



ASBESTOS INSPECTION REPORT

22 7th St SW
Oelwein, IA



Project Report Dated: June 10, 2022



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A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION

Residential Property
22 7th 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 22 7th 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

22 7th St SW

Surfacing Materials

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

Thermal Systems Insulation

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Duct Paper	Gray	Gray	4 boots

Miscellaneous Materials

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Chimney Tar	Black/Gray	Chimney	<15 LF
Linoleum (w/ mastic)	White(black)	Restroom	100 SF

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



BULK SAMPLE ANALYSIS

**22 7th St SW
Oelwein, Iowa**

June 8, 2022

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

CLIENT PROJECT: City of Oelwein, 22 7th St. SW, Oelwein
CEI LAB CODE: A225775

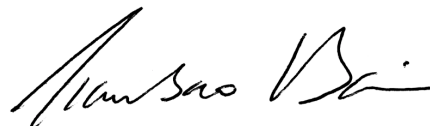
Dear Customer:

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, 22 7th St. SW, Oelwein

LAB CODE: A225775

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

REPORT DATE: 06/08/22

TOTAL SAMPLES ANALYZED: 19

SAMPLES >1% ASBESTOS: 4



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 22 7th St. SW, Oelwein

LAB CODE: A225775

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		A225775.01	Black	Chimney Tar	Chrysotile 5%
002		A225775.02	Gray,Brown	Shingle	None Detected
003		A225775.03	Gray	Shingle	None Detected
004		A225775.04	Black	Tar Paper	None Detected
005		A225775.05A	White	Linoleum	Chrysotile 25%
		A225775.05B	Black	Mastic	Chrysotile 3%
006		A225775.06	White	Linoleum	None Detected
007		A225775.07	Brown	Linoleum	None Detected
008		A225775.08	Gray	Linoleum	None Detected
009		A225775.09	Blue,White	Window Glazing	None Detected
010		A225775.10	Gray	Duct Paper	Chrysotile 65%
011		A225775.11	Brown,White	Blown Insulation	None Detected
012		A225775.12	White	Ceiling Texture	None Detected
013		A225775.13	White	Ceiling Texture	None Detected
014		A225775.14	White	Ceiling Texture	None Detected
015		A225775.15A	Yellow,Tan	Floor Tile	None Detected
		A225775.15B	Clear	Mastic	None Detected
016		A225775.16	White	Ceiling Tile	None Detected
017		A225775.17	White	Ceiling Tile	None Detected
018		A225775.18A	Gray	Plasterboard	None Detected
		A225775.18B	White	Drywall	None Detected
019	Layer 1	A225775.19	White	Plaster Skim Coat	None Detected
	Layer 2	A225775.19	Gray	Plaster Base Coat	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: A225775
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 22 7th St. SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001 A225775.01	Chimney Tar	Homogeneous Black Fibrous Bound	95%		Tar		5% Chrysotile
002 A225775.02	Shingle	Heterogeneous Gray,Brown Fibrous Bound	30%	Cellulose	60%	Tar	None Detected
					10%	Gravel	
003 A225775.03	Shingle	Heterogeneous Gray Fibrous Bound	30%	Cellulose	60%	Tar	None Detected
					10%	Gravel	
004 A225775.04	Tar Paper	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
005 A225775.05A	Linoleum	Homogeneous White Fibrous Bound	25%	Cellulose	50%	Vinyl	25% Chrysotile
Sample appears to be linoleum. No floor tile present.							
A225775.05B	Mastic	Homogeneous Black Non-fibrous Bound	2%	Cellulose	95%	Mastic	3% Chrysotile
Analyst opinion: Contamination from adjacent linoleum.							
006 A225775.06	Linoleum	Heterogeneous White Fibrous Bound	50%	Cellulose	50%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

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814 Wood Lily Road
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Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 22 7th St. SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
007 A225775.07	Linoleum	Heterogeneous Brown Fibrous Bound	40%	Cellulose Fiberglass	50%	Vinyl	None Detected
008 A225775.08	Linoleum	Heterogeneous Gray Fibrous Bound	35%	Fiberglass	50%	Vinyl Binder	None Detected
009 A225775.09	Window Glazing	Heterogeneous Blue,White Non-fibrous Bound			78%	Binder Calc Carb Paint	None Detected
010 A225775.10	Duct Paper	Homogeneous Gray Fibrous Bound			35%	Binder	65% Chrysotile
011 A225775.11	Blown Insulation	Homogeneous Brown,White Fibrous Loose	100%	Cellulose			None Detected
012 A225775.12	Ceiling Texture	Heterogeneous White Non-fibrous Bound			55%	Binder Calc Carb Vermiculite	None Detected
013 A225775.13	Ceiling Texture	Heterogeneous White Non-fibrous Bound			55%	Binder Calc Carb Vermiculite	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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 814 Wood Lily Road
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Project: City of Oelwein, 22 7th 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 A225775.14	Ceiling Texture	Heterogeneous	55%	Binder	None Detected		
		White	35%	Calc Carb			
		Non-fibrous	10%	Vermiculite			
		Bound					
015 A225775.15A	Floor Tile	Homogeneous	100%	Vinyl	None Detected		
		Yellow, Tan					
		Non-fibrous Tightly Bound					
A225775.15B	Mastic	Homogeneous Clear Non-fibrous Bound	100%	Mastic	None Detected		
016 A225775.16	Ceiling Tile	Heterogeneous	95%	Cellulose	5%	Paint	None Detected
		White					
		Fibrous Loosely Bound					
017 A225775.17	Ceiling Tile	Heterogeneous	95%	Cellulose	5%	Paint	None Detected
		White					
		Fibrous Loosely Bound					
018 A225775.18A	Plasterboard	Heterogeneous	73%	Silicates	None Detected		
		Gray	25%	Binder			
		Non-fibrous	2%	Paint			
		Bound					
A225775.18B	Drywall	Heterogeneous	15%	Cellulose	85%	Gypsum	None Detected
		White Fibrous Bound					



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ASBESTOS BULK ANALYSIS

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Lab Code: A225775
Date Received: 06-07-22
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Date Reported: 06-08-22

Project: City of Oelwein, 22 7th St. SW, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
019 Layer 1 A225775.19	Plaster Skim Coat	Heterogeneous	78%	Binder	None Detected
		White	20%	Calc Carb	
		Non-fibrous	2%	Paint	
		Bound			
Layer 2 A225775.19	Plaster Base Coat	Homogeneous	<1%	Hair	None Detected
		Gray	75%	Silicates	
		Fibrous	25%	Binder	
		Bound			

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.*

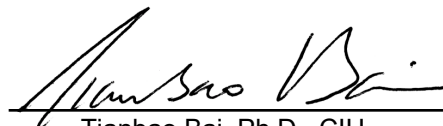
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation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

CHAIN OF CUSTODY

19

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

LAB USE ONLY:
CEI Lab Code: <i>A225775</i>
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #: 30261	Job Contact: Steve Henneberry
Company: Hawkeye Environmental	Email / Tel: steve@hawkeyeenv.com
Address: 814 Wood Lily Road, Solon, IA 52333	Project Name: City of Oelwein
	Project ID#: 22 7th St. SW, Oelwein
Email: Steve@hawkeyeenv.com	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>[Signature]</i>	6/7 10:10

Samples will be disposed of 30 days after analysis

Page 1 of _____



SAMPLING FORM

CEI

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

SAMPLE ID#	DESCRIPTION / LOCATION	Description	TEST	
			PLM	TEM
001	chimney tar		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
002	shingle		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
003	shingle		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
004	tar paper		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
005	floor tile (RR)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
006	linoleum (kit)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
007	" (Dining)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
008	" (Front Porch)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
009	window glazing		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
010	duct paper		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
011	blown insulation		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
012	ceiling texture		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
013	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
014	" "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
015	floor tile (bed)		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
016	1x1 ceiling tile		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
017	2x2 " "		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
018	plasterboard		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
019	plaster		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>