



March 13, 2024

Matthew Kautzky
Director of Facilities
Goodwill NCW
1800 Appleton Road
Menasha, WI 54952

Subject: Environmental Investigation Sampling Results
BRRS#: 02-71-467001

Dear Mr. Kautzky:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of sub-slab vapor samples collected from the Goodwill property located at 907 South Green Bay Road, Neenah, Wisconsin. The activities are part of an environmental investigation being performed for the former Gunderson Cleaner facility formerly located at 891 South Green Bay Road at the direction of the WDNR. The chemicals of concern for the investigation are the solvent tetrachloroethene (PCE) and its associated breakdown products. Specifically, this sampling event was to collect sub-slab vapor samples to evaluate whether the operation of the installed vapor mitigation system can be discontinued.

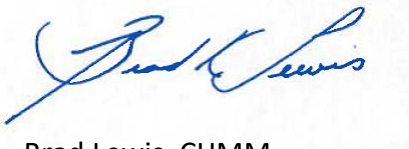
Sampling Results

Sub-slab vapor samples were collected from five (5) vapor sampling ports on February 15, 2024. The locations are shown on the attached **Figure 1**. The sub-slab vapor sample analytical results are summarized and compared to WDNR standards on the attached **Table 1**. The laboratory reports that relate to the sub-slab vapor samples are also attached.

As shown on **Table 1**, no VOC vapors were detected in any sub-slab port sampled at concentrations exceeding the laboratory detection limits. Additional sub-slab vapor sampling is required by WDNR to verify on-Site concentrations and we will coordinate additional sampling, if any, with Goodwill in advance.

If you have any questions or concerns, please contact me at (317) 696-7409 or by email at blewis@enviroforensics.com. The WDNR project manager, Josie Schultz, can be reached at 920-366-5685 or Josie.Schultz@wisconsin.gov. We greatly appreciate your help and patience with this matter.

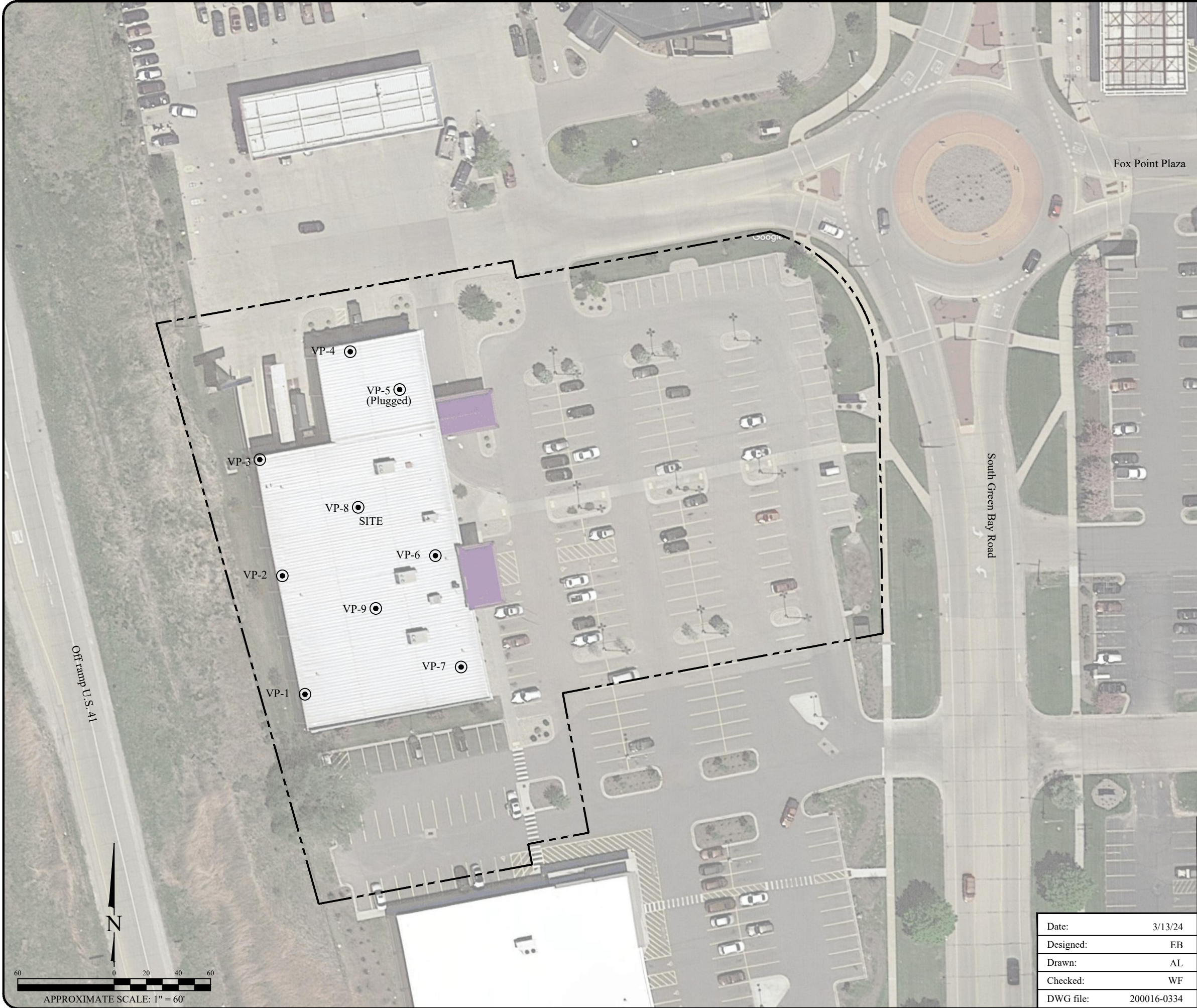
Sincerely,
EnviroForensics, LLC

A handwritten signature in blue ink that reads "Brad Lewis".

Brad Lewis, CHMM
Project Manager

Copy: Josie Schultz, Wisconsin Department of Natural Resources

Attachments: Figure 1 – Sub-Slab Vapor Sample Location Map
Table 1 - Summary of Sub-Slab Sample Analytical Results
Laboratory Analytical Report



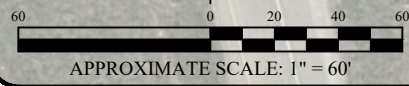
Legend

- Property boundary
- VP-1 ● Sub-slab vapor sample port

Off-ramp U.S. 41

Fox Point Plaza

South Green Bay Road



SUB-SLAB VAPOR LOCATION MAP

Gunderson Cleaners
 891 South Green Bay Road
 Neenah, Wisconsin

Date:	3/13/24
Designed:	EB
Drawn:	AL
Checked:	WF
DWG file:	200016-0334



825 North Capitol Avenue • Indianapolis, IN 46204
 EnviroForensics.com

Figure	1
Project	200016

TABLE 1
SUB-SLAB VAPOR ANALYTICAL RESULTS

Former Gunderson Cleaners
Neenah, Wisconsin

Sample Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Residential VRSL		1,400	70	NE	1,400	56
Small Commercial VRSL		5,800	290	NE	5,800	930
200016-VP-1	6/17/2021	22.9	<1.07	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
	2/15/2024	<31.9	<10.7	<198	<396	<12.8
200016-VP-2	6/17/2021	8.89	<1.07	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
	2/15/2024	<31.9	<10.7	<198	<396	<12.8
200016-VP-3	6/17/2021	9.02	<1.07	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
200016-VP-4	6/17/2021	<3.19	<1.07	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
200016-VP-6	6/17/2021	10.4	5.75	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
200016-VP-7	6/17/2021	7.53	6.77	<19.8	<39.6	<1.28
	1/19/2022	<31.9	<10.7	<198	<396	<12.8
	2/15/2024	<31.9	<10.7	<198	<396	<12.8
200016-VP-8	11/9/2023	<31.9	<10.7	<198	<396	<12.8
	2/15/2024	<31.9	<10.7	<198	<396	<12.8
200016-VP-9	11/9/2023	<31.9	<10.7	<198	<396	<12.8
	2/15/2024	<31.9	<10.7	<198	<396	<12.8

Notes:

Vapor Risk Screening Levels (VRSLs) are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance documents

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

Sub-slab vapor samples analyzed according to EPA Method TO-15

NE = Screening level not established

Bolded values are above detection limits

Bolded and shaded (colored) values exceed the applicable screening level



EnvisionAir
1441 Sadlier Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Ms. Nicolette Morris
Enviroforensics
825 N. Capitol Ave.
Indianapolis, IN 46204

February 27, 2024

EnvisionAir Project Number: 2024-102
Client Project Name: 200016 Former Gunderson Cleaners

Dear Ms. Morris,

Please find the attached analytical report for the samples received February 19, 2024. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris
Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>Matrix:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>
			<u>Date</u>	<u>Time</u>							<u>Collected:</u>
24-502	200016-891-VP-1	A	2/15/24	7:09	2/15/24	7:18	2/19/24	8:46	-30	-3	-3
24-503	200016-891-VP-2	A	2/15/24	8:37	2/15/24	8:46	2/19/24	8:46	-30	-3	-3
24-504	200016-891-VP-7	A	2/15/24	7:35	2/15/24	7:40	2/19/24	8:46	-29	-3	-3
24-505	200016-891-VP-8	A	2/15/24	8:10	2/15/24	8:18	2/19/24	8:46	-30	-3	-3
24-506	200016-891-VP-9	A	2/15/24	7:54	2/15/24	7:59	2/19/24	8:46	-29	-3	-3



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Analytical Method: TO-15
Analytical Batch: 022124AIR

Client Sample ID: 200016-891-VP-1
EnvisionAir Sample Number: 24-502
Sample Matrix: AIR

Sample Collection START Date/Time: 2/15/24 7:09
Sample Collection END Date/Time: 2/15/24 7:18
Sample Received Date/Time: 2/19/24 8:46

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	2-21-24/21:26		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Analytical Method: TO-15
Analytical Batch: 022124AIR

Client Sample ID: 200016-891-VP-2
EnvisionAir Sample Number: 24-503
Sample Matrix: AIR

Sample Collection START Date/Time: 2/15/24 8:37
Sample Collection END Date/Time: 2/15/24 8:46
Sample Received Date/Time: 2/19/24 8:46

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	2-21-24/22:09		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Analytical Method: TO-15
Analytical Batch: 022124AIR

Client Sample ID: 200016-891-VP-7
EnvisionAir Sample Number: 24-504
Sample Matrix: AIR

Sample Collection START Date/Time: 2/15/24 7:35
Sample Collection END Date/Time: 2/15/24 7:40
Sample Received Date/Time: 2/19/24 8:46

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	2-21-24/22:52		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Analytical Method: TO-15
Analytical Batch: 022124AIR

Client Sample ID: 200016-891-VP-8
EnvisionAir Sample Number: 24-505
Sample Matrix: AIR

Sample Collection START Date/Time: 2/15/24 8:10
Sample Collection END Date/Time: 2/15/24 8:18
Sample Received Date/Time: 2/19/24 8:46

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	100%		
Analysis Date/Time:	2-21-24/23:35		
Analyst Initials	tjg		



EnvisionAir
 1441 Sadler Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 200016 FORMER GUNDERSON CLEANERS
Client Project Manager: NICOLETTE MORRIS
EnvisionAir Project Number: 2024-102

Analytical Method: TO-15
Analytical Batch: 022124AIR

Client Sample ID: 200016-891-VP-9
EnvisionAir Sample Number: 24-506
Sample Matrix: AIR

Sample Collection START Date/Time: 2/15/24 7:54
Sample Collection END Date/Time: 2/15/24 7:59
Sample Received Date/Time: 2/19/24 8:46

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	2-22-24/00:17		
Analyst Initials	tjg		



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 022124AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,1,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 15	15	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
Naphthalene	< 0.1	0.1	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

Analytical Report

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	110%		
Analysis Date/Time:	2-21-24/10:21		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D</u>	<u>LCS</u>	<u>LCSD</u>	<u>RPD</u>	<u>Flag</u>
			<u>Conc(ppbv)</u>	<u>Rec.</u>	<u>Rec.</u>		
Propylene	9.49	10.2	10	95%	102%	7.2%	
Dichlorodifluoromethane	8.75	9.86	10	88%	99%	11.9%	
Chloromethane	10.2	10.3	10	102%	103%	1.0%	
Vinyl Chloride	9.67	10.1	10	97%	101%	4.4%	
1,3-Butadiene	10	10.4	10	100%	104%	3.9%	
Bromomethane	10.1	10.5	10	101%	105%	3.9%	
Chloroethane	9.72	9.48	10	97%	95%	2.5%	
Vinyl Bromide	9.84	9.75	10	98%	98%	0.9%	
Trichlorofluoromethane	9.09	10.3	10	91%	103%	12.5%	
Acetone	9.87	10.1	10	99%	101%	2.3%	
1,1-Dichloroethene	9.7	9.82	10	97%	98%	1.2%	
Methylene Chloride	9.95	9.8	10	100%	98%	1.5%	
Carbon Disulfide	10.3	10.6	10	103%	106%	2.9%	
trans-1,2-Dichloroethene	10	10.7	10	100%	107%	6.8%	
Methyl-tert-butyl ether	10.2	10	10	102%	100%	2.0%	
1,1-Dichloroethane	9.63	10.4	10	96%	104%	7.7%	
Vinyl Acetate	9.6	10.5	10	96%	105%	9.0%	
N-Hexane	10	10.3	10	100%	103%	3.0%	
2-Butanone (MEK)	10.3	10.1	10	103%	101%	2.0%	
cis-1,2-Dichloroethene	10.1	10.3	10	101%	103%	2.0%	
Ethyl Acetate	9.6	10.1	10	96%	101%	5.1%	
Chloroform	9.09	9.49	10	91%	95%	4.3%	
Tetrahydrofuran	9.95	10.2	10	100%	102%	2.5%	
1,2-Dichloroethane	9.33	9.94	10	93%	99%	6.3%	
1,1,1-Trichloroethane	10.1	10.2	10	101%	102%	1.0%	
Carbon Tetrachloride	9.42	9.06	10	94%	91%	3.9%	
Benzene	9.97	10.1	10	100%	101%	1.3%	
Cyclohexane	9.99	9.73	10	100%	97%	2.6%	
1,2-Dichloropropane	9.53	10.4	10	95%	104%	8.7%	
Trichloroethene	10.1	10.2	10	101%	102%	1.0%	
Bromodichloromethane	10.2	9.76	10	102%	98%	4.4%	
1,4-Dioxane	10	10	10	100%	100%	0.0%	
Isooctane	10.1	9.96	10	101%	100%	1.4%	
N-Heptane	9.99	10	10	100%	100%	0.1%	
cis-1,3-Dichloropropene	9.54	9.91	10	95%	99%	3.8%	
4-Methyl-2-pentanone (MIBK)	10.1	10.4	10	101%	104%	2.9%	
trans-1,3-Dichloropropene	9.84	9.85	10	98%	99%	0.1%	
1,1,2-Trichloroethane	9.8	9.86	10	98%	99%	0.6%	
Toluene	10.2	10.5	10	102%	105%	2.9%	
2-Hexanone	9.89	9.79	10	99%	98%	1.0%	
Dibromochloromethane	9.74	10	10	97%	100%	2.6%	
1,2-dibromoethane (EDB)	10.3	9.76	10	103%	98%	5.4%	
Tetrachloroethene	10	10.1	10	100%	101%	1.0%	
Chlorobenzene	8.81	9.97	10	88%	100%	12.4%	
Ethylbenzene	9.82	10.1	10	98%	101%	2.8%	
m,p-Xylene	19.4	20.5	20	97%	103%	5.5%	
Bromoform	8.18	8.2	10	82%	82%	0.2%	



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Analytical Report

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Styrene	9.06	9.31	10	91%	93%	2.7%	
1,1,2,2-Tetrachloroethane	10.3	10.3	10	103%	103%	0.0%	
o-Xylene	10.2	10	10	102%	100%	2.0%	
4-Ethyltoluene	10.1	10.3	10	101%	103%	2.0%	
1,3,5-Trimethylbenzene	9.91	10.1	10	99%	101%	1.9%	
1,2,4-Trimethylbenzene	10	9.78	10	100%	98%	2.2%	
1,3-Dichlorobenzene	10.2	10.1	10	102%	101%	1.0%	
Benzyl Chloride	9.87	9.86	10	99%	99%	0.1%	
1,4-Dichlorobenzene	9.86	9.87	10	99%	99%	0.1%	
1,2-Dichlorobenzene	10.2	10	10	102%	100%	2.0%	
1,2,4-Trichlorobenzene	9.31	9.54	10	93%	95%	2.4%	
Naphthalene	9.62	9.61	10	96%	96%	0.1%	
Hexachloro-1,3-butadiene	8.36	8.28	10	84%	83%	1.0%	
4-bromofluorobenzene (surrogate)	108%	104%					
Analysis Date/Time:	2-21-24/08:15	2-21-24/09:01					
Analyst Initials	tjg	tjg					



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

<u>Flag Number</u>	<u>Comments</u>
1	Reporting limit is supported by MDL. TJG

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2024-0016</u>
Report <u>825 N Capitol Ave</u> Address: <u>Indianapolis, IN</u>	Project Name or Number: <u>200016</u> <u>Former Henderson Cleaners</u>
Report To: <u>N. Morris/W. Fassbender</u>	Sampled by: <u>M. Runyon</u>
Phone: <u>316-888-7911</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>Accounts payable@enviroforensics.com</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List (Specify in notes)



Sampling Type:

- Soil-Gas:
- Sub-Slab:
- Indoor-Air:

www.envision-air.com

Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<u>200016-891-VP-1</u>	<u>1LC</u>	<u>2/15/2024</u>	<u>07:09</u>	<u>2/15/2024</u>	<u>07:18</u>	<u>X</u>				<u>2092</u>	<u>0101</u>	<u>-30</u>	<u>-3</u>	<u>-3</u>	<u>24-502</u>
<u>200016-891-VP-2</u>	<u>1LC</u>	<u>2/15/2024</u>	<u>08:37</u>	<u>2/15/2024</u>	<u>08:46</u>	<u>X</u>				<u>514</u>	<u>025</u>	<u>-30</u>	<u>-3</u>	<u>-3</u>	<u>503</u>
<u>200016-891-VP-7</u>	<u>1LC</u>	<u>2/15/2024</u>	<u>07:35</u>	<u>2/15/2024</u>	<u>07:40</u>	<u>X</u>				<u>J1708</u>	<u>1011</u>	<u>-29</u>	<u>-3</u>	<u>-3</u>	<u>504</u>
<u>200016-891-VP-8</u>	<u>1LC</u>	<u>2/15/2024</u>	<u>08:10</u>	<u>2/15/2024</u>	<u>08:18</u>	<u>X</u>				<u>2096</u>	<u>0044</u>	<u>-30</u>	<u>-3</u>	<u>-3</u>	<u>505</u>
<u>200016-891-VP-9</u>	<u>1LC</u>	<u>2/15/2024</u>	<u>07:54</u>	<u>2/15/2024</u>	<u>07:59</u>	<u>X</u>				<u>2232</u>	<u>0075</u>	<u>-29</u>	<u>-3</u>	<u>-3</u>	<u>506</u>

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
<u><i>Patricia Ann</i></u>	<u>2/19/24</u>	<u>8:46</u>	<u><i>SPT</i></u>	<u>2/19/24</u>	<u>8:46</u>