HAWKEYE ENVIRONMENTAL

ASBESTOS INSPECTION REPORT

517 North Frederick
Oelwein, IA

Project Report Dated: June 10, 2022

City of Oelwein

HAWKEYE ENVIRONMENTAL

I. CONTENTS

A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION

Residential Property
517 North Frederick
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 517 North Frederick, 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

517 North Frederick

Surfacing Materials

Material	Description	Location	Quantity
None			

Thermal Systems Insulation

Material	Description	Location	Quantity
Duct Paper	Gray	Basement Ductwork	25 LF

Miscellaneous Materials

Material	Description	Location	Quantity
Vent Tar	Gray	Roof	<10 LF
Countertop Kitchen	Beige/Gray	Kitchen Counter	40 SF

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

HAWKEYE ENVIRONMENTAL

BULK SAMPLE ANALYSIS

517 North Frederick
Oelwein, Iowa

City of Oelwein

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June 8, 2022

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

CLIENT PROJECT: City of Oelwein, 517 N. Frederick, Oelwein
CEI LAB CODE: A225778

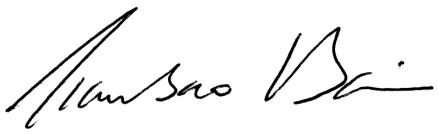
Dear Customer:

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

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Hawkeye Environmental

CLIENT PROJECT: City of Oelwein, 517 N. Frederick, Oelwein

LAB CODE: A225778

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

REPORT DATE: 06/08/22

TOTAL SAMPLES ANALYZED: 19

SAMPLES >1% ASBESTOS: 3

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: City of Oelwein, 517 N. Frederick, Oelwein **LAB CODE: A225778**

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001		A225778.01	Black	Vent Tar	Chrysotile 3%
002		A225778.02	Black	Chimney Tar	None Detected
003		A225778.03	Black,Green	Shingle	None Detected
004		A225778.04	Black	Tarpaper	None Detected
005		A225778.05	Black,Gray	Roof Membrane	None Detected
006		A225778.06	Black	Built-Up Roofing	None Detected
007		A225778.07	White	Duct Paper	Chrysotile 65%
008		A225778.08	White,Tan	Window Glazing	None Detected
009		A225778.09	Tan,Silver	Vapor Barrier	None Detected
010		A225778.10	White,Tan	Ceiling Tile	None Detected
011	Layer 1	A225778.11	Pink	Plaster Skim Coat	None Detected
	Layer 2	A225778.11	Gray	Plaster Base Coat	None Detected
012	Layer 1	A225778.12	Pink	Plaster Skim Coat	None Detected
	Layer 2	A225778.12	Gray	Plaster Base Coat	None Detected
013	Layer 1	A225778.13	Pink	Plaster Skim Coat	None Detected
	Layer 2	A225778.13	Gray	Plaster Base Coat	None Detected
014	Layer 1	A225778.14	White	Plaster Skim Coat	None Detected
	Layer 2	A225778.14	Gray	Plaster Base Coat	None Detected
015		A225778.15	White,Brown	Ceiling Tile	None Detected
016		A225778.16	Brown	Insulation	None Detected
017		A225778.17	White,Black	Sheet Floor	None Detected
018		A225778.18A	Beige,Gray	Linoleum Countertop	Chrysotile 2%
		A225778.18B	Brown	Mastic	None Detected
019		A225778.19A	Black,Cream	Linoleum	None Detected
		A225778.19B	Clear	Mastic	None Detected
		A225778.19C	Tan	Linoleum	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: A225778
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 517 N. Frederick, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
001 A225778.01	Vent Tar	Heterogeneous Black Fibrous Bound	5%	Cellulose	92%	Tar	**3% Chrysotile**
002 A225778.02	Chimney Tar	Heterogeneous Black Fibrous Bound	15% 5%	Cellulose Fiberglass	80%	Tar	None Detected
003 A225778.03	Shingle	Heterogeneous Black,Green Fibrous Bound	50%	Cellulose	40% 10%	Tar Gravel	None Detected
004 A225778.04	Tarpaper	Heterogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
005 A225778.05	Roof Membrane	Heterogeneous Black,Gray Fibrous Bound	50%	Fiberglass	40% 10%	Tar Gravel	None Detected
006 A225778.06	Built-Up Roofing	Heterogeneous Black Fibrous Bound	50%	Cellulose	40% 10%	Tar Binder	None Detected
007 A225778.07	Duct Paper	Heterogeneous White Fibrous Loosely Bound	25%	Cellulose	10%	Binder	**65% Chrysotile**

ASBESTOS BULK ANALYSIS

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814 Wood Lily Road
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Date Received: 06-07-22
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Project: City of Oelwein, 517 N. Frederick, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
008 A225778.08	Window Glazing	Heterogeneous White,Tan Non-fibrous Bound			65% 35% <1%	Binder Silicates Paint	None Detected
009 A225778.09	Vapor Barrier	Heterogeneous Tan,Silver Fibrous Bound	50%	Cellulose	50%	Metal Foil	None Detected
010 A225778.10	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	90%	Cellulose	10%	Paint	None Detected
011 Layer 1 A225778.11	Plaster Skim Coat	Heterogeneous Pink Non-fibrous Bound			60% 35% 5%	Binder Silicates Paint	None Detected
Layer 2 A225778.11	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			65% 35%	Silicates Binder	None Detected
012 Layer 1 A225778.12	Plaster Skim Coat	Heterogeneous Pink Non-fibrous Bound			60% 35% 5%	Binder Silicates Paint	None Detected
Layer 2 A225778.12	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			65% 35%	Silicates Binder	None Detected

ASBESTOS BULK ANALYSIS

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814 Wood Lily Road
Solon, IA 52333

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
013	Plaster Skim Coat	Heterogeneous			60%	Binder	None Detected
Layer 1		Pink			35%	Silicates	
A225778.13		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous			65%	Silicates	None Detected
A225778.13		Gray			35%	Binder	
		Non-fibrous					
		Bound					
014	Plaster Skim Coat	Heterogeneous			60%	Binder	None Detected
Layer 1		White			35%	Silicates	
A225778.14		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous			65%	Silicates	None Detected
A225778.14		Gray			35%	Binder	
		Non-fibrous					
		Bound					
015	Ceiling Tile	Heterogeneous	90%	Cellulose	10%	Paint	None Detected
A225778.15		White,Brown					
		Fibrous					
		Loosely Bound					
016	Insulation	Heterogeneous	100%	Cellulose			None Detected
A225778.16		Brown					
		Fibrous					
		Loose					
017	Sheet Floor	Heterogeneous	50%	Cellulose	25%	Vinyl	None Detected
A225778.17		White,Black			25%	Tar	
		Fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: A225778
Date Received: 06-07-22
Date Analyzed: 06-08-22
Date Reported: 06-08-22

Project: City of Oelwein, 517 N. Frederick, Oelwein

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
018 A225778.18A	Linoleum Countertop	Heterogeneous Beige,Gray Non-fibrous Bound			98%	Vinyl	**2% Chrysotile**
A225778.18B	Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
019 A225778.19A	Linoleum	Heterogeneous Black,Cream Non-fibrous Bound			100%	Vinyl	None Detected
A225778.19B	Mastic	Homogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
A225778.19C	Linoleum	Heterogeneous Tan Fibrous Bound	40% 10%	Cellulose Fiberglass	50%	Vinyl	None Detected

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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: Regan Kerns

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

Scott Minyard

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

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

LAB USE ONLY:
CEI Lab Code: A225778
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#: 517 N. FREDERICK, 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	☐	☐	☒	☐	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
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:		☐	☐	☐	☐	☐	☐

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

REMARKS / SPECIAL INSTRUCTIONS:	☒ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Steve Henneberry	6/06/22		6/7 10:10

Samples will be disposed of 30 days after analysis

Version: CCOC.01.18.1/2.LD

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SAMPLING FORM

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

SAMPLE ID#	DESCRIPTION / LOCATION	Description	TEST	
001	vent tar		PLM [x]	TEM [ ]
002	chimney tar		PLM [ ]	TEM [ ]
003	shingle		PLM [ ]	TEM [ ]
004	tar paper		PLM [ ]	TEM [ ]
005	rolled roof membrane		PLM [ ]	TEM [ ]
006	built-up roof		PLM [ ]	TEM [ ]
007	duct paper		PLM [ ]	TEM [ ]
008	window glazing		PLM [ ]	TEM [ ]
009	vapor barrier		PLM [ ]	TEM [ ]
010	1x1 ceiling tile		PLM [ ]	TEM [ ]
011	plaster		PLM [ ]	TEM [ ]
012	"		PLM [ ]	TEM [ ]
013	"		PLM [ ]	TEM [ ]
014	"		PLM [ ]	TEM [ ]
015	1x1 living room		PLM [ ]	TEM [ ]
016	blown insulation		PLM [ ]	TEM [ ]
017	sheet floor (RR)		PLM [ ]	TEM [ ]
018	linoleum (countertop)		PLM [ ]	TEM [ ]
019	" (1st RR)		PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
			PLM [ ]	TEM [ ]
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