PREPARED BY
EnviroForensics, LLC
825 N. Capitol Avenue
Indianapolis, IN 46204

February 25, 2025

Jesse Sheldon
111 Steele Street
Apt #1
Algoma, Wisconsin 54201

Subject: Environmental Investigation Sampling Results
BRRTS# 02-31-564071 (Allyn Property)

Dear Mr. Sheldon:

In accordance with Wisconsin Department of Natural Resources (WNDR) regulation NR 716.14, EnviroForensics, LLC is providing the results of an environmental sample collected from your apartment located at 111 Steele Street in Algoma, Wisconsin. The sample was collected during a 14-day period from January 14, 2025 to January 28, 2025. The sampling activities are part of an environmental investigation being performed for the former Algoma Cleaners facility located at 111 Steele Street 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 trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC).

The Responsible Party is:

Allyns LLC
2448 Robin Lane
Green Bay, WI 54303
(920) 360-5050

Sampling Results

One (1) indoor air sample designated AB-3 was collected from the breathing space of the living room in your apartment. The results of the vapor samples are summarized and compared to WDNR standards on the attached **Table 1**. Additional indoor air samples were collected from other locations within the Site building and are included for your information in the attached laboratory analytical report that relates to the vapor samples.

There was a detection of PCE in the indoor air sample, but *below* the Residential Vapor Action Level (VRL) for PCE. No other chemicals of concern were detected.

Next Steps

The active vapor mitigation system has continued to operate at the 111 Steele Street property and the recent sampling data indicates that PCE is not a concern in your apartment at this time. The WDNR Publication RR-977 Understanding Chemical Vapor Testing Results is attached with additional information for you.

If you have any questions or concerns, please contact me at 262-366-4425 or by email at rhoverman@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

Rob Hoverman, PG
Northern Midwest Regional Director

Copy: Josie Schultz, Wisconsin Department of Natural Resources

Attachments: Results Summary Table
Laboratory Analytical Report
Publication RR-977 Understanding Chemical Vapor Testing Results

TABLE 1

VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Allyn Property/Former Algoma Cleaners
Algoma, Wisconsin

Address	Sample Identification	Sample Location	Sample Date	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
INDOOR/OUTDOOR AIR									
Residential Vapor Action Level				**210**	**42**	**42**	**42**	**2.1**	**1.7**
Small Commercial Vapor Action Level				**880**	**180**	**180**	**180**	**8.8**	**28**
111 Steele St	AB-3	Second Floor Apt	2/24/2020	NA	<0.197	<0.231	<0.278	**2.09**	<0.148
			6/2/2021	<0.21	<0.197	<0.231	<0.278	<0.237	<0.148
			1/14-1/28/25	<0.0551	<0.0354	<0.0354	**0.291**	<0.0382	<0.0443

Notes:
Vapor Action and Risk Screening Levels are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance Results reported in units of micrograms per cubic meter (µg/m3)
Data prior to 2022 reported by OMNNI Associates/Westwood
Samples analyzed according to U.S. EPA Method TO-15 or U.S. EPA Method TO-17
J = Analyte concentration detected between the laboratory Method Detection Limit and Reporting Limit
NA = Not analyzed
Bolded values are above detection limits
Bolded and shaded values exceed the applicable screening or action level

CERTIFICATE OF ANALYSIS

Beacon Environmental
526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

Beacon Proposal No.: 250106R02

Laboratory Work Order: 0008312

Project Description:

Former Algoma Cleaners
Algoma, WI

Client PO No.: 2024-0419

Prepared for:
Nicolette Morris
EnviroForensics
825 N Capitol Ave
Indianapolis, IN 46204

Ryan W. Schneider
Senior Project Manager

February 13, 2025

All data meet requirements as specified in the Beacon Environmental Quality System Manual and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0008312-01	AB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-02	AB-2	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-03	AB-3	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-04	LB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-05	DC-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			

Project Completeness

Samples Received: 5
Samples Analyzed: 5

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Case Narrative

Beacon Environmental provided thermally conditioned ChloroSorbers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in µg/m3. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling.*

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs) for EPA Method TO-17
The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

Calibration Verification
All continuing calibration verification (CCV) values are within ±30% of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates
Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination
No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples
Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion
Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

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825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Analytical Results

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Summary of Compound Detections- Concentration

Lab Sample ID: 0008312-01 — **AB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.150		2.535	0.110	0.0552	Aa25020422.D
Tetrachloroethene	127-18-4	0.501		5.225	0.0902	0.0451	Aa25020422.D

Lab Sample ID: 0008312-02 — **AB-2** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Trichloroethene	79-01-6	0.0382	J	4.012	0.0764	0.0382	Aa25020423.D
Tetrachloroethene	127-18-4	0.668		5.225	0.0903	0.0452	Aa25020423.D

Lab Sample ID: 0008312-03 — **AB-3** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Tetrachloroethene	127-18-4	0.291		5.225	0.0902	0.0451	Aa25020424.D

Lab Sample ID: 0008312-04 — **LB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.372		2.535	0.110	0.0552	Aa25020425.D
Trichloroethene	79-01-6	0.0436	J	4.012	0.0765	0.0382	Aa25020425.D
Tetrachloroethene	127-18-4	0.467		5.225	0.0904	0.0452	Aa25020425.D

Lab Sample ID: 0008312-05 — **DC-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.346		2.535	0.110	0.0552	Aa25020426.D
Trichloroethene	79-01-6	0.0581	J	4.012	0.0765	0.0382	Aa25020426.D
Tetrachloroethene	127-18-4	1.08		5.225	0.0904	0.0452	Aa25020426.D

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Data Summary Table- Concentration

Compound	Frequency	LOD (µg/m³)	Max Value (µg/m³)
1,1-Dichloroethene	3	0.055	0.372
Trichloroethene	3	0.038	0.058
Tetrachloroethene	5	0.045	1.08

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Detailed Analytical Results

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-01

AB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 20:52	Aa25020422.D
1,1-Dichloroethene	75-35-4	**0.150**		0.0552	0.110	02/04/2025 20:52	Aa25020422.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0764	02/04/2025 20:52	Aa25020422.D
Tetrachloroethene	127-18-4	**0.501**		0.0451	0.0902	02/04/2025 20:52	Aa25020422.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*87.0%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*
Surrogate: Toluene-d8	2037-26-5	*89.8%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-02

AB-2

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 21:24	Aa25020423.D
1,1-Dichloroethene	75-35-4	<0.0552	U	0.0552	0.110	02/04/2025 21:24	Aa25020423.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
Trichloroethene	79-01-6	**0.0382**	J	0.0382	0.0764	02/04/2025 21:24	Aa25020423.D
Tetrachloroethene	127-18-4	**0.668**		0.0452	0.0903	02/04/2025 21:24	Aa25020423.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*
Surrogate: Toluene-d8	2037-26-5	*90.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-03

AB-3

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 21:55	Aa25020424.D
1,1-Dichloroethene	75-35-4	<0.0551	U	0.0551	0.110	02/04/2025 21:55	Aa25020424.D
trans-1,2-Dichloroethene	156-60-5	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
cis-1,2-Dichloroethene	156-59-2	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0763	02/04/2025 21:55	Aa25020424.D
Tetrachloroethene	127-18-4	**0.291**		0.0451	0.0902	02/04/2025 21:55	Aa25020424.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*94.9%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*
Surrogate: Toluene-d8	2037-26-5	*89.6%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-04

LB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:27	Aa25020425.D
1,1-Dichloroethene	75-35-4	**0.372**		0.0552	0.110	02/04/2025 22:27	Aa25020425.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
Trichloroethene	79-01-6	**0.0436**	J	0.0382	0.0765	02/04/2025 22:27	Aa25020425.D
Tetrachloroethene	127-18-4	**0.467**		0.0452	0.0904	02/04/2025 22:27	Aa25020425.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*93.6%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*
Surrogate: Toluene-d8	2037-26-5	*87.4%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-05

DC-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:58	Aa25020426.D
1,1-Dichloroethene	75-35-4	**0.346**		0.0552	0.110	02/04/2025 22:58	Aa25020426.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
Trichloroethene	79-01-6	**0.0581**	J	0.0382	0.0765	02/04/2025 22:58	Aa25020426.D
Tetrachloroethene	127-18-4	**1.08**		0.0452	0.0904	02/04/2025 22:58	Aa25020426.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.3%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*
Surrogate: Toluene-d8	2037-26-5	*86.0%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*

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QC Information/Summary

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013114.D

B25B006-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.14	1	0.5	ng	10.0		91.4	70-130			
1,1-Dichloroethene	10.1	1	0.5	ng	10.0		101	70-130			
trans-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
cis-1,2-Dichloroethene	9.36	1	0.5	ng	10.0		93.6	70-130			
Trichloroethene	8.96	1	0.5	ng	10.0		89.6	70-130			
Tetrachloroethene	9.11	1	0.5	ng	10.0		91.1	70-130			
Surrogate: 1,2-DCA-d4	*8.03*			*ng*	10.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*9.57*			*ng*	10.0		*95.7*	*70-130*			

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Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013116.D

B25B006-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*16.1*			*ng*	20.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*17.6*			*ng*	20.0		*88.1*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020402.D

25B0007-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.71	1	0.5	ng	10.0		97.1	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
Trichloroethene	8.38	1	0.5	ng	10.0		83.8	70-130			
Tetrachloroethene	8.84	1	0.5	ng	10.0		88.4	70-130			
Surrogate: 1,2-DCA-d4	*9.49*			*ng*	10.0		*94.9*	*70-130*			
Surrogate: Toluene-d8	*9.44*			*ng*	10.0		*94.4*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020403.D

25B0007-BLK1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.044	0.089	0.044	µg/m³							U
1,1-Dichloroethene	<0.055	0.110	0.055	µg/m³							U
trans-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
cis-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
Trichloroethene	<0.038	0.076	0.038	µg/m³							U
Tetrachloroethene	<0.045	0.090	0.045	µg/m³							U
Surrogate: 1,2-DCA-d4	*17.9*			*ng*	20.0		*89.3*	*70-130*			
Surrogate: Toluene-d8	*17.2*			*ng*	20.0		*86.2*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020404.D

B25B009-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	8.65	1	0.5	ng	10.0		86.5	70-130			
1,1-Dichloroethene	10.0	1	0.5	ng	10.0		100	70-130			
trans-1,2-Dichloroethene	9.35	1	0.5	ng	10.0		93.5	70-130			
cis-1,2-Dichloroethene	9.31	1	0.5	ng	10.0		93.1	70-130			
Trichloroethene	9.06	1	0.5	ng	10.0		90.6	70-130			
Tetrachloroethene	9.86	1	0.5	ng	10.0		98.6	70-130			
Surrogate: 1,2-DCA-d4	*9.58*			*ng*	10.0		*95.8*	*70-130*			
Surrogate: Toluene-d8	*9.38*			*ng*	10.0		*93.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020416.D

B25B009-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.13	1	0.5	ng	10.0		91.3	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.34	1	0.5	ng	10.0		93.4	70-130			
Trichloroethene	8.21	1	0.5	ng	10.0		82.1	70-130			
Tetrachloroethene	8.27	1	0.5	ng	10.0		82.7	70-130			
Surrogate: 1,2-DCA-d4	*8.21*			*ng*	10.0		*82.1*	*70-130*			
Surrogate: Toluene-d8	*9.16*			*ng*	10.0		*91.6*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020417.D

B25B009-CCB1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.8*			*ng*	20.0		*88.9*	*70-130*			
Surrogate: Toluene-d8	*18.0*			*ng*	20.0		*89.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020428.D

B25B009-CCV2 (Continuing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.56	1	0.5	ng	10.0		95.6	70-130			
1,1-Dichloroethene	10.3	1	0.5	ng	10.0		103	70-130			
trans-1,2-Dichloroethene	9.49	1	0.5	ng	10.0		94.9	70-130			
cis-1,2-Dichloroethene	9.55	1	0.5	ng	10.0		95.5	70-130			
Trichloroethene	9.03	1	0.5	ng	10.0		90.3	70-130			
Tetrachloroethene	10.4	1	0.5	ng	10.0		104	70-130			
Surrogate: 1,2-DCA-d4	*9.67*			*ng*	10.0		*96.7*	*70-130*			
Surrogate: Toluene-d8	*9.47*			*ng*	10.0		*94.7*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020429.D

B25B009-CCB2 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.6*			*ng*	20.0		*87.8*	*70-130*			
Surrogate: Toluene-d8	*17.4*			*ng*	20.0		*86.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary

LCS: 25B0007-BS1 File ID: Aa25020402.D Analyzed: 2/4/25 11:17

LCSD: B25B009-ICV1 File ID: Aa25020404.D Analyzed: 2/4/25 10:22

Analyte	CAS#	LCS Result (ng)	%REC	Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	9.71	97.1		10	8.65	86.50	70-130	11.55	25	
1,1-Dichloroethene	75-35-4	10.55	105.5		10	10.03	100.00	70-130	5.05	25	
trans-1,2-Dichloroethene	156-60-5	9.18	91.8		10	9.35	93.50	70-130	1.83	25	
cis-1,2-Dichloroethene	156-59-2	9.21	92.1		10	9.31	93.10	70-130	1.08	25	
Trichloroethene	79-01-6	8.38	83.8		10	9.06	90.60	70-130	7.80	25	
Tetrachloroethene	127-18-4	8.84	88.4		10	9.86	98.60	70-130	10.91	25	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Additional QC Information

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0008312-01 **Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	U	U	Aa25020422.D
1,1-Dichloroethene	20,147	1.00	0.450	1.36	0.150	Aa25020422.D
trans-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
cis-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
Trichloroethene	20,147	1.00	0.650	U	U	Aa25020422.D
Tetrachloroethene	20,147	1.00	0.550	5.55	0.501	Aa25020422.D
Lab ID: 0008312-02 **Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	U	U	Aa25020423.D
1,1-Dichloroethene	20,127	1.00	0.450	U	U	Aa25020423.D
trans-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
cis-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
Trichloroethene	20,127	1.00	0.650	0.50	0.0382	Aa25020423.D
Tetrachloroethene	20,127	1.00	0.550	7.40	0.668	Aa25020423.D
Lab ID: 0008312-03 **Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	U	U	Aa25020424.D
1,1-Dichloroethene	20,152	1.00	0.450	U	U	Aa25020424.D
trans-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
cis-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
Trichloroethene	20,152	1.00	0.650	U	U	Aa25020424.D
Tetrachloroethene	20,152	1.00	0.550	3.22	0.291	Aa25020424.D
Lab ID: 0008312-04 **Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	U	U	Aa25020425.D
1,1-Dichloroethene	20,121	1.00	0.450	3.37	0.372	Aa25020425.D
trans-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
cis-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
Trichloroethene	20,121	1.00	0.650	0.57	0.0436	Aa25020425.D
Tetrachloroethene	20,121	1.00	0.550	5.17	0.467	Aa25020425.D
Lab ID: 0008312-05 **Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	U	U	Aa25020426.D
1,1-Dichloroethene	20,123	1.00	0.450	3.13	0.346	Aa25020426.D
trans-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
cis-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
Trichloroethene	20,123	1.00	0.650	0.76	0.0581	Aa25020426.D
Tetrachloroethene	20,123	1.00	0.550	12.00	1.08	Aa25020426.D

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Calculations:

$$C = \frac{1000 \times M \times DF}{Uc \times t}$$

$$Uc = U * \left(\left(\frac{Ts + 273.15}{Tu + 273.15}\right)^{1/2}\right)$$

where:

C	=	concentration ($\mu g/m^3$)
M	=	mass (ng)
DF	=	dilution factor
Uc	=	uptake rate (ml/min), corrected
t	=	sampling time (minutes)
U	=	compound specific uptake rate
Tu	=	uptake rate study temperature
Ts	=	sample average temperature

Note: Tu is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0008312-01	**Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,147	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
cis-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
Trichloroethene	20,147	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,147	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-02	**Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,127	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,127	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,127	1.00	0.550	1.00	0.50	0.0903	0.0452
Lab ID: 0008312-03	**Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,152	1.00	0.450	1.00	0.50	0.110	0.0551
trans-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
cis-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
Trichloroethene	20,152	1.00	0.650	1.00	0.50	0.0763	0.0382
Tetrachloroethene	20,152	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-04	**Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,121	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,121	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,121	1.00	0.550	1.00	0.50	0.0904	0.0452
Lab ID: 0008312-05	**Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,123	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,123	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,123	1.00	0.550	1.00	0.50	0.0904	0.0452

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EnviroForensics 825 N Capitol Ave Indianapolis, IN 46204	**Site Name:** Former Algoma Cleaners **Site Location:** Algoma, WI **Project Manager:** Nicolette Morris	**Beacon Proposal:** 250106R02 **Lab Work Order:** 0008312 **Reported:** 02/13/2025

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	01/31/2027	
Colorado	MD010912023	Colorado Division of Oil and Public Safety	11/23/2025	
DoD-ELAP	72690/L24-851	United States Department of Defense Environmental Laboratory Accreditation	12/31/2026	
ISO/IEC 17025:2017	72690/L24-851	General Requirements for the Competence of Testing and Calibration Laboratories	12/31/2026	
NEFAP	72690/L24-846	TNI National Environmental Field Activities Program (NEFAP)	12/31/2026	
NY-NELAP	12097	New York Department of Health	04/01/2025	
Utah-NELAP	MD010912024-16	Utah Department of Health	12/31/2025	
Washington State	C1085	The State of Washington Department of Ecology	05/23/2025	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
%RE	Percent Relative Error
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits)
RV	Calibration reference value
VISL	EPA Vapor Intrusion Screening Level
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	Values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration
g	Uptake rate determined using Graham's Law of Diffusion.

Sample/Sample Receipt Qualifiers and Notes:

J	Value reported below limit of quantitation (LOQ).
U	Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.

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Bel Air, MD 21014 USA
1.410.838.8780

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Management Records

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014, USA
1-410-838-8780
800-878-5510 Toll Free

PASSIVE AIR SAMPLING - SORBENT TUBE | CHAIN-OF-CUSTODY

Client Information		
Company: EnviroForensics	Project Manager: N Morris	Client PO: 2024-0419
Address: 525 N Capitol Ave	Project Name: FMR Algoma Cleaners	Turn around time (check one): [X] Normal [ ] Rush (specify) ____ days
City / State / Zip: Indianapolis, IN 46204	Location: 111 Steele St Algoma, WI	Analysis: [✓] Method TO-17 [ ] Method 325
Phone: 317-972-7870	Submitted by:	
	Email: nmorris@enviroforensics.com	

Location ID	Tube ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)	Target Compounds	INDOOR AIR	AMBIENT AIR	SUB-SLAB	SEWER GAS
AB-1	CS0326	1/14/25	1000	1/28/25	0947			X			
AB-2	CS0349	↓	1005	↓	0932			↓			
AB-3	CS0270	↓	935	↓	0927			↓			
LB-1	CS0217	↓	1023	↓	0944			↓			
DC-1	CS0253	↓	1016	↓	0939			↓			

Special Notes / Instructions:

Relinquished by (signature): Abigail Wittkoski	Date / Time:	Received by (signature): Autumn Anderson	Date / Time: 1/31/25 11:09
Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
For Lab Use Only	Beacon Job No: 8312	Beacon Proposal: 250106R02	
Courier Name: Fedex	Shipment Condition: good	Custody Seal Intact: [ ] Yes [ ] No [✓] n/a	Custody Seal No: —

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

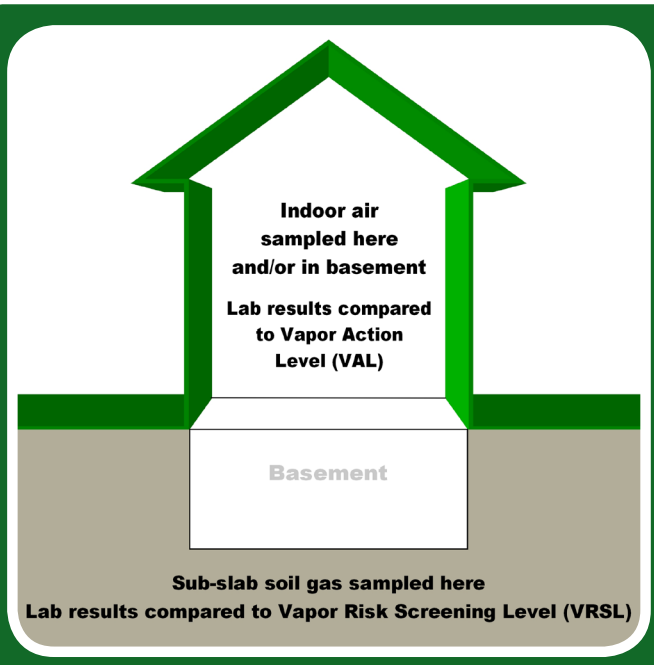
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"

PREPARED BY
EnviroForensics, LLC
825 N. Capitol Avenue
Indianapolis, IN 46204

February 25, 2025

Amber Nelson and Cameron Sherman
111 Steele Street
Apt #2
Algoma, Wisconsin 54201

Subject: Environmental Investigation Sampling Results
BRRTS# 02-31-564071 (Allyn Property)

Dear Ms. Nelson and Mr. Sherman:

In accordance with Wisconsin Department of Natural Resources (WNDR) regulation NR 716.14, EnviroForensics, LLC is providing the results of an environmental sample collected from your apartment located at 111 Steele Street in Algoma, Wisconsin. The sample was collected during a 14-day period from January 14, 2025 to January 28, 2025. The sampling activities are part of an environmental investigation being performed for the former Algoma Cleaners facility located at 111 Steele Street 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 trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC).

The Responsible Party is:

Allyns LLC
2448 Robin Lane
Green Bay, WI 54303
(920) 360-5050

Sampling Results

One (1) indoor air sample designated AB-2 was collected from the breathing space of the living room in your apartment. The results of the vapor samples are summarized and compared to WDNR standards on the attached **Table 1**. Additional indoor air samples were collected from other locations within the Site building and are included for your information in the attached laboratory analytical report that relates to the vapor samples.

There were detections of PCE and TCE in the indoor air sample, but *below* the Residential Vapor Action Levels (VRLs) for PCE and TCE. No other chemicals of concern were detected.

Next Steps

The active vapor mitigation system has continued to operate at the 111 Steele Street property and the recent sampling data indicates that PCE and TCE are not a concern in your apartment at this time. The WDNR Publication RR-977 Understanding Chemical Vapor Testing Results is attached with additional information for you.

If you have any questions or concerns, please contact me at 262-366-4425 or by email at rhoverman@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

Rob Hoverman, PG
Northern Midwest Regional Director

Copy: Josie Schultz, Wisconsin Department of Natural Resources

Attachments: Results Summary Table
Laboratory Analytical Report
Publication RR-977 Understanding Chemical Vapor Testing Results

TABLE 1

VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Allyn Property/Former Algoma Cleaners
Algoma, Wisconsin

Address	Sample Identification	Sample Location	Sample Date	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
INDOOR/OUTDOOR AIR									
Residential Vapor Action Level				**210**	**42**	**42**	**42**	**2.1**	**1.7**
Small Commercial Vapor Action Level				**880**	**180**	**180**	**180**	**8.8**	**28**
111 Steele St	AB-2	Second Floor Apt	2/24/2020	NA	<0.197	<0.231	**1.63**	**5.1**	<0.148
			6/2/2021	<0.21	<0.197	<0.231	**0.48 J**	<0.237	<0.148
			1/14-1/28/25	<0.0552	<0.0355	<0.0355	**0.668**	**0.0382**	<0.0444

Notes:
Vapor Action and Risk Screening Levels are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance Results reported in units of micrograms per cubic meter (µg/m3)
Data prior to 2022 reported by OMNNI Associates/Westwood
Samples analyzed according to U.S. EPA Method TO-15 or U.S. EPA Method TO-17
J = Analyte concentration detected between the laboratory Method Detection Limit and Reporting Limit
NA = Not analyzed
Bolded values are above detection limits
Bolded and shaded values exceed the applicable screening or action level

ENVIRO forensics®

CERTIFICATE OF ANALYSIS

Beacon Environmental
526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

Beacon Proposal No.: 250106R02

Laboratory Work Order: 0008312

Project Description:

Former Algoma Cleaners
Algoma, WI

Client PO No.: 2024-0419

Prepared for:
Nicolette Morris
EnviroForensics
825 N Capitol Ave
Indianapolis, IN 46204

Ryan W. Schneider
Senior Project Manager

February 13, 2025

All data meet requirements as specified in the Beacon Environmental Quality System Manual and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0008312-01	AB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-02	AB-2	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-03	AB-3	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-04	LB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-05	DC-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			

Project Completeness

Samples Received: 5
Samples Analyzed: 5

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Case Narrative

Beacon Environmental provided thermally conditioned ChloroSorbers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in µg/m3. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling.*

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs) for EPA Method TO-17
The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

Calibration Verification
All continuing calibration verification (CCV) values are within ±30% of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates
Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination
No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples
Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion
Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Analytical Results

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Summary of Compound Detections- Concentration

Lab Sample ID: 0008312-01 — **AB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.150		2.535	0.110	0.0552	Aa25020422.D
Tetrachloroethene	127-18-4	0.501		5.225	0.0902	0.0451	Aa25020422.D

Lab Sample ID: 0008312-02 — **AB-2** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Trichloroethene	79-01-6	0.0382	J	4.012	0.0764	0.0382	Aa25020423.D
Tetrachloroethene	127-18-4	0.668		5.225	0.0903	0.0452	Aa25020423.D

Lab Sample ID: 0008312-03 — **AB-3** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Tetrachloroethene	127-18-4	0.291		5.225	0.0902	0.0451	Aa25020424.D

Lab Sample ID: 0008312-04 — **LB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.372		2.535	0.110	0.0552	Aa25020425.D
Trichloroethene	79-01-6	0.0436	J	4.012	0.0765	0.0382	Aa25020425.D
Tetrachloroethene	127-18-4	0.467		5.225	0.0904	0.0452	Aa25020425.D

Lab Sample ID: 0008312-05 — **DC-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.346		2.535	0.110	0.0552	Aa25020426.D
Trichloroethene	79-01-6	0.0581	J	4.012	0.0765	0.0382	Aa25020426.D
Tetrachloroethene	127-18-4	1.08		5.225	0.0904	0.0452	Aa25020426.D

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Data Summary Table- Concentration

Compound	Frequency	LOD (µg/m³)	Max Value (µg/m³)
1,1-Dichloroethene	3	0.055	0.372
Trichloroethene	3	0.038	0.058
Tetrachloroethene	5	0.045	1.08

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Detailed Analytical Results

526 Underwood Lane
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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-01

AB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 20:52	Aa25020422.D
1,1-Dichloroethene	75-35-4	**0.150**		0.0552	0.110	02/04/2025 20:52	Aa25020422.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0764	02/04/2025 20:52	Aa25020422.D
Tetrachloroethene	127-18-4	**0.501**		0.0451	0.0902	02/04/2025 20:52	Aa25020422.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*87.0%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*
Surrogate: Toluene-d8	2037-26-5	*89.8%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-02

AB-2

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 21:24	Aa25020423.D
1,1-Dichloroethene	75-35-4	<0.0552	U	0.0552	0.110	02/04/2025 21:24	Aa25020423.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
Trichloroethene	79-01-6	**0.0382**	J	0.0382	0.0764	02/04/2025 21:24	Aa25020423.D
Tetrachloroethene	127-18-4	**0.668**		0.0452	0.0903	02/04/2025 21:24	Aa25020423.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*
Surrogate: Toluene-d8	2037-26-5	*90.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-03

AB-3

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 21:55	Aa25020424.D
1,1-Dichloroethene	75-35-4	<0.0551	U	0.0551	0.110	02/04/2025 21:55	Aa25020424.D
trans-1,2-Dichloroethene	156-60-5	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
cis-1,2-Dichloroethene	156-59-2	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0763	02/04/2025 21:55	Aa25020424.D
Tetrachloroethene	127-18-4	**0.291**		0.0451	0.0902	02/04/2025 21:55	Aa25020424.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*94.9%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*
Surrogate: Toluene-d8	2037-26-5	*89.6%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-04

LB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:27	Aa25020425.D
1,1-Dichloroethene	75-35-4	**0.372**		0.0552	0.110	02/04/2025 22:27	Aa25020425.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
Trichloroethene	79-01-6	**0.0436**	J	0.0382	0.0765	02/04/2025 22:27	Aa25020425.D
Tetrachloroethene	127-18-4	**0.467**		0.0452	0.0904	02/04/2025 22:27	Aa25020425.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*93.6%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*
Surrogate: Toluene-d8	2037-26-5	*87.4%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-05

DC-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:58	Aa25020426.D
1,1-Dichloroethene	75-35-4	**0.346**		0.0552	0.110	02/04/2025 22:58	Aa25020426.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
Trichloroethene	79-01-6	**0.0581**	J	0.0382	0.0765	02/04/2025 22:58	Aa25020426.D
Tetrachloroethene	127-18-4	**1.08**		0.0452	0.0904	02/04/2025 22:58	Aa25020426.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.3%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*
Surrogate: Toluene-d8	2037-26-5	*86.0%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

QC Information/Summary

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013114.D

B25B006-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.14	1	0.5	ng	10.0		91.4	70-130			
1,1-Dichloroethene	10.1	1	0.5	ng	10.0		101	70-130			
trans-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
cis-1,2-Dichloroethene	9.36	1	0.5	ng	10.0		93.6	70-130			
Trichloroethene	8.96	1	0.5	ng	10.0		89.6	70-130			
Tetrachloroethene	9.11	1	0.5	ng	10.0		91.1	70-130			
Surrogate: 1,2-DCA-d4	*8.03*			*ng*	10.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*9.57*			*ng*	10.0		*95.7*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013116.D

B25B006-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*16.1*			*ng*	20.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*17.6*			*ng*	20.0		*88.1*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020402.D

25B0007-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.71	1	0.5	ng	10.0		97.1	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
Trichloroethene	8.38	1	0.5	ng	10.0		83.8	70-130			
Tetrachloroethene	8.84	1	0.5	ng	10.0		88.4	70-130			
Surrogate: 1,2-DCA-d4	*9.49*			*ng*	10.0		*94.9*	*70-130*			
Surrogate: Toluene-d8	*9.44*			*ng*	10.0		*94.4*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020403.D

25B0007-BLK1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.044	0.089	0.044	µg/m³							U
1,1-Dichloroethene	<0.055	0.110	0.055	µg/m³							U
trans-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
cis-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
Trichloroethene	<0.038	0.076	0.038	µg/m³							U
Tetrachloroethene	<0.045	0.090	0.045	µg/m³							U
Surrogate: 1,2-DCA-d4	*17.9*			*ng*	20.0		*89.3*	*70-130*			
Surrogate: Toluene-d8	*17.2*			*ng*	20.0		*86.2*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020404.D

B25B009-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	8.65	1	0.5	ng	10.0		86.5	70-130			
1,1-Dichloroethene	10.0	1	0.5	ng	10.0		100	70-130			
trans-1,2-Dichloroethene	9.35	1	0.5	ng	10.0		93.5	70-130			
cis-1,2-Dichloroethene	9.31	1	0.5	ng	10.0		93.1	70-130			
Trichloroethene	9.06	1	0.5	ng	10.0		90.6	70-130			
Tetrachloroethene	9.86	1	0.5	ng	10.0		98.6	70-130			
Surrogate: 1,2-DCA-d4	*9.58*			*ng*	10.0		*95.8*	*70-130*			
Surrogate: Toluene-d8	*9.38*			*ng*	10.0		*93.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020416.D

B25B009-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.13	1	0.5	ng	10.0		91.3	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.34	1	0.5	ng	10.0		93.4	70-130			
Trichloroethene	8.21	1	0.5	ng	10.0		82.1	70-130			
Tetrachloroethene	8.27	1	0.5	ng	10.0		82.7	70-130			
Surrogate: 1,2-DCA-d4	*8.21*			*ng*	10.0		*82.1*	*70-130*			
Surrogate: Toluene-d8	*9.16*			*ng*	10.0		*91.6*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020417.D

B25B009-CCB1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.8*			*ng*	20.0		*88.9*	*70-130*			
Surrogate: Toluene-d8	*18.0*			*ng*	20.0		*89.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020428.D

B25B009-CCV2 (Continuing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.56	1	0.5	ng	10.0		95.6	70-130			
1,1-Dichloroethene	10.3	1	0.5	ng	10.0		103	70-130			
trans-1,2-Dichloroethene	9.49	1	0.5	ng	10.0		94.9	70-130			
cis-1,2-Dichloroethene	9.55	1	0.5	ng	10.0		95.5	70-130			
Trichloroethene	9.03	1	0.5	ng	10.0		90.3	70-130			
Tetrachloroethene	10.4	1	0.5	ng	10.0		104	70-130			
Surrogate: 1,2-DCA-d4	*9.67*			*ng*	10.0		*96.7*	*70-130*			
Surrogate: Toluene-d8	*9.47*			*ng*	10.0		*94.7*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020429.D

B25B009-CCB2 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.6*			*ng*	20.0		*87.8*	*70-130*			
Surrogate: Toluene-d8	*17.4*			*ng*	20.0		*86.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary

LCS: 25B0007-BS1 File ID: Aa25020402.D Analyzed: 2/4/25 11:17

LCSD: B25B009-ICV1 File ID: Aa25020404.D Analyzed: 2/4/25 10:22

Analyte	CAS#	LCS Result (ng)	%REC	Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	9.71	97.1		10	8.65	86.50	70-130	11.55	25	
1,1-Dichloroethene	75-35-4	10.55	105.5		10	10.03	100.00	70-130	5.05	25	
trans-1,2-Dichloroethene	156-60-5	9.18	91.8		10	9.35	93.50	70-130	1.83	25	
cis-1,2-Dichloroethene	156-59-2	9.21	92.1		10	9.31	93.10	70-130	1.08	25	
Trichloroethene	79-01-6	8.38	83.8		10	9.06	90.60	70-130	7.80	25	
Tetrachloroethene	127-18-4	8.84	88.4		10	9.86	98.60	70-130	10.91	25	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Additional QC Information

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0008312-01 **Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	U	U	Aa25020422.D
1,1-Dichloroethene	20,147	1.00	0.450	1.36	0.150	Aa25020422.D
trans-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
cis-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
Trichloroethene	20,147	1.00	0.650	U	U	Aa25020422.D
Tetrachloroethene	20,147	1.00	0.550	5.55	0.501	Aa25020422.D
Lab ID: 0008312-02 **Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	U	U	Aa25020423.D
1,1-Dichloroethene	20,127	1.00	0.450	U	U	Aa25020423.D
trans-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
cis-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
Trichloroethene	20,127	1.00	0.650	0.50	0.0382	Aa25020423.D
Tetrachloroethene	20,127	1.00	0.550	7.40	0.668	Aa25020423.D
Lab ID: 0008312-03 **Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	U	U	Aa25020424.D
1,1-Dichloroethene	20,152	1.00	0.450	U	U	Aa25020424.D
trans-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
cis-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
Trichloroethene	20,152	1.00	0.650	U	U	Aa25020424.D
Tetrachloroethene	20,152	1.00	0.550	3.22	0.291	Aa25020424.D
Lab ID: 0008312-04 **Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	U	U	Aa25020425.D
1,1-Dichloroethene	20,121	1.00	0.450	3.37	0.372	Aa25020425.D
trans-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
cis-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
Trichloroethene	20,121	1.00	0.650	0.57	0.0436	Aa25020425.D
Tetrachloroethene	20,121	1.00	0.550	5.17	0.467	Aa25020425.D
Lab ID: 0008312-05 **Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	U	U	Aa25020426.D
1,1-Dichloroethene	20,123	1.00	0.450	3.13	0.346	Aa25020426.D
trans-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
cis-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
Trichloroethene	20,123	1.00	0.650	0.76	0.0581	Aa25020426.D
Tetrachloroethene	20,123	1.00	0.550	12.00	1.08	Aa25020426.D

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Calculations:

$$C = \frac{1000 \times M \times DF}{Uc \times t}$$

$$Uc = U * \left(\left(\frac{Ts + 273.15}{Tu + 273.15}\right)^{1/2}\right)$$

where:

C	=	concentration ($\mu g/m^3$)
M	=	mass (ng)
DF	=	dilution factor
Uc	=	uptake rate (ml/min), corrected
t	=	sampling time (minutes)
U	=	compound specific uptake rate
Tu	=	uptake rate study temperature
Ts	=	sample average temperature

Note: Tu is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0008312-01	**Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,147	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
cis-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
Trichloroethene	20,147	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,147	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-02	**Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,127	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,127	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,127	1.00	0.550	1.00	0.50	0.0903	0.0452
Lab ID: 0008312-03	**Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,152	1.00	0.450	1.00	0.50	0.110	0.0551
trans-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
cis-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
Trichloroethene	20,152	1.00	0.650	1.00	0.50	0.0763	0.0382
Tetrachloroethene	20,152	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-04	**Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,121	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,121	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,121	1.00	0.550	1.00	0.50	0.0904	0.0452
Lab ID: 0008312-05	**Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,123	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,123	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,123	1.00	0.550	1.00	0.50	0.0904	0.0452

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EnviroForensics 825 N Capitol Ave Indianapolis, IN 46204	**Site Name:** Former Algoma Cleaners **Site Location:** Algoma, WI **Project Manager:** Nicolette Morris	**Beacon Proposal:** 250106R02 **Lab Work Order:** 0008312 **Reported:** 02/13/2025

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	01/31/2027	
Colorado	MD010912023	Colorado Division of Oil and Public Safety	11/23/2025	
DoD-ELAP	72690/L24-851	United States Department of Defense Environmental Laboratory Accreditation	12/31/2026	
ISO/IEC 17025:2017	72690/L24-851	General Requirements for the Competence of Testing and Calibration Laboratories	12/31/2026	
NEFAP	72690/L24-846	TNI National Environmental Field Activities Program (NEFAP)	12/31/2026	
NY-NELAP	12097	New York Department of Health	04/01/2025	
Utah-NELAP	MD010912024-16	Utah Department of Health	12/31/2025	
Washington State	C1085	The State of Washington Department of Ecology	05/23/2025	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
%RE	Percent Relative Error
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits)
RV	Calibration reference value
VISL	EPA Vapor Intrusion Screening Level
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	Values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration
g	Uptake rate determined using Graham's Law of Diffusion.

Sample/Sample Receipt Qualifiers and Notes:

J	Value reported below limit of quantitation (LOQ).
U	Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Management Records

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014, USA
1-410-838-8780
800-878-5510 Toll Free

PASSIVE AIR SAMPLING - SORBENT TUBE | CHAIN-OF-CUSTODY

Client Information		
Company: EnviroForensics	Project Manager: N Morris	Client PO: 2024-0419
Address: 525 N Capitol Ave	Project Name: FMR Algoma Cleaners	Turn around time (check one): [X] Normal [ ] Rush (specify) ____ days
City / State / Zip: Indianapolis, IN 46204	Location: 111 Steele St Algoma, WI	Analysis: [✓] Method TO-17 [ ] Method 325
Phone: 317-972-7870	Submitted by:	
	Email: nmorris@enviroforensics.com	

Location ID	Tube ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)	Target Compounds	INDOOR AIR	AMBIENT AIR	SUB-SLAB	SEWER GAS
AB-1	CS0326	1/14/25	1000	1/28/25	0947			X			
AB-2	CS0349	↓	1005	↓	0932			↓			
AB-3	CS0270	↓	935	↓	0927			↓			
LB-1	CS0217	↓	1023	↓	0944			↓			
DC-1	CS0253	↓	1016	↓	0939			↓			

Special Notes / Instructions:

Relinquished by (signature): Abigail Wittkoski	Date / Time:	Received by (signature): Autumn Anderson	Date / Time: 1/31/25 11:09
Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
For Lab Use Only	Beacon Job No: 8312	Beacon Proposal: 250106R02	
Courier Name: Fedex	Shipment Condition: good	Custody Seal Intact: [ ] Yes [ ] No [✓] n/a	Custody Seal No: —

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

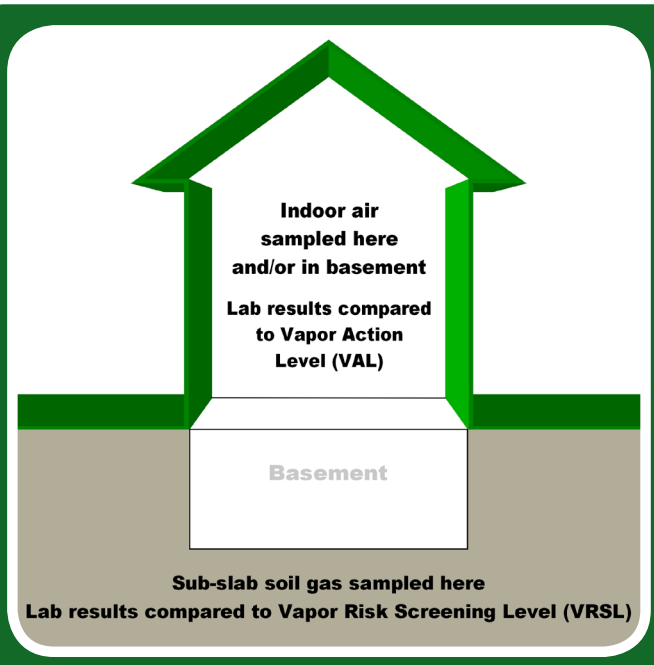
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"

PREPARED BY
EnviroForensics, LLC
825 N. Capitol Avenue
Indianapolis, IN 46204

February 25, 2025

Morgen Macco and Andrew Thorton
111 Steele Street
Apt #3
Algoma, Wisconsin 54201

Subject: Environmental Investigation Sampling Results
BRRTS# 02-31-564071 (Allyn Property)

Dear Ms. Macco and Mr. Thorton:

In accordance with Wisconsin Department of Natural Resources (WNDR) regulation NR 716.14, EnviroForensics, LLC is providing the results of an environmental sample collected from your apartment located at 111 Steele Street in Algoma, Wisconsin. The sample was collected during a 14-day period from January 14, 2025 to January 28, 2025. The sampling activities are part of an environmental investigation being performed for the former Algoma Cleaners facility located at 111 Steele Street 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 trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC).

The Responsible Party is:

Allyns LLC
2448 Robin Lane
Green Bay, WI 54303
(920) 360-5050

Sampling Results

One (1) indoor air sample designated AB-1 was collected from the breathing space of the dining room in your apartment. The results of the vapor samples are summarized and compared to WDNR standards on the attached **Table 1**. Additional indoor air samples were collected from other locations within the Site building and are included for your information in the attached laboratory analytical report that relates to the vapor samples.

There were detections of PCE and 1,1-dichloroethene (1,1-DCE) in the indoor air sample, but *below* the Residential Vapor Action Levels (VRLs) for PCE and 1,1-DCE. No other chemicals of concern were detected.

Next Steps

The active vapor mitigation system has continued to operate at the 111 Steele Street property and the recent sampling data indicates that PCE and 1,1-DCE are not a concern in your apartment at this time. The WDNR Publication RR-977 Understanding Chemical Vapor Testing Results is attached with additional information for you.

If you have any questions or concerns, please contact me at 262-366-4425 or by email at rhoverman@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

Rob Hoverman, PG
Northern Midwest Regional Director

Copy: Josie Schultz, Wisconsin Department of Natural Resources

Attachments: Results Summary Table
Laboratory Analytical Report
Publication RR-977 Understanding Chemical Vapor Testing Results

TABLE 1

VAPOR INTRUSION ASSESSMENT RESULTS SUMMARY

Allyn Property/Former Algoma Cleaners
Algoma, Wisconsin

Address	Sample Identification	Sample Location	Sample Date	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
INDOOR/OUTDOOR AIR									
Residential Vapor Action Level				**210**	**42**	**42**	**42**	**2.1**	**1.7**
Small Commercial Vapor Action Level				**880**	**180**	**180**	**180**	**8.8**	**28**
111 Steele St	AB-1	Ground Floor Apt	2/24/2020	NA	<0.197	<0.231	**1.56**	**5.3**	<0.148
			6/2/2021	<0.21	<0.197	<0.231	**0.61 J**	<0.237	<0.148
			1/14-1/28/25	**0.150**	<0.0355	<0.0355	**0.501**	<0.0382	<0.0443

Notes:
Vapor Action and Risk Screening Levels are calculated according to WDNR Publication RR-800 and subsequent vapor intrusion guidance Results reported in units of micrograms per cubic meter (µg/m3)
Data prior to 2022 reported by OMNNI Associates/Westwood
Samples analyzed according to U.S. EPA Method TO-15 or U.S. EPA Method TO-17
J = Analyte concentration detected between the laboratory Method Detection Limit and Reporting Limit
NA = Not analyzed
Bolded values are above detection limits
Bolded and shaded values exceed the applicable screening or action level

ENVIRO forensics®

CERTIFICATE OF ANALYSIS

Beacon Environmental
526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

Beacon Proposal No.: 250106R02

Laboratory Work Order: 0008312

Project Description:

Former Algoma Cleaners
Algoma, WI

Client PO No.: 2024-0419

Prepared for:
Nicolette Morris
EnviroForensics
825 N Capitol Ave
Indianapolis, IN 46204

Ryan W. Schneider
Senior Project Manager

February 13, 2025

All data meet requirements as specified in the Beacon Environmental Quality System Manual and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0008312-01	AB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-02	AB-2	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-03	AB-3	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-04	LB-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			
0008312-05	DC-1	01/31/2025	TO-17 (Passive)	Indoor Air
Sampler Type:	Sorbent Tube			

Project Completeness

Samples Received: 5
Samples Analyzed: 5

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Case Narrative

Beacon Environmental provided thermally conditioned ChloroSorbers for sampling, with analyses following U.S. EPA Method TO-17, with analytical results reported in µg/m3. Beacon calculated concentration results using the exposure period, target analyte mass, and the following procedures detailed in ISO 16017-2, *Indoor, ambient and workplace air-Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography-Part 2: Diffusive sampling.*

Beacon reports results and reporting limits to three significant digits.

Reporting Limits (RLs) for EPA Method TO-17
The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. Beacon performed dilution analysis when results exceeded the upper calibration limit, bringing all reported results within the calibration range. The project method quantitation limit (MQL) is the limit of detection (LOD) as noted in the data tables.

Calibration Verification
All continuing calibration verification (CCV) values are within ±30% of the true values as defined by the initial calibration and met the requirements specified in BEACON's Quality Manual.

Internal Standards and Surrogates
Internal standards and surrogates are spiked on all blanks (ICB, BLK), field samples and laboratory control samples (ICV/CALV, BS, ICV and CCV). Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates are within the acceptance criteria unless noted in the **Case Narrative**.

Blank Contamination
No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks unless noted in the **Case Narrative**.

Laboratory Control Samples
Acceptance criteria for surrogate and analytes recoveries are 70 to 130 percent; all recoveries are within the acceptance criteria unless noted in the **Case Narrative**.

Discussion
Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017.

End of Case Narrative

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Analytical Results

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Summary of Compound Detections- Concentration

Lab Sample ID: 0008312-01 — **AB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.150		2.535	0.110	0.0552	Aa25020422.D
Tetrachloroethene	127-18-4	0.501		5.225	0.0902	0.0451	Aa25020422.D

Lab Sample ID: 0008312-02 — **AB-2** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Trichloroethene	79-01-6	0.0382	J	4.012	0.0764	0.0382	Aa25020423.D
Tetrachloroethene	127-18-4	0.668		5.225	0.0903	0.0452	Aa25020423.D

Lab Sample ID: 0008312-03 — **AB-3** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
Tetrachloroethene	127-18-4	0.291		5.225	0.0902	0.0451	Aa25020424.D

Lab Sample ID: 0008312-04 — **LB-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.372		2.535	0.110	0.0552	Aa25020425.D
Trichloroethene	79-01-6	0.0436	J	4.012	0.0765	0.0382	Aa25020425.D
Tetrachloroethene	127-18-4	0.467		5.225	0.0904	0.0452	Aa25020425.D

Lab Sample ID: 0008312-05 — **DC-1** — Indoor Air — Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	LOD (µg/m³)	File ID
1,1-Dichloroethene	75-35-4	0.346		2.535	0.110	0.0552	Aa25020426.D
Trichloroethene	79-01-6	0.0581	J	4.012	0.0765	0.0382	Aa25020426.D
Tetrachloroethene	127-18-4	1.08		5.225	0.0904	0.0452	Aa25020426.D

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Data Summary Table- Concentration

Compound	Frequency	LOD (µg/m³)	Max Value (µg/m³)
1,1-Dichloroethene	3	0.055	0.372
Trichloroethene	3	0.038	0.058
Tetrachloroethene	5	0.045	1.08

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Detailed Analytical Results

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-01

AB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 20:52	Aa25020422.D
1,1-Dichloroethene	75-35-4	**0.150**		0.0552	0.110	02/04/2025 20:52	Aa25020422.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0709	02/04/2025 20:52	Aa25020422.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0764	02/04/2025 20:52	Aa25020422.D
Tetrachloroethene	127-18-4	**0.501**		0.0451	0.0902	02/04/2025 20:52	Aa25020422.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*87.0%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*
Surrogate: Toluene-d8	2037-26-5	*89.8%*	*70-130*		*02/04/2025 20:52*	*Aa25020422.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-02

AB-2

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 21:24	Aa25020423.D
1,1-Dichloroethene	75-35-4	<0.0552	U	0.0552	0.110	02/04/2025 21:24	Aa25020423.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 21:24	Aa25020423.D
Trichloroethene	79-01-6	**0.0382**	J	0.0382	0.0764	02/04/2025 21:24	Aa25020423.D
Tetrachloroethene	127-18-4	**0.668**		0.0452	0.0903	02/04/2025 21:24	Aa25020423.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*
Surrogate: Toluene-d8	2037-26-5	*90.8%*	*70-130*		*02/04/2025 21:24*	*Aa25020423.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-03

AB-3

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0443	U	0.0443	0.0886	02/04/2025 21:55	Aa25020424.D
1,1-Dichloroethene	75-35-4	<0.0551	U	0.0551	0.110	02/04/2025 21:55	Aa25020424.D
trans-1,2-Dichloroethene	156-60-5	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
cis-1,2-Dichloroethene	156-59-2	<0.0354	U	0.0354	0.0709	02/04/2025 21:55	Aa25020424.D
Trichloroethene	79-01-6	<0.0382	U	0.0382	0.0763	02/04/2025 21:55	Aa25020424.D
Tetrachloroethene	127-18-4	**0.291**		0.0451	0.0902	02/04/2025 21:55	Aa25020424.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*94.9%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*
Surrogate: Toluene-d8	2037-26-5	*89.6%*	*70-130*		*02/04/2025 21:55*	*Aa25020424.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-04

LB-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:27	Aa25020425.D
1,1-Dichloroethene	75-35-4	**0.372**		0.0552	0.110	02/04/2025 22:27	Aa25020425.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:27	Aa25020425.D
Trichloroethene	79-01-6	**0.0436**	J	0.0382	0.0765	02/04/2025 22:27	Aa25020425.D
Tetrachloroethene	127-18-4	**0.467**		0.0452	0.0904	02/04/2025 22:27	Aa25020425.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*93.6%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*
Surrogate: Toluene-d8	2037-26-5	*87.4%*	*70-130*		*02/04/2025 22:27*	*Aa25020425.D*

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Lab Sample ID: 0008312-05

DC-1

Indoor Air

Method: TO-17 (Passive)

Analyte	CAS#	Result (µg/m³)	Q	LOD (µg/m³)	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.0444	U	0.0444	0.0887	02/04/2025 22:58	Aa25020426.D
1,1-Dichloroethene	75-35-4	**0.346**		0.0552	0.110	02/04/2025 22:58	Aa25020426.D
trans-1,2-Dichloroethene	156-60-5	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
cis-1,2-Dichloroethene	156-59-2	<0.0355	U	0.0355	0.0710	02/04/2025 22:58	Aa25020426.D
Trichloroethene	79-01-6	**0.0581**	J	0.0382	0.0765	02/04/2025 22:58	Aa25020426.D
Tetrachloroethene	127-18-4	**1.08**		0.0452	0.0904	02/04/2025 22:58	Aa25020426.D

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*96.3%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*
Surrogate: Toluene-d8	2037-26-5	*86.0%*	*70-130*		*02/04/2025 22:58*	*Aa25020426.D*

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

QC Information/Summary

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013114.D

B25B006-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.14	1	0.5	ng	10.0		91.4	70-130			
1,1-Dichloroethene	10.1	1	0.5	ng	10.0		101	70-130			
trans-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
cis-1,2-Dichloroethene	9.36	1	0.5	ng	10.0		93.6	70-130			
Trichloroethene	8.96	1	0.5	ng	10.0		89.6	70-130			
Tetrachloroethene	9.11	1	0.5	ng	10.0		91.1	70-130			
Surrogate: 1,2-DCA-d4	*8.03*			*ng*	10.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*9.57*			*ng*	10.0		*95.7*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B006 - Instrument: A System - File ID: Ab25013116.D

B25B006-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*16.1*			*ng*	20.0		*80.3*	*70-130*			
Surrogate: Toluene-d8	*17.6*			*ng*	20.0		*88.1*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020402.D

25B0007-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.71	1	0.5	ng	10.0		97.1	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.21	1	0.5	ng	10.0		92.1	70-130			
Trichloroethene	8.38	1	0.5	ng	10.0		83.8	70-130			
Tetrachloroethene	8.84	1	0.5	ng	10.0		88.4	70-130			
Surrogate: 1,2-DCA-d4	*9.49*			*ng*	10.0		*94.9*	*70-130*			
Surrogate: Toluene-d8	*9.44*			*ng*	10.0		*94.4*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Batch: 25B0007 - Instrument: A System - File ID: Aa25020403.D

25B0007-BLK1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.044	0.089	0.044	µg/m³							U
1,1-Dichloroethene	<0.055	0.110	0.055	µg/m³							U
trans-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
cis-1,2-Dichloroethene	<0.035	0.071	0.035	µg/m³							U
Trichloroethene	<0.038	0.076	0.038	µg/m³							U
Tetrachloroethene	<0.045	0.090	0.045	µg/m³							U
Surrogate: 1,2-DCA-d4	*17.9*			*ng*	20.0		*89.3*	*70-130*			
Surrogate: Toluene-d8	*17.2*			*ng*	20.0		*86.2*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020404.D

B25B009-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	8.65	1	0.5	ng	10.0		86.5	70-130			
1,1-Dichloroethene	10.0	1	0.5	ng	10.0		100	70-130			
trans-1,2-Dichloroethene	9.35	1	0.5	ng	10.0		93.5	70-130			
cis-1,2-Dichloroethene	9.31	1	0.5	ng	10.0		93.1	70-130			
Trichloroethene	9.06	1	0.5	ng	10.0		90.6	70-130			
Tetrachloroethene	9.86	1	0.5	ng	10.0		98.6	70-130			
Surrogate: 1,2-DCA-d4	*9.58*			*ng*	10.0		*95.8*	*70-130*			
Surrogate: Toluene-d8	*9.38*			*ng*	10.0		*93.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020416.D

B25B009-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.13	1	0.5	ng	10.0		91.3	70-130			
1,1-Dichloroethene	10.6	1	0.5	ng	10.0		106	70-130			
trans-1,2-Dichloroethene	9.18	1	0.5	ng	10.0		91.8	70-130			
cis-1,2-Dichloroethene	9.34	1	0.5	ng	10.0		93.4	70-130			
Trichloroethene	8.21	1	0.5	ng	10.0		82.1	70-130			
Tetrachloroethene	8.27	1	0.5	ng	10.0		82.7	70-130			
Surrogate: 1,2-DCA-d4	*8.21*			*ng*	10.0		*82.1*	*70-130*			
Surrogate: Toluene-d8	*9.16*			*ng*	10.0		*91.6*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020417.D

B25B009-CCB1 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.8*			*ng*	20.0		*88.9*	*70-130*			
Surrogate: Toluene-d8	*18.0*			*ng*	20.0		*89.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020428.D

B25B009-CCV2 (Continuing Calibration Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	9.56	1	0.5	ng	10.0		95.6	70-130			
1,1-Dichloroethene	10.3	1	0.5	ng	10.0		103	70-130			
trans-1,2-Dichloroethene	9.49	1	0.5	ng	10.0		94.9	70-130			
cis-1,2-Dichloroethene	9.55	1	0.5	ng	10.0		95.5	70-130			
Trichloroethene	9.03	1	0.5	ng	10.0		90.3	70-130			
Tetrachloroethene	10.4	1	0.5	ng	10.0		104	70-130			
Surrogate: 1,2-DCA-d4	*9.67*			*ng*	10.0		*96.7*	*70-130*			
Surrogate: Toluene-d8	*9.47*			*ng*	10.0		*94.7*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Trace Organics in Air by EPA TO-17 Using Beacon ChloroSorber Tube - Quality Control Summary

Sequence: B25B009 - Instrument: A System - File ID: Aa25020429.D

B25B009-CCB2 (Lab Blank)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.5	1	0.5	ng							U
1,1-Dichloroethene	<0.5	1	0.5	ng							U
trans-1,2-Dichloroethene	<0.5	1	0.5	ng							U
cis-1,2-Dichloroethene	<0.5	1	0.5	ng							U
Trichloroethene	<0.5	1	0.5	ng							U
Tetrachloroethene	<0.5	1	0.5	ng							U
Surrogate: 1,2-DCA-d4	*17.6*			*ng*	20.0		*87.8*	*70-130*			
Surrogate: Toluene-d8	*17.4*			*ng*	20.0		*86.8*	*70-130*			

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

TO-17 (Passive) - LCS/LCSD RPD Quality Control Summary

LCS: 25B0007-BS1 File ID: Aa25020402.D Analyzed: 2/4/25 11:17

LCSD: B25B009-ICV1 File ID: Aa25020404.D Analyzed: 2/4/25 10:22

Analyte	CAS#	LCS Result (ng)	%REC	Q	Spike Level (ng)	LCSD Result (ng)	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	9.71	97.1		10	8.65	86.50	70-130	11.55	25	
1,1-Dichloroethene	75-35-4	10.55	105.5		10	10.03	100.00	70-130	5.05	25	
trans-1,2-Dichloroethene	156-60-5	9.18	91.8		10	9.35	93.50	70-130	1.83	25	
cis-1,2-Dichloroethene	156-59-2	9.21	92.1		10	9.31	93.10	70-130	1.08	25	
Trichloroethene	79-01-6	8.38	83.8		10	9.06	90.60	70-130	7.80	25	
Tetrachloroethene	127-18-4	8.84	88.4		10	9.86	98.60	70-130	10.91	25	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Additional QC Information

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0008312-01 **Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	U	U	Aa25020422.D
1,1-Dichloroethene	20,147	1.00	0.450	1.36	0.150	Aa25020422.D
trans-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
cis-1,2-Dichloroethene	20,147	1.00	0.700	U	U	Aa25020422.D
Trichloroethene	20,147	1.00	0.650	U	U	Aa25020422.D
Tetrachloroethene	20,147	1.00	0.550	5.55	0.501	Aa25020422.D
Lab ID: 0008312-02 **Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	U	U	Aa25020423.D
1,1-Dichloroethene	20,127	1.00	0.450	U	U	Aa25020423.D
trans-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
cis-1,2-Dichloroethene	20,127	1.00	0.700	U	U	Aa25020423.D
Trichloroethene	20,127	1.00	0.650	0.50	0.0382	Aa25020423.D
Tetrachloroethene	20,127	1.00	0.550	7.40	0.668	Aa25020423.D
Lab ID: 0008312-03 **Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	U	U	Aa25020424.D
1,1-Dichloroethene	20,152	1.00	0.450	U	U	Aa25020424.D
trans-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
cis-1,2-Dichloroethene	20,152	1.00	0.700	U	U	Aa25020424.D
Trichloroethene	20,152	1.00	0.650	U	U	Aa25020424.D
Tetrachloroethene	20,152	1.00	0.550	3.22	0.291	Aa25020424.D
Lab ID: 0008312-04 **Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	U	U	Aa25020425.D
1,1-Dichloroethene	20,121	1.00	0.450	3.37	0.372	Aa25020425.D
trans-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
cis-1,2-Dichloroethene	20,121	1.00	0.700	U	U	Aa25020425.D
Trichloroethene	20,121	1.00	0.650	0.57	0.0436	Aa25020425.D
Tetrachloroethene	20,121	1.00	0.550	5.17	0.467	Aa25020425.D
Lab ID: 0008312-05 **Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	U	U	Aa25020426.D
1,1-Dichloroethene	20,123	1.00	0.450	3.13	0.346	Aa25020426.D
trans-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
cis-1,2-Dichloroethene	20,123	1.00	0.700	U	U	Aa25020426.D
Trichloroethene	20,123	1.00	0.650	0.76	0.0581	Aa25020426.D
Tetrachloroethene	20,123	1.00	0.550	12.00	1.08	Aa25020426.D

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EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Calculations:

$$C = \frac{1000 \times M \times DF}{Uc \times t}$$

$$Uc = U * \left(\left(\frac{Ts + 273.15}{Tu + 273.15}\right)^{1/2}\right)$$

where:

C	=	concentration ($\mu g/m^3$)
M	=	mass (ng)
DF	=	dilution factor
Uc	=	uptake rate (ml/min), corrected
t	=	sampling time (minutes)
U	=	compound specific uptake rate
Tu	=	uptake rate study temperature
Ts	=	sample average temperature

Note: Tu is 16.65°C

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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CERTIFICATE OF ANALYSIS

EnviroForensics	**Site Name:** Former Algoma Cleaners	**Beacon Proposal:** 250106R02
825 N Capitol Ave	**Site Location:** Algoma, WI	**Lab Work Order:** 0008312
Indianapolis, IN 46204	**Project Manager:** Nicolette Morris	**Reported:** 02/13/2025

Method Detection and Reporting Limit Calculations (Concentration)

TO-17 (Passive)

Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	M Initial (ng) LOQ	M Initial (ng) LOD	C Calculated (µg/m³) LOQ	C Calculated (µg/m³) LOD
Lab ID: 0008312-01	**Sample Name:** AB-1						
Vinyl Chloride	20,147	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,147	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
cis-1,2-Dichloroethene	20,147	1.00	0.700	1.00	0.50	0.0709	0.0355
Trichloroethene	20,147	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,147	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-02	**Sample Name:** AB-2						
Vinyl Chloride	20,127	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,127	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,127	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,127	1.00	0.650	1.00	0.50	0.0764	0.0382
Tetrachloroethene	20,127	1.00	0.550	1.00	0.50	0.0903	0.0452
Lab ID: 0008312-03	**Sample Name:** AB-3						
Vinyl Chloride	20,152	1.00	0.560	1.00	0.50	0.0886	0.0443
1,1-Dichloroethene	20,152	1.00	0.450	1.00	0.50	0.110	0.0551
trans-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
cis-1,2-Dichloroethene	20,152	1.00	0.700	1.00	0.50	0.0709	0.0354
Trichloroethene	20,152	1.00	0.650	1.00	0.50	0.0763	0.0382
Tetrachloroethene	20,152	1.00	0.550	1.00	0.50	0.0902	0.0451
Lab ID: 0008312-04	**Sample Name:** LB-1						
Vinyl Chloride	20,121	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,121	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,121	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,121	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,121	1.00	0.550	1.00	0.50	0.0904	0.0452
Lab ID: 0008312-05	**Sample Name:** DC-1						
Vinyl Chloride	20,123	1.00	0.560	1.00	0.50	0.0887	0.0444
1,1-Dichloroethene	20,123	1.00	0.450	1.00	0.50	0.110	0.0552
trans-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
cis-1,2-Dichloroethene	20,123	1.00	0.700	1.00	0.50	0.0710	0.0355
Trichloroethene	20,123	1.00	0.650	1.00	0.50	0.0765	0.0382
Tetrachloroethene	20,123	1.00	0.550	1.00	0.50	0.0904	0.0452

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EnviroForensics 825 N Capitol Ave Indianapolis, IN 46204	**Site Name:** Former Algoma Cleaners **Site Location:** Algoma, WI **Project Manager:** Nicolette Morris	**Beacon Proposal:** 250106R02 **Lab Work Order:** 0008312 **Reported:** 02/13/2025

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	01/31/2027	
Colorado	MD010912023	Colorado Division of Oil and Public Safety	11/23/2025	
DoD-ELAP	72690/L24-851	United States Department of Defense Environmental Laboratory Accreditation	12/31/2026	
ISO/IEC 17025:2017	72690/L24-851	General Requirements for the Competence of Testing and Calibration Laboratories	12/31/2026	
NEFAP	72690/L24-846	TNI National Environmental Field Activities Program (NEFAP)	12/31/2026	
NY-NELAP	12097	New York Department of Health	04/01/2025	
Utah-NELAP	MD010912024-16	Utah Department of Health	12/31/2025	
Washington State	C1085	The State of Washington Department of Ecology	05/23/2025	

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
%RE	Percent Relative Error
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits)
RV	Calibration reference value
VISL	EPA Vapor Intrusion Screening Level
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	Values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration
g	Uptake rate determined using Graham's Law of Diffusion.

Sample/Sample Receipt Qualifiers and Notes:

J	Value reported below limit of quantitation (LOQ).
U	Analyte was not detected and is reported as less than the limit of detection (LOD). The LOD has been adjusted for any dilution or concentration of the sample.

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EnviroForensics	**Site Name:**	Former Algoma Cleaners	**Beacon Proposal:**	250106R02
825 N Capitol Ave	**Site Location:**	Algoma, WI	**Lab Work Order:**	0008312
Indianapolis, IN 46204	**Project Manager:**	Nicolette Morris	**Reported:**	02/13/2025

Sample Management Records

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014, USA
1-410-838-8780
800-878-5510 Toll Free

PASSIVE AIR SAMPLING - SORBENT TUBE | CHAIN-OF-CUSTODY

Client Information		
Company: EnviroForensics	Project Manager: N Morris	Client PO: 2024-0419
Address: 525 N Capitol Ave	Project Name: FMR Algoma Cleaners	Turn around time (check one): [X] Normal [ ] Rush (specify) ____ days
City / State / Zip: Indianapolis, IN 46204	Location: 111 Steele St Algoma, WI	Analysis: [✓] Method TO-17 [ ] Method 325
Phone: 317-972-7870	Submitted by:	
	Email: nmorris@enviroforensics.com	

Location ID	Tube ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)	Target Compounds	INDOOR AIR	AMBIENT AIR	SUB-SLAB	SEWER GAS
AB-1	CS0326	1/14/25	1000	1/28/25	0947			X			
AB-2	CS0349	↓	1005	↓	0932			↓			
AB-3	CS0270	↓	935	↓	0927			↓			
LB-1	CS0217	↓	1023	↓	0944			↓			
DC-1	CS0253	↓	1016	↓	0939			↓			

Special Notes / Instructions:

Relinquished by (signature): Abigail Wittkoski	Date / Time:	Received by (signature): Autumn Anderson	Date / Time: 1/31/25 11:09
Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
For Lab Use Only	Beacon Job No: 8312	Beacon Proposal: 250106R02	
Courier Name: Fedex	Shipment Condition: good	Custody Seal Intact: [ ] Yes [ ] No [✓] n/a	Custody Seal No: —

Understanding Chemical Vapor Intrusion Testing Results

RR-977 October 2014

From the Lab to You

Chemical vapor samples were taken from underneath your house or building and possibly indoors as well. These samples have been tested by a certified laboratory and a report was issued. The Wisconsin Department of Natural Resources (DNR) uses these test results to determine if people in the building are being exposed to chemical vapors coming from nearby contaminated soil or groundwater, and to decide what, if any, action is needed to prevent this exposure.

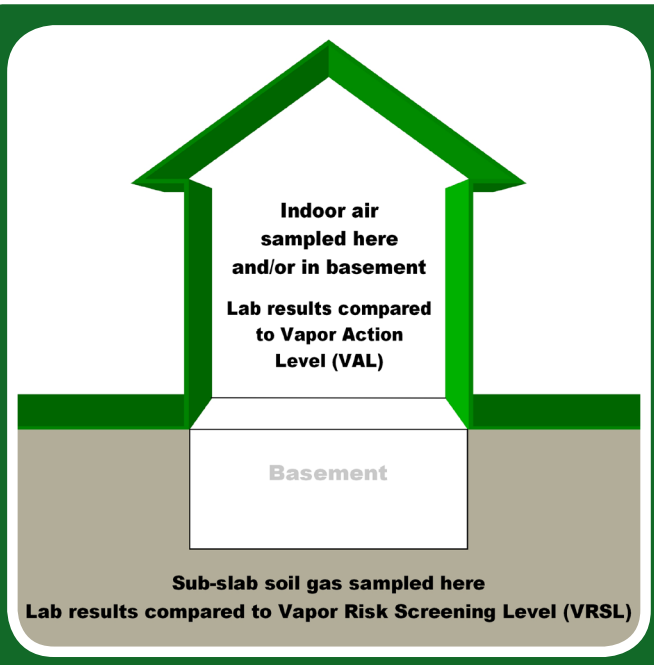
Indoor Air Testing Results

If indoor air samples were collected in your house or building, test results from the lab will be compared to the state Vapor Action Level (VAL) for chemicals of concern. The VAL is a chemical compound's numerical value that represents a health hazard risk to no more than 1 in 100,000 people during a lifetime of exposure. If test results show chemical concentrations in your air below the VAL then adverse health effects are extremely rare, even if you were to breathe the chemical at this concentration for your entire life.

Test results showing chemical concentrations in the air at or above the VAL prompt DNR to recommend that exposure to these chemical vapors be reduced. If test results show concentrations significantly above the VAL, or more than one type of chemical vapor is identified in your indoor air, the risk from exposure increases. If the concentration of any indoor chemical vapor greatly exceeds the VAL, DNR is concerned about even short-term exposure and will typically require immediate action to address the problem.

The VAL for each chemical is set by scientific research. It is protective of all people, including those who are most susceptible to adverse health effects.

If test results identify chemicals in your air that are not present in nearby soil or groundwater contamination, it is likely that these vapors are coming from some product or activity in or near your house or building. Many everyday consumer products (e.g., cleaners, solvents, polish, adhesives, lubricants, aerosols, insect repellants, etc.); combustion processes (e.g., smoking, home heating); fuels in attached garages; dry cleaned clothing or draperies; and occupant activities (e.g., craft hobbies), also release chemical vapors into the air.



The air and soil gas samples from your property are tested at a laboratory. Chemical concentrations are measured and the results are compared to state health-risk numbers.

Sub-slab Soil Gas Testing Results

Soil gas samples were collected from the ground beneath the concrete slab of your building foundation or basement. The lab measured the concentrations of various chemicals in these samples. DNR compares these measurements to the state Vapor Risk Screening Level (VRSL), which identifies the concentration of a chemical in soil gas that scientific research suggests can be a health risk if vapor enters a building. If soil gas measurements exceed the VRSL for a chemical of concern, action to reduce exposure is strongly recommended.

The VRSL is a higher number (higher chemical concentration) than the VAL because it is presumed that concrete building foundations and basement walls will prevent most soil gas from entering a building. Further, any soil gas that does enter a building through cracks, holes, sump pumps, drains, etc., will be diluted to some extent by the indoor air. So, people inside will not be breathing air that includes the full concentration of chemical vapors that exist in the ground.

Wisconsin Department of Natural Resources
P.O. Box 7921, Madison, WI 53707
dnr.wi.gov, search "Brownfields"