#### PREPARED BY

EnviroForensics, LLC N16W23390 Stone Ridge Drive, Suite G Waukesha, WI 53188



February 9, 2022

Kristina Sanders-Brown Sparr, Belville & Brown, LLC. 103 High Avenue Oshkosh, Wisconsin 54901

**Subject:** Environmental Investigation Sampling Results

BRRTS#: 02-71-467002

Dear Ms. Sanders-Brown:

In accordance with the executed Agreement to Provide Access for Sampling Activities, and in accordance with Wisconsin Department of Natural Resources (WNDR) regulation NR 716.14, EnviroForensics, LLC is providing the results of environmental samples collected from your property located at 103 High Avenue, Oshkosh, Wisconsin. The samples were collected on January 19 and 20, 2022. The sampling activities are part of an environmental investigation being performed for the Gunderson Cleaners facility formerly located at 118 High Avenue at the direction of the WDNR pursuant to the authority granted to it under State and Federal law. The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Gunderson Cleaners 41 Main Street Menasha, WI 54952 920-727-4000

### **Sampling Results**

Two (2) sub-slab vapor samples designated 200017-VP-M and 200017-VP-N were collected from the basement of your building. The approximate sampling locations are depicted on the attached figure. Indoor air samples 200017-103-IA-B and 200017-103-IA-1 were collected from the basement and first floor, respectively. The results of the vapor and air samples are summarized and compared to WDNR standards on the attached table. The laboratory report that relates to the vapor and air samples are also attached.

Document: 200017-0252



As shown on the attached table, the chemicals of concern were not detected in the indoor air samples collected on January 19, 2022. PCE was detected in the sub-slab vapor samples; however, the concentration in both vapor samples was less than the vapor risk screening level established by WDNR for use in evaluating chemical concentrations at sites such as this.

At this time we do not anticipate any further sampling, unless directed by WDNR. If you have any questions or concerns, please contact me at 262-745-5054 or by email at bkappen@enviroforensics.com. The WDNR project manager, Kevin McKnight, can be reached at 920-808-0170. We greatly appreciate your help and patience with this matter.

Sincerely,

**EnviroForensics, LLC** 

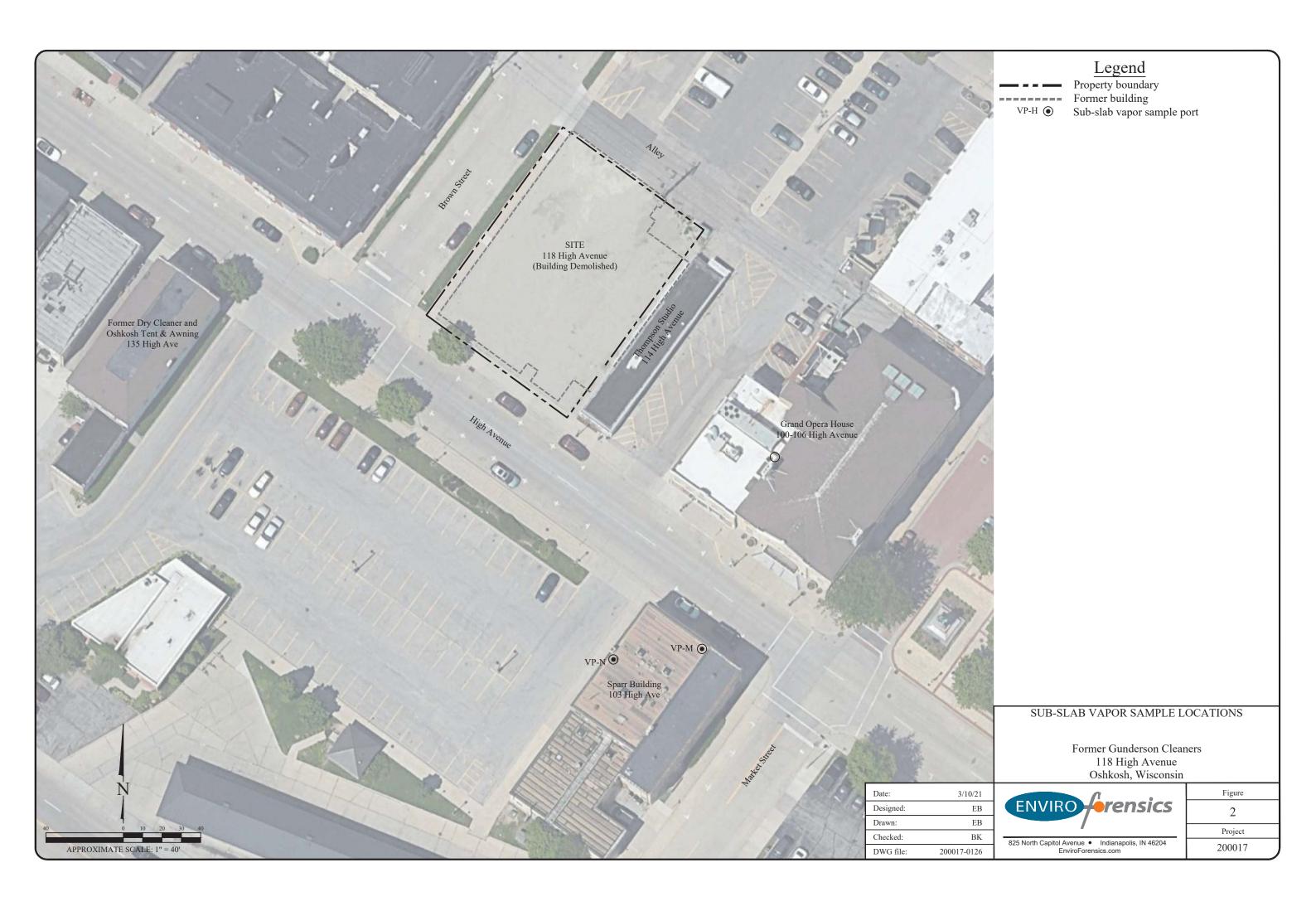
Brian Kappen, PG Project Manager

Copy: Kevin McKnight, Wisconsin Department of Natural Resources

Attachments: Sample Location Map

Results Summary Table

Laboratory Analytical Report



# TABLE 1 VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Former Gunderson Cleaners 118 High Ave, Oshkosh, Wisconsin

Address	Sample Identification	Sample Location	Exposure Criteria	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride			
INDOOR/OUTDOOR AIR												
	Small Comme	rcial Vapor A	ction Level		180	8.8	NE	180	28			
	103-IA-1	First Floor		6/17/2021	<3.19	<1.07	<19.8	<39.6	<1.28			
102 High Avo	103-IA-1	FIISL FIOOI	FIISt FIOOI	Small	1/19/2022	<3.19	<1.07	<19.8	<39.6	<1.28		
103 High Ave	103-IA-B	Pacamont	Commercial	6/17/2021	<3.19	<1.07	<19.8	<39.6	<1.28			
	103-IA-B	Basement	Basement	Basement	Basement		1/19/2022	<3.19	<1.07	<19.8	<39.6	<1.28
			SU	B-SLAB VAPO	R							
S	mall Commercia	Vapor Risk S	creening Level		5,800	290	NE	5,800	930			
	VP-M			6/18/2021	855	1.93	<19.8	<39.6	<1.28			
103 High Ave	V F - IVI	Dacament	Small	1/20/2022	813	<10.7	<198	<396	<12.8			
103 High Ave		Dascillelli	Commercial	6/18/2021	3,510	14.7	<19.8	<39.6	<1.28			
	VP-N			1/20/2022	1,190	<10.7	<198	<396	<12.8			

#### Notes:

Vapor Action and Risk Screeing Levels are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance Results reported in micrograms per cubic meter ( $\mu g/m^3$ )

Samples analyzed according to EPA Method TO-15

NE = Screening/action level not established

**Bolded** values are above detection limits

Bolded and shaded values exceed the applicable screening or action level





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Mr. Brian Kappen **Enviroforensics** N16 W. 23390 Stone Ridge Dr Suite G Waukesha, WI 53188

February 7, 2022

EnvisionAir Project Number: 2022-73

Client Project Name: 200017

Dear Mr. Kappen,

Please find the attached analytical report for the samples received January 28, 2022. 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,

**David Norris Project Manager** EnvisionAir, LLC



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Client Name: ENVIROFORENSICS

Project ID: 200017

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-73

# Sample Summary

Canister Pressure / Vacuum

			START	START							<u>Lab</u>
			Date	Time	End Date	End Time	Date	Time	Initial Field	Final Field	Received
Laboratory Sample Number:	Sample Description:	Matrix:	Collected:	Collected:	Collected:	Collected:	Received:	Received	(in. Hg)	(in. Hg)	(in. Hg)
22-362	200017-103-IA-1	Α	1/19/22	8:13	1/19/22	16:03	1/28/22	11:40	-29	-7	-7
22-363	200017-103-IA-B	Α	1/19/22	8:20	1/19/22	16:15	1/28/22	11:40	-29	-10	-10
22-364	200017-VP-N	Α	1/20/22	13:06			1/28/22	11:40	-28	-3	-3
22-365	200017-VP-M	Α	1/20/22	13:52			1/28/22	11:40	-28	-3	-3



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Client Name: ENVIROFORENSICS

**Project ID:** 200017

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-73

Analytical Method: TO-15
Analytical Batch: 012922AIR

Client Sample ID: 200017-103-IA-1 Sample Collection START Date/Time: 1/19/22 8:13

Sample Collection END Date/Time: 1/19/22 16:03 EnvisionAir Sample Number: 22-362 Sample Received Date/Time: 1/28/22 11:40

Sample Matrix: AIR

Compounds Sample Results ug/m³ Reporting Limit ug/m³ Flag

 cis-1,2-Dichloroethene
 < 19.8</td>
 19.8

 Tetrachloroethene
 < 3.19</td>
 3.19

 trans-1,2-Dichloroethene
 < 39.6</td>
 39.6

 Trichloroethene
 < 1.07</td>
 1.07

 Vinyl Chloride
 < 1.28</td>
 1.28

4-bromofluorobenzene (surrogate) 98%
Analysis Date/Time: 1-29-22/15:07
Analyst Initials tjg



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Client Name: ENVIROFORENSICS

**Project ID:** 200017

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-73

Analytical Method: TO-15
Analytical Batch: 012922AIR

Client Sample ID: 200017-103-IA-B Sample Collection START Date/Time: 1/19/22 8:20

Sample Collection END Date/Time: 1/19/22 16:15
EnvisionAir Sample Number: 22-363 Sample Received Date/Time: 1/28/22 11:40

Sample Matrix: AIR

**Analyst Initials** 

Compounds	Sample Results ug/m³	Reporting Limit ug/m <sup>3</sup>	<u>Flag</u>
cis-1,2-Dichloroethene	< 19.8	19.8	
Tetrachloroethene	< 3.19	3.19	
trans-1,2-Dichloroethene	< 39.6	39.6	
Trichloroethene	< 1.07	1.07	
Vinyl Chloride	< 1.28	1.28	
4-bromofluorobenzene (surre	ogate) 101%		
Analysis Date/Time:	1-29-22/15:48		

tjg



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Client Name: ENVIROFORENSICS

**Project ID:** 200017

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-73

Analytical Method: TO-15
Analytical Batch: 020122AIR

Client Sample ID: 200017-VP-N Sample Collection START Date/Time: 1/20/22 13:36

Sample Collection END Date/Time:

**EnvisionAir Sample Number:** 22-364 **Sample Received Date/Time:** 1/28/22 11:40

Sample Matrix: AIR

Compounds	Sample Results ug/m³	Reporting Limit ug/m <sup>3</sup>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	1,190	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 107%		
Analysis Date/Time:	2-1-22/15:48		
Analyst Initials	tjg		



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Fax: 317-351-0882 www.envision-air.com

Client Name: ENVIROFORENSICS

**Project ID:** 200017

Client Project Manager: BRIAN KAPPEN

EnvisionAir Project Number: 2022-73

Analytical Method: TO-15
Analytical Batch: 020122AIR

Client Sample ID: 200017-VP-M Sample Collection START Date/Time: 1/20/22 13:52

Sample Collection END Date/Time:

EnvisionAir Sample Number: 22-365 Sample Received Date/Time: 1/28/22 11:40

Sample Matrix: AIR

<u>Compounds</u>	Sample Results u	g/m <sup>3</sup> Reporting Limit ug/m <sup>3</sup>	<u>Flag</u>
cis-1,2-Dichloroethene	< 198	198	
Tetrachloroethene	813	31.9	
trans-1,2-Dichloroethene	< 396	396	
Trichloroethene	< 10.7	10.7	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surro	gate) 95°	<b>%</b>	
Analysis Date/Time:	2-1-22/	16:29	
Analyst Initials	tjo		



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Analytical Report

# **TO-15 Quality Control Data**

EnvisionAir Batch Number: 012822AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	·
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	104%		
Analysis Date/Time:	1-28-22/19:27		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	Flag
Vinyl Chloride	9.64	9.41	10	96%	94%	2.4%	
trans-1,2-Dichloroethene	8.52	9.1	10	85%	91%	6.6%	
cis-1,2-Dichloroethene	9.76	10.6	10	98%	106%	8.3%	
Trichloroethene	10.1	10.2	10	101%	102%	1.0%	
Tetrachloroethene	8.31	8.21	10	83%	82%	1.2%	
4-bromofluorobenzene (surrogate)	96%	96%					
Analysis Date/Time:	1-28-22/18:00	1-28-22/18:49					
Analyst Initials	tjg	tjg					



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Analytical Report

# **TO-15 Quality Control Data**

EnvisionAir Batch Number: 020122AIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichlorethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	2-1-22/13:45		
Analyst Initials	tjg		

			LCS/D	LCS	LCSD		
LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	Conc(ppbv)	Rec.	Rec.	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.9	9.69	10	99%	97%	2.1%	
trans-1,2-Dichloroethene	8.59	9.94	10	86%	99%	14.6%	
cis-1,2-Dichloroethene	11.5	10.4	10	115%	104%	10.0%	
Trichloroethene	10.3	10.5	10	103%	105%	1.9%	
Tetrachloroethene	9.7	8.62	10	97%	86%	11.8%	
4-bromofluorobenzene (surrogate)	103%	93%					
Analysis Date/Time:	2-1-22/12:17	2-1-22/13:07					
Analyst Initials	tjg	tjg					



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Flag Number Comments

# **CHAIN OF CUSTODY RECORD**

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

Clienty English English	~ t	DO Nu	mhor: 3	021-0:	808							_			
Client: Enviro Fovens					000		REC	QUEST	ED F	PARAMET	ΓERS				
Report bKappen@enlir Address: .Com	>torersi										//_				
Report To: B. Kappen		Sample	d by: $\mathcal{B}_{\cdot}$	Kappe	n			/ ,		¢ / /		4er		SIA	NAIR
Phone: 262-745-50	54	3		(circle if applie	cable)					///					
Invoice Address: accounts @ enviroforensics	payable com	Reporting ug/m <sup>3</sup>	ng Units n	eeded: (circl 3 PPBV	e) PPMV				/	//	Sampling Type: Soil-Gas: □ Sub-Slab: ▼		www.en	vision-air.c	Om
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5)			1LC = 1 Liter ( 6LC = 6 Liter ( TB = Tedlar i TD = Therma	Canister		1			/		Indoor-Air:	Canister	Pressure /		2.5.5.m. in 10.000 (2.5.5.m.)
Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp. Start)	Coll. Time	Coll. Date (Comp. End)	Coll. Time					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
200017-103-IA-1		V19/22	813	1/9/22	1603		X			14949	07750	-29	-7	-7	22-362
200017-103-IA-B		1/19/22	820	1/19/22	1615		$\times$		i	H3418	07695	-29	-10	-10	22-3103
200017-VP-N		1/20/22		•			X			2228	0106	-28	-3	-3	22.364
200017-VP-M		1/20/22					X			2095	0005	-28	-3	-3	22.365
	17.3														
Comments:									<u></u>	1.1.5.000 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					

Relinquished by:	Date	Time	Received by:	Date	Time
3-2-2-	1/26/22	1615	FEREX	1/26/27	1615
			40 au tin	1-28,53	11:40