6	
Vinyl chloride	<0.077	ppbv	0.16	0.077	10/12/19 23:20 MJL	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SCS Engineers
Phone: 843.746.8525

Lab Project Number: 10494511
Project Name: 25216186 Artic Laundry & Clean

PARAMETER FOOTNOTES