Environmental Consultants & Contractors

SCS ENGINEERS

February 27, 2024 File No. 25222269.06

Ms. Sheila L. Lampley 2727 N. 29th Street Milwaukee, WI 53210

Subject: Sample Results Notification

2727 N. 29th Street, Milwaukee

WDNR Findley Adhesives BRRTS No. 03-41-005301

Dear Ms. Lampley:

On behalf of the Wisconsin Department of Natural Resources (WDNR) through the Vapor Intrusion Zone Contract (VIZC), SCS Engineers (SCS) is providing sample results for sub-slab vapor and indoor air samples which were collected from your property by SCS in January 2024. The approximate sample locations are shown on the attached map (**Figure 1**).

The samples were submitted for analysis of five specific chlorinated volatile organic compounds (CVOCs), including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride. The sample laboratory reports are included as **Attachment A**.

CVOCs were not detected in the samples collected from your property. The sample results indicate there is not an indoor air health risk related to vapor intrusion of CVOCs.

The WDNR Publication RR-977 Understanding Chemical Vapor Testing Results with additional information for you is included as **Attachment B**. Up to two additional sampling events are planned for your property to evaluate potential variability of sub-slab vapor and indoor air concentrations. SCS will contact you in advance of these additional events to schedule access.

Once the final sampling event is completed, a final report with these findings will be prepared and submitted to the WDNR and listed on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW).

Please contact Rob Hoverman of WDNR at (414) 497-0896 or robert.hoverman@wisconsin.gov or Nathan Kloczko of Wisconsin Department of Health (DHS) at (608) 867-4448 or Nathan.kloczko@dhs.wisconsin.gov if you have questions concerning the analytical results.



Sheila L. Lampley February 27, 2024 Page 2

Sincerely,

Robert Langdon Senior Project Manager

SCS Engineers

Eric Oelkers, PG

Senior Project Hydrogeologist

SCS Engineers

REL/Imh/TK

cc: Rob Hoverman, WDNR

Nathan Kloczko, DHS

Pobet & Song !-

Attachments: Table 1 – Sub-Slab Vapor Analytical Results Summary

Table 2 - Indoor Air Analytical Results Summary

Figure 1 - Vapor Investigation Map Attachment A - Laboratory Reports

Attachment B - WDNR Publication RR-977

Tables

- 1 Sub-Slab Vapor Analytical Result Summary
- 2 Indoor Air Analytical Results Summary

Table 1. Sub-Slab Vapor Analytical Results Summary Findley Adhesives, Milwaukee, Wisconsin / SCS Engineers Project #25222269.06

(Results are in $\mu g/m^3$)

Sample	Location	Sample Start Date	Sample End Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10B_SSV_05_20240122	2727 N. 29th St.	1/10/2024	1/22/2024		<1.41	<1.75	<1.09	<1.32	<0.71
10B_SSV_06_20240122	2727 N. 29th St.	1/10/2024	1/22/2024		<1.41	<1.75	<1.09	<1.32	<0.71
Vapor Risk Screening Le	vel (Residential Buildi	ng)			1,400	70	1,400	1,400	56
Vapor Risk Screening Le	vel (Small Commerci	al Building)			5,800	290	5,800	5,800	930
Vapor Risk Screening Le	vel (Large Commerc	ial/Industrial Build	ding)		18,000	880	18,000	18,000	2,800

Abbreviations:

µg/m³ = micrograms per cubic meter cis-1,2-DCE = cis-1,2-dichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene -- = Not Applicable

Notes:

- 1. Samples were collected using passive sorbent samplers and analyzed using the USEPA 8260C analytical method.
- 2. Vapor Risk Screening Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on August 2023 U.S. EPA Regional Screening Level Tables.
- 3. **Bold+underlined** values meet or exceed Vapor Risk Screening Levels.

Lab Notes:

None

 $\label{localization} $$1.25222269.00\25222269.06 Findley_Deliverables\Results Notification\2727 N 29th\[Table 1_Sub-Slab Vapor Analytical Results Summary.xlsx\]Sub-Slab Vapor Analytical Results Sub-Slab Vapor Analytical Results Summary.xlsx\]Sub-Slab Vapor Analytical Results Sub-Slab Vapor Analytical$

 Created by:
 REL
 Date:
 2/13/2024

 Last revision by:
 REO
 Date:
 2/14/2024

 Checked by:
 AJR
 Date:
 2/14/2024

 Proj Mgr QA/QC:
 REL
 Date:
 2/16/2024

Table 2. Indoor Air Analytical Results Summary Findley Adhesives, Milwaukee, Wisconsin / SCS Engineers Project #25222269.06

(Results are in μ g/m³)

Sample	Location	Sample Start Date	Sample End Date	Lab Notes	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10B_IAB_05_20240122	2727 N. 29th St., Basement	1/10/2024	1/22/2024	(1)	<0.702	<0.872	<0.543	<0.654	<0.355
10B_IA1_06_20240122	2727 N. 29th St., First Floor	1/10/2024	1/22/2024	(1)	<0.703	<0.873	<0.544	<0.655	<0.356
Indoor Air Vapor Action L	evel (Residential Building)				42	2.1	42	42	1.7
Indoor Air Vapor Action L	evel (Commercial/Industrial Bui	lding)			180	8.8	180	180	28

Abbreviations:

μg/m³ = micrograms per cubic meter trans-1,2-DCE = trans-1,2-dichloroethene cis-1,2-DCE = cis-1,2-dichloroethene

-- = Not Applicable

Notes:

- 1. Samples were collected using passive sorbent samplers analyzed using EPA Method TO-17.
- 2. Indoor Air Vapor Action Levels are from Wisconsin Department of Natural Resources' WI Vapor Quick Look-Up Table, which is based on August 2023 U.S. EPA Regional Screening Level Tables.
- 3. **Bold+underlined** values meet or exceed Indoor Air Vapor Action Levels.

Lab Notes/Qualifiers:

- J = Value reported below limit of quantitation (LOQ).
- (1) All non-detected analytes = 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.

I:\25222269.00\25222269.06 Findley_Deliverables\Results Notification\2727 N 29th\[Table 2_Indoor Air Analytical Results Summary.xlsx]Indoor Air

 Created by: REL
 Date: 2/13/2024

 Last revision by: REO
 Date: 2/15/2024

 Checked by: LMH
 Date: 2/16/2024

 Proj Mgr QA/QC: REL
 Date: 2/16/2024

Figure 1
Vapor Investigation Map

2727 N. 29TH ST. **BASEMENT LEVEL WATER HEATER FURNACE** IAB-05-WASHER/DRYER SSV-06 **WATER METER** -SSV-05 **FLOOR DRAIN** -IA1-06 **BATHROOM STAIRS** 1ST FLOOR SEWER PIPE **WORK BENCH** Ν NOTE: 1. BUILDING DETAILS AND SAMPLE LOCATIONS ARE APPROXIMATE. **LEGEND** SUB-SLAB SAMPLE LOCATION 0 8 BASEMENT INDOOR AIR SAMPLE LOCATION 1ST FLOOR INDOOR AIR SAMPLE LOCATION SCALE: 1" = 8'FINDLEY ADHESIVES, SITE ID #10 WISCONSIN DEPARTMENT OF NATURAL RESOURCES 2727 N. 29TH STREET, MILWAÜKEE VAPOR INVESTIGATION MAP PROPERTY SAMPLE IDENTIFIER B PROJECT NO. 25222269.06 DRAWN BY: **FIGURE** SCS ENGINEERS DRAWN: 01/08/2024 CHECKED BY: REL 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 1 REVISED: 02/23/2024 APPROVED BY: REL (02/23/2024)

Attachment A Laboratory Reports



Beacon Environmental

526 Underwood Lane Bel Air, MD 21014 USA 1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 231222R02 Laboratory Work Order: 0007499

Project Description:

Findley Adhesives Milwaukee, WI

Client PO No.: 25222269.06-002

Prepared for:
Jacob Krause
SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751

Ryan W. Schneider Senior Project Manager

February 13, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan 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

teven Thornley

Peter B. Kelly Quality Manager

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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0007499-01 Sampler Type:	10B_SSV_05_20240122 Beacon Passive Sampler	01/31/2024	EPA 8260C	Soil Gas
0007499-02 Sampler Type:	10B_SSV_06_20240122 Beacon Passive Sampler	01/31/2024	EPA 8260C	Soil Gas

Project Completeness

Samples Received: 2 Samples Analyzed: 2



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Case Narrative

U.S. EPA Method 8260C

All samples were analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260C, with laboratory results provided in nanograms (ng) and micrograms per cubic meter ($\mu g/m^3$). Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method 8260C. Analyses and reporting were under BEACON's Quality Assurance Project Plan.

Passive Soil-Gas Survey Notes

If sample locations are covered with or near the edge of an impervious surface (e.g., asphalt or concrete), the concentrations of compounds in soil gas are higher than if the surfacing was not present. Therefore, the sample location conditions should be considered when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate information from both investigations (e.g., depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times).

Reporting Limits

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. All reported results are within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. Beacon determined uptake rates for a suite of compounds with the Beacon sampler for sampling in air. Beacon calculated the uptake rates for the remaining compounds using Graham's Law of Diffusion. The reported data includes LOQ limits.

Project Details

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.



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Analytical Results



526 Underwood Lane Bel Air, MD 21014 USA 1.410.838.8780

SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Detailed Analytical Results



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Detailed Analytical Results- Mass



526 Underwood Lane Bel Air, MD 21014 USA 1.410.838.8780

SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

 Lab Sample ID:
 0007499-01
 10B_SSV_05_20240122
 Method:
 EPA 8260C

 Soil Gas

Analyte	CAS#	Resul		LOQ (ng)	Analyzed	File ID
Vinyl Chloride	75-01-4	<1	0	10	02/13/2024 02:19	Kc24021208.D
trans-1,2-Dichloroethene	156-60-5	<1	0	10	02/13/2024 02:19	Kc24021208.D
cis-1,2-Dichloroethene	156-59-2	<1	0	10	02/13/2024 02:19	Kc24021208.D
Trichloroethene	79-01-6	<1	0	10	02/13/2024 02:19	Kc24021208.D
Tetrachloroethene	127-18-4	<1	0	10	02/13/2024 02:19	Kc24021208.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	97.7%	70-130		02/13/2024 02:19	Kc24021208.D
Surrogate: Toluene-d8	2037-26-5	91.1%	70-130		02/13/2024 02:19	Kc24021208.D
Surrogate: Bromofluorobenzene	460-00-4	90.5%	70-130		02/13/2024 02:19	Kc24021208.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

 Lab Sample ID:
 0007499-02
 10B_SSV_06_20240122
 Method:
 EPA 8260C

 Soil Gas
 Soil Gas

Analyte	CAS#	Resu (ng	lt g) Q	LOQ (ng)	Analyzed	File ID
Vinyl Chloride	75-01-4	<1	10	10	02/13/2024 02:47	Kc24021209.D
trans-1,2-Dichloroethene	156-60-5	<1	10	10	02/13/2024 02:47	Kc24021209.D
cis-1,2-Dichloroethene	156-59-2	<1	10	10	02/13/2024 02:47	Kc24021209.D
Trichloroethene	79-01-6	<1	10	10	02/13/2024 02:47	Kc24021209.D
Tetrachloroethene	127-18-4	<1	10	10	02/13/2024 02:47	Kc24021209.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	97.3%	70-130		02/13/2024 02:47	Kc24021209.D
Surrogate: Toluene-d8	2037-26-5	95.7%	70-130		02/13/2024 02:47	Kc24021209.D
Surrogate: Bromofluorobenzene	460-00-4	86.7%	70-130		02/13/2024 02:47	Kc24021209.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Detailed Analytical Results- Concentration



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

 Lab Sample ID:
 0007499-01
 10B_SSV_05_20240122
 Method:
 EPA 8260C

 Soil Gas

		Resu	114	LOO		
Analyte	CAS#	(μg/m		(μg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.7	71	0.71	02/13/2024 02:19	Kc24021208.D
trans-1,2-Dichloroethene	156-60-5	<1.3	32	1.32	02/13/2024 02:19	Kc24021208.D
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.09		02/13/2024 02:19	Kc24021208.D
Trichloroethene	79-01-6	<1.7	75	1.75	02/13/2024 02:19	Kc24021208.D
Tetrachloroethene	127-18-4	<1.4	41	1.41	02/13/2024 02:19	Kc24021208.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	97.7%	70-130		02/13/2024 02:19	Kc24021208.D
Surrogate: Toluene-d8	2037-26-5	91.1%	70-130		02/13/2024 02:19	Kc24021208.D
Surrogate: Bromofluorobenzene	460-00-4	90.5%	70-130		02/13/2024 02:19	Kc24021208.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

 Lab Sample ID:
 0007499-02
 10B_SSV_06_20240122
 Method:
 EPA 8260C

 Soil Gas

		Resu	ılt	LOQ		
Analyte	CAS#		n³) Q	(μg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.	71	0.71	02/13/2024 02:47	Kc24021209.D
trans-1,2-Dichloroethene	156-60-5	<1	32	1.32	02/13/2024 02:47	Kc24021209.D
cis-1,2-Dichloroethene	156-59-2	<1.0	09	1.09	02/13/2024 02:47	Kc24021209.D
Trichloroethene	79-01-6	<1.	75	1.75	02/13/2024 02:47	Kc24021209.D
Tetrachloroethene	127-18-4	<1.4	41	1.41	02/13/2024 02:47	Kc24021209.D
Analyte	CAS#	% Recovery	Recovery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	97.3%	70-130		02/13/2024 02:47	Kc24021209.D
Surrogate: Toluene-d8	2037-26-5	95.7%	70-130		02/13/2024 02:47	Kc24021209.D
Surrogate: Bromofluorobenzene	460-00-4	86.7%	70-130		02/13/2024 02:47	Kc24021209.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

QC Information/Summary



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013016.D

B24A120-ICV1 (LCSD/Second Source Verification/CALV)

				Spike	Source		%REC		RPD	
Analyte	Result	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	53.7	10	ng	50.0		107	70-130			
trans-1,2-Dichloroethene	52.6	10	ng	50.0		105	70-130			
cis-1,2-Dichloroethene	50.6	10	ng	50.0		101	70-130			
Trichloroethene	49.6	10	ng	50.0		99.2	70-130			
Tetrachloroethene	46.3	10	ng	50.0		92.5	70-130			
Surrogate: 1,2-DCA-d4	51.5		ng	50.0		103	70-130			
Surrogate: Toluene-d8	50.1		ng	50.0		100	70-130			
Surrogate: Bromofluorobenzene	45.9		ng	50.0		91.9	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013020.D

B24A120-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	104		ng	100		104	70-130			
Surrogate: Toluene-d8	101		ng	100		101	70-130			
Surrogate: Bromofluorobenzene	91.4		ng	100		91.4	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24B025 - Batch: 24B0019 - Instrument: K System - File ID: Kc24021202.D

24B0019-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	55.1	10	ng	50.0		110	80-120			
trans-1,2-Dichloroethene	53.6	10	ng	50.0		107	80-120			
cis-1,2-Dichloroethene	49.2	10	ng	50.0		98.4	80-120			
Trichloroethene	47.1	10	ng	50.0		94.2	80-120			
Tetrachloroethene	43.8	10	ng	50.0		87.6	80-120			
Surrogate: 1,2-DCA-d4	55.2		ng	50.0		110	70-130			
Surrogate: Toluene-d8	51.2		ng	50.0		102	70-130			
Surrogate: Bromofluorobenzene	45.4		ng	50.0		90.8	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24B025 - Batch: 24B0019 - Instrument: K System - File ID: Kc24021203.D

24B0019-BLK1 (Lab Blank)

				Spike	Source		%REC		RPD	
Analyte	Result	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	< 0.715	0.715	μg/m³							U
trans-1,2-Dichloroethene	<1.32	1.32	$\mu g/m^3$							U
cis-1,2-Dichloroethene	<1.09	1.09	$\mu g/m^3$							U
Trichloroethene	<1.75	1.75	$\mu g/m^3$							U
Tetrachloroethene	<1.41	1.41	$\mu g/m^3$							U
Surrogate: 1,2-DCA-d4	108		ng	100		108	70-130			
Surrogate: Toluene-d8	102		ng	100		102	70-130			
Surrogate: Bromofluorobenzene	86.5		ng	100		86.5	70-130			



526 Underwood Lane Bel Air, MD 21014 USA 1.410.838.8780

SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24B025 - Batch: 24B0019 - Instrument: K System - File ID: Kc24021203.D

24B0019-BLK1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	108		ng	100		108	70-130			
Surrogate: Toluene-d8	102		ng	100		102	70-130			
Surrogate: Bromofluorobenzene	86.5		ng	100		86.5	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24B025 - Instrument: K System - File ID: Kc24021204.D

B24B025-ICV1 (LCSD/Second Source Verification/CALV)

				Spike	Source		%REC		RPD	
Analyte	Result	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	55.6	10	ng	50.0		111	70-130			
trans-1,2-Dichloroethene	53.3	10	ng	50.0		107	70-130			
cis-1,2-Dichloroethene	50.7	10	ng	50.0		101	70-130			
Trichloroethene	49.1	10	ng	50.0		98.1	70-130			
Tetrachloroethene	45.2	10	ng	50.0		90.4	70-130			
Surrogate: 1,2-DCA-d4	54.1		ng	50.0		108	70-130			
Surrogate: Toluene-d8	51.8		ng	50.0		104	70-130			
Surrogate: Bromofluorobenzene	43.3		ng	50.0		86.6	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24B025 - Instrument: K System - File ID: Kc24021212.D

B24B025-CCV1 (LCS, Closing Calibration Verification)

				Spike	Source		%REC		RPD	
Analyte	Result	LOQ	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	53.8	10	ng	50.0		108	50-150			
trans-1,2-Dichloroethene	51.4	10	ng	50.0		103	50-150			
cis-1,2-Dichloroethene	49.5	10	ng	50.0		99.0	50-150			
Trichloroethene	47.1	10	ng	50.0		94.2	50-150			
Tetrachloroethene	42.5	10	ng	50.0		85.0	50-150			
Surrogate: 1,2-DCA-d4	53.4		ng	50.0		107	70-130			
Surrogate: Toluene-d8	51.3		ng	50.0		103	50-150			
Surrogate: Bromofluorobenzene	43.5		ng	50.0		87.1	50-150			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24B025 - Instrument: K System - File ID: Kc24021213.D

B24B025-CCB1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	107		ng	100		107	70-130			
Surrogate: Toluene-d8	101		ng	100		101	70-130			
Surrogate: Bromofluorobenzene	87.4		ng	100		87.4	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24B025 - Instrument: K System - File ID: Kc24021220.D

B24B025-CCB2 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Trichloroethene	<5	10	ng							U
Tetrachloroethene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	108		ng	100		108	70-130			
Surrogate: Toluene-d8	103		ng	100		103	70-130			
Surrogate: Bromofluorobenzene	86.7		ng	100		86.7	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Additional QC Information

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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Sample Result Calculation Summary (Concentration) EPA 8260C

DF

	Analyte		Sampling Time minutes	Dilution Factor	Uptake Rate	Initial Result	Calculated Result	File ID	
Lab I	D: 0007499-01	Sample Name: 10	B_SSV_05_2024	0122			1.0)
	Vinyl Chloride		17,279	1.00	0.810	U	U	Kc24021208.D	
	trans-1,2-Dichloroethene		17,279	1.00	0.440	U	U	Kc24021208.D	
	cis-1,2-Dichloroethene		17,279	1.00	0.530	U	U	Kc24021208.D	ĺ
	Trichloroethene		17,279	1.00	0.330	U	U	Kc24021208.D	
	Tetrachloroethene		17,279	1.00	0.410	U	U	Kc24021208.D	

Lab I	D: 0007499-02 Sample Name: 10	B_SSV_06_2024	0122				
	Vinyl Chloride	17,275	1.00	0.810	U	U	Kc24021209.D
	trans-1,2-Dichloroethene	17,275	1.00	0.440	U	U	Kc24021209.D
	cis-1,2-Dichloroethene	17,275	1.00	0.530	U	U	Kc24021209.D
	Trichloroethene	17,275	1.00	0.330	U	U	Kc24021209.D
	Tetrachloroethene	17,275	1.00	0.410	U	U	Kc24021209.D

Calculations:

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

where: C = concentration $(\mu g/m^3)$

M = mass (ng) DF = dilution factor

t = sampling time (minutes)
U = compound specific uptake rate

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

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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Method Detection and Reporting Limit Calculations (Concentration) EPA 8260C

	Analyte	t Sampling Time minutes	DF Dilution Factor	U Uptake Rate	M Initial LOQ ng	C Calculated LOQ μg/m³	
Lab ID: 00074	99-01 Sample Name: 10B_S	SSV_05_2024012	2				
	Vinyl Chloride	17,279	1.00	0.810	10.0	0.71	
	trans-1,2-Dichloroethene	17,279	1.00	0.440	10.0	1.32	
	cis-1,2-Dichloroethene	17,279	1.00	0.530	10.0	1.09	
	Trichloroethene	17,279	1.00	0.330	10.0	1.75	
	Tetrachloroethene	17,279	1.00	0.410	10.0	1.41	

Lab ID: 0007499-02											
Vinyl Chloride	17,275	1.00	0.810	10.0	0.71						
trans-1,2-Dichloroethene	17,275	1.00	0.440	10.0	1.32						
cis-1,2-Dichloroethene	17,275	1.00	0.530	10.0	1.09						
Trichloroethene	17,275	1.00	0.330	10.0	1.75						
Tetrachloroethene	17.275	1.00	0.410	10.0	1.41						



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SCS EngineersSite Name:Findley Adhesives2830 Dairy DriveSite Location:Milwaukee, WIMadison, WI 53718-6751Project Manager:Jacob Krause

Beacon Proposal: 231222R02 **Lab Work Order:** 0007499 **Reported:** 02/13/2024

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	12/30/2024	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2024	
Utah-NELAC	MD010912023-14	Utah Department of Health	12/31/2024	



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

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

RPD Relative Percent Difference RT Retention Times in Minutes

RRT Evaluation of Relative Retention Times in RRT Units (qualified if outside ±0.06 control limits)

3σ Uncertainty

∉ Compound not on scope of accreditation

+ values are outside method/contract required QC limits

Ø Compound not on scope of accreditation and analyzed with a one-point calibration



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R022830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007499Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/13/2024

Sample Management Records



PASSIVE SOIL GAS SAMPLES

CHAIN-OF-CUSTODY

Project In	formation				CI	ient Information	
Site Name:			Company Name:	SCS Engine	ers	Project Manager	Robert Langdon
Findley A	dhesiv	es	Office Location: 2	2830 Dairy D	rive, Madison, WI	Client PO: 252	222269.06
Site Location:			Submitted by: R	obert Langd	on	Turn around time	_
2727 N. 2	29th St.	ID:10B	Email: rlangdo	on@scsngin	eers.com	Normal	Rush (specify) days
Field Sample ID	Start Date	Start Time	Stop Date	Stop Time	Sampling Hole Depth cm 🔀 inches	Surface Type (Soil, Asp Concrete, Gravel)	halt, Optional Information (Location Description, Sample Condition, PID / FID Readings, etc)
10B_SSV_05_20240138	01/10/24	1701	11/29/24	1700	611	Concrete Slab	Sub-Slab 05
10B_SSV_06_20240118		1713	01/20/24	1708	511	Concrete Slab	Sub-Slab 06
Special Instructions: Short Ji	et						
Relinquisher by (signature)	31	Date / Time:	soku	1500	Received by (signature):	Mich Wil,	Date / Time: 1 31 24 12:00
Relinquished by (signature)		Date / Time:	1		Received by (signature):		Date / Time:
For Lab Use Only		Beacon Job No:	7499		Beacon Proposal:	231222R0x2	Analytical Method:
Courier Name: FedEx		Shipment Condition			Custody Seal Intact: Yes No	× n/a	Custody Seal No:



Beacon Environmental

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CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 231222R04 Laboratory Work Order: 0007503

Project Description:

Findley Adhesives Milwaukee, WI

Client PO No.: 2522269.06-004

Prepared for:
Jacob Krause
SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751

Ryan W. Schneider Senior Project Manager

February 14, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan 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

teven hornley

Peter B. Kelly Quality Manager

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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0007503-01 Sampler Type:	10B_IAB_05_20240122 Beacon Passive Sampler	01/31/2024	TO-17 (Passive)	Indoor Air
0007503-02 Sampler Type:	10B_IA1_06_20240122 Beacon Passive Sampler	01/31/2024	TO-17 (Passive)	Indoor Air

Project Completeness

Samples Received: 2 Samples Analyzed: 2



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Case Narrative

Beacon Environmental provided thermally conditioned Beacon Samplers 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 $\pm 30\%$ 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.



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Analytical Results



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Detailed Analytical Results



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Lab Sample ID: 0007503-01 10B_IAB_05_20240122 Method: TO-17 (Passive)

Indoor Air

Analyte	CAS#	Result (µg/m³)		LOD $(\mu g/m^3)$	LOQ (μg/m³)	Analyzed	File ID
Timatyce	CHSII	(48,)	· ·	(((((((((((((((((((((F6)	Amaryzed	THE ID
Vinyl Chloride	75-01-4	< 0.355	U	0.355	0.711	02/12/2024 18:35	Kb24021208.D
trans-1,2-Dichloroethene	156-60-5	< 0.654	U	0.654	1.31	02/12/2024 18:35	Kb24021208.D
cis-1,2-Dichloroethene	156-59-2	< 0.543	U	0.543	1.09	02/12/2024 18:35	Kb24021208.D
Trichloroethene	79-01-6	< 0.872	U	0.872	1.74	02/12/2024 18:35	Kb24021208.D
Tetrachloroethene	127-18-4	< 0.702	U	0.702	1.40	02/12/2024 18:35	Kb24021208.D
Analyte	CAS#	% Recovery	Recov	ery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	105%	70	0-130		02/12/2024 18:35	Kb24021208.D
Surrogate: Toluene-d8	2037-26-5	98.2%	70	0-130		02/12/2024 18:35	Kb24021208.D
Surrogate: Bromofluorobenzene	460-00-4	90.6%	70	0-130		02/12/2024 18:35	Kb24021208.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Indoor Air

		Result		LOD	LOQ		
Analyte	CAS#	$(\mu g/m^3)$	Q	$\left(\mu g/m^3\right)$	$(\mu g/m^3)$	Analyzed	File ID
Vinyl Chloride	75-01-4	< 0.356	U	0.356	0.712	02/12/2024 19:03	Kb24021209.D
trans-1,2-Dichloroethene	156-60-5	< 0.655	U	0.655	1.31	02/12/2024 19:03	Kb24021209.D
cis-1,2-Dichloroethene	156-59-2	< 0.544	U	0.544	1.09	02/12/2024 19:03	Kb24021209.D
Trichloroethene	79-01-6	< 0.873	U	0.873	1.75	02/12/2024 19:03	Kb24021209.D
Tetrachloroethene	127-18-4	< 0.703	U	0.703	1.41	02/12/2024 19:03	Kb24021209.D
Analyte	CAS#	% Recovery	Recov	ery Limits	Q	Analyzed	File ID
Surrogate: 1,2-DCA-d4	17060-07-0	103%	70	0-130		02/12/2024 19:03	Kb24021209.D
Surrogate: Toluene-d8	2037-26-5	98.4%	70	0-130		02/12/2024 19:03	Kb24021209.D
Surrogate: Bromofluorobenzene	460-00-4	91.6%	70	0-130		02/12/2024 19:03	Kb24021209.D



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

QC Information/Summary



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013016.D

B24A120-ICV1 (LCSD/Second Source Verification/CALV)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	53.7	10	5	ng	50.0		107	70-130			
trans-1,2-Dichloroethene	52.6	10	5	ng	50.0		105	70-130			
cis-1,2-Dichloroethene	50.6	10	5	ng	50.0		101	70-130			
Trichloroethene	49.6	10	5	ng	50.0		99.2	70-130			
Tetrachloroethene	46.3	10	5	ng	50.0		92.5	70-130			
Surrogate: 1,2-DCA-d4	51.5			ng	50.0		103	70-130			
Surrogate: Toluene-d8	50.1			ng	50.0		100	70-130			
Surrogate: Bromofluorobenzene	45.9			ng	50.0		91.9	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013020.D

B24A120-ICB1 (Lab Blank/Initial Calibration Blank)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
Surrogate: 1,2-DCA-d4	104			ng	100		104	70-130			
Surrogate: Toluene-d8	101			ng	100		101	70-130			
Surrogate: Bromofluorobenzene	91.4			ng	100		91.4	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24B024 - Batch: 24B0018 - Instrument: K System - File ID: Kb24021203.D

24B0018-BLK1 (Lab Blank)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	< 0.355	0.711	0.355	$\mu g/m^3$							U
trans-1,2-Dichloroethene	< 0.654	1.31	0.654	$\mu g/m^3$							U
cis-1,2-Dichloroethene	< 0.543	1.09	0.543	$\mu g/m^3$							U
Trichloroethene	< 0.872	1.74	0.872	$\mu g/m^3$							U
Tetrachloroethene	< 0.702	1.40	0.702	$\mu g/m^3$							U
Surrogate: 1,2-DCA-d4	105			ng	100		105	70-130			
Surrogate: Toluene-d8	102			ng	100		102	70-130			
Surrogate: Bromofluorobenzene	89.9			ng	100		89.9	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24B024 - Instrument: K System - File ID: Kb24021204.D

B24B024-ICV1 (LCSD/Second Source Verification/CALV)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	45.6	10	5	ng	50.0		91.2	70-130			
trans-1,2-Dichloroethene	53.8	10	5	ng	50.0		108	70-130			
cis-1,2-Dichloroethene	50.3	10	5	ng	50.0		101	70-130			
Trichloroethene	48.7	10	5	ng	50.0		97.4	70-130			
Tetrachloroethene	46.4	10	5	ng	50.0		92.7	70-130			
Surrogate: 1,2-DCA-d4	53.2			ng	50.0		106	70-130			
Surrogate: Toluene-d8	52.4			ng	50.0		105	70-130			
Surrogate: Bromofluorobenzene	44.0			ng	50.0		87.9	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24B024 - Batch: 24B0018 - Instrument: K System - File ID: Kb24021205.D

24B0018-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	LOD	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	51.7	10	5	ng	50.0		103	70-130			
trans-1,2-Dichloroethene	50.8	10	5	ng	50.0		102	70-130			
cis-1,2-Dichloroethene	48.6	10	5	ng	50.0		97.1	70-130			
Trichloroethene	47.1	10	5	ng	50.0		94.2	70-130			
Tetrachloroethene	43.8	10	5	ng	50.0		87.7	70-130			
Surrogate: 1,2-DCA-d4	51.9			ng	50.0		104	70-130			
Surrogate: Toluene-d8	52.5			ng	50.0		105	70-130			
Surrogate: Bromofluorobenzene	44.0			ng	50.0		88.0	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24B024 - Instrument: K System - File ID: Kb24021216.D

B24B024-CCV1 (LCS, Closing Calibration Verification)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	52.4	10	5	ng	50.0		105	70-130			
trans-1,2-Dichloroethene	51.2	10	5	ng	50.0		102	70-130			
cis-1,2-Dichloroethene	48.4	10	5	ng	50.0		96.8	70-130			
Trichloroethene	47.2	10	5	ng	50.0		94.4	70-130			
Tetrachloroethene	43.0	10	5	ng	50.0		86.0	70-130			
Surrogate: 1,2-DCA-d4	53.5			ng	50.0		107	70-130			
Surrogate: Toluene-d8	52.2			ng	50.0		104	70-130			
Surrogate: Bromofluorobenzene	44.2			ng	50.0		88.3	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Organics in Air by EPA TO-17 Using Beacon Sampler - Quality Control Summary

Sequence: B24B024 - Instrument: K System - File ID: Kb24021217.D

B24B024-CCB1 (Lab Blank)

					Spike	Source		%REC		RPD	
Analyte	Result	LOQ	LOD	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Vinyl Chloride	<5	10	5	ng							U
trans-1,2-Dichloroethene	<5	10	5	ng							U
cis-1,2-Dichloroethene	<5	10	5	ng							U
Trichloroethene	<5	10	5	ng							U
Tetrachloroethene	<5	10	5	ng							U
Surrogate: 1,2-DCA-d4	108			ng	100		108	70-130			
Surrogate: Toluene-d8	102			ng	100		102	70-130			
Surrogate: Bromofluorobenzene	87.9			ng	100		87.9	70-130			



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

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

LCS: 24B0018-BS1 File ID: Kb24021205.D LCSD: B24B024-ICV1 File ID: Kb24021204.D Analyzed: 2/12/24 11:08 Analyzed: 2/12/24 16:53

Analyte	CAS#	LCS Result	%REC	Q	Spike Level (ng)	LCSD Result	%REC	%REC Limits	RPD	RPD Limit	Q
Vinyl Chloride	75-01-4	51.68	103.36		50	45.62	91.20	70-130	12.46	30	
trans-1,2-Dichloroethene	156-60-5	50.78	101.56		50	53.79	108.00	70-130	5.76	30	
cis-1,2-Dichloroethene	156-59-2	48.56	97.12		50	50.32	101.00	70-130	3.56	30	
Trichloroethene	79-01-6	47.08	94.16		50	48.71	97.40	70-130	3.40	30	
Tetrachloroethene	127-18-4	43.84	87.68		50	46.35	92.70	70-130	5.57	30	



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Additional QC Information

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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Sample Result Calculation Summary (Concentration)

TO-17 (Passive)

DF

	Analyte		Sampling Time Dilution minutes Factor		Uptake Initial Result Rate ng		Calculated Result µg/m³	File ID	
ab I	D: 0007503-01	Sample Name: 101	B_IAB_05_20240	0122			Ā Тетр (°C): 20.00	
	Vinyl Chloride		17,272	1.00	0.815	U	U	Kb24021208.D	

Sample Name		: 10B_IAB_05_202	240122	X Temp (°C): 20.00			
	Vinyl Chloride	17,272	1.00	0.815	U	U	Kb24021208.D
	trans-1,2-Dichloroethene	17,272	1.00	0.443	U	U	Kb24021208.D
	cis-1,2-Dichloroethene	17,272	1.00	0.533	U	U	Kb24021208.D
	Trichloroethene	17,272	1.00	0.332	U	U	Kb24021208.D
	Tetrachloroethene	17,272	1.00	0.412	U	U	Kb24021208.D

Lab I	D: 0007503-02 Sample Name: 10	B_IA1_06_20240		⊼ Temp (°C): 20.00				
	Vinyl Chloride	17,248	1.00	0.815	U	U	Kb24021209.D	
	trans-1,2-Dichloroethene	17,248	1.00	0.443	U	U	Kb24021209.D	
	cis-1,2-Dichloroethene	17,248	1.00	0.533	U	U	Kb24021209.D	
	Trichloroethene	17,248	1.00	0.332	U	U	Kb24021209.D	
	Tetrachloroethene	17,248	1.00	0.412	U	U	Kb24021209.D	

Calculations:

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

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

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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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Method Detection and Reporting Limit Calculations (Concentration) TO-17 (Passive)

	Analyte	t Sampling Time minutes	DF Dilution Factor	Uc Uptake Rate	N Initia LOQ		Calculate LOQ	C d (μg/m³) LOD	
La	Lab ID: 0007503-01 Sample Name: 10B_IAB_05_20240122								
	Vinyl Chloride	17,272	1.00	0.815	10.00	5.00	0.711	0.355	
	trans-1,2-Dichloroethene	17,272	1.00	0.443	10.00	5.00	1.31	0.654	
	cis-1,2-Dichloroethene	17,272	1.00	0.533	10.00	5.00	1.09	0.543	
	Trichloroethene	17,272	1.00	0.332	10.00	5.00	1.74	0.872	
	Tetrachloroethene	17,272	1.00	0.412	10.00	5.00	1.40	0.702	

Lab ID: 0007503-02	Sample Name:	10B_IA1_06_	20240122		X Temp (°C): 20.00					
Vinyl Chloride	17,248	1.00	0.815	10.00	5.00	0.712	0.356			
trans-1,2-Dichloroethene	17,248	1.00	0.443	10.00	5.00	1.31	0.655			
cis-1,2-Dichloroethene	17,248	1.00	0.533	10.00	5.00	1.09	0.544			
Trichloroethene	17,248	1.00	0.332	10.00	5.00	1.75	0.873			
Tetrachloroethene	17,248	1.00	0.412	10.00	5.00	1.41	0.703			



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SCS EngineersSite Name:Findley Adhesives2830 Dairy DriveSite Location:Milwaukee, WIMadison, WI 53718-6751Project Manager:Jacob Krause

Beacon Proposal: 231222R04 **Lab Work Order:** 0007503 **Reported:** 02/14/2024

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	12/30/2024	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2024	
Utah-NELAC	MD010912023-14	Utah Department of Health	12/31/2024	



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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Qualifiers/Notes and Definitions

General Definitions:

RT

DF Dilution Factor
DL Detection Limit
LOD Limit of Detection
LOQ Limit of Quantitation
NA Not Applicable
Q Qualifier

RPD Relative Percent Difference

RRT Evaluation of Relative Retention Times in RRT Units (qualified if outside ±0.06 control limits)

3σ Uncertainty

∉ Compound not on scope of accreditation

Retention Times in Minutes

+ values are outside method/contract required QC limits

Ø Compound not on scope of accreditation and analyzed with a one-point calibration

Sample/Sample Receipt Qualifiers and Notes:

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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SCS EngineersSite Name:Findley AdhesivesBeacon Proposal:231222R042830 Dairy DriveSite Location:Milwaukee, WILab Work Order:0007503Madison, WI 53718-6751Project Manager:Jacob KrauseReported:02/14/2024

Sample Management Records



2203A Commerce Rd, Suite 1 Forest Hill, MD 21050, USA 1-410-838-8780 800-878-5510 Toll Free

PASSIVE AIR SAMPLING - BEACON SAMPLER

CHAIN-OF-CUSTODY

CI	ient Information	Project Manage	Project Manager: Robert Langdon Project Name: Findley Adhesives			Client PO: 25222269.06							
Company:	SCS Engineers	Project Name:				Turn around time (fu) days			0		
Address:	2830 Dairy Drive	Location:	Location: 2727 N. 29th St. ID: 10B				Normal Rush (specify) days			ME	RAV	SE	
City / State / Zip:	Madison, WI 53718	Submitted by:	F	Robert Langdo	n	Analysis:		100000	INDOOR	AMBIENT AIR	٧٢ :	¥≡	
Phone:	608-224-2830	Email:	rlangdon@	scsengineers.	com	Method TO-	-17 Meth	od 8260C	Ř		CRAWL SPACE	SEWER GAS	
	Location ID	Start Date	Start Time	Stop Date	Stop Time	Aver Temp (C)		Notes	AIR	Ā	CE	AS	
101	B_IAB_05_20240118 22	01/10/24	1720	01/22/24	17/2	68°F	Indoo	r air, basement	Х				
	B_IA1_06_20240116 12	61/10/24	1726	1	1654	68°F	Indoo	or air, first floor	X				
				1/22/24									
									1				
Special Notes / Instru	actions:				Short lis	t							
Relinquished by (sign	nature): Z	Date / Time: /36/	24 13	500	Received by (sign	ature): Micoli	Weil	Date / Time: 1 31	124	12:0	øφ		
Relinquished by (sign	nature):	Date / Time:		1	Received by (sign		.0.7	Date / Time:					
For Lab Use	Only	Beacon Job No: 750	03		Beacon Proposal	al: 231222R03 Ч					20		
Courier Name:	FedEx	Shipment Condition:	ام		Custody Seal Inta	nct: No ☑n/a		Custody Seal No:	wa				

Attachment B WDNR Publication RR-977



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.



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.





DNR generally relies on the test results of the sub-slab soil gas samples when determining what, if any, action should be taken related to chemical vapors coming from nearby soil or groundwater contamination. Indoor air quality is highly variable, and it is difficult to make a definitive decision about vapor intrusion based on indoor air sampling alone.

Follow-Up Actions

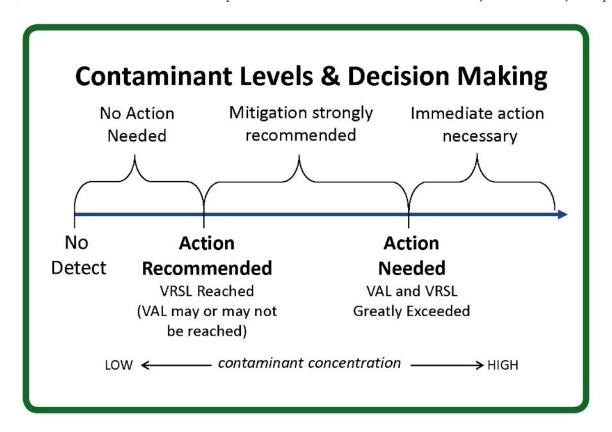
If your test results are less than a VAL for indoor air, or a VRSL for sub-slab soil gas, then the air in the house or building should not present a health concern. Follow-up sampling and testing may be necessary to confirm the results, but no other action is typically suggested.

When test results show soil gas chemical concentrations above a VRSL, both DNR and the Wisconsin Department of

Health Services recommend that owners take action to reduce potential exposure. This typically involves installing a vapor mitigation system that vents chemical vapors from beneath your home or building to the outdoors, similar to a radon mitigation system.

If indoor air concentrations exceed a VAL, but sub-slab concentrations are less than a VRSL, then the chemical vapors are most likely coming from indoor sources. Steps should be taken by the house or building owner to identify the products and practices causing the problem and implement appropriate remedies.

If soil gas mitigation is recommended, a representative of the party who is responsible for the soil or groundwater contamination will contact you to discuss your options.



<u>A Note about Measurement Units:</u> The lab report may include some unfamiliar technical language. The most important point to note is whether or not the test result for a specific chemical exceeds a VAL or VRSL, which are also sometimes referred to, generically, as "screening levels."

The concentration of gaseous pollutants in air is typically described in two different ways: 1) as units of mass per volume, where $\mu g/m3$ represents micrograms of gaseous pollutant per cubic meter of ambient air; and 2) as parts per billion by volume (ppbv), where the volume of a gaseous pollutant is compared to a set volume of ambient air. These are the numbers that are compared to the VAL and VRSL.

For more information, visit dnr.wi.gov/topic/Brownfields/Vapor.html

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions. The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.