



January 4, 2021

Ms. Jennifer Borski
Wisconsin Department of Natural Resources
625 East County Road Y, STE 700
Oshkosh, Wisconsin 54901-9731

**Subject: Vapor Intrusion Investigation Report
1015 and 1019 S. Commercial St., Neenah, Wisconsin
BRRTS# 02-71-110797**

Dear Ms. Borski:

EnviroForensics, LLC (EnviroForensics) is pleased to provide this *Vapor Intrusion Investigation Report* for the Commercial Square apartments located at 1015 and 1019 South Commercial Street in Neenah, Wisconsin. The investigation was performed to evaluate potential vapor intrusion (VI) impacts caused by dry cleaning solvent release(s) from the former Donaldson's Cleaners located at 110 W. Cecil Street in Neenah, Wisconsin. The location of the former Donaldson's Cleaners with respect to surrounding properties is shown in **Figure 1**.

EnviroForensics completed VI investigation activities as described in the proposal dated August 21, 2020. The investigation procedures and a summary of the analytical results are presented below.

INVESTIGATION ACTIVITIES

Vapor intrusion investigation activities at the Commercial Square apartments were conducted November 9-11, 2020, and November 30-December 1, 2020. Activities consisted of indoor/outdoor air sampling followed by sub-slab vapor sampling port installation and vapor sampling. The apartment complex consists of two (2) separate buildings, each containing 12 units with six (6) on the first floor and six (6) on the second floor. VI sampling was performed in the following first floor apartments which are shown located on attached **Figures 2 and 3**:

- 1015 S. Commercial Street - Units 6 and 7
- 1019 S. Commercial Street - Units 7 and 9

One (1) indoor air sample and one (1) sub-slab vapor sample were collected from each apartment. Outdoor air samples were also collected to evaluate background conditions. All samples collected were submitted to ALS Environmental laboratory under appropriate chain-of-custody procedures, for analysis of the following compounds by US EPA Method TO-15: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

Document: 200011-0093

Indoor/Outdoor Air Sampling

Air samples were collected from the breathing zone (3-5 feet above the floor) using 6-liter vacuum canisters, regulated to withdraw a time-integrated sample over a 24-hour period. The air samples are identified according to the following format: *Project Number-Address-Unit#-IA* or *OA* for indoor air and outdoor air, respectively. For example, sample 200011-1019-7-IA is the indoor air sample collected from 1019 S. Commercial Street, Unit 7.

Approximate indoor air sampling locations are shown on **Figures 2** and **3**. Outdoor air sample canisters were secured to a tree located between the two (2) apartment buildings. There were no features/structures upwind of both buildings on the property on which to place and secure the outdoor air canisters. Data from the nearest fixed weather station, including temperature, wind speed, wind direction, humidity, barometric pressure, and rainfall were accessed and recorded on the field sampling form presented in **Attachment 1**.

Sub-Slab Vapor Sampling

Quality assurance and quality control (QA/QC) testing and vapor sample collection were conducted in accordance with EnviroForensics procedures as described below.

Sub-Slab Vapor Port Installation

Permanent, recessed, Vapor Pin[®] sampling ports were installed in closets within each unit. The approximate vapor sampling port locations are depicted on **Figures 2** and **3**. A 1 ½-inch diameter hole was drilled approximately 1 ¾-inch deep into the concrete slab using an electric hammer-drill, and a guide was then used to drill a 5/8-inch diameter hole through the concrete slab. The sampling port, constructed with a silicon sleeve to provide a mechanical seal between the sample port and the slab, was installed in the 5/8-inch diameter hole using a dead blow hammer. The sampling ports were capped following installation, and stainless steel flush-mount covers were added to permit repeated sampling.

Quality Control Methods

To ensure sub-slab vapor samples collected from the ports were representative of actual vapor conditions, leak testing of the sampling port seal and pressure testing of the sampling train was performed at each sample port prior to sampling. EnviroForensics performed water dam leak testing, which consisted of pouring water directly into the 1 ½-inch flush mount depression to immerse the seal between the vapor pin and the concrete. The water level was observed for at least one (1) minute to determine if a leak was present. The water level did not decrease at any of the sub-slab vapor port locations, indicating there were no leaks around the seals.

Pressure testing was performed to verify the integrity of the sampling train (i.e., all tubing and fittings). The fittings and the sample canister were connected with its valve closed, and a

negative pressure of approximately 15 inches of mercury was induced on the sampling train using a hand pump and held for approximately 60 seconds while being visually monitored. No pressure drops were noted during the testing, indicating no leaks were present in the sampling trains prior to sampling activities. QA/QC results were recorded on sampling forms provided as **Attachment 1**.

Vapor Sample Collection

Sub-slab vapor samples were collected through disposable polyethylene tubing connected to the sampling port. A graduated syringe was used to purge ambient air from the tubing prior to initiating sample collection. Samples were then collected using 1-liter vacuum canisters fitted with laboratory-supplied regulators that allowed a flow rate of approximately 200 milliliters per minute. The vapor samples are identified according to the following format: *Project Number-Address-Unit#-SSV*. For example, sample 200011-1019-7-SSV is the sub-slab vapor sample collected from 1019 S. Commercial Street, Unit 7.

Initial and final pressure readings were collected from each canister and recorded on the field sampling form provided in **Attachment 1**.

INVESTIGATION RESULTS

The analytical results of the air and vapor samples are summarized and compared to WDNR standards on **Table 1**. The laboratory analytical reports are provided as **Attachment 2**. The contaminants of concern were not detected in the outdoor air sample or any of the indoor air samples collected from the four (4) units.

Each of the sub-slab vapor samples contained PCE at concentrations ranging from 16.7 to 129 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which are below the vapor risk screening level (VRSL) of 1,400 $\mu\text{g}/\text{m}^3$. TCE and cis-1,2-DCE were also detected in one or more sub-slab vapor samples at concentrations just above laboratory method detection limits.

We appreciate the opportunity to submit this report. If you have any questions, please feel free to contact the undersigned at 262-290-4001.

Sincerely,
EnviroForensics, LLC

A handwritten signature in blue ink, appearing to read "Brian Kappen".

Brian Kappen, PG
Project Manager



Attachments:

Table 1 – Commercial Square Apartments Vapor Intrusion Sampling Results

Figure 1 – Site and Surrounding Area Layout

Figure 2 – 1015 S. Commercial Street Vapor Intrusion Sampling Locations

Figure 3 - 1019 S. Commercial Street Vapor Intrusion Sampling Locations

Attachment 1 – Field Sampling Forms

Attachment 2 – Laboratory Analytical Reports

CERTIFICATION

I, Brian Kappen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

A handwritten signature in blue ink, appearing to read "Brian Kappen".

Project Manager

1/4/2021

Signature and title

Date

TABLE

Table 1
Commercial Square Apartments Vapor Intrusion Sampling Results
Former Donaldson's Cleaners
Neenah, Wisconsin

South Commercial Street Address	Apartment Number	Sample ID	Sample Type	Sample Date	Tetrachloroethene	Trichloroethene	cis 1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
Residential Indoor Air Vapor Action Level					42	2.1	NE	NE	1.7
Residential Sub-Slab Vapor Risk Scening Level					1,400	70	NE	NE	57
1015/1019	-	200011-1015/1019-OA	OA	11/10/2020	<3.39	<1.07	<1.98	<1.98	<1.28
		200011-1015-OA	OA	12/1/2020	<3.39	<1.07	<1.98	<1.98	<1.28
1015	6	200011-1015-6-IA	IA	11/11/2020	<3.39	<1.07	<1.98	<1.98	<1.28
		200011-1015-6-SSV	SSV	11/11/2020	16.7	<1.07	<1.98	<1.98	<1.28
1015	7	200011-1015-7-IA	IA	12/1/2020	<3.39	<1.07	<1.98	<1.98	<1.28
		200011-1015-7-SSV	SSV	12/1/2020	129	<10.7	<19.8	<19.8	<12.8
1019	7	200011-1019-7-IA	IA	11/10/2020	<3.39	<1.07	<1.98	<1.98	<1.28
		200011-1019-7-SSV	SSV	11/10/2020	54.5	1.77	2.18	<1.98	<1.28
1019	9	200011-1019-9-IA	IA	11/10/2020	<3.39	<1.07	<1.98	<1.98	<1.28
		200011-1019-9-SSV	SSV	11/10/2020	29.0	1.13	<1.98	<1.98	<1.28

Notes:

Concentrations reported in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Bolded values are above laboratory method detection limits

IA = Indoor Air

NE = Not Established

OA = Outdoor Air

SSV = Sub-Slab Vapor

FIGURES

Legend



NOT TO SCALE

SITE AND SURROUNDING AREA LAYOUT

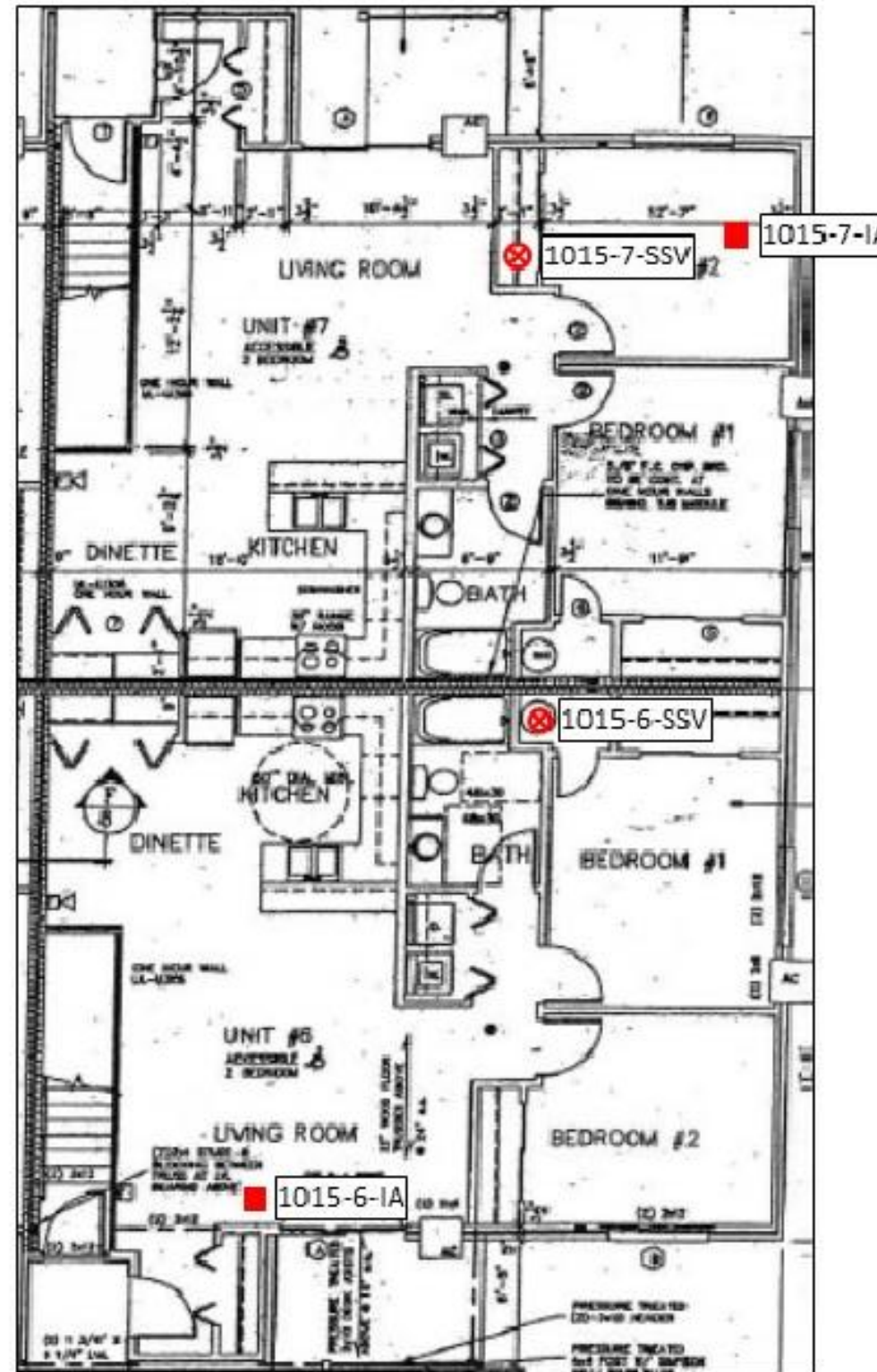
Former Donaldson's Cleaners

Date:	12/29/20
Designed:	BK
Drawn:	BK
Checked:	BK
DWG file:	200011-0096

 825 North Capital Avenue • Indianapolis, IN 46204 EnviroForensics.com	Figure
	1
	Project
	200011

LEGEND

- ⊗ Sub-Slab Vapor Sample
- Indoor Air Sample



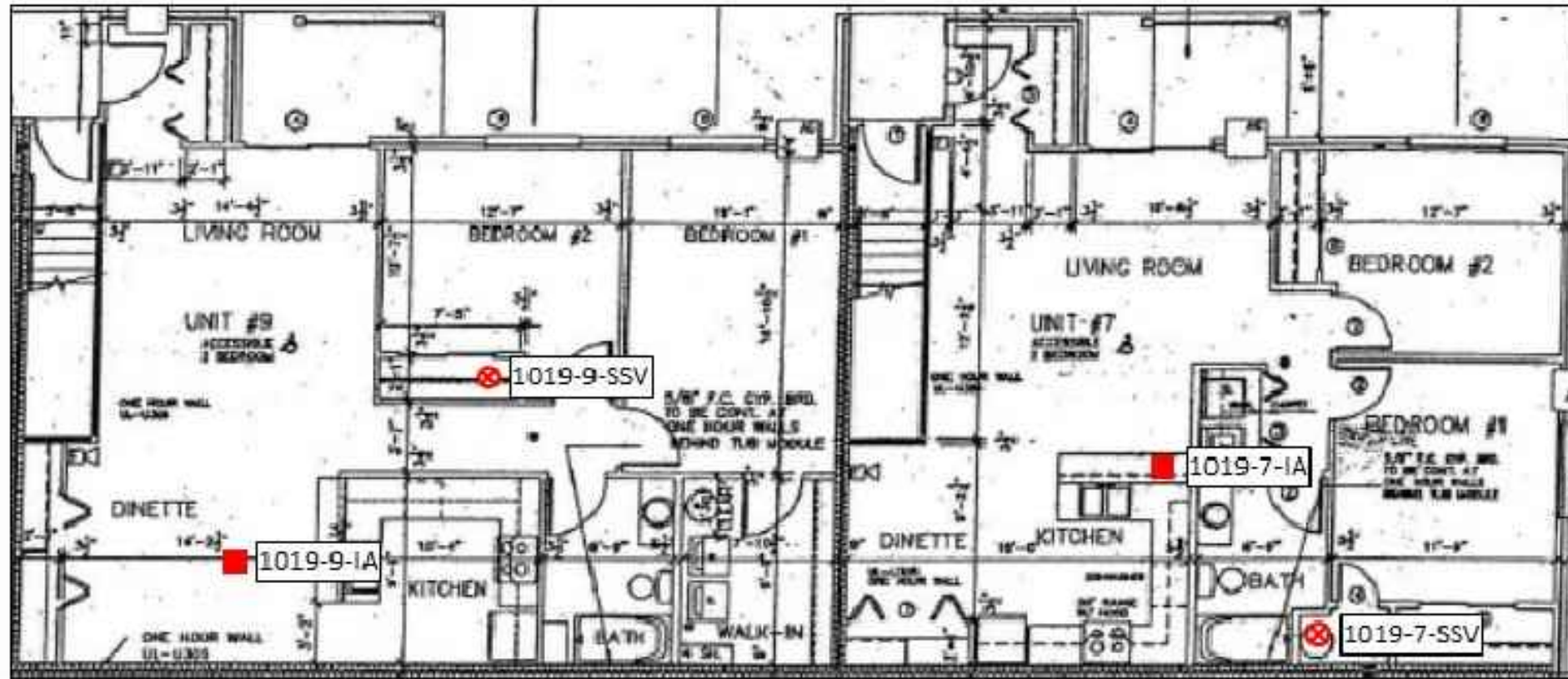
NOT TO SCALE

1015 SOUTH COMMERCIAL STREET VAPOR INTRUSION SAMPLING LOCATIONS
Former Donaldson's Cleaners

Date:	12/29/20
Designed:	BK
Drawn:	BK
Checked:	BK
DWG file:	200011-0098

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Figure	2
Project	200011



LEGEND

- ⊗ Sub-Slab Vapor Sample
- Indoor Air Sample



NOT TO SCALE

1019 SOUTH COMMERCIAL STREET VAPOR INTRUSION SAMPLING LOCATIONS

Former Donaldson's Cleaners

Date:	12/29/20
Designed:	BK
Drawn:	BK
Checked:	BK
DWG file:	200011-0099



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Figure	3
Project	200011



ATTACHMENT 1

Field Sampling Forms

Project Name: Former Donaldson's Cleaners
 Project Number: 200011
 Project Address: 110 W Cecil St, Weenah, WI
 Client/Contact: WDNR

Property Address: 1015/1019 S Commercial St.
Apartments

Sampler(s): B Kappen / R Brown

Sample ID	Canister ID	Flow Controller ID	Date mm/dd/yy	Time Start hh:mm	Time End hh:mm	Vacuum Reading		Sub-Slab Pressure in H ₂ O	Negative Pressure Test		Water Dam Test	
						Initial in. Hg	Final in. Hg		Induced -15 in Hg on sample train and pressure held? (yes/no)		Water Dam Test passed? (air bubbles not observed or water level did not drop) (yes/no)	
<u>200011-1019-7-5SV</u>	<u>109927</u>	<u>119229</u>	<u>11-10-20</u>	<u>12:35</u>	<u>12:42</u>	<u>-30</u>	<u>-3</u>	<u>0.00</u>	<input checked="" type="radio"/>	<u>no</u>	<input checked="" type="radio"/>	<u>no</u>
<u>200011-1019-9-5SV</u>	<u>119717</u>	<u>109781</u>	<u>11-10-20</u>	<u>16:06</u>	<u>16:12</u>	<u>-29</u>	<u>-3</u>	<u>0.00</u>	<input checked="" type="radio"/>	<u>no</u>	<input checked="" type="radio"/>	<u>no</u>
<u>200011-1015-6-5SV</u>	<u>119239</u>	<u>109840</u>	<u>11-11-20</u>	<u>10:33</u>	<u>10:39</u>	<u>-30</u>	<u>-4</u>	<u>0.00</u>	<input checked="" type="radio"/>	<u>no</u>	<input checked="" type="radio"/>	<u>no</u>
									<input type="radio"/>	<u>no</u>	<input type="radio"/>	<u>no</u>
									<input type="radio"/>	<u>no</u>	<input type="radio"/>	<u>no</u>
									<input type="radio"/>	<u>no</u>	<input type="radio"/>	<u>no</u>

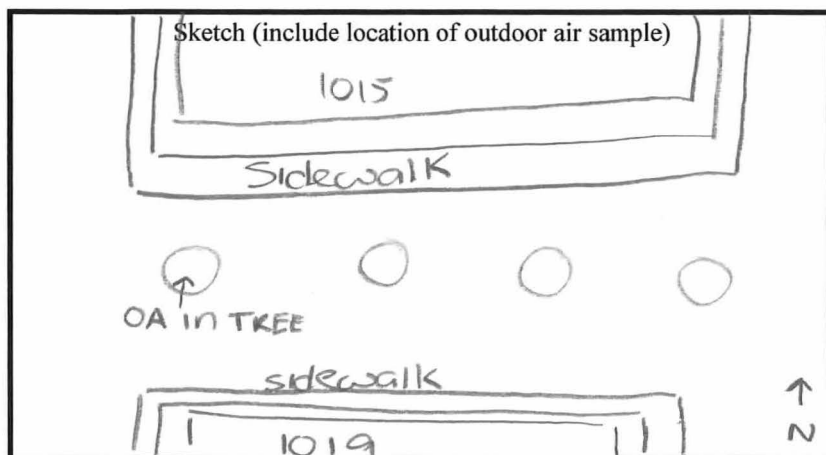
Sketch

Wind Direction	Wind Speed mph	Temperature ° F	Relative Humidity %	Barometric Pressure in. of Hg

Notes:

Project Name: Former Donaldson's Cleaners Property Address: 1015/1019 S. Commercial St
 Project Number: 200011 Apartments
 Project Address: 110 W Cecil St, Neenah, WI OA Sample Location: _____
 Client/Contact: WDNR / J Borski Sampler(s): B Kappen / R Brown

Sample ID	Canister ID	Flow Controller ID	Date Start	Time Start	Date End	Time End	Vacuum Reading	
			mm/dd/yy	hh:mm	mm/dd/yy	hh:mm	Initial in. Hg	Final in. Hg
<u>200011-1019-7-IA</u>	<u>119827</u>	<u>119054</u>	<u>11-9-20</u>	<u>12:02</u>	<u>11-10-20</u>	<u>11:58</u>	<u>-30</u>	<u>-9</u>
<u>200011-1019-9-IA</u>	<u>109969</u>	<u>119615</u>	<u>11-9-20</u>	<u>15:30</u>	<u>11-10-20</u>	<u>15:32</u>	<u>-26</u>	<u>-4</u>
<u>200011-1015/1019-OA</u>	<u>109158</u>	<u>109479</u>	<u>11-9-20</u>	<u>15:45</u>	<u>11-10-20</u>	<u>16:20</u>	<u>-30</u>	<u>-8</u>
<u>200011-1015-6-IA</u>	<u>109195</u>	<u>109191</u>	<u>11-10-20</u>	<u>10:00</u>	<u>11-11-20</u>	<u>10:00</u>	<u>-30</u>	<u>-7</u>



	Wind Direction	Wind Speed mph	Temperature ° F	Relative Humidity %	Barometric Pressure in. of Hg
Start	_____	_____	_____	_____	_____
End	_____	_____	_____	_____	_____
Notes:	_____				
Duplicate ID:	_____				

*All indoor air samples collected from one property will be recorded on the same Indoor Air Sampling Form.
 *Outdoor air samples will be recorded on separate Indoor Air Sampling Forms due to changing weather conditions.



INDOOR AIR BUILDING SURVEY FORM

Date 11-10-20
Site # 1019 #6
Site Name Former Donaldson's Cleaners
Address 110 W Cecil St., Neenah, WI

Occupant Information

Owner Name _____
Occupant Name Ray and Bev Wettstein
Address 1015 S Commercial St., #6
Neenah, WI
Telephone No (920) 558-4027 Home/Work/Mobile
() Home/Work/Mobile

Number and Age of Occupants 2, 80

Does anyone smoke inside the building? No

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other? _____
If residential, what type (circle) Single family/Condo/Multi-family/Other? _____
If the property is commercial, indicate the business? _____
How many floors does the building have? 2
Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other? None
Is the basement used as a living/work space area? No
What type of foundation does the building have (circle) Field stone/Poured concrete/Concrete block Other? _____
Is there an attached garage? No Is there a fuel tank? No
Is there a wood stove? No Is there a fireplace? No

Describe the heating system: (circle) Forced air furnace/Boiler/Window air conditioner/Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: _____

Are air ducts located within the crawl space of the property? _____

Are there additional vents within the property? (Non-powered vent/bathroom vent/etc.) _____

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	no			
Cracks in foundation floor or walls	no			
Sump	no			
Floor drain	yes			
Other				
Other				

Sampling Information

Sample Date 1-10-20

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) Brian Kapper

Telephone No () _____

Laboratory _____

Telephone No () _____



Table 2: Pre-Sampling Background Screening and Inspection Information

List products or items which may be considered potential sources of VOCs such as paint cans, gasoline cans, gasoline powered equipment, cleaning solvents, furniture polish, moth balls, etc.

Date and time of pre-sampling inspection _____

Sampling Inspection Product Inventory

<u>Potential Source/ Trade Name</u>	<u>Location (Floor/Room)</u>	<u>Active/Main Ingredient</u>	<u>Picture</u>	<u>Removed (Y/N)</u>

Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
200011-1015-6-IA	1st	living	109195	-30	-7
200011-1015-6-SSV	1st	closet	119239	-30	-4

*Indicate pressure in units of inches of mercury.

Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? NO

How long was the ventilation process? _____

Were vapor control methods in effect while the samples were being collected?

Windows open? Yes / No Ventilation fans? Yes / No Vapor barriers? Yes / No

Vapor phase carbon treatment system? Yes / No SSDS? Yes / No Other site control measures _____

Weather Conditions during Sampling

Outside temperature (°F) High: 66 Low: 45 Inside temperature (°F) 80

Prevailing wind speed and direction 12 mph / NE

Describe the general weather conditions (e.g. sunny, cloudy, rain) Rain (11-10) / mostly sunny (11-11)

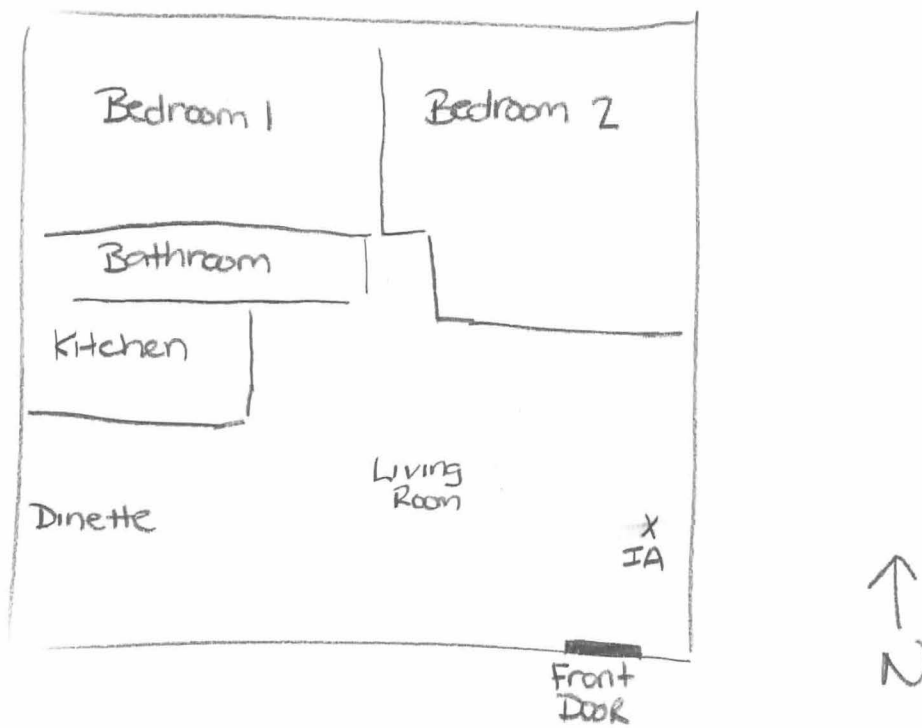
Significant precipitation (1 inches or more) within 72 hours of the sampling event? During event on 11-10
no rain 11-11

General Comments and Sketch Area

Is there any information you feel is important related to this site and the samples collected which would facilitate an accurate interpretation of the indoor air quality? Sketch floor plan, sample locations, location of background sources.

Comments: _____

Sketch:





INDOOR AIR BUILDING SURVEY FORM

Date 11/9/2020
Site # 200011
Site Name Former Donaldson's Cleaners
Address 110 W. Cecil St., Neenah, WI

Occupant Information

Owner Name _____
Occupant Name Jim Kohl
Address 1019 S. Commercial St #7

Telephone No (920) 312-8778 Home/Work/Mobile
() Home/Work/Mobile

Number and Age of Occupants 1, 75

Does anyone smoke inside the building? No

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other? _____

If residential, what type (circle) Single family/Condo/Multi-family/Other? _____

If the property is commercial, indicate the business? NA

How many floors does the building have? 2

Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other? _____

Is the basement used as a living/work space area? NA

What type of foundation does the building have (circle) Field stone/Poured concrete/Concrete block Other? _____

Is there an attached garage? N Is there a fuel tank? N

Is there a wood stove? N Is there a fireplace? N

Describe the heating system: (circle) Forced air furnace/ Boiler / Window air conditioner/ Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: NA

Are air ducts located within the crawl space of the property? NA

Are there additional vents within the property? (Non-powered vent/ bathroom vent/ etc.) _____

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	No			
Cracks in foundation floor or walls	No			
Sump	No			
Floor drain	yes			Water heater closet
Other				
Other				

Sampling Information

Sample Date 11/9/20 - 11/10/20

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) B. Kappen

Telephone No () _____

Laboratory ALS

Telephone No () _____

Table 2: Pre-Sampling Background Screening and Inspection Information

List products or items which may be considered potential sources of VOCs such as paint cans, gasoline cans, gasoline powered equipment, cleaning solvents, furniture polish, moth balls, etc.

Date and time of pre-sampling inspection Tenant removed all chemicals the day prior to sample collection.
Sampling Inspection Product Inventory

<u>Potential Source/ Trade Name</u>	<u>Location (Floor/Room)</u>	<u>Active/Main Ingredient</u>	<u>Picture</u>	<u>Removed (Y/N)</u>

Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
200011-1019-7-IA	First	Kitchen	119827	-30	-9
200011-1019-7-SSV	First	closet	109927	-30	-3

*Indicate pressure in units of inches of mercury.

Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? sliding patio door open morning of 11/9.

How long was the ventilation process? _____

Were vapor control methods in effect while the samples were being collected?

Windows open? No Ventilation fans? Yes No Vapor barriers? Yes No

Vapor phase carbon treatment system? Yes No SSDS? Yes No Other site control measures _____

Weather Conditions during Sampling

Outside temperature (°F) High: 66 Low: 45 Inside temperature (°F) 75

Prevailing wind speed and direction 12 mph / NE

Describe the general weather conditions (e.g. sunny, cloudy, rain) Rain (11-10) / sunny (11-9)

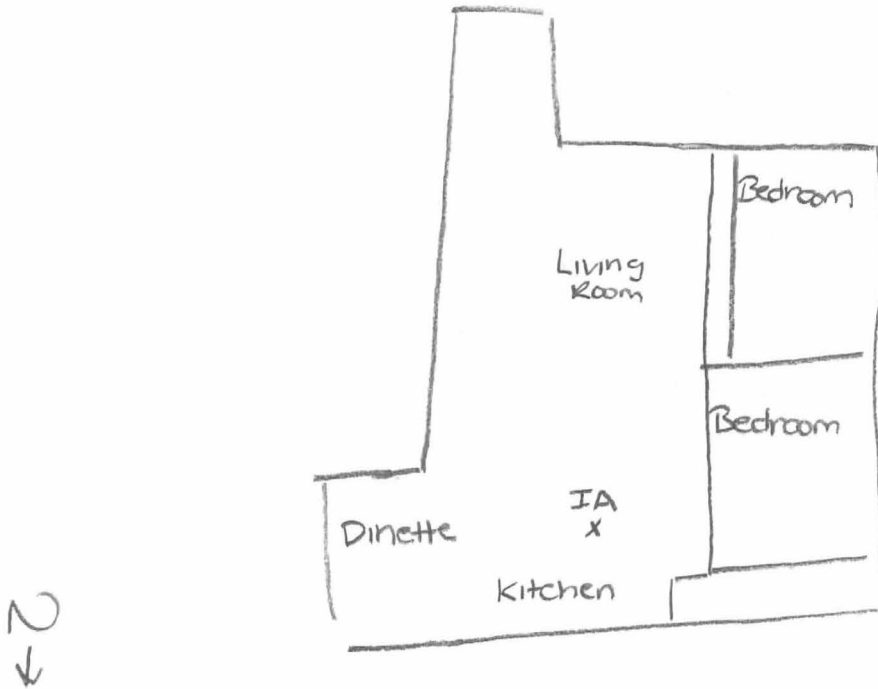
Significant precipitation (1 inches or more) within 72 hours of the sampling event? During event

General Comments and Sketch Area

Is there any information you feel is important related to this site and the samples collected which would facilitate an accurate interpretation of the indoor air quality? Sketch floor plan, sample locations, location of background sources.

Comments: Indoor Air Sample on Kitchen Counter

Sketch:





INDOOR AIR BUILDING SURVEY FORM

Date 11-9-2020
Site # 1019 #9
Site Name Former Donaldson's Cleaners
Address 110 W Cecil St, Neenah, WI

Occupant Information

Owner Name _____
Occupant Name Wendy Riehl and Timothy Horn
Address 1019 S Commercial St, #9
Neenah, WI
Telephone No (920) 209-1103 Home/Work/Mobile
() Home/Work/Mobile

Number and Age of Occupants 2, 45

Does anyone smoke inside the building? NO

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other? _____

If residential, what type (circle) Single family/Condo/Multi-family/Other? _____

If the property is commercial, indicate the business? NA

How many floors does the building have? 2

Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other? _____

Is the basement used as a living/work space area? NA

What type of foundation does the building have (circle) Field stone/Poured concrete/Concrete block Other? _____

Is there an attached garage? NO Is there a fuel tank? NO

Is there a wood stove? NO Is there a fireplace? NO

Describe the heating system: (circle) Forced air furnace/ Boiler/ Window air conditioner/Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: NA

Are air ducts located within the crawl space of the property? NA

Are there additional vents within the property? (Non-powered vent/ bathroom vent/etc.) _____

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	no			
Cracks in foundation floor or walls	no			
Sump	no			
Floor drain	yes			
Other				
Other				

Sampling Information

Sample Date 11-9-10-2020

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) Brian Kappen

Telephone No () _____

Laboratory ALS

Telephone No () _____

Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
200011-1019-9-IA	First	dining	109969	-26	-4
200011-1019-9-SSV	First	closet	119717	-29	-3

*Indicate pressure in units of inches of mercury.

Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? _____

How long was the ventilation process? _____

Were vapor control methods in effect while the samples were being collected?

Windows open? Yes / No Ventilation fans? Yes / No Vapor barriers? Yes / No

Vapor phase carbon treatment system? Yes / No SSDS? Yes/No Other site control measures _____

Weather Conditions during Sampling

Outside temperature (°F) High: 66 Low: 45 Inside temperature (°F) 70

Prevailing wind speed and direction 12 mph / NE

Describe the general weather conditions (e.g. sunny, cloudy, rain) Rain(11-10) / Sunny(11-9)

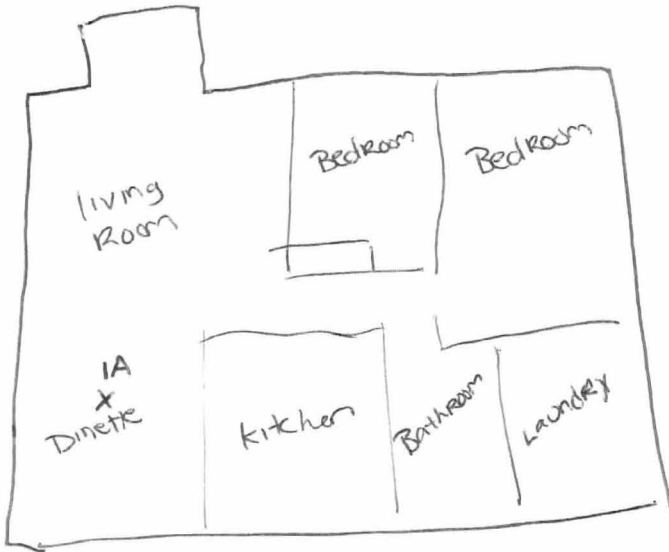
Significant precipitation (1 inches or more) within 72 hours of the sampling event? During Event

General Comments and Sketch Area

Is there any information you feel is important related to this site and the samples collected which would facilitate an accurate interpretation of the indoor air quality? Sketch floor plan, sample locations, location of background sources.

Comments: Sliding screen door open, Sample taken from on top of kitchen table

Sketch:





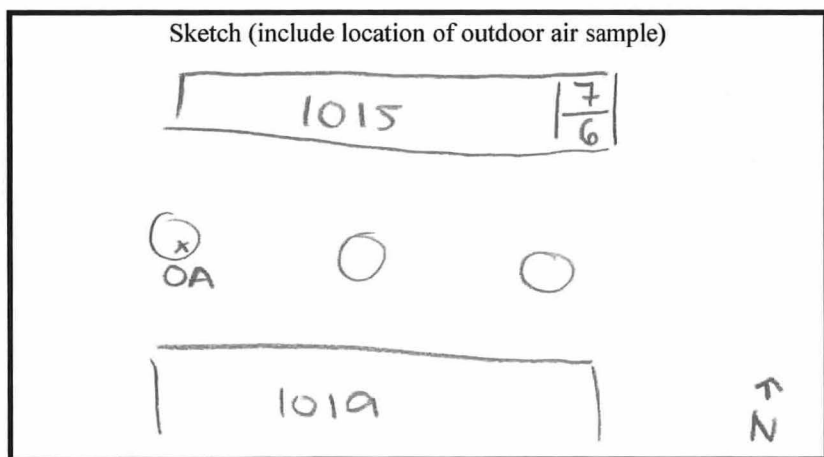
Indoor/Outdoor Air Field Sampling Form

825 N Capitol Avenue
Indianapolis, IN 46204
(317) 972-7870

Project Name: Former Donaldson's Cleaners
Project Number: 200011
Project Address: 110W Cecil St, Neenah, WI
Client/Contact: WDNR/J Borski

Property Address: 1015 S Commercial St #7
Neenah, WI
OA Sample Location: Tree at N End of courtyard
Sampler(s): B Kappen

Sample ID	Canister ID	Flow Controller ID	Date Start	Time Start	Date End	Time End	Vacuum Reading	
			mm/dd/yy	hh:mm	mm/dd/yy	hh:mm	Initial in. Hg	Final in. Hg
200011-1015-7-IA	11261	108982	11-30-20	1505	12-1-20	1500	-30	-7
200011-1015-OA	18434	109052	11-30-20	1512	12-1-20	1446	-29	-1



	Wind Direction	Wind Speed mph	Temperature °F	Relative Humidity %	Barometric Pressure in. of Hg
Start	N	15	27	47	29.04
End	NW	9	34	38	29.06
Notes:					
Duplicate ID:					

*All indoor air samples collected from one property will be recorded on the same Indoor Air Sampling Form.
*Outdoor air samples will be recorded on separate Indoor Air Sampling Forms due to changing weather conditions.

Project Name: Former Donaldson's Cleaners
 Project Number: 200011
 Project Address: 110 W. Cecil St. Neenah, WI
 Client/Contact: WDNR - J. Borski

Property Address: 1015 S. Commercial St #7
Neenah, WI
 Sampler(s): B. Kappen

Sample ID	Canister ID	Flow Controller ID	Date mm/dd/yy	Time Start hh:mm	Time End hh:mm	Vacuum Reading		Sub-Slab Pressure in H ₂ O	Negative Pressure Test		Water Dam Test	
						Initial in. Hg	Final in. Hg		Induced -15 in Hg on sample train and pressure held? (yes/no)		Water Dam Test passed? (air bubbles not observed or water level did not drop)(yes/no)	
<u>200011-1015-7-SSV</u>	<u>119252</u>	<u>119227</u>	<u>12/1/20</u>	<u>1534</u>	<u>1539</u>	<u>-30</u>	<u>-4</u>	<u>0.000</u>	<u>yes</u>	<u>no</u>	<u>yes</u>	<u>no</u>
									yes	no	yes	no
									yes	no	yes	no
									yes	no	yes	no
									yes	no	yes	no
									yes	no	yes	no

Sketch

Wind Direction	Wind Speed mph	Temperature °F	Relative Humidity %	Barometric Pressure in. of Hg
<u>NW</u>	<u>7</u>	<u>32</u>	<u>41</u>	<u>29.07</u>

Notes:



INDOOR AIR BUILDING SURVEY FORM

Date 11-30-20
Site # 200011
Site Name Former Donaldson's Cleaners
Address 110 W Cecil St
Neenah, WI 54956

Occupant Information

Owner Name Commercial Square Apartments
Occupant Name Christina Huebner
Address 1015 Commercial St, #7

Telephone No (920) 486-0417 Home/Work/Mobile
() Home/Work/Mobile

Number and Age of Occupants 2, 1-40's, 1-70's

Does anyone smoke inside the building? No

Building Characteristics

Type of building: (circle) Residential/Industrial/School/Commercial/Multi-use/Other?

If residential, what type (circle) Single family/Condo/Multi-family/Other?

If the property is commercial, indicate the business? -

How many floors does the building have? 2

Does the building have a (circle) Basement/Crawl space/Slab-on-grade/Other?

Is the basement used as a living/work space area? NA

What type of foundation does the building have (circle) Field stone/Poured concrete/Concrete block Other?

Is there an attached garage? NO Is there a fuel tank? NO

Is there a wood stove? NO Is there a fireplace? NO



Describe the heating system: (circle) Forced air furnace/ Boiler Window air conditioner/Other? _____

If forced air heating, answer the following questions:

Is there a fresh air exchange? If so, details: No

Are air ducts located within the crawl space of the property? NA

Are there additional vents within the property? (Non-powered vent/ bathroom vent/etc.) Bath fan

Table 1: Potential vapor migration entry point information

Potential Vapor Entry Points	Present (Yes/No)	Field Screening Results (ppm)	Picture	Comments
Foundation penetrations in floor or walls	N			
Cracks in foundation floor or walls	N			
Sump	N			
Floor drain	Y			Next to water heater
Other				
Other				

Sampling Information

Sample Date 11/30/2020

Sampler Type Sorbent SUMMA Passive (Please circle one)

Analysis Method Mass APH TO-15Standard TO-15LL TO-15-SIM TO-17 Other: (Please circle one)

Contact Person (Project Manager) ALS, Rob Nieman

Telephone No (513) 483-3179

Laboratory ALS-Cincinnati

Telephone No ()



Sampling Information

Table 3: Sorbent Tube Sampler Information

Sample ID#	Floor	Room	Tube ID#	Pump ID#	Volume (liters)	Duration (minutes)	Comments

Table 4: Canister Sampler Information

Sample ID#	Floor	Room	Canister ID#	Initial On-site Pressure*	Final On-Site Pressure*
200011-1015-7-IA	1	Bedroom	11261	-30	-7
200011-1015-0A	outdoor		18434	-29	-1
200011-1015-7-SSV	1	Bed closet	119252	-30	-4

*Indicate pressure in units of inches of mercury.

Please provide a sketch of building and sample locations on the following page.

Was the building ventilated prior to sample collection? No

How long was the ventilation process? _____

Were vapor control methods in effect while the samples were being collected?

Windows open? Yes/ No Ventilation fans? Yes/ No Vapor barriers? Yes/ No

Vapor phase carbon treatment system? Yes/ No SSDS? Yes/ No Other site control measures _____

Weather Conditions during Sampling

Outside temperature (°F) High: 34 Low: 18 Inside temperature (°F) 75

Prevailing wind speed and direction NW @ 10

Describe the general weather conditions (e.g. sunny, cloudy, rain) clear

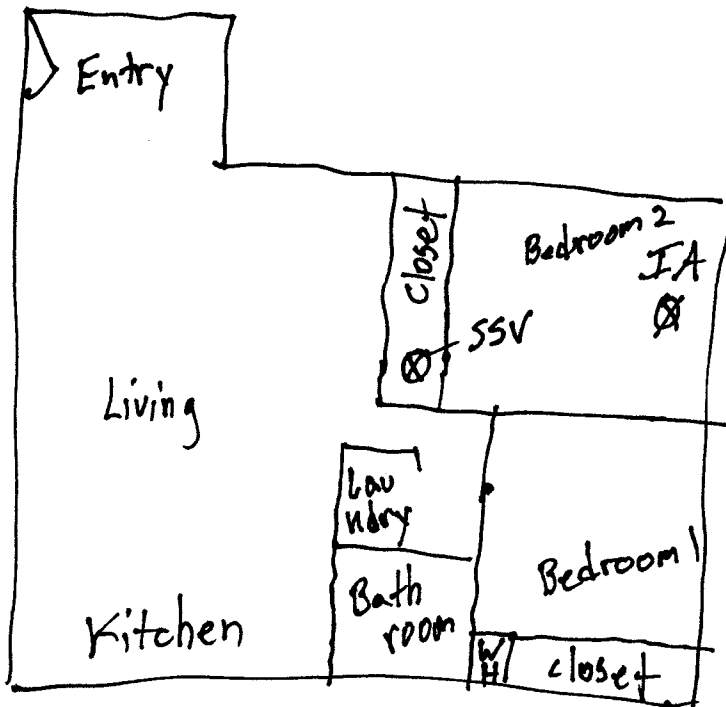
Significant precipitation (1 inches or more) within 72 hours of the sampling event? No

General Comments and Sketch Area

Is there any information you feel is important related to this site and the samples collected which would facilitate an accurate interpretation of the indoor air quality? Sketch floor plan, sample locations, location of background sources.

Comments: Tenant indicated she had removed all chemicals from apartment.

Sketch:





ATTACHMENT 2

Laboratory Analytical Reports



30-Nov-2020

Brian Kappen
EnviroForensics
N16W23390 Stone Ridge Dr
Waukesha, WI 53188

Re: **Former Donaldson's Cleaners; PN.: 200011**

Work Order: **20110457**

Dear Brian,

ALS Environmental received 7 samples on 16-Nov-2020 04:40 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

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

Sincerely,

A handwritten signature in black ink that reads 'Rob Nieman'.

Electronically approved by: Danielle Strasinger

Rob Nieman
Project Manager

Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Work Order: 20110457

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20110457-01	200011-1019-7-IA	Air		11/10/2020	11/16/2020	<input type="checkbox"/>
20110457-02	200011-1019-9-IA	Air		11/10/2020	11/16/2020	<input type="checkbox"/>
20110457-03	200011-1015/1019-OA	Air		11/10/2020	11/16/2020	<input type="checkbox"/>
20110457-04	200011-1015-6-IA	Air		11/11/2020	11/16/2020	<input type="checkbox"/>
20110457-05	200011-1019-7-SSV	Air		11/10/2020	11/16/2020	<input type="checkbox"/>
20110457-06	200011-1019-9-SSV	Air		11/10/2020	11/16/2020	<input type="checkbox"/>
20110457-07	200011-1015-6-SSV	Air		11/11/2020	11/16/2020	<input type="checkbox"/>

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Work Order: 20110457

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

Client: EnviroForensics

Project: Former Donaldson's Cleaners; PN.: 200011

Work Order: 20110457

Sample ID: 200011-1019-7-IA

Lab ID: 20110457-01

Collection Date: 11/10/2020

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 12:59 AM
Tetrachloroethene	ND		0.50	ppbv	1	11/19/2020 12:59 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 12:59 AM
Trichloroethene	ND		0.20	ppbv	1	11/19/2020 12:59 AM
Vinyl chloride	ND		0.50	ppbv	1	11/19/2020 12:59 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	11/19/2020 12:59 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 12:59 AM
Tetrachloroethene	ND		3.39	µg/m3	1	11/19/2020 12:59 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 12:59 AM
Trichloroethene	ND		1.07	µg/m3	1	11/19/2020 12:59 AM
Vinyl chloride	ND		1.28	µg/m3	1	11/19/2020 12:59 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	11/19/2020 12:59 AM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1019-9-IA
Collection Date: 11/10/2020

Work Order: 20110457
Lab ID: 20110457-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 01:44 AM
Tetrachloroethene	ND		0.50	ppbv	1	11/19/2020 01:44 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 01:44 AM
Trichloroethene	ND		0.20	ppbv	1	11/19/2020 01:44 AM
Vinyl chloride	ND		0.50	ppbv	1	11/19/2020 01:44 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	11/19/2020 01:44 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 01:44 AM
Tetrachloroethene	ND		3.39	µg/m3	1	11/19/2020 01:44 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 01:44 AM
Trichloroethene	ND		1.07	µg/m3	1	11/19/2020 01:44 AM
Vinyl chloride	ND		1.28	µg/m3	1	11/19/2020 01:44 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	11/19/2020 01:44 AM

Note:

Client: EnviroForensics

Project: Former Donaldson's Cleaners; PN.: 200011

Work Order: 20110457

Sample ID: 200011-1015/1019-OA

Lab ID: 20110457-03

Collection Date: 11/10/2020

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 02:30 AM
Tetrachloroethene	ND		0.50	ppbv	1	11/19/2020 02:30 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 02:30 AM
Trichloroethene	ND		0.20	ppbv	1	11/19/2020 02:30 AM
Vinyl chloride	ND		0.50	ppbv	1	11/19/2020 02:30 AM
Surr: Bromofluorobenzene	98.3		60-140	%REC	1	11/19/2020 02:30 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 02:30 AM
Tetrachloroethene	ND		3.39	µg/m3	1	11/19/2020 02:30 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 02:30 AM
Trichloroethene	ND		1.07	µg/m3	1	11/19/2020 02:30 AM
Vinyl chloride	ND		1.28	µg/m3	1	11/19/2020 02:30 AM
Surr: Bromofluorobenzene	98.3		60-140	%REC	1	11/19/2020 02:30 AM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1015-6-IA
Collection Date: 11/11/2020

Work Order: 20110457
Lab ID: 20110457-04
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 03:15 AM
Tetrachloroethene	ND		0.50	ppbv	1	11/19/2020 03:15 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/19/2020 03:15 AM
Trichloroethene	ND		0.20	ppbv	1	11/19/2020 03:15 AM
Vinyl chloride	ND		0.50	ppbv	1	11/19/2020 03:15 AM
Surr: Bromofluorobenzene	100		60-140	%REC	1	11/19/2020 03:15 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 03:15 AM
Tetrachloroethene	ND		3.39	µg/m3	1	11/19/2020 03:15 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/19/2020 03:15 AM
Trichloroethene	ND		1.07	µg/m3	1	11/19/2020 03:15 AM
Vinyl chloride	ND		1.28	µg/m3	1	11/19/2020 03:15 AM
Surr: Bromofluorobenzene	100		60-140	%REC	1	11/19/2020 03:15 AM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1019-7-SSV
Collection Date: 11/10/2020

Work Order: 20110457
Lab ID: 20110457-05
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	0.55		0.50	ppbv	1	11/23/2020 09:02 PM
Tetrachloroethene	8.0		0.50	ppbv	1	11/23/2020 09:02 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/23/2020 09:02 PM
Trichloroethene	0.33		0.20	ppbv	1	11/23/2020 09:02 PM
Vinyl chloride	ND		0.50	ppbv	1	11/23/2020 09:02 PM
Surr: Bromofluorobenzene	104		60-140	%REC	1	11/23/2020 09:02 PM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	2.18		1.98	µg/m3	1	11/23/2020 09:02 PM
Tetrachloroethene	54.5		3.39	µg/m3	1	11/23/2020 09:02 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/23/2020 09:02 PM
Trichloroethene	1.77		1.07	µg/m3	1	11/23/2020 09:02 PM
Vinyl chloride	ND		1.28	µg/m3	1	11/23/2020 09:02 PM
Surr: Bromofluorobenzene	104		60-140	%REC	1	11/23/2020 09:02 PM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1019-9-SSV
Collection Date: 11/10/2020

Work Order: 20110457
Lab ID: 20110457-06
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/24/2020 07:59 PM
Tetrachloroethene	4.3		0.50	ppbv	1	11/24/2020 07:59 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/24/2020 07:59 PM
Trichloroethene	0.21		0.20	ppbv	1	11/24/2020 07:59 PM
Vinyl chloride	ND		0.50	ppbv	1	11/24/2020 07:59 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	11/24/2020 07:59 PM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/24/2020 07:59 PM
Tetrachloroethene	29.0		3.39	µg/m3	1	11/24/2020 07:59 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/24/2020 07:59 PM
Trichloroethene	1.13		1.07	µg/m3	1	11/24/2020 07:59 PM
Vinyl chloride	ND		1.28	µg/m3	1	11/24/2020 07:59 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	11/24/2020 07:59 PM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1015-6-SSV
Collection Date: 11/11/2020

Work Order: 20110457
Lab ID: 20110457-07
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/24/2020 08:44 PM
Tetrachloroethene	2.5		0.50	ppbv	1	11/24/2020 08:44 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/24/2020 08:44 PM
Trichloroethene	ND		0.20	ppbv	1	11/24/2020 08:44 PM
Vinyl chloride	ND		0.50	ppbv	1	11/24/2020 08:44 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	11/24/2020 08:44 PM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/24/2020 08:44 PM
Tetrachloroethene	16.7		3.39	µg/m3	1	11/24/2020 08:44 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	11/24/2020 08:44 PM
Trichloroethene	ND		1.07	µg/m3	1	11/24/2020 08:44 PM
Vinyl chloride	ND		1.28	µg/m3	1	11/24/2020 08:44 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	11/24/2020 08:44 PM

Note:

Client: EnviroForensics

QC BATCH REPORT

Work Order: 20110457

Project: Former Donaldson's Cleaners; PN.: 200011

Batch ID: **R184311** Instrument ID **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R184311				Units: ppbv		Analysis Date: 11/18/2020 05:06 PM		
Client ID:		Run ID: VMS4_201118A				SeqNo: 2353808		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	ND	0.50								
Tetrachloroethene	ND	0.50								
trans-1,2-Dichloroethene	ND	0.50								
Trichloroethene	ND	0.20								
Vinyl chloride	ND	0.50								
<i>Surr: Bromofluorobenzene</i>	<i>9.58</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>95.8</i>	<i>60-140</i>	<i>0</i>			

lcs		Sample ID: LCS-R184311				Units: ppbv		Analysis Date: 11/18/2020 11:46 AM		
Client ID:		Run ID: VMS4_201118A				SeqNo: 2353807		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	10.49	0.50	10	0	105	60-140	0			
Tetrachloroethene	9.45	0.50	10	0	94.5	60-140	0			
trans-1,2-Dichloroethene	9.74	0.50	10	0	97.4	60-140	0			
Trichloroethene	9.57	0.20	10	0	95.7	60-140	0			
Vinyl chloride	8.25	0.50	10	0	82.5	60-140	0			
<i>Surr: Bromofluorobenzene</i>	<i>10.07</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>101</i>	<i>60-140</i>	<i>0</i>			

The following samples were analyzed in this batch:

20110457-01A	20110457-02A	20110457-03A
20110457-04A		

Client: EnviroForensics
Work Order: 20110457
Project: Former Donaldson's Cleaners; PN.: 200011

QC BATCH REPORT

Batch ID: **R184443** Instrument ID **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R184443				Units: ppbv		Analysis Date: 11/23/2020 12:58 PM			
Client ID:		Run ID: VMS4_201123A				SeqNo: 2356802		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.20									
Vinyl chloride	ND	0.50									
<i>Surr: Bromofluorobenzene</i>	<i>9.74</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>97.4</i>	<i>60-140</i>	<i>0</i>				

ics		Sample ID: LCS-R184443				Units: ppbv		Analysis Date: 11/23/2020 12:13 PM			
Client ID:		Run ID: VMS4_201123A				SeqNo: 2356801		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
cis-1,2-Dichloroethene	10.11	0.50	10	0	101	60-140	0				
Tetrachloroethene	10.19	0.50	10	0	102	60-140	0				
trans-1,2-Dichloroethene	10.09	0.50	10	0	101	60-140	0				
Trichloroethene	10.29	0.20	10	0	103	60-140	0				
Vinyl chloride	7.88	0.50	10	0	78.8	60-140	0				
<i>Surr: Bromofluorobenzene</i>	<i>10.24</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>102</i>	<i>60-140</i>	<i>0</i>				

The following samples were analyzed in this batch:

20110457-05A

Client: EnviroForensics
Work Order: 20110457
Project: Former Donaldson's Cleaners; PN.: 200011

QC BATCH REPORT

Batch ID: **R184512** Instrument ID **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R184512				Units: ppbv		Analysis Date: 11/24/2020 04:40 PM			
Client ID:		Run ID: VMS4_201124A				SeqNo: 2357835		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.20									
Vinyl chloride	ND	0.50									
<i>Surr: Bromofluorobenzene</i>	<i>10.08</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>101</i>	<i>60-140</i>	<i>0</i>				

lcs		Sample ID: LCS-R184512				Units: ppbv		Analysis Date: 11/24/2020 03:56 PM			
Client ID:		Run ID: VMS4_201124A				SeqNo: 2357834		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
cis-1,2-Dichloroethene	10.07	0.50	10	0	101	60-140	0				
Tetrachloroethene	10.27	0.50	10	0	103	60-140	0				
trans-1,2-Dichloroethene	9.59	0.50	10	0	95.9	60-140	0				
Trichloroethene	10.06	0.20	10	0	101	60-140	0				
Vinyl chloride	7.52	0.50	10	0	75.2	60-140	0				
<i>Surr: Bromofluorobenzene</i>	<i>10.35</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>104</i>	<i>60-140</i>	<i>0</i>				

The following samples were analyzed in this batch:

20110457-06A	20110457-07A
--------------	--------------

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
WorkOrder: 20110457

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m3	
ppbv	

Sample Receipt Checklist

Client Name: **ENVIROFORENSICS-WAKESHA**

Date/Time Received: **16-Nov-20 16:40**

Work Order: **20110457**

Received by: **JNW**

Checklist completed by *Jan Wilcox*
eSignature

16-Nov-20
Date

Reviewed by: *Rob Nieman*
eSignature

18-Nov-20
Date

Matrices: air

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Air Canister - Chain of Custody Record / Analytical Service Request



Ship To: **ALS Environmental**
 4388 Glendale Millford Rd.
 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

03107

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. _____

20110457

Company Name & Address (Reporting Information) Enviroforensics N16W23390 Stone Ridge DR. Ste G Waukesha, WI 53188				Project Name Former Donaldson's Cleaners				OH VAP: <input type="radio"/> Yes <input type="radio"/> No		Comments / Specific Instructions (ie: water or pressure issues)
Project Manager Brian Kappen				Project Number 200011				OH BUSTR: <input type="radio"/> Yes <input type="radio"/> No		
Phone 262-290-4001				P.O. # / Billing Information 2020-2069				Analysis Method Type: SS = SubSlab IA = Indoor Air SG = Soil Gas O = Other AA = Ambient Air SVE = Soil Vapor Extract		
Email Address for Result Reporting bkappen@enviroforensics.com				Sampler (Print & Sign) RL Rebecca Brown				T015 VOCs		

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID	Flow Controller ID	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	.PID		
200011-1019-7-IA	01	11.10.20	11:58	119827	119054	-30	-9		X	IA
200011-1019-9-IA	02	11.10.20	15:32	109969	119615	-26	-4		X	IA
200011-1015/1019-0A	03	11.10.20	16:20	109158	109479	-30	-8		X	AA
200011-1015-6-IA	04	11.11.20	10:00	109195	109191	-30	-7		X	IA
200011-1019-7-SSV	05	11.10.20	12:42	109927	119229	-30	-3		X	SS
200011-1019-9-SSV	06	11.10.20	16:12	119717	109781	-29	-3		X	SS
200011-1015-6-SSV	07	11.11.20	10:39	119239	109840	-30	-4		X	SS

There will be additional charges for damaged equipment

Report QC Levels _____
 EDD required Yes / No
 Type: _____ Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) <i>RL</i>	Date: 11-12-20	Time: 12:00	Received by: (Signature) <i>Fedex</i>	Date: 11-12-20	Time: 12:00
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature) <i>ALS</i>	Date: 11/16/2020	Time: 1040

Cooler / Blank Temperature _____ °C



18-Dec-2020

Brian Kappen
EnviroForensics
N16W23390 Stone Ridge Dr
Waukesha, WI 53188

Re: **Former Donaldson's Cleaners; PN.: 200011**

Work Order: **20120266**

Dear Brian,

ALS Environmental received 3 samples on 07-Dec-2020 04:45 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

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

Sincerely,

A handwritten signature in black ink that reads 'Rob Nieman'.

Electronically approved by: Danielle Strasinger

Rob Nieman
Project Manager

Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Work Order: 20120266

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20120266-01	200011-1015-OA	Air		12/1/2020 14:46	12/7/2020 16:45	<input type="checkbox"/>
20120266-02	200011-1015-7-IA	Air		12/1/2020 15:00	12/7/2020 16:45	<input type="checkbox"/>
20120266-03	200011-1015-7-SSV	Air		12/1/2020 15:39	12/7/2020 16:45	<input type="checkbox"/>

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Work Order: 20120266

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1015-OA
Collection Date: 12/1/2020 02:46 PM

Work Order: 20120266
Lab ID: 20120266-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	12/11/2020 02:46 AM
Tetrachloroethene	ND		0.50	ppbv	1	12/11/2020 02:46 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	12/11/2020 02:46 AM
Trichloroethene	ND		0.20	ppbv	1	12/11/2020 02:46 AM
Vinyl chloride	ND		0.50	ppbv	1	12/11/2020 02:46 AM
Surr: Bromofluorobenzene	98.2		60-140	%REC	1	12/11/2020 02:46 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/11/2020 02:46 AM
Tetrachloroethene	ND		3.39	µg/m3	1	12/11/2020 02:46 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/11/2020 02:46 AM
Trichloroethene	ND		1.07	µg/m3	1	12/11/2020 02:46 AM
Vinyl chloride	ND		1.28	µg/m3	1	12/11/2020 02:46 AM
Surr: Bromofluorobenzene	98.2		60-140	%REC	1	12/11/2020 02:46 AM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1015-7-IA
Collection Date: 12/1/2020 03:00 PM

Work Order: 20120266
Lab ID: 20120266-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	12/11/2020 03:31 AM
Tetrachloroethene	ND		0.50	ppbv	1	12/11/2020 03:31 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	12/11/2020 03:31 AM
Trichloroethene	ND		0.20	ppbv	1	12/11/2020 03:31 AM
Vinyl chloride	ND		0.50	ppbv	1	12/11/2020 03:31 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	12/11/2020 03:31 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/11/2020 03:31 AM
Tetrachloroethene	ND		3.39	µg/m3	1	12/11/2020 03:31 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/11/2020 03:31 AM
Trichloroethene	ND		1.07	µg/m3	1	12/11/2020 03:31 AM
Vinyl chloride	ND		1.28	µg/m3	1	12/11/2020 03:31 AM
Surr: Bromofluorobenzene	101		60-140	%REC	1	12/11/2020 03:31 AM

Note:

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
Sample ID: 200011-1015-7-SSV
Collection Date: 12/1/2020 03:39 PM

Work Order: 20120266
Lab ID: 20120266-03
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		5.0	ppbv	10	12/11/2020 11:09 AM
Tetrachloroethene	19		5.0	ppbv	10	12/11/2020 11:09 AM
trans-1,2-Dichloroethene	ND		5.0	ppbv	10	12/11/2020 11:09 AM
Trichloroethene	ND		2.0	ppbv	10	12/11/2020 11:09 AM
Vinyl chloride	ND		5.0	ppbv	10	12/11/2020 11:09 AM
Surr: Bromofluorobenzene	99.7		60-140	%REC	10	12/11/2020 11:09 AM
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
cis-1,2-Dichloroethene	ND		19.8	µg/m3	10	12/11/2020 11:09 AM
Tetrachloroethene	129		33.9	µg/m3	10	12/11/2020 11:09 AM
trans-1,2-Dichloroethene	ND		19.8	µg/m3	10	12/11/2020 11:09 AM
Trichloroethene	ND		10.7	µg/m3	10	12/11/2020 11:09 AM
Vinyl chloride	ND		12.8	µg/m3	10	12/11/2020 11:09 AM
Surr: Bromofluorobenzene	99.7		60-140	%REC	10	12/11/2020 11:09 AM

Note:

Client: EnviroForensics

QC BATCH REPORT

Work Order: 20120266

Project: Former Donaldson's Cleaners; PN.: 200011

Batch ID: **R186021** Instrument ID **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R186021				Units: ppbv		Analysis Date: 12/10/2020 04:18 PM		
Client ID:		Run ID: VMS4_201210A		SeqNo: 2366358		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	ND	0.50								
Tetrachloroethene	ND	0.50								
trans-1,2-Dichloroethene	ND	0.50								
Trichloroethene	ND	0.20								
Vinyl chloride	ND	0.50								
<i>Surr: Bromofluorobenzene</i>	9.95	0	10	0	99.5	60-140		0		

lcs		Sample ID: LCS-R186021				Units: ppbv		Analysis Date: 12/10/2020 03:35 PM		
Client ID:		Run ID: VMS4_201210A		SeqNo: 2366357		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	10.37	0.50	10	0	104	60-140		0		
Tetrachloroethene	9	0.50	10	0	90	60-140		0		
trans-1,2-Dichloroethene	9.56	0.50	10	0	95.6	60-140		0		
Trichloroethene	9.64	0.20	10	0	96.4	60-140		0		
Vinyl chloride	11.81	0.50	10	0	118	60-140		0		
<i>Surr: Bromofluorobenzene</i>	10.21	0	10	0	102	60-140		0		

The following samples were analyzed in this batch:

20120266-01A	20120266-02A	20120266-03A
--------------	--------------	--------------

Client: EnviroForensics
Project: Former Donaldson's Cleaners; PN.: 200011
WorkOrder: 20120266

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m3	
ppbv	

Sample Receipt Checklist

Client Name: **ENVIROFORENSICS-WAKESHA**

Date/Time Received: **07-Dec-20 16:45**

Work Order: **20120266**

Received by: **RDN**

Checklist completed by Leb Nieman 09-Dec-20
eSignature Date

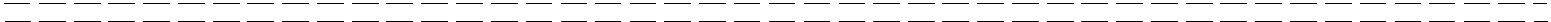
Reviewed by: Leb Nieman 09-Dec-20
eSignature Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

