

# **ASBESTOS INSPECTION REPORT**

217 4th Ave NW Oelwein, IA



Project Report Dated: June 10, 2022



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# A. ASBESTOS INSPECTION REPORT DATA

### 1. LOCATION

Residential Property 217 4th Ave NW Oelwein, Iowa

# 2. CLIENT CONTACT

Dylan Mulfinger City Administrator City of Oelwein, Iowa

# 3. DATE(s) OF INSPECTION

June 6th, 2022

### 4. FIRM PERFORMING INSPECTION

Hawkeye Environmental 814 Wood Lily Road Solon, IA 52333

#### 5. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Eurofins CEI 730 SE Maynard Road Cary, North Carolina, 27511

#### 6. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program) Lab Code: 103025



#### **B. SCOPE OF WORK**

### **Methods and Procedures:**

The property located at 217 4th Ave NW, Oelwein, Iowa was inspected prior to scheduled demolition activities which may disturb asbestos-containing building materials in accordance with NESHAPS (National Emission Standards for Hazardous Air Pollutants) regulations. Field sampling methods were based on (NESHAPS) National Emission Standards for Hazardous Air Pollutants) protocols. Representative samples of suspect building materials were taken from Homogeneous Areas (HA-defined as similar in age, appearance, and function). The purpose of this inspection was to identify quantities and locations of asbestos-containing building materials prior to demolition of the structures. Bulk samples of suspect asbestoscontaining materials (ACM) were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and NESHAPs. Each sample was analyzed for the six different types of fibrous asbestos forms, of which a percentage, by volume, is estimated and summarized. If further analysis and quantification is warranted, this analysis is performed by EPA 600/R-93/116 with 400 or 600 Point Count Procedure. Further analysis of samples may also be performed at the client's request using Transmission Electron Microscopy (TEM). Sample analysis was performed by Eurofins CEI. Eurofins is accredited by the National Institute for Standards and Technology for Polarized Light Microscopy analysis under their NVLAP (National Voluntary Lab Accreditation Program).

Asbestos-Containing Building Materials (ACBM)s and their control during renovation or demolition activities are regulated in Iowa by the Iowa Department of Natural Resources. Specific questions about testing or abatement activities may be directed to Mr. Tom Wuehr, Iowa DNR - Air Quality Division. <a href="mailto:Tom.Wuehr@DNR.Iowa.gov">Tom.Wuehr@DNR.Iowa.gov</a> 515-494-8212 Additional forms, guidance, and technical information regarding asbestos can be found on the DNR website at:

http://www.iowadnr.gov/air/prof/asbestos/asbestos.html



#### **INSPECTION NOTES**

In accordance with your request and authorization Hawkeye Environmental, LLC has performed an asbestos survey for the project referenced above. It is our understanding that the subject property will be demolished. Demolition has the potential to disturb all building materials. This survey intends to determine if any of the materials with the potential for disturbance are asbestos-containing.

The structure is a single-family home that is vacant. The property is in poor condition for its age and state of use.

Roof or roofing systems were sampled and included in this report.

A representative number of samples were collected from all suspect asbestos building materials.



# C. SUMMARY OF ASBESTOS BUILDING MATERIALS

### 217 4th Ave NW

### **Surfacing Materials**

<u>Material</u>	Description	<u>Location</u>	Quantity
None			

# **Thermal Systems Insulation**

<u>Material</u>	Description	<u>Location</u>	Quantity
Duct Paper	Gray	Basement Ductwork	80 LF

# **Miscellaneous Materials**

<u>Material</u>	<u>Description</u>	<u>Location</u>	<b>Quantity</b>
Window Glazing	Gray	All Windows	23 windows
Cement Siding	Tan	Exterior	1,400 SF
Floor Tile (no mastic)	Gray	Front Porch	150 SF
Linoleum (w/ mastic)	Tan(beige)	Kitchen (under sub floor)	125 SF

Quantities supplied are estimates. Contractors must field verify all material quantities, locations, and conditions.



# **BULK SAMPLE ANALYSIS**

217 4th Ave NW Oelwein, Iowa



June 8, 2022

Hawkeye Environmental 814 Wood Lily Road Solon, IA 52333

**CLIENT PROJECT:** City of Oelwein, 217 4th Ave. NW, Oelwein

CEI LAB CODE: A225783

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 7, 2022. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH Laboratory Director

Munsas Da.





# **ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy**

# **Prepared for**

# **Hawkeye Environmental**

CLIENT PROJECT: City of Oelwein, 217 4th Ave. NW, Oelwein

LAB CODE: A225783

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE:

TOTAL SAMPLES ANALYZED: 27

# SAMPLES >1% ASBESTOS: 9



# **Asbestos Report Summary**

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 217 4th Ave. NW, LAB CODE: A225783

Oelwein

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		A225783.01	Black,Gray	Shingle	None Detected
002		A225783.02	Black	Tarpaper	None Detected
003		A225783.03	Black,Gray	Shingle	None Detected
004		A225783.04	Black	Tarpaper	None Detected
005		A225783.05	Black,Gray	Rolled Roofing	None Detected
006		A225783.06	Off-white,Gray	Duct Paper	Chrysotile 65%
007		A225783.07	Gray,White	Cementitious Siding	Chrysotile 15%
008		A225783.08	Silver,Brown	Vapor Barrier	None Detected
009		A225783.09	White,Blue	Window Glazing	Chrysotile 2%
010		A225783.10	White	Window Glazing	Chrysotile 2%
011		A225783.11	White,Brown	Ceiling Tile	None Detected
012		A225783.12A	White,Gray	Countertop	None Detected
		A225783.12B	Brown	Mastic	None Detected
013		A225783.13A	White,Tan	Linoleum	None Detected
		A225783.13B	Yellow	Mastic	None Detected
		A225783.13C	Tan,Brown	Linoleum	Chrysotile 20%
		A225783.13D	Yellow	Mastic	Chrysotile 2%
014		A225783.14A	Tan,Brown	Linoleum	Chrysotile 20%
		A225783.14B	Beige	Mastic	Chrysotile 2%
015		A225783.15A	Gray	Linoleum	None Detected
		A225783.15B	Clear	Mastic	None Detected
016		A225783.16A	Tan	Floor Tile	None Detected
017		A225783.17	Black	Mastic	None Detected
018		A225783.18	Off-white	Floor Tile	Chrysotile 3%
019		A225783.19	Yellow	Mastic	None Detected
020		A225783.20	White,Tan	Drywall/Joint Compound	None Detected
021		A225783.21	White,Gray	Insulation	None Detected
022		A225783.22	Tan	Plaster	None Detected
023		A225783.23	White,Blue	Plaster Skim Coat	None Detected
024		A225783.24	Tan	Plaster	None Detected
025		A225783.25	White,Blue	Plaster Skim Coat	None Detected



# **Asbestos Report Summary**

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 217 4th Ave. NW, LAB CODE: A225783

Oelwein

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
026		A225783.26	Tan	Plaster	None Detected
027		A225783.27	White	Plaster Skim Coat	None Detected



By: POLARIZING LIGHT MICROSCOPY

**Client:** Hawkeye Environmental

814 Wood Lily Road Solon, IA 52333 Lab Code: A225783 Date Received: 06-07-22

Date Analyzed: 06-08-22

**Date Reported:** 

Project: City of Oelwein, 217 4th Ave. NW, Oelwein

Client ID	Lab	Lab	NO	N-ASBESTOS	COMPO	NENTS	ASBESTOS
Lab ID	Description	Attributes	Fibr	ous	Non-l	ibrous	%
<b>001</b> A225783.01	Shingle	Heterogeneous Black,Gray Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
<b>002</b> A225783.02	Tarpaper	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
<b>003</b> A225783.03	Shingle	Heterogeneous Black,Gray Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
<b>004</b> A225783.04	Tarpaper	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
<b>005</b> A225783.05	Rolled Roofing	Heterogeneous Black,Gray Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
<b>006</b> A225783.06	Duct Paper	Homogeneous Off-white,Gray Fibrous Loosely Bound	10%	Cellulose	25%	Binder	65% Chrysotile
<b>007</b> A225783.07	Cementitious Siding	Heterogeneous Gray,White Fibrous Bound			85% <1%	Binder Paint	15% Chrysotile



By: POLARIZING LIGHT MICROSCOPY

**Client:** Hawkeye Environmental

814 Wood Lily Road Solon, IA 52333 Lab Code: A225783 Date Received: 06-07-22

Date Analyzed: 06-08-22

**Date Reported:** 

Project: City of Oelwein, 217 4th Ave. NW, Oelwein

Client ID Lab ID	Lab Description	Lab Attributes	NOI Fibr	N-ASBESTOS ous		NENTS Fibrous	ASBESTOS %
<b>008</b> A225783.08	Vapor Barrier	Heterogeneous Silver,Brown Fibrous Bound	80%	Cellulose	15% 5%	Metal Foil Tar	None Detected
<b>009</b> A225783.09	Window Glazing	Heterogeneous White,Blue Non-fibrous Bound			98% <1%	Binder Paint	2% Chrysotile
<b>010</b> A225783.10	Window Glazing	Heterogeneous White Non-fibrous Bound			98% <1%	Binder Paint	2% Chrysotile
<b>011</b> A225783.11	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
<b>012</b> A225783.12A	Countertop	Heterogeneous White,Gray Non-fibrous Bound			100%	Vinyl	None Detected
A225783.12B	Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
<b>013</b> A225783.13A	Linoleum	Heterogeneous White,Tan Fibrous Bound	20% 10%	Cellulose Fiberglass	50% 20%	Vinyl Binder	None Detected



By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental

814 Wood Lily Road Solon, IA 52333 Lab Code: A225783 Date Received: 06-07-22

Date Analyzed: 06-08-22

**Date Reported:** 

Project: City of Oelwein, 217 4th Ave. NW, Oelwein

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPO Fibrous Non-			NENTS ibrous	ASBESTOS %
A225783.13B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
A225783.13C	Linoleum	Heterogeneous Tan,Brown Fibrous Bound	5%	Cellulose	50% 25%	Vinyl Binder	20% Chrysotile
A225783.13D	Mastic	Homogeneous Yellow Non-fibrous Bound			98%	Mastic	2% Chrysotile
Analyst opinio	n: contamination fro	m adjacent linoleum.					
<b>014</b> A225783.14A	Linoleum	Heterogeneous Tan,Brown Fibrous Bound	5%	Cellulose	50% 25%	Vinyl Binder	20% Chrysotile
A225783.14B	Mastic	Homogeneous Beige Non-fibrous Bound			98%	Mastic	2% Chrysotile
		m adjacent linoleum.					
<b>015</b> A225783.15A	Linoleum	Heterogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
A225783.15B	Mastic	Homogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected



By: POLARIZING LIGHT MICROSCOPY

**Client:** Hawkeye Environmental

814 Wood Lily Road Solon, IA 52333 **Lab Code:** A225783

**Date Received:** 06-07-22 **Date Analyzed:** 06-08-22

**Date Reported:** 

Project: City of Oelwein, 217 4th Ave. NW, Oelwein

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTO	OS COMPONENTS Non-Fibrous	ASBESTOS %
<b>016</b> A225783.16A	Floor Tile	Homogeneous Tan Non-fibrous Bound		100% Vinyl	None Detected
<b>017</b> A225783.17	Mastic	Homogeneous Black Non-fibrous Bound		100% Mastic	None Detected
<b>018</b> A225783.18	Floor Tile	Homogeneous Off-white Non-fibrous Bound		97% Vinyl	3% Chrysotile
<b>019</b> A225783.19	Mastic	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
<b>020</b> A225783.20	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20% Cellulose	75% Gypsum 5% Calc Carb <1% Paint	None Detected
<b>021</b> A225783.21	Insulation	Homogeneous White,Gray Fibrous Loosely Bound	100% Cellulose		None Detected
<b>022</b> A225783.22	Plaster	Homogeneous Tan Non-fibrous Bound		65% Silicates 35% Binder	None Detected



By: POLARIZING LIGHT MICROSCOPY

**Client:** Hawkeye Environmental

814 Wood Lily Road Solon, IA 52333 **Lab Code:** A225783

**Date Received:** 06-07-22 **Date Analyzed:** 06-08-22

**Date Reported:** 

Project: City of Oelwein, 217 4th Ave. NW, Oelwein

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBES		NENTS Fibrous	ASBESTOS %
<b>023</b> A225783.23	Plaster Skim Coat	Heterogeneous White,Blue Non-fibrous Bound		65% 30% 5%	Binder Silicates Paint	None Detected
<b>024</b> A225783.24	Plaster	Homogeneous Tan Non-fibrous Bound		65% 35%	Silicates Binder	None Detected
<b>025</b> A225783.25	Plaster Skim Coat	Heterogeneous White,Blue Non-fibrous Bound		65% 30% 5%	Binder Silicates Paint	None Detected
<b>026</b> A225783.26	Plaster	Homogeneous Tan Non-fibrous Bound		65% 35%	Silicates Binder	None Detected
<b>027</b> A225783.27	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound		65% 30% 5%	Binder Silicates Paint	None Detected



**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite

Non-Trem = Non-Asbestiform Tremolite

Calc Carb = Calcium Carbonate

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

**REPORTING LIMIT:** <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

**REGULATORY LIMIT:** >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.* 

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

**ANALYST** 

7ane Heinz

APPROVED BY:

Tianbao Bai, Ph.D., CIH Laboratory Director





# CHAIN OF CUSTOD

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bando.	Sherman	388
	22	122
	\$530x855	255

730 SE Maynard Road, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:				
CEI Lab Code:	A22)	578	3	
CEI Lab I.D. Rai	nge:			

COMPANY INFORMATION	PROJECT INFORMATION		
CEI CLIENT #: 30261	Job Contact: Steve Henneberry		
<sub>Company:</sub> Hawkeye Environmental	Email / Tel: steve@hawkeyeenv.com		
Address: 814 Wood Lily Road, Solon, IA 52333	Project Name: City of Oelwein		
	Project ID#: 217 4TH AVE. NW, Oelwein		
<sub>Email:</sub> Steve@hawkeyeenv.com	PO #:		
Tel: 319-333-7420 Fax:	STATE SAMPLES COLLECTED IN: IA		

### IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

	METHOD	TURN AROUND TIME					
ASBESTOS		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600	+ 74					
PLM BULK	CARB 435						
PCM AIR*	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR (PCME)	ISO 10312						
TEM AIR	ASTM 6281-15						
TEM BULK	CHATFIELD						
TEM DUST WIPE	ASTM D6480-05 (2010)						
TEM DUST MICROVAC	ASTM D5755-09 (2014)						
TEM SOIL	ASTM D7521-16						
TEM VERMICULITE	CINCINNATI METHOD						
TEM QUALITATIVE	IN-HOUSE METHOD						
OTHER:							

REMARKS / SPECIAL INSTRUCTIONS: Accept Samples Reject Samples Relinquished By: Date/Time Received By: Date/Time Steve Henneberry 6/06/22

Samples will be disposed of 30 days after analysis

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COMPANY CONTACT INFORMATION	N	
Company:	Job Contact:	
Project Name:		
Project ID #:	Tel:	

SAMPLE ID#	DESCRIPTION / LOCATION	Description	Т	EST
G	I shingle (perch)		PLM x	TEM
0(			PLM	TEM
00	3 shinale (house)		PLM	TEM
C	M for poper -		PLM	TEM
00	5 roller rolf membrane.		PLM	TEM
00	bout paper		PLM	TEM
Ge	7 cerent siding		PLM	TEM
00	& vapor borrier		PLM	TEM
00	9 Windows alving (Front P	orin	PLM	TEM
01	O " " Thouse		PLM	TEM
01	1 ceiling tile		PLM	TEM
01	Violator Lop ( Kitchen)		PLM	TEM
01	3 linoleum 1 (tox		PLM	TEM
01	y in (bp)	1200	PLM	TEM
01	6 " (bathroom)		PLM	TEM
01	6 9" floor tile (Peglibons		PLM	TEM
01	- L with		PLM	TEM
0,	8 12" tile (front porch		PLM	TEM
01	N Mustic		PLM	TEM
0	1) drywall		PLM	TEM
07	roitaben insulation		PLM	TEM
07	17 plastu		PLM	TEM
01	3 skin cont		PLM	TEM
0,	y plastic		PLM	TEM
6	to stim cont		PLM	TEM
6	lb Dustric	-	PLM	TEM
6	27 stim cout		PLM	TEM
			PLM	TEM

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