



ENVIRONMENTAL ASSESSMENT REPORT



**City of Cedar Rapids
410 I Avenue NW
Cedar Rapids, IA**

Project Report Dated: November 21, 2017



I. CONTENTS

A. ASBESTOS INSPECTION REPORT

- 1. LOCATION**
- 2. CONTACT PERSONS**
- 3. DATE OF INSPECTION**
- 4. FIRM PERFORMING THE INSPECTION**
- 5. LICENSING OF ACCREDITED INSPECTOR(S)**
- 6. BULK SAMPLE LABORATORY**
- 7. LABORATORY ACCREDITATION**

B. SCOPE OF WORK / INSPECTION NOTES

C. SUMMARY OF ASBESTOS MATERIALS

D. BULK SAMPLE ANALYSIS / CHAIN OF CUSTODY

E. HOUSEHOLD HAZADOUS WASTES



A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION(s)

410 I Avenue NW
Cedar Rapids, Iowa

2. CLIENT CONTACT

Mr. John Riggs
Manager, Building Services Division
City of Cedar Rapids
500 15th Avenue SW, Cedar Rapids, IA 52404

3. DATE(s) OF INSPECTION

October 2017

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. INSPECTOR LICENSING

State of Iowa License # (s):
17-8790 Michael Johnson
17-7513 Steve Henneberry
17-8789 Cody Henneberry

6. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Environmental Testing Laboratories
38900 Huron River Drive, Suite 200
Romulus, MI 48174

7. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 21028-0



B. SCOPE OF WORK

Methods and Procedures:

The property located at 410 I Avenue NW, Cedar Rapids, 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 Environmental Testing Laboratories, Inc., of Romulus, Michigan. EMSL 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 is 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>

A visual inspection of the Property was conducted to determine the presence, location and approximate quantities of Household Hazardous Wastes (HHW's). A table summarizing identified HHW's is included in Section F of this report.



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 buildings will be demolished which has the potential to disturb all building materials. It is the intent of this survey to determine if any of the materials with potential for disturbance are asbestos containing.

The structure is a single family residence which is in average to 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.

Household Hazardous Wastes present inside structures and throughout the property were identified and listed in appendix F.



C. SUMMARY OF ASBESTOS BUILDING MATERIALS

410 I Avenue NW

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>
None			

Miscellaneous Materials

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



BULK SAMPLE ANALYSIS

**City of Cedar Rapids
410 I Avenue NW
Cedar Rapids, Iowa**

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333

Project Location : 410 I Ave. NW
Cedar Rapids, IA

Attention : Steve Henneberry

Client Project : N/A

ETC Job : 199342

Report Date : 11/2/2017

Login #	Sample ID	Work Requested	Completed
620446	001	Asbestos Analysis	11/02/2017
620447	002	Asbestos Analysis	11/02/2017
620448	003	Asbestos Analysis	11/02/2017
620449	004	Asbestos Analysis	11/02/2017
620450	005	Asbestos Analysis	11/02/2017
620451	006	Asbestos Analysis	11/02/2017
620452	007	Asbestos Analysis	11/02/2017
620453	008	Asbestos Analysis	11/02/2017
620454	009	Asbestos Analysis	11/02/2017
620455	010	Asbestos Analysis	11/02/2017
620456	011	Asbestos Analysis	11/02/2017
620457	012	Asbestos Analysis	11/02/2017

Reviewed by:

Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333
Location : 410 I Ave. NW
Cedar Rapids, IA

ETC Job : 199342
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620446 001 Roof Layer-1 Analyst: Daniel Agnew	Shingle	Grey Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
620446 001 Roof Layer-2 Analyst: Daniel Agnew	Shingle	Blue/Red Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
620446 001 Roof Layer-3 Analyst: Daniel Agnew	Shingle	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620446 001 Roof Layer-4 Analyst: Daniel Agnew	Shingle	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
620447 002 Roof Layer-1 Analyst: Daniel Agnew	Shingle	Black/Red Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
620447 002 Roof Layer-2 Analyst: Daniel Agnew	Roof Paper	Black Fibrous Homogenous	50% Cellulose	50% Other	None Detected
620448 003 Attic Analyst: Daniel Agnew	Insulation	White Fibrous Homogenous	98% Fiberglass	2% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : 410 I Ave. NW
 Cedar Rapids, IA

ETC Job : 199342
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620449 004 Shed Analyst: Daniel Agnew	Floor Tile	White Non-Fibrous Homogenous		100% Other	None Detected
620450 005 Shed Analyst: Daniel Agnew	Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
620451 006 Basement Window Analyst: Daniel Agnew	Window Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
620452 007 Kitchen Analyst: Daniel Agnew	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620453 008 Hlwy Analyst: Daniel Agnew	Joint Compound	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
620454 009 Bedroom Analyst: Daniel Agnew	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
620455 010 Bedroom Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : 410 I Ave. NW
 Cedar Rapids, IA

ETC Job : 199342
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620456 011 Front Rm Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620457 012 Kitchen Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Daniel Agnew

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199347

Client: Hawkeye Environmental	Contact: Steve Henneberry	Project Location/Name: 410 I AVE NW Cedar Rapids, IA
Address: 814 Wood Lily Road, Solon, IA 52333	Phone: 319-333-7420 Fax: 319-333-7420 E-mail: Steve@HawkeyeEnv.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Phone		Date Sampled: 10-26-17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Material / Location	Material Description
620446	001	Shingle Roof	Black
447	002	Paper Roof	Black Paper
448	003	Insul Attic	white
449	004	floorTile shed	12x12 white
450	005	floorTile shed	12x12 GRAY
451	006	caulk Basement window	white
452	007	Joint compound Kitchen	white
453	008	Joint compound Hallway	white
454	009	Joint compound Bedroom	white
455	010	DRYWALL Bedroom	white
456	011	DRYWALL Front Room	white
457	012	DRYWALL Kitchen	white

	Name/Signature	Date	Time
Relinquished (Name/Organization):	Michael Johnson	10-30-17	5 am/pm
Received (Name/ETL):	Azrah Korman / Hawkeye Environmental	10/31/17	11 am/pm
Stereoscopic Analysis (Name/ETL):	Daniel Aynew	10/31/17	am/pm
Sample Login (Name/ETL):	Azrah Korman	10/31/17	am/pm
Analysis (Name/ETL):	Daniel Aynew	10/31/17	am/pm
QA/QC Review (Name/ETL):			am/pm

Special Instructions: _____ **Remarks:** _____

410 I Avenue NW
Cedar Rapids, Iowa

Household Hazardous Waste Inventory

HHW / Recyclable	Description / Notes	Units	Size / Quantity	Location
Furnace		1	1 Ea.	House
Water Heater		1	1 Ea.	House



ENVIRONMENTAL ASSESSMENT
REPORT



**City of Cedar Rapids
1205 5th Street NW
Cedar Rapids, IA**

Project Report Dated: August 10, 2017



I. CONTENTS

A. ASBESTOS INSPECTION REPORT

- 1. LOCATION**
- 2. CONTACT PERSONS**
- 3. DATE OF INSPECTION**
- 4. FIRM PERFORMING THE INSPECTION**
- 5. LICENSING OF ACCREDITED INSPECTOR(S)**
- 6. BULK SAMPLE LABORATORY**
- 7. LABORATORY ACCREDITATION**

B. SCOPE OF WORK / INSPECTION NOTES

C. SUMMARY OF ASBESTOS MATERIALS

D. BULK SAMPLE ANALYSIS / CHAIN OF CUSTODY

E. HOUSEHOLD HAZADOUS WASTES



A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION(s)

1205 5th Street NW
Cedar Rapids, Iowa

2. CLIENT CONTACT

Mr. John Riggs
Manager, Building Services Division
City of Cedar Rapids
500 15th Avenue SW, Cedar Rapids, IA 52404

3. DATE(s) OF INSPECTION

July, 2017

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. INSPECTOR LICENSING

State of Iowa License # (s):
17-7513 Steve Henneberry
16-6940 Cody Henneberry

6. LABORATORY USED FOR BULK SAMPLE ANALYSIS

International Asbestos Testing Laboratories
9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054

7. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 101165-0



B. SCOPE OF WORK

Methods and Procedures:

The property located at 1205 5th Street NW, Cedar Rapids, 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 Environmental Testing Laboratories, Inc., of Romulus, Michigan. EMSL 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 is 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>

A visual inspection of the Property was conducted to determine the presence, location and approximate quantities of Household Hazardous Wastes (HHW's). A table summarizing identified HHW's is included in Section F of this report.



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 buildings will be demolished which has the potential to disturb all building materials. It is the intent of this survey to determine if any of the materials with potential for disturbance are asbestos containing.

The structure is a single family residence which is in average to 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.

Household Hazardous Wastes present inside structures and throughout the property were identified and listed in appendix F.



C. SUMMARY OF ASBESTOS BUILDING MATERIALS

1205 5th Street NW

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>
None			

Miscellaneous Materials

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

Contractors must field verify all material quantities, locations and condition prior to bid.



BULK SAMPLE ANALYSIS

**City of Cedar Rapids
1205 5th Street NW
Cedar Rapids, Iowa**

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6301515	Description: Black/Grey Shingle	Location: House
Client No.: 001	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85

Lab No.: 6301516	Description: Black Tar Paper	Location: House
Client No.: 002	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 60

Lab No.: 6301517	Description: Black/Grey Shingle	Location: Garage
Client No.: 003	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85


Lab No.: 6301518	Description: Black Tar	Location: Garage
Client No.: 004	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

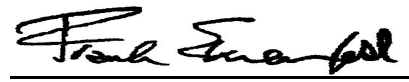
Lab No.: 6301519	Description: Black/Grey Shingle	Location: Shed
Client No.: 005	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85

Lab No.: 6301520	Description: Black Tar Paper	Location: Shed
Client No.: 006	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 60

Lab No.: 6301521	Description: Off-White Sheetrock	Location: Up Bed NW
Client No.: 007	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 7/31/2017
Date Analyzed: 08/04/2017
Signature: 
Analyst: Rodney Redman

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6301522	Description: Off-White Fibrous	Location: Up Bed NW
Client No.: 008	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5

Lab No.: 6301523	Description: Off-White Joint Compound	Location: Up Bed NW
Client No.: 009	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301524	Description: Off-White Joint Compound	Location: Down Bed
Client No.: 010	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 6301525	Description: Off-White Joint Compound	Location: Kitchen
Client No.: 011	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

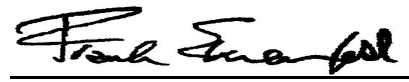
Lab No.: 6301526	Description: Off-White Texture	Location: Up Bed NE
Client No.: 012	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301527	Description: Off-White Texture	Location: Up Bed NW
Client No.: 013	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301528	Description: Off-White Texture	Location: Up Bath
Client No.: 014	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 7/31/2017
Date Analyzed: 08/04/2017
Signature: 
Analyst: Rodney Redman

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6301529	Description: Off-White Vinyl Sheet Flooring	Location: Up Bath
Client No.: 015	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 85

Lab No.: 6301530	Description: Tan Vinyl Sheet Flooring	Location: Living Rm
Client No.: 016	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301531	Description: Off-White Caulk	Location: House Window
Client No.: 017	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 6301532	Description: Off-White Caulk	Location: House Door
Client No.: 018	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

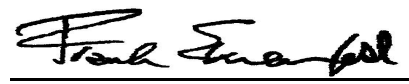
Lab No.: 6301533	Description: Off-White Caulk	Location: Garage Window
Client No.: 019	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301534	Description: Off-White Caulk	Location: Up Bath-Bath Tub
Client No.: 020	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301534(L2)	Description: Off-White Joint Compound	Location: Up Bath-Bath Tub
Client No.: 020	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 7/31/2017
Date Analyzed: 08/04/2017
Signature: 
Analyst: Rodney Redman

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6301535	Description: Black Tar	Location: House Roof
Client No.: 021	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90


Lab No.: 6301536	Description: White Insulation	Location: Attic
Client No.: 022	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Mineral Wool	<u>Percent Non-Fibrous Material:</u> None Detected

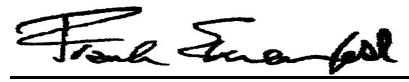
Lab No.: 6301537	Description: Yellow/Brown Siding	Location: Shed Exterior
Client No.: 023	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 98 Cellulose	<u>Percent Non-Fibrous Material:</u> 2

Lab No.: 6301537(L2)	Description: White Caulk	Location: Shed Exterior
Client No.: 023	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 6301538	Description: Yellow/Grey Siding	Location: House Exterior
Client No.: 024	Facility:	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	<u>Percent Non-Fibrous Material:</u> 70

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 7/31/2017
Date Analyzed: 08/04/2017
Signature: 
Analyst: Rodney Redman

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

Appendix to Analytical Report

Customer Contact: Steve Henneberry
Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)>

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

CERTIFICATE OF ANALYSIS

Client: Hawkeye Environmental
814 Wood Lily Road
Solon IA 52333

Report Date: 8/4/2017
Report No.: 542843 - PLM
Project: 1205 5th St NW
Project No.:

Client: HAW824

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
- 2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.
- 4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

Chain of Custody

–Bulk Asbestos–

Contact Information

Client Company: Hawkeye Environmental
Office Address: 814 Wood Lily Road
City, State, Zip: Solon, IA 52333
Fax Number: _____
Email Address: Steve@HawkeyeEnv.com

Project Number: _____
Project Name: 1205 5th St NW
Primary Contact: Steve Henneberg
Office Phone: 319-333-7420
Cell Phone: 319-551-4441

PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- PLM: Point Counting
 - PC: via ELAP 198.1
 - PC: 400 Points
 - PC: 800 Points *
 - PC: 1600 Points *
- PLM: Analyze Until Positive (Positive Stop)
 - AUP: by Homogenous Area as Noted
 - AUP: by Material Type as Noted
- PLM: NOB via 198.6
 - PLM: Friable via EPA 600 2.3
 - If <1% by PLM, to TEM via 198.4 *
 - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
 - Analyze and Report All Separable Layers per EPA 600
 - Report Composite for Drywall Systems per NESHAP
 - Report All Layers and Composite Where Applicable
 - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material^{*,**} (Dust, Wipe, Tape)
 - Soil or Vermiculite Analysis^{*}
 - CARB 435

Special Instructions:

* Additional charge and turnaround may be required ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

Turnaround Time

Preliminary Results Requested Date: _____
 Specific date / time
 10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**
 Verbal Email Fax

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization): Cody Henneberg ^{Hawk} Date: 7-28-17 Time: 5:00 PM
 Received (Name / iATL): _____ Date: _____ Time: _____
 Sample Login (Name / iATL): _____ Date: _____ Time: _____
 Analysis(Name(s) / iATL): Wing 84-17 Date: _____ Time: Los
 QA/QC Review (Name / iATL): _____ Date: 8-4-17 Time: _____
 Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: JUL 31 2017

Sample Log

-Bulk Asbestos -

Client: Hawkeye Environmental

Project: 1205 5th St. NW

Sampling Date/Time: 7-28-17

Bulk Asbestos Sample Log			
Client Sample #	iATL #	Location/Description	Notes
001	0301515	shingle (House)	black
002		tar paper (house)	"
003	0301516 0301517	shingle (garage)	"
004	0301518	tar paper (garage)	"
005	0301519	shingle (shed)	"
006	0301520	tar paper (shed)	"
007	0301521	dry wall (up. bed. NW)	gray
008	0301522	dry wall tape (")	white
009	0301523	" joint compound (")	"
010	0301524	" joint compound (down. bed)	"
011	0301525	" joint compound (Kitchen)	"
012	0301526	spray applied texture. (up. bed. NE)	white
013	0301527 0301528	" " " (up. bed. NW)	white
014		" " " (up. bath)	white
015	0301529	linoleum (up. bath)	- cream
016	0301530	12" Floor tile (living room)	- beige/tan

Sample Log

- Bulk Asbestos -

Client: Hawkeye Environmental

Project: 1205 5th St. NW

Sampling Date/Time: 7-28-17

Bulk Asbestos Sample Log			
Client Sample #	iATL #	Location/Description	Notes
017	0801531	window caulking (house)	white
018		door caulking (house)	"
019	0801532	window caulking (garage)	"
020	0801533	caulking (up. bath - bathtub)	"
021	0801534	vent fan (house roof)	black
022	0801535	blown - in insulation (attic)	white
023	0801536	siding (shed exterior)	white
024	0801537	siding (house exterior)	white
	0801538		



ENVIRONMENTAL ASSESSMENT REPORT



**City of Cedar Rapids
1821 Ellis Boulevard NW
Cedar Rapids, IA**

Project Report Dated: November 21, 2017



I. CONTENTS

A. ASBESTOS INSPECTION REPORT

- 1. LOCATION**
- 2. CONTACT PERSONS**
- 3. DATE OF INSPECTION**
- 4. FIRM PERFORMING THE INSPECTION**
- 5. LICENSING OF ACCREDITED INSPECTOR(S)**
- 6. BULK SAMPLE LABORATORY**
- 7. LABORATORY ACCREDITATION**

B. SCOPE OF WORK / INSPECTION NOTES

C. SUMMARY OF ASBESTOS MATERIALS

D. BULK SAMPLE ANALYSIS / CHAIN OF CUSTODY

E. HOUSEHOLD HAZARDOUS WASTES



A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION(s)

1821 Ellis Boulevard NW
Cedar Rapids, Iowa

2. CLIENT CONTACT

Mr. John Riggs
Manager, Building Services Division
City of Cedar Rapids
500 15th Avenue SW, Cedar Rapids, IA 52404

3. DATE(s) OF INSPECTION

October 2017

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. INSPECTOR LICENSING

State of Iowa License # (s):
17-8790 Michael Johnson
17-7513 Steve Henneberry
17-8789 Cody Henneberry

6. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Environmental Testing Laboratories
38900 Huron River Drive, Suite 200
Romulus, MI 48174

7. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 21028-0



B. SCOPE OF WORK

Methods and Procedures:

The property located at 1821 Ellis Boulevard NW, Cedar Rapids, 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 Environmental Testing Laboratories, Inc., of Romulus, Michigan. EMSL 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 is 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>

A visual inspection of the Property was conducted to determine the presence, location and approximate quantities of Household Hazardous Wastes (HHW's). A table summarizing identified HHW's is included in Section F of this report.



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 buildings will be demolished which has the potential to disturb all building materials. It is the intent of this survey to determine if any of the materials with potential for disturbance are asbestos containing.

The structure is a single family residence which is in average to 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.

Household Hazardous Wastes present inside structures and throughout the property were identified and listed in appendix F.



C. SUMMARY OF ASBESTOS BUILDING MATERIALS

1821 Ellis Boulevard NW

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	Furnace Ducts	< 20 LF

Miscellaneous Materials

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



BULK SAMPLE ANALYSIS

**City of Cedar Rapids
1821 Ellis Boulevard NW
Cedar Rapids, Iowa**

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333

Project Location :
1821 Ellis Blvd, Cedar Rapids, IA

Attention : Steve Henneberry

Client Project : N/A

ETC Job : 199346

Report Date : 11/2/2017

Login #	Sample ID	Work Requested	Completed
620475	001	Asbestos Analysis	11/02/2017
620476	002	Asbestos Analysis	11/02/2017
620477	003	Asbestos Analysis	11/02/2017
620478	004	Asbestos Analysis	11/02/2017
620479	005	Asbestos Analysis	11/02/2017
620480	006	Asbestos Analysis	11/02/2017
620481	007	Asbestos Analysis	11/02/2017
620482	008	Asbestos Analysis	11/02/2017
620483	009	Asbestos Analysis	11/02/2017
620484	010	Asbestos Analysis	11/02/2017
620485	011	Asbestos Analysis	11/02/2017
620486	012	Asbestos Analysis	11/02/2017
620487	013	Asbestos Analysis	11/02/2017
620488	014	Asbestos Analysis	11/02/2017
620489	015	Asbestos Analysis	11/02/2017
620490	016	Asbestos Analysis	11/02/2017
620491	017	Asbestos Analysis	11/02/2017
620492	018	Asbestos Analysis	11/02/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333

Location :
 1821 Ellis Blvd, Cedar Rapids, IA

ETC Job : 199346
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620475 001 Bedroom Analyst: Dave Cousino	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620476 002 Front Door Area Analyst: Dave Cousino	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620477 003 Day Room Analyst: Dave Cousino	Joint Compound	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620478 004 Kitchen Analyst: Dave Cousino	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
620479 005 Front Room Analyst: Dave Cousino	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
620480 006 Bedroom Analyst: Dave Cousino	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620481 007 Bedroom Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333

Location :
 1821 Ellis Blvd, Cedar Rapids, IA

ETC Job : 199346
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620482 008 Kitchen Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620483 009 Bathroom Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620484 010 Attic Analyst: Dave Cousino	Vermiculite	Brown/Gold Fibrous Homogenous		100% Vermiculite	None Detected
620485 011 Attic Analyst: Dave Cousino	Insulation	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
620486 012 Basement Window Analyst: Dave Cousino	Caulk	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620487 013 Bathroom Analyst: Dave Cousino	Floor Tile	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620488 014 Shower Stall Analyst: Dave Cousino	Glue	Green Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333

Location :
 1821 Ellis Blvd, Cedar Rapids, IA

ETC Job : 199346
 Client Project : N/A
 Date Collected : 10/26/2017
 Date Received : 10/31/2017
 Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620489 015 Kitchen Analyst: Dave Cousino	Ceramic Tile	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620490 016 Kitchen Analyst: Dave Cousino	Glue	White Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
620491 017 Window Analyst: Dave Cousino	Caulk	White Non-Fibrous Homogenous	2% Cellulose 10% Fiberglass	88% Other	None Detected
620492 018 Attic Area Analyst: Dave Cousino	Duct Paper	Grey Fibrous Homogenous	60% Cellulose	15% Other	25% Chrysotile



Lab Supervisor/Other Signatory

Analyst: Dave Cousino

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

ENVIRONMENTAL TESTING LABORATORIES, INC

36900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2ell.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199340

Client: Hawkeye Environmental	Contact: Steve Henneberry	Project Location/name: 1821 Ellis Blvd Cedar Rapids, IA
Address: 814 Wood Lily Road, Solon, IA 52333	Phone: 319-333-7420 Fax: 319-333-7420 E-mail: Steve@HawkeyeEnv.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Steve@HawkeyeEnv.com		Date Sampled: 10-26-17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
(Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required.

Lab ID	Sample ID	Material / Location	Material Description
620475	001	Joint compound Bedroom	white
620476	002	Joint compound Front Porch	white
477	003	Joint compound Day room	white
478	004	SKIMCOAT Kitchen	white
479	005	SKIMCOAT Front room	white
480	006	SKIMCOAT Bedroom	white
481	007	DRYWALL Bedroom	white
482	008	DRYWALL Kitchen	white
483	009	DRYWALL Bathroom	white
484	010	Vermiculite Attic	Brown with gold
485	011	Insul ATTIC	white
486	012	caulk Basement window	white

	Name/Organization	Date	Time
Relinquished (Name/Organization):	Michael Johnson	10-30-17	5 am/pm
Received (Name/ETL):	Chris Dorn / Hawkeye Environmental	10/31/17	12 am/pm
Stereoscopic Analysis (Name/ETL):	J.C.	11/1/17	8:00 am/pm
Sample Login (Name/ETL):	Chris Dorn	10/31/17	am/pm
Analysis (Name/ETL):	J.C.	11/1/17	am/pm
QA/QC Review (Name/ETL):			am/pm

Special Instructions:	Remarks:
------------------------------	-----------------

**Bulk Asbestos
 Chain of Custody**

ETL Project #:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Lab ID	Sample ID	Sample Location	Material Description
420487	013	Shortile Bathroom	12x24 GRAY Tile
488	014	Green glue shower stall	green glue
489	015	Ceramic tile Kitchen	GRAY
490	016	Glue Kitchen	Ceramic tile glue
491	017	Caulk window	window
492	018	Ductpaper ATTIC Area	GRAY

1821 Ellis Blvd NW
Cedar Rapids, Iowa

Household Hazardous Waste Inventory

HHW / Recyclable	Description / Notes	Units	Size / Quantity	Location
Dishwasher		1	1 Ea.	House
Microwave		1	1 Ea.	House



ENVIRONMENTAL ASSESSMENT REPORT



**City of Cedar Rapids
1869 Ellis Blvd NW
Cedar Rapids, IA**

Project Report Dated: November 21, 2017



I. CONTENTS

A. ASBESTOS INSPECTION REPORT

- 1. LOCATION**
- 2. CONTACT PERSONS**
- 3. DATE OF INSPECTION**
- 4. FIRM PERFORMING THE INSPECTION**
- 5. LICENSING OF ACCREDITED INSPECTOR(S)**
- 6. BULK SAMPLE LABORATORY**
- 7. LABORATORY ACCREDITATION**

B. SCOPE OF WORK / INSPECTION NOTES

C. SUMMARY OF ASBESTOS MATERIALS

D. BULK SAMPLE ANALYSIS / CHAIN OF CUSTODY

E. HOUSEHOLD HAZARDOUS WASTES



A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION(s)

1869 Ellis Blvd NW
Cedar Rapids, Iowa

2. CLIENT CONTACT

Mr. John Riggs
Manager, Building Services Division
City of Cedar Rapids
500 15th Avenue SW, Cedar Rapids, IA 52404

3. DATE(s) OF INSPECTION

October 2017

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. INSPECTOR LICENSING

State of Iowa License # (s):
17-8790 Michael Johnson
17-7513 Steve Henneberry
17-8789 Cody Henneberry

6. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Environmental Testing Laboratories
38900 Huron River Drive, Suite 200
Romulus, MI 48174

7. LABORATORY ACCREDITATION

NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 21028-0



B. SCOPE OF WORK

Methods and Procedures:

The property located at 1869 Ellis Blvd NW, Cedar Rapids, 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 Environmental Testing Laboratories, Inc., of Romulus, Michigan. EMSL 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 is 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>

A visual inspection of the Property was conducted to determine the presence, location and approximate quantities of Household Hazardous Wastes (HHW's). A table summarizing identified HHW's is included in Section F of this report.



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 buildings will be demolished which has the potential to disturb all building materials. It is the intent of this survey to determine if any of the materials with potential for disturbance are asbestos containing.

The structure is a single family residence which is in average to 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.

Household Hazardous Wastes present inside structures and throughout the property were identified and listed in appendix F.



C. SUMMARY OF ASBESTOS BUILDING MATERIALS

1869 Ellis Blvd NW

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>
None			

Miscellaneous Materials

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



BULK SAMPLE ANALYSIS

**City of Cedar Rapids
1869 Ellis Blvd NW
Cedar Rapids, Iowa**

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333

Project Location : 1869 Ellis Blvd.
Cedar Rapid, IA

Attention : Steve Henneberry

Client Project : N/A

ETC Job : 199340
Report Date : 11/2/2017

Login #	Sample ID	Work Requested	Completed
620427	001	Asbestos Analysis	11/02/2017
620428	002	Asbestos Analysis	11/02/2017
620429	003	Asbestos Analysis	11/02/2017
620430	004	Asbestos Analysis	11/02/2017
620431	005	Asbestos Analysis	11/02/2017
620432	006	Asbestos Analysis	11/02/2017
620433	007	Asbestos Analysis	11/02/2017
620434	008	Asbestos Analysis	11/02/2017
620435	009	Asbestos Analysis	11/02/2017
620436	010	Asbestos Analysis	11/02/2017
620437	011	Asbestos Analysis	11/02/2017
620438	012	Asbestos Analysis	11/02/2017
620439	013	Asbestos Analysis	11/02/2017
620440	014	Asbestos Analysis	11/02/2017
620441	015	Asbestos Analysis	11/02/2017
620442	016	Asbestos Analysis	11/02/2017
620443	017	Asbestos Analysis	11/02/2017
620444	018	Asbestos Analysis	11/02/2017

Login #

Sample ID

Work Requested

Completed

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : 1869 Ellis Blvd.
 Cedar Rapid, IA

ETC Job : 199340
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620427 001 Master Bedroom Analyst: Scott Larabell	Plaster	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620428 002 Stairwell Analyst: Scott Larabell	Plaster	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620429 003 Small Bedroom Analyst: Scott Larabell	Plaster	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620430 004 Front Window Analyst: Scott Larabell	Caulk	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620431 005 Back Window Analyst: Scott Larabell	Caulk	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620432 006 Attic Analyst: Scott Larabell	Insulation	Yellow Fibrous Homogenous	3% Cellulose 30% Mineral wool	67% Other	None Detected
620433 007 Roof Analyst: Scott Larabell	Roof Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : 1869 Ellis Blvd.
 Cedar Rapid, IA

ETC Job : 199340
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620434 008 Chimney Analyst: Scott Larabell	Chimney Tar	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620435 009 Roof Analyst: Scott Larabell	Roof Paper	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620436 010 Basement Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620437 011 Layer-1 Analyst: Scott Larabell	Ceramic Tile Glue	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620437 011 Layer-2 Analyst: Scott Larabell	Glue	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620437 011 Layer-3 Analyst: Scott Larabell	Grout	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620438 012 Living Rm Analyst: Scott Larabell	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : 1869 Ellis Blvd.
 Cedar Rapid, IA

ETC Job : 199340
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
620439 013 Front Rm Analyst: Scott Larabell	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620440 014 Kitchen Analyst: Scott Larabell	Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
620441 015 Stairwell Basement Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
620442 016 Living Rm Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620443 017 Front Room Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
620444 018 Kitchen Analyst: Scott Larabell	Linoleum	Brown Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell



Certificate of Analysis

Environmental Testing Laboratories, Inc.
38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
814 Wood Lily Rd
Solon,IA 52333
Location : 1869 Ellis Blvd.
Cedar Rapid, IA

ETC Job : 199340
Client Project : N/A
Date Collected : 10/26/2017
Date Received : 10/31/2017
Date Analyzed : 11/02/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etil.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 100340

Client: Hawkeye Environmental	Contact: Steve Henneberry	Project Location/Name: 1809 Ellis Blvd Cedar Rapids IA
Address: 814 Wood Lily Road, Solon, IA 52333	Phone: 319-333-7420 Fax: 319-333-7420 E-mail: Steve@HawkeyeEnv.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal		Date Sampled: 10-26-17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Material / Location	Material Description
620427	001	Plaster Master Bedroom	white
428	002	Plaster upper stairwell	white
428	003	Plaster small Bedroom	white
430	004	Caulk Front window	white
431	005	Caulk Back window	white
432	006	Insul Attic	yellow
433	007	shingle Roof	Gray and green
434	008	Tar chimney	TAR
435	009	Paper Roof	Paper
436	010	Mastic Basement	Black
437	011	glue ceramic tile	white
438	012	Joint compound living room	white

		Date	Time
Relinquished (Name/Organization):	Miranda Johnson	10-28-17	5 am/pm
Received (Name/ETL):	Sarah Kover / Hawkeye Environmental	10/31/17	11 am/pm
Stereoscopic Analysis (Name/ETL):	Gottlieb	10/31/17	1306 am/pm
Sample Login (Name/ETL):	Sarah Kover	10/31/17	am/pm
Analysis (Name/ETL):	Gottlieb	10/31/17	1306 am/pm
QA/QC Review (Name/ETL):			am/pm

Special Instructions:	Remarks:
------------------------------	-----------------

ENVIRONMENTAL TESTING LABORATORIES, INC
38900 HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 992-2261
www.2etl.com

Bulk Asbestos
Chain of Custody

ETL Project #: 199340

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Lab ID	Sample ID	Sample Location	Material Description
620439	013	Joint compound Front room	white
440	014	Joint compound Kitchen	white
441	015	Drywall stairwell Basement	white
442	016	Drywall living room	white
443	017	Drywall Front room	white
444	018	linoleum kitchen	Brown

Household Hazardous Waste Inventory

HHW / Recyclable	Description / Notes	Units	Size / Quantity	Location
Furnace		1	1 Ea	House
Household Cleaners	Kitchen & Bath Cleaners	3	1 Quart	House
Ant & Roach Spray	Raid	1	1 Can	House