



ASBESTOS INSPECTION REPORT

**407 3rd St SW
Oelwein, IA**



Project Report Dated: June 10, 2022



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A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION

Residential Property
407 3rd St SW
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 407 3rd St SW, 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 asbestos-containing 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. Tom.Wuehr@DNR.iowa.gov 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

407 3rd St SW

Surfacing Materials

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Drywall Joint Compound	Gray	Throughout	900 SF

Thermal Systems Insulation

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Duct Packing	Gray	Basement Ductwork	1 boot

Miscellaneous Materials

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

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



BULK SAMPLE ANALYSIS

**407 3rd St SW
Oelwein, Iowa**

June 8, 2022

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

CLIENT PROJECT: City of Oelwein, 407 3rd St SW, Oelwein
CEI LAB CODE: A225782

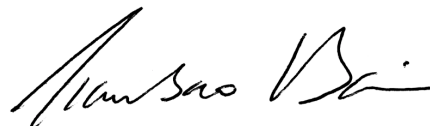
Dear Customer:

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



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Hawkeye Environmental

CLIENT PROJECT: City of Oelwein, 407 3rd St SW, Oelwein

LAB CODE: A225782

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

REPORT DATE: 06/08/22

TOTAL SAMPLES ANALYZED: 25

SAMPLES >1% ASBESTOS: 3



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 407 3rd St SW, Oelwein **LAB CODE:** A225782

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		A225782.01	Black	Shingle	None Detected
002		A225782.02	Black	Shingle	None Detected
003	Layer 1	A225782.03	Black,Gray	Foundation Coating	None Detected
	Layer 2	A225782.03	Yellow	Foam	None Detected
004		A225782.04	White	Window Glazing	None Detected
005		A225782.05	White	Window Glazing	None Detected
006		A225782.06	Gray	Duct Packing	Chrysotile 15%
007		A225782.07	Gray	Plaster	None Detected
008		A225782.08	White	Skim	None Detected
009		A225782.09	Gray	Plaster	None Detected
010		A225782.10	White	Skim	None Detected
011		A225782.11	Gray	Plaster	None Detected
012		A225782.12	White	Skim	None Detected
013		A225782.13	Yellow	Panel Adhesive	None Detected
014		A225782.14	White	Drywall	None Detected
015		A225782.15	White	Tape	None Detected
016		A225782.16	White,Beige	Compound	Chrysotile 2%
017		A225782.17	White	Compound	Chrysotile 2%
018		A225782.18	White	Wall Texture	None Detected
019		A225782.19	White	Wall Texture	None Detected
020		A225782.20	White	Wall Texture	None Detected
021		A225782.21	Black	Vapor Barrier	None Detected
022		A225782.22	Green,Gray	Linoleum	None Detected
023		A225782.23	Beige	Linoleum	None Detected
024		A225782.24	Gray	Blown In Insulation	None Detected
025		A225782.25	White	Ceiling Tile	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental
 814 Wood Lily Road
 Solon, IA 52333

Lab Code: A225782
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 407 3rd St SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous		
001 A225782.01	Shingle	Heterogeneous	30%	Cellulose	60%	Tar	None Detected
		Black Fibrous Bound			10%	Gravel	
002 A225782.02	Shingle	Heterogeneous	30%	Cellulose	60%	Tar	None Detected
		Black Fibrous Bound			10%	Gravel	
003 Layer 1 A225782.03	Foundation Coating	Homogeneous			100%	Binder	None Detected
		Black, Gray Non-fibrous Bound					
Layer 2 A225782.03	Foam	Homogeneous			100%	Foam	None Detected
		Yellow Non-fibrous Bound					
004 A225782.04	Window Glazing	Heterogeneous			78%	Caulk	None Detected
		White Non-fibrous Bound			20%	Binder	
005 A225782.05	Window Glazing	Heterogeneous			78%	Caulk	None Detected
		White Non-fibrous Bound			20%	Binder	
006 A225782.06	Duct Packing	Homogeneous			85%	Binder	15% Chrysotile
		Gray Fibrous Loose					

ASBESTOS BULK ANALYSIS

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 814 Wood Lily Road
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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
007 A225782.07	Plaster	Homogeneous	75%	Silicates	None Detected
		Gray	25%	Binder	
		Non-fibrous			
		Bound			
008 A225782.08	Skim	Heterogeneous	60%	Binder	None Detected
		White	35%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
009 A225782.09	Plaster	Homogeneous	75%	Silicates	None Detected
		Gray	25%	Binder	
		Non-fibrous			
		Bound			
010 A225782.10	Skim	Heterogeneous	60%	Binder	None Detected
		White	35%	Calc Carb	
		Non-fibrous	5%	Paint	
		Bound			
011 A225782.11	Plaster	Homogeneous	80%	Binder	None Detected
		Gray	20%	Perlite	
		Non-fibrous			
		Bound			
012 A225782.12	Skim	Heterogeneous	78%	Binder	None Detected
		White	20%	Silicates	
		Non-fibrous	2%	Paint	
		Bound			
013 A225782.13	Panel Adhesive	Homogeneous	100%	Mastic	None Detected
		Yellow			
		Non-fibrous			
		Bound			

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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 814 Wood Lily Road
 Solon, IA 52333

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Project: City of Oelwein, 407 3rd St SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
014 A225782.14	Drywall	Heterogeneous White Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
015 A225782.15	Tape	Homogeneous White Fibrous Bound	100%	Cellulose			None Detected
016 A225782.16	Compound	Heterogeneous White,Beige Non-fibrous Bound			58%	Binder	2% Chrysotile
					35%	Calc Carb	
					5%	Paint	
017 A225782.17	Compound	Heterogeneous White Non-fibrous Bound			58%	Binder	2% Chrysotile
					35%	Calc Carb	
					5%	Vermiculite	
018 A225782.18	Wall Texture	Heterogeneous White Non-fibrous Bound			60%	Binder	None Detected
					35%	Calc Carb	
					5%	Vermiculite	
019 A225782.19	Wall Texture	Heterogeneous White Non-fibrous Bound			60%	Binder	None Detected
					35%	Calc Carb	
					5%	Vermiculite	
020 A225782.20	Wall Texture	Heterogeneous White Non-fibrous Bound			60%	Binder	None Detected
					35%	Calc Carb	
					5%	Vermiculite	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hawkeye Environmental
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Project: City of Oelwein, 407 3rd St SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
021 A225782.21	Vapor Barrier	Homogeneous Black Fibrous Bound	90%	Cellulose	10%	Binder	None Detected
022 A225782.22	Linoleum	Heterogeneous Green,Gray Fibrous Bound	30%	Cellulose	50%	Vinyl Tar	None Detected
023 A225782.23	Linoleum	Heterogeneous Beige Fibrous Bound	35% 15%	Cellulose Fiberglass	50%	Vinyl	None Detected
024 A225782.24	Blown In Insulation	Homogeneous Gray Fibrous Loose	100%	Fiberglass			None Detected
025 A225782.25	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	95%	Cellulose	5%	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.*

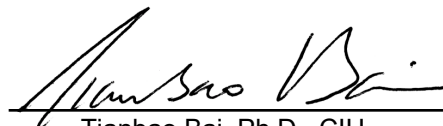
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:


Ryan Steele

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director





CEI

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

CHAIN OF CUSTODY

25

LAB USE ONLY:
CEI Lab Code: <i>A225 782</i>
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #: 30261	Job Contact: Steve Henneberry
Company: Hawkeye Environmental	Email / Tel: <i>steve@hawkeyeenv.com</i>
Address: 814 Wood Lily Road, Solon, IA 52333	Project Name: City of Oelwein
	Project ID#: 407 3rd St SW, Oelwein
Email: <i>Steve@hawkeyeenv.com</i>	PO #:
Tel: 319-333-7420 Fax:	STATE SAMPLES COLLECTED IN: IA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

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

*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
Steve Henneberry	6/06/22	<i>Att</i>	6/7/22 10:10am

Samples will be disposed of 30 days after analysis

Page 1 of _____



CEI

SAMPLING FORM

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

SAMPLE ID#	DESCRIPTION / LOCATION	Description	TEST	
			PLM	TEM
001	shingle		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
002	shingle		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
003	foundation coating		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
004	window glazing		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
005	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
006	duct packing		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
007	plaster		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
008	skim		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
009	plaster		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
010	skim		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
011	plaster		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
012	skim		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
013	panel adhesive		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
014	drywall		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
015	tape		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
016	compound		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
017	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
018	wall texture		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
019	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
020	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
021	vapor barrier		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
022	linoleum (bedroom)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
023	" (RR)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
024	blown in		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
025	ceiling tile		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>