



ENVIRONMENTAL ASSESSMENT REPORT

**City of Cedar Rapids
Hubbard Ice Property
1124 / 1125 1st Street NW
Cedar Rapids, IA**



Project Report Dated: March 5, 2018

Hubbard Ice Property, 1124 / 1225 1st Street NW, Cedar Rapids, Iowa



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A. ASBESTOS INSPECTION REPORT DATA

1. LOCATION(s)

Hubbard Ice Property
1124 / 1125 1st 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

February 2018

4. FIRM PERFORMING INSPECTION

Hawkeye Environmental
814 Wood Lily Road
Solon, IA 52333

5. INSPECTOR LICENSING

State of Iowa License # (s):
17-9343 Steve Henneberry
17-8789 Cody Henneberry

6. LABORATORY USED FOR BULK SAMPLE ANALYSIS

Environmental Testing Laboratories, Inc.
38900 West Huron River Dr.
Romulus, Michigan
NVLAP (Nation Voluntary Laboratory Accreditation Program)
Lab Code: 201028-0



B. SCOPE OF WORK

Methods and Procedures:

The property, The Hubbard Ice Property, located at 1124 / 1125 1st 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 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. ETL 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 structures will be demolished. This 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 former cold storage facility, retail commercial spaces and commercial storage complex which varies in condition from poor to good for their respective ages and states of use.

Roof or roofing systems were sampled and included in this report. The mechanical building roof field was determined to be asbestos-containing. The rooftop chiller units on the Mechanical Building Roof have asbestos caulk which seals the exterior metal panels of the units. Contractors shall verify the structural integrity of the roof, parapet walls and roof deck prior to any work. Deterioration of the structure in this area is evident.

Pipe insulation tar/ mastic (black) in the cold storage areas throughout was determined to be asbestos-containing. This mastic may be present in locations within walls and chases where it was not currently accessible for quantification. The abatement contractor is responsible for demolition necessary to access these materials for removal.

An ammonia piping and refrigerant system is present throughout the cold storage areas. This system has not been operational in 6+ years. Based upon all available information, no ammonia is present with this system. Contractors must verify that all system components are empty prior to demolition.

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.



B. SUMMARY OF ASBESTOS BUILDING MATERIALS

Hubbard Ice Property
1124 / 1125 1st 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>
Pipe Insulation	Brown / Black	Mechanical Room Building	440 LF
Mudded Joint Fittings	White	Mechanical Room Building	Included LF
Pipe Insulation (Aircell)	Gray	Suite E - Basement	30 LF

Miscellaneous Materials

<u>Material</u>	<u>Description</u>	<u>Location</u>	<u>Quantity</u>
Breaker Panel Boards	Black	Mechanical Room Electrical	LS
Cement Asbestos Board	Gray	Mechanical Room Building Flooring & Suite E Basement Shower	90 SF
Breaker Panels/Control Panel	Black	Elevator Penthouse	LS
Elevator Brake Shoe Pads	Gray	Elevator Penthouse (2 motors)	LS
Caulk (Cooler Door)		2 nd Floor Cooler Door (exterior)	25 LF
Pipe Insulation Tar	Black	Cold Storage / Bsmt – 3 rd Floors	LS
Steel Fire Door Core	Gray	Suite E - Basement	30 SF
Parapet Cap Mastic	Gray / Black	Storage #1 - North Parapet Wall	60 LF
Tar Coated Corrugated Metal	Black	Cold Storage Dock - Awning	2400 SF
Glazing	White / Red	Cold Storage Exterior Windows (North & West Elevations) Mech. Bldg. Windows -Under Metal Siding (South & East Elevations)	LS
Caulk	Gray	Cold Storage Exterior Windows	LS
Roof Field	Black	Mechanical Building Roof	5500 SF
Caulk (Chiller Units)	Gray	Mechanical Building Roof	LS

LS – Lump Sum

All quantities are approximate. Contractors must verify all quantities and conditions prior to bid.



BULK SAMPLE ANALYSIS

**City of Cedar Rapids
Hubbard Ice Property
1124 / 1125 1st Street 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 : City of Cedar Rapids
Hubbard Ice, Cedar Rapids

Attention : Steve Henneberry

Client Project : N/A

ETC Job : 204082

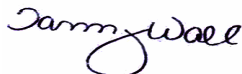
Report Date : 2/15/2018

Login #	Sample ID	Work Requested	Completed
686211	001	Asbestos Analysis	02/15/2018
686212	002	Asbestos Analysis	02/15/2018
686213	003	Asbestos Analysis	02/15/2018
686214	004	Asbestos Analysis	02/15/2018
686215	005	Asbestos Analysis	02/15/2018
686216	006	Asbestos Analysis	02/15/2018
686217	007	Asbestos Analysis	02/15/2018
686218	008	Asbestos Analysis	02/15/2018
686219	009	Asbestos Analysis	02/15/2018
686220	010	Asbestos Analysis	02/15/2018
686221	011	Asbestos Analysis	02/15/2018
686222	012	Asbestos Analysis	02/15/2018
686223	013	Asbestos Analysis	02/15/2018
686224	014	Asbestos Analysis	02/15/2018
686225	015	Asbestos Analysis	02/15/2018
686226	016	Asbestos Analysis	02/15/2018
686227	017	Asbestos Analysis	02/15/2018
686228	018	Asbestos Analysis	02/15/2018
686229	019	Asbestos Analysis	02/15/2018
686230	020	Asbestos Analysis	02/15/2018

Login #	Sample ID	Work Requested	Completed
686231	021	Asbestos Analysis	02/15/2018
686232	022	Asbestos Analysis	02/15/2018
686233	023	Asbestos Analysis	02/15/2018
686234	024	Asbestos Analysis	02/15/2018
686235	025	Asbestos Analysis	02/15/2018
686236	026	Asbestos Analysis	02/15/2018
686237	027	Asbestos Analysis	02/15/2018
686238	028	Asbestos Analysis	02/15/2018
686239	029	Asbestos Analysis	02/15/2018
686240	030	Asbestos Analysis	02/15/2018
686241	031	Asbestos Analysis	02/15/2018
686242	032	Asbestos Analysis	02/15/2018
686243	033	Asbestos Analysis	02/15/2018
686244	034	Asbestos Analysis	02/15/2018
686245	035	Asbestos Analysis	02/15/2018
686246	036	Asbestos Analysis	02/15/2018
686247	037	Asbestos Analysis	02/15/2018
686248	038	Asbestos Analysis	02/15/2018
686249	039	Asbestos Analysis	02/15/2018
686250	040	Asbestos Analysis	02/15/2018
686251	041	Asbestos Analysis	02/15/2018
686252	042	Asbestos Analysis	02/15/2018
686253	043	Asbestos Analysis	02/15/2018
686254	044	Asbestos Analysis	02/15/2018
686255	045	Asbestos Analysis	02/15/2018
686256	046	Asbestos Analysis	02/15/2018
686257	047	Asbestos Analysis	02/15/2018

Login #	Sample ID	Work Requested	Completed
686258	048	Asbestos Analysis	02/15/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082
Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686211 001 In Bags, Mechanical Room Analyst: Eleni Kiliaris	Insulation	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686212 002 Mechanical on Motor Analyst: Eleni Kiliaris	Wire Winding	Black Fibrous Homogenous	99% Cellulose	1% Other	None Detected
686213 003 Mechanical-Inner Cooler Analyst: Eleni Kiliaris	Pipe Insulation	Green Fibrous Homogenous	30% Cellulose	30% Other	40% Chrysotile
686214 004 Mechanical-Inner Cooler Analyst: Eleni Kiliaris	Tank Insulation	Blue Fibrous Homogenous	60% Cellulose	40% Other	None Detected
686215 005 Mech-Ammonia Pipe Analyst: Eleni Kiliaris	Mudded Joint Fitting	Grey Fibrous Homogenous	40% Cellulose	40% Other	20% Chrysotile
686216 006 Mech-Ammonia Pipe Analyst: Eleni Kiliaris	Pipe Insulation	Black/Grey Fibrous Homogenous	40% Cellulose	30% Other	30% Chrysotile
686217 007 Mech Room Analyst: Eleni Kiliaris	Window Glaze	Grey Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile

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 : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082
Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686218 008 Mech Room Analyst: Eleni Kiliaris	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686219 009 Cooler Analyst: Eleni Kiliaris	Skim Coat	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686220 010 Mech Room Analyst: Eleni Kiliaris	Pipe Coating	Black Fibrous Homogenous	20% Cellulose	80% Other	None Detected
686221 011 Mech Room Analyst: Eleni Kiliaris	Layered Pipe Insulation	Grey Fibrous Homogenous	5% Cellulose	75% Other	20% Chrysotile
686222 012 Mech Room Analyst: Eleni Kiliaris	Layered Pipe Insulation	Grey Fibrous Homogenous	5% Cellulose	65% Other	30% Chrysotile
686223 013 Mech-Ammonia Pipe Analyst: Eleni Kiliaris	Pipe Insulation	Black Fibrous Homogenous	5% Cellulose	95% Other	None Detected
686224 014 Mech Room Analyst: Eleni Kiliaris	Roof Deck	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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 Hubbard Ice, Cedar Rapids

ETC Job : 204082
Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686225 015 Mech-Breaker Panel Analyst: Eleni Kiliaris	Insulation Board	Black Fibrous Homogenous	1% Cellulose	59% Other	40% Chrysotile
686226 016 Mech Room Analyst: Eleni Kiliaris	Cement Board	Grey Fibrous Homogenous	1% Cellulose	79% Other	20% Chrysotile
686227 017 Analyst: Eleni Kiliaris	Transformer Connection Insulation	Black/Grey Fibrous Homogenous	99% Cellulose	1% Other	None Detected
686228 018 Mech Room Analyst: Eleni Kiliaris	Cork	Grey/Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686229 019 Mech Room Analyst: Eleni Kiliaris	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686230 020 On Cork Analyst: Eleni Kiliaris	Coating	Silver Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686231 021 Cooler Analyst: Eleni Kiliaris	Vapor Barrier	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082

Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686232 022 On Cork in Cooler Analyst: Eleni Kiliaris	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686233 023 Loose Fill-Cooler Analyst: Eleni Kiliaris	Insulation	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
686234 024 Exterior Wall Analyst: Eleni Kiliaris	Tar	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
686235 025 3rd Floor Analyst: Eleni Kiliaris	Window Glazing	Grey/Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
686236 026 3rd Floor Cooler #35 Analyst: Eleni Kiliaris	Cork	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686237 027 3rd Floor Office Analyst: Eleni Kiliaris	Drywall Tape	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
686238 028 3rd Floor Office Analyst: Eleni Kiliaris	Drywall Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082
Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686239 029 3rd Floor Office Analyst: Eleni Kiliaris	Drywall Board	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
686240 030 Stairwell Analyst: Eleni Kiliaris	Window Glazing	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
686241 031 Elevator Room Analyst: Eleni Kiliaris	Breaker Panel	Grey Non-Fibrous Homogenous	2% Cellulose	78% Other	20% Chrysotile
686242 032 Elevator Room Analyst: Eleni Kiliaris	Break Shoe Pads	Grey Fibrous Homogenous	10% Cellulose	85% Other	5% Chrysotile
686243 033 Elevator Room Analyst: Eleni Kiliaris	Coated Panel	Black Fibrous Homogenous		60% Other	40% Chrysotile
686244 034 3rd Floor Cooler Analyst: Eleni Kiliaris	Cooler Door Caulking	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
686245 035 2nd Floor Cooler Analyst: Eleni Kiliaris	Cooler Door Caulking	Grey Non-Fibrous Homogenous	1% Cellulose	97% Other	2% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

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

Location : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082

Client Project : N/A

Date Collected : 02/09/2018

Date Received : 02/14/2018

Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686246 036 2nd Floor Analyst: Eleni Kiliaris	Window Glazing	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686247 037 South End 2nd Floor Cooler Analyst: Eleni Kiliaris	Tar	Black Non-Fibrous Homogenous	2% Cellulose	93% Other	5% Chrysotile
686248 038 South End 2nd Floor Cooler Analyst: Eleni Kiliaris	Pipe Insulation	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
686249 039 2nd Floor Cooler Analyst: Eleni Kiliaris	Wire Coating	Black Fibrous Homogenous	99% Cellulose	1% Other	None Detected
686250 040 Shipping Analyst: Eleni Kiliaris	Drywall Board	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686251 041 Shipping Analyst: Eleni Kiliaris	Drywall Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686252 042 In Metal Soffir-1st Analyst: Eleni Kiliaris	Pipe Insulation	Grey Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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 814 Wood Lily Rd
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Location : City of Cedar Rapids
 Hubbard Ice, Cedar Rapids

ETC Job : 204082

Client Project : N/A
Date Collected : 02/09/2018
Date Received : 02/14/2018
Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
686253 043 Shipping Analyst: Eleni Kiliaris	Flashing	Black/Grey Non-Fibrous Homogenous	2% Cellulose	96% Other	2% Chrysotile
686254 044 1st Floor Office Analyst: Eleni Kiliaris	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686255 045 1st Floor Office Analyst: Eleni Kiliaris	2x4 Ceiling Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686256 046 Shipping Analyst: Eleni Kiliaris	Vent Tar	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
686257 047 Mech Room Analyst: Eleni Kiliaris	Vermiculite	Black/Silver Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
686258 048 1st Floor Office Analyst: Eleni Kiliaris	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Eleni Kiliaris



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 : City of Cedar Rapids
Hubbard Ice, Cedar Rapids

ETC Job : 204082

Client Project : N/A

Date Collected : 02/09/2018

Date Received : 02/14/2018

Date Analyzed : 02/15/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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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

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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 #: 204082

Client: Hawkeye Environmental	Contact: Steve Henneberry Phone: 319-551-4441	Project Location/name: <u>City of Cedar Rapids</u> <u>Hubbard Ice</u> <u>Cedar Rapids</u>
Address: 814 Wood Lily Road, Solon, IA 52333	Fax: E-mail: Steve@Hawkeyeenv.com	Client Project #:
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: <u>2/9/18</u>

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

PLM Instructions
(Check all that apply)

<input type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - <i>Clearly mark Homogenous Group</i>
<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

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Lab ID	Sample ID	Sample Location	Material Description
211	001	insulation (in bags, mechanical room)	white
212	002	wire winding (mechanical on motor)	black
213	003	pipe insulation(mechanical-inner cooler)	green
214	004	tank insulation (mechanical- inner cooler)	blue
215	005	mudded joint fitting(mech- ammonia pipe)	gray
216	006	pipe insulation(****)	black/gray
217	007	window glazing(mech room)	gray
218	008	plaster(mech room)	gray
219	009	skim coat(cooler)	black
220	010	pipe coating(mech room)	black
221	011	layered pipe insulation(****)	gray
222	012	*****(*****)	****

	Name/Organization	Date	Time
Relinquished (Name/Organization):	Cody Henneberry Hawkeye Environmental	2/13/18	6:00 pm
Received (Name/ETL):	<u>Brittany Walls</u>	2/14/18	12:46 am/pm
Stereoscopic Analysis (Name/ETL):	<u>Elm Kiliin</u>	2/14/18	am/pm
Sample Login (Name/ETL):	<u>Brittany Walls</u>	2/14/18	12:46 am/pm
Analysis (Name/ETL):	<u>Breana Separk</u>	2.15.18	am/pm
QA/QC Review (Name/ETL):	<u>Breana Separk</u>	2.15.18	am/pm

Special Instructions:	Remarks
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**Bulk Asbestos
 Chain of Custody**

ETL Project #: 204082

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

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Lab ID	Sample ID	Sample Location	Material Description
223	013	pipe insulation(mech-amonia pipe)	black
224	014	roof deck(mech room)	gray
225	015	insulation board(mech-breaker panel)	black
226	016	cement board(mech room)	gray
227	017	transformer connection insulation	black/gray
228	018	cork(mech room)	gray/brown
229	019	mastic("" "")	black
230	020	coating (on cork)	silver
231	021	vapor barrier(cooler)	black
232	022	mastic(on cork in cooler)	black
233	023	insulation (loose fill - cooler)	black
234	024	tar (exterior wall)	black
235	025	window glazing (3rd floor)	gray/brown
236	026	cork (3rd floor cooler #35)	black
237	027	drywall tape(3rd floor office)	white
238	028	drywall joint compound ("")	white
239	029	drywall board ("")	gray
240	030	window glazing (stairwell)	gray
241	031	breaker panel (elevator room)	gray
242	032	break shoe pads (elevator room)	gray
243	033	coated panel (elevator room)	black
244	034	cooler door caulking (3rd floor cooler)	gray
245	035	cooler door caulking (2nd floor cooler)	gray
246	036	window glazing (2nd floor)	gray
247	037	tar (South end 2nd floor cooler)	black
248	038	pipe insulation ("")	gray
249	039	wire coating (2nd floor cooler)	black

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 : City of Cedar Rapids
Hubbard Ice Property, Cedar Rapids, IA

Attention : Steve Henneberry

Client Project : N/A

ETC Job : 204208

Report Date : 2/22/2018

Login #	Sample ID	Work Requested	Completed
689286	049	Asbestos Analysis	02/22/2018
689287	050	Asbestos Analysis	02/22/2018
689288	051	Asbestos Analysis	02/22/2018
689289	052	Asbestos Analysis	02/22/2018
689290	053	Asbestos Analysis	02/22/2018
689291	054	Asbestos Analysis	02/22/2018
689292	055	Asbestos Analysis	02/22/2018
689293	056	Asbestos Analysis	02/22/2018
689294	057	Asbestos Analysis	02/22/2018
689295	058	Asbestos Analysis	02/22/2018
689296	059	Asbestos Analysis	02/22/2018
689297	060	Asbestos Analysis	02/22/2018
689298	061	Asbestos Analysis	02/22/2018
689299	062	Asbestos Analysis	02/22/2018
689300	063	Asbestos Analysis	02/22/2018
689301	064	Asbestos Analysis	02/22/2018
689302	065	Asbestos Analysis	02/22/2018
689303	066	Asbestos Analysis	02/22/2018
689304	067	Asbestos Analysis	02/22/2018
689305	068	Asbestos Analysis	02/22/2018

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Login #	Sample ID	Work Requested	Completed
689306	069	Asbestos Analysis	02/22/2018
689307	070	Asbestos Analysis	02/22/2018
689308	071	Asbestos Analysis	02/22/2018
689309	072	Asbestos Analysis	02/22/2018
689310	073	Asbestos Analysis	02/22/2018
689311	074	Asbestos Analysis	02/22/2018
689312	075	Asbestos Analysis	02/22/2018
689313	076	Asbestos Analysis	02/22/2018
689314	077	Asbestos Analysis	02/22/2018
689315	078	Asbestos Analysis	02/22/2018
689316	079	Asbestos Analysis	02/22/2018
689317	080	Asbestos Analysis	02/22/2018
689318	081	Asbestos Analysis	02/22/2018
689319	082	Asbestos Analysis	02/22/2018
689320	083	Asbestos Analysis	02/22/2018
689321	084	Asbestos Analysis	02/22/2018
689322	085	Asbestos Analysis	02/22/2018
689323	086	Asbestos Analysis	02/22/2018
689324	087	Asbestos Analysis	02/22/2018
689325	088	Asbestos Analysis	02/22/2018
689326	089	Asbestos Analysis	02/22/2018
689327	090	Asbestos Analysis	02/22/2018
689328	091	Asbestos Analysis	02/22/2018
689329	092	Asbestos Analysis	02/22/2018
689330	093	Asbestos Analysis	02/22/2018
689331	094	Asbestos Analysis	02/22/2018
689332	095	Asbestos Analysis	02/22/2018

Login #	Sample ID	Work Requested	Completed
689333	096	Asbestos Analysis	02/22/2018
689334	097	Asbestos Analysis	02/22/2018
689335	098	Asbestos Analysis	02/22/2018
689336	099	Asbestos Analysis	02/22/2018
689337	100	Asbestos Analysis	02/22/2018
689338	101	Asbestos Analysis	02/22/2018
689339	102	Asbestos Analysis	02/22/2018
689340	103	Asbestos Analysis	02/22/2018
689341	104	Asbestos Analysis	02/22/2018
689342	105	Asbestos Analysis	02/22/2018
689343	106	Asbestos Analysis	02/22/2018
689344	107	Asbestos Analysis	02/22/2018
689345	108	Asbestos Analysis	02/22/2018
689346	109	Asbestos Analysis	02/22/2018
689347	110	Asbestos Analysis	02/22/2018
689348	111	Asbestos Analysis	02/22/2018
689349	112	Asbestos Analysis	02/22/2018
689350	113	Asbestos Analysis	02/22/2018
689351	114	Asbestos Analysis	02/22/2018
689352	115	Asbestos Analysis	02/22/2018
689353	116	Asbestos Analysis	02/22/2018
689354	117	Asbestos Analysis	02/22/2018
689355	118	Asbestos Analysis	02/22/2018
689356	119	Asbestos Analysis	02/22/2018
689357	120	Asbestos Analysis	02/22/2018
689358	121	Asbestos Analysis	02/22/2018
689359	122	Asbestos Analysis	02/22/2018

Login #	Sample ID	Work Requested	Completed
689360	123	Asbestos Analysis	02/22/2018
689361	124	Asbestos Analysis	02/22/2018
689362	125	Asbestos Analysis	02/22/2018
689363	126	Asbestos Analysis	02/22/2018
689364	127	Asbestos Analysis	02/22/2018
689365	128	Asbestos Analysis	02/22/2018
689366	129	Asbestos Analysis	02/22/2018
689367	130	Asbestos Analysis	02/22/2018
689368	131	Asbestos Analysis	02/22/2018
689369	132	Asbestos Analysis	02/22/2018
689370	133	Asbestos Analysis	02/22/2018
689371	134	Asbestos Analysis	02/22/2018
689372	135	Asbestos Analysis	02/22/2018
689373	136	Asbestos Analysis	02/22/2018
689374	137	Asbestos Analysis	02/22/2018
689375	138	Asbestos Analysis	02/22/2018
689376	139	Asbestos Analysis	02/22/2018
689377	140	Asbestos Analysis	02/22/2018
689378	141	Asbestos Analysis	02/22/2018
689379	142	Asbestos Analysis	02/22/2018
689380	143	Asbestos Analysis	02/22/2018
689381	144	Asbestos Analysis	02/22/2018
689382	145	Asbestos Analysis	02/22/2018
689383	146	Asbestos Analysis	02/22/2018
689384	147	Asbestos Analysis	02/22/2018
689385	148	Asbestos Analysis	02/22/2018
689386	149	Asbestos Analysis	02/22/2018

Login #	Sample ID	Work Requested	Completed
689387	150	Asbestos Analysis	02/22/2018
689388	151	Asbestos Analysis	02/22/2018
689389	152	Asbestos Analysis	02/22/2018
689390	153	Asbestos Analysis	02/22/2018
689391	154	Asbestos Analysis	02/22/2018
689392	155	Asbestos Analysis	02/22/2018
689393	156	Asbestos Analysis	02/22/2018
689394	157	Asbestos Analysis	02/22/2018
689395	158	Asbestos Analysis	02/22/2018
689396	159	Asbestos Analysis	02/22/2018
689397	160	Asbestos Analysis	02/22/2018
689398	161	Asbestos Analysis	02/22/2018
689399	162	Asbestos Analysis	02/22/2018
689400	163	Asbestos Analysis	02/22/2018
689401	164	Asbestos Analysis	02/22/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689286 049 1125 Bldg Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
689287 050 1125 Bldg Analyst: Liliane Mason	Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
689288 051 1125 Bldg Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689289 052 1125 Bldg Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689290 053 1125 Bldg Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689291 054 1125 Bldg Bathroom Analyst: Liliane Mason	12" Floor Tile	Beige Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689292 055 1125 Bldg Bathroom Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689293 056 1125 Bldg Bathroom Analyst: Liliane Mason	Vinyl Base Adhesive	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689294 057 1125-Vents Analyst: Liliane Mason	Caulk	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689295 058 North Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689296 059 North Roof Middle Layer Analyst: Liliane Mason	Built-Up Roof	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689297 060 North Roof Bottom Layer Analyst: Liliane Mason	Built-Up Roof - Bottom Layer	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
689298 061 Middle Roof Analyst: Liliane Mason	Built-Up Roof - Middle Roof	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
689299 062 South Roof Analyst: Liliane Mason	Flashing	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689300 063 Suite G-Anvil Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689301 064 Suite G-R.R. Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689302 065 Suite G-Hallway Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689303 066 Suite G-Office Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689304 067 Suite G-Anvil Analyst: Liliane Mason	2x4 Ceiling Tile	White Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689305 068 Suite G-Hallway Layer-1 Analyst: Liliane Mason	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689305 068 Suite G-Hallway Layer-2 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689306 069 Suite G-Hallway Analyst: Liliane Mason	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689307 070 Suite G-Hallway Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689308 071 Suite G-Hallway Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689309 072 Suite G-Hallway Analyst: Liliane Mason	Vinyl Base Adhesive	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689310 073 Suite G-West End Analyst: Liliane Mason	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689311 074 Suite G-West End Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689312 075 Suite G-West End Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689313 076 Suite G-West End Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689314 077 Suite G-West End Analyst: Liliane Mason	Carpet Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689315 078 Suite G-West End Analyst: Liliane Mason	Ceiling Tile	Tan Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689316 079 Suite F Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689317 080 Suite F Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689318 081 Suite F Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689319 082 Suite F Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689320 083 Suite F Analyst: Liliane Mason	Carpet Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689321 084 Suite F Analyst: Liliane Mason	Ceiling Tile	Tan Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689322 085 Suite E-Basement Analyst: Liliane Mason	Layered Pipe Insulation	Grey Fibrous Homogenous		60% Other	40% Chrysotile
689323 086 Suite E-Basement Analyst: Liliane Mason	Fire Door Core	Grey Fibrous Homogenous		50% Other	50% Chrysotile
689324 087 Suite E-Basement Shower Analyst: Liliane Mason	Cement Board	Grey Non-Fibrous Homogenous		60% Other	40% Chrysotile
689325 088 Suite E Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689326 089 Suite E Analyst: Liliane Mason	Drywall Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333
Location : City of Cedar Rapids
Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689327 090 Suite E Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689328 091 Suite E Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689329 092 Suite E Analyst: Liliane Mason	Ceiling Tile	Tan Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689330 093 Suite E Analyst: Liliane Mason	Carpet Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689331 094 Suite E Analyst: Liliane Mason	Vinyl Base Adhesive	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689332 095 Suite E Bathroom Analyst: Liliane Mason	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689333 096 Suite E Bathroom Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689334 097 Suite D Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689335 098 Suite D Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689336 099 Suite D Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689337 100 Suite D Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689338 101 Suite D Analyst: Liliane Mason	Ceiling Tile	Grey Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689339 102 Suite D Lobby Analyst: Liliane Mason	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689340 103 Suite D Lobby Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333
Location : City of Cedar Rapids
Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689341 104 Suite D Office Analyst: Liliane Mason	12" Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689342 105 Suite D Office Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689343 106 Suite C Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
689344 107 Suite C Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689345 108 Suite C Analyst: Liliane Mason	Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689346 109 Suite C Analyst: Liliane Mason	Ceiling Tile	Grey Fibrous Homogenous	50% Cellulose	50% Other	None Detected
689347 110 Suite C Analyst: Liliane Mason	Vinyl Base Adhesive	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689348 111 Suite C Analyst: Liliane Mason	Carpet Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689349 112 Suite C Analyst: Liliane Mason	Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689350 113 Suite C Analyst: Liliane Mason	Mastic	Yellow/Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689351 114 Suite C Bathroom Analyst: Liliane Mason	Floor Leveler	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689352 115 Suite C-Bathroom-Top Layer Analyst: Liliane Mason	Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689353 116 Suite C-Bathroom-Bottom Layer Analyst: Liliane Mason	Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689354 117 Suite C-Bathroom-Bottom Layer Analyst: Liliane Mason	Mastic	Yellow/Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689355 118 Suite E/F Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	3% Fiberglass	97% Other	None Detected
689356 119 Suite E/F Middle Layer Analyst: Renee Renauer	Roof Field	Black Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
689357 120 Suite E/F Bottom Layer Analyst: Renee Renauer	Roof Field	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
689358 121 Suite E/F Analyst: Renee Renauer	Patch Tar	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
689359 122 Suite E/F Analyst: Renee Renauer	Flashing	Black Fibrous Homogenous	8% Fiberglass	92% Other	None Detected
689360 123 Suite D Analyst: Renee Renauer	Roof Deck	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
689361 124 Suite D Analyst: Renee Renauer	Built Up Roof	Black Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689362 125 Suite D Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
689363 126 Suite D Analyst: Renee Renauer	Roof Field	Black Non-Fibrous Homogenous	25% Cellulose	75% Other	None Detected
689364 127 Suite C Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
689365 128 Suite C Analyst: Renee Renauer	Roof Field	Black Non-Fibrous Homogenous	2% Fiberglass	98% Other	None Detected
689366 129 Storage #1 Analyst: Renee Renauer	Built Up Roof	Black Non-Fibrous Homogenous	75% Cellulose	25% Other	None Detected
689367 130 Storage #1 Analyst: Renee Renauer	Parapet Cap Mastic	Black Non-Fibrous Homogenous	1% Cellulose	95% Other	4% Chrysotile
689368 131 Storage #1 Analyst: Renee Renauer	Parapet Tar	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689369 132 Storage #1 Analyst: Renee Renauer	PatchTar	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
689370 133 Storage #1 Top Layer Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	7% Fiberglass	93% Other	None Detected
689371 134 Storage #1 Bottom Layer Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
689372 135 Storage #2 Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	1% Cellulose 1% Fiberglass	98% Other	None Detected
689373 136 Storage #3 Analyst: Renee Renauer	Rolled Roof	Black Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
689374 137 Main Building Awning Analyst: Renee Renauer	Tar	Black Non-Fibrous Homogenous	1% Cellulose	97% Other	2% Chrysotile
689375 138 Main Building Awning Analyst: Renee Renauer	Tar	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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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 : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689376 139 Exterior Main Building Analyst: Renee Renauer	Window Glazing	Grey Non-Fibrous Homogenous		97% Other	3% Chrysotile
689377 140 Exterior Main Building Analyst: Renee Renauer	Window Glazing	Grey Non-Fibrous Homogenous		97% Other	3% Chrysotile
689378 141 3rd Floor NW Window Analyst: Renee Renauer	Window Glazing	Grey Non-Fibrous Homogenous		97% Other	3% Chrysotile
689379 142 3rd Floor N Middle Analyst: Renee Renauer	Window Glazing	Red Non-Fibrous Homogenous		100% Other	None Detected
689380 143 3rd Floor N.E. Analyst: Renee Renauer	Window Glazing	Red Non-Fibrous Homogenous		100% Other	None Detected
689381 144 3rd Floor W Analyst: Renee Renauer	Window Glazing	White Non-Fibrous Homogenous		100% Other	None Detected
689382 145 2nd Floor N.E. Analyst: Renee Renauer	Window Glazing	Red Non-Fibrous Homogenous		100% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689383 146 2nd Floor W Analyst: Renee Renauer	Window Glazing	White Non-Fibrous Homogenous	1% Cellulose	97% Other	2% Chrysotile
689384 147 1st Floor Analyst: Renee Renauer	Window Glazing	White/Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
689385 148 1st Floor Stairs Analyst: Renee Renauer	Pipe Insulation	Brown Fibrous Homogenous	100% Other fibrous		None Detected
689386 149 1st Floor Stairs on Pipe Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous		93% Other	7% Chrysotile
689387 150 Main Roof Analyst: Renee Renauer	Built Up Roof	Black Non-Fibrous Homogenous		100% Other	None Detected
689388 151 Main Roof Analyst: Renee Renauer	Roof Insulation	Black Non-Fibrous Homogenous	90% Cellulose	10% Other	None Detected
689389 152 Mech Roof Chiller Unit Analyst: Renee Renauer	Caulking	Black Non-Fibrous Homogenous		98% Other	2% Chrysotile

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
 814 Wood Lily Rd
 Solon, IA 52333
Location : City of Cedar Rapids
 Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689390 153 Mech Roof Analyst: Renee Renauer	Flashing	Black Non-Fibrous Homogenous		100% Other	None Detected
689391 154 Mech Roof Analyst: Renee Renauer	Built Up Roof	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
689392 155 Mech Roof Analyst: Renee Renauer	Roof Field	Black Fibrous Homogenous	55% Cellulose	15% Other	30% Chrysotile
689393 156 Elevator Penthouse Analyst: Renee Renauer	Built Up Roof	Black Non-Fibrous Homogenous	13% Cellulose 2% Fiberglass	85% Other	None Detected
689394 157 Elevator Penthouse Analyst: Renee Renauer	Parapet Mastic	Black Non-Fibrous Homogenous	25% Cellulose	75% Other	None Detected
689395 158 3rd Floor NW Cooler Analyst: Renee Renauer	Wall Insulation Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
689396 159 3rd Floor SE Cooler Analyst: Renee Renauer	Wall Insulation Tar	Black Non-Fibrous Homogenous		100% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Hawkeye Environmental
814 Wood Lily Rd
Solon, IA 52333
Location : City of Cedar Rapids
Hubbard Ice Property, Cedar Rapids, IA

ETC Job : 204208
Client Project : N/A
Date Collected : 02/16/2018
Date Received : 02/20/2018
Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689397 160 2nd Floor SW Cooler Analyst: Renee Renauer	Wall Insulation Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
689398 161 2nd Floor SE Cooler Analyst: Renee Renauer	Wall Insulation Tar	Black Non-Fibrous Homogenous		100% Other	None Detected
689399 162 3rd Floor Cooler Analyst: Renee Renauer		Sample Missing			
689400 163 On Pipe Insulation Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous		93% Other	7% Chrysotile

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Date Collected : 02/16/2018
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Date Analyzed : 02/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
689401 164 Ext Elevator Penthouse Layer-1 Analyst: Renee Renauer	Door Caulking	Grey Non-Fibrous Homogenous		100% Other	None Detected
689401 164 Ext Elevator Penthouse Layer-2 Analyst: Renee Renauer	Door Caulk #2	White Non-Fibrous Homogenous	3% Cellulose	97% Other	Trace Chrysotile



Lab Supervisor/Other Signatory



Analyst: Liliane Mason



Analyst: Renee Renauer

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

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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 #: 204208

Client: Hawkeye Environmental	Contact: Steve Henneberry Phone: 319-551-4441	Project Location/name: City of Cedar Rapids Hubbard Ice Property Cedar Rapids, IA
Address: 814 Wood Lily Road, Solon, IA 52333	Fax: E-mail: Steve@Hawkeyeenv.com	
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Client Project #: Date Sampled: 2/16/18; 2/17/18

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

PLM Instructions
(Check all that apply)

<input 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

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Lab ID	Sample ID	Sample Location	Material Description
286	049	drywall (1125 bldg)	gray
287	050	drywall tape ("")	white
288	051	drywall joint compound ("")	white
289	052	drywall joint compound ("")	white
290	053	drywall joint compound ("")	white
291	054	12" floor tile ("" bathroom)	beige
292	055	mastic ("" "")	black
293	056	vinyl base adhesive ("" "")	gray
294	057	caulking (1125 - vents)	black
295	058	shingle (north roof)	black
296	059	built-up roof ("" middle layer)	black
297	060	built-up roof ("" bottom layer)	black

	Date	Time
Relinquished (Name/Organization): Steve Henneberry Hawkeye Environmental	2-19-18	6:00 pm
Received (Name/ETL): <i>Brittany Walls</i>	2/20/18	11:35 am
Stereoscopical Analysis (Name/ETL): <i>Scott J. Kelle</i>	2/20/18	am/pm
Sample Login (Name/ETL): <i>Brittany Walls</i>	2/20/18	11:35 am
Analysis (Name/ETL): <i>Scott J. Kelle</i>	2/20/18	am/pm
QA/QC Review (Name/ETL): <i>Anisa Elmairgi</i>	2/21/18	12:37 am

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

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: 204208

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

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Lab ID	Sample ID	Sample Location	Material Description
298	061	built-up roof (middle roof)	black
299	062	flashing (south roof)	black
300	063	drywall (suite G - anvil)	gray
301	064	joint compound ("" "" R.R.)	white
302	065	joint compound ("" "" hallway)	white
303	066	joint compound ("" "" office)	white
304	067	2x4 ceiling tile (suite G - anvil)	white
305	068	12" floor tile ("" "" hallway)	gray
306	069	"" "" "" ("" "" "")	black
307	070	mastic ("" "" "")	yellow
308	071	carpet mastic ("" "")	yellow
309	072	vinyl base adhesive ("" "")	brown
310	073	drywall (suite G - west end)	gray
311	074	joint compound ("" "")	white
312	075	joint compound ("" "")	white
313	076	joint compound ("" "")	white
314	077	carpet mastic ("" "")	yellow
315	078	2x4 ceiling tile ("" "")	white
316	079	drywall (suite F)	gray
317	080	joint compound ("" "")	white
318	081	joint compound ("" "")	white
319	082	joint compound ("" "")	white
320	083	carpet mastic ("" "")	yellow
321	084	2x4 ceiling tile ("" "")	white
322	085	layered pipe insulation (suite E- basement)	gray
323	086	fire door core ("" "" "")	gray
324	087	cement board ("" "" "" shower)	gray

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: 204208

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

689

Lab ID	Sample ID	Sample Location	Material Description
325	088	drywall (suite E)	gray
326	089	drywall tape (" " ")	white
327	090	joint compound (" " ")	white
328	091	joint compound (" " ")	white
329	092	2x4 ceiling tile (" " ")	white
330	093	carpet mastic (" " ")	yellow
331	094	vinyl base adhesive (" " ")	brown
332	095	12" floor tile (" " " bathroom)	gray
333	096	mastic (" " " ")	yellow
334	097	drywall (suite D)	gray
335	098	joint compound (" " ")	white
336	099	joint compound (" " ")	white
337	100	joint compound (" " ")	white
338	101	2x4 ceiling tile (" " ")	gray
339	102	12" floor tile (" " " lobby)	gray
340	103	mastic (" " " ")	black
341	104	12" floor tile (suite D office)	gray
342	105	mastic (" " " ")	black
343	106	drywall (suite C)	gray
344	107	joint compound (" " ")	white
345	108	joint compound (" " ")	white
346	109	2x4 ceiling tile (" " ")	gray
347	110	vinyl base adhesive (" " ")	brown
348	111	carpet mastic (" " ")	yellow
349	112	floor tile (" " ")	gray
350	113	mastic (" " ")	yellow/brown
351	114	floor leveler (" " " bathroom)	gray

ENVIRONMENTAL TESTING LABORATORIES, INC

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 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
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352	115	floor tile (suite C - bathroom - top layer)	gray
353	116	" " " (" " " bottom layer)	gray
354	117	mastic (" " " ")	yellow/brown
355	118	rolled roof (suite E/F)	black
356	119	roof field (" " " middle layer)	black
357	120	" " " (" " " bottom layer)	black
358	121	patch tar (suite E/F)	black
359	122	flashing (" " ")	black
360	123	roof deck (suite D)	gray
361	124	built up roof (" " ")	black
362	125	rolled roof (" " ")	black
363	126	roof field (" " ")	black
364	127	rolled roof (Suite C)	black
365	128	roof field (" " ")	black
366	129	built up roof (storage #1)	black
367	130	parapet cap mastic (" " ")	black
368	131	parapet tar (" " ")	black
369	132	patch tar (" " ")	black
370	133	rolled roof (" " " top layer)	black
371	134	rolled roof (" " " bottom layer)	black
372	135	rolled roof (Storage # 2)	black
373	136	rolled roof (Storage #3)	black
374	137	tar (main building awning)	black
375	138	" (" " " ")	black
376	139	window glazing (exterior main building)	gray
377	140	" " " (" " " ")	gray
378	141	" " " (3rd floor NW window)	gray

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379	142	window glazing (3rd floor N middle)	red
380	143	window glazing (3rd floor N.E.)	red
381	144	window glazing (3rd floor W)	white
382	145	window glazing (2nd floor N.E.)	red
383	146	window glazing (2nd floor W)	white
384	147	window glazing (1st floor)	black/white
385	148	pipe insulation (1st floor stairs)	brown
386	149	mastic (1st floor stairs on pipe)	black
387	150	built-up roof (main roof)	black
388	151	roof insulation (main roof)	black
389	152	caulking (mech roof chiller unit)	black
390	153	flashing (mech roof)	black
391	154	built-up roof (mech roof)	black
392	155	roof field (mech roof)	black
393	156	built-up roof (elevator penthouse)	black
394	157	parapet mastic (elevator penthouse)	black
395	158	wall insulation tar (3rd floor NW cooler)	black
396	159	wall insulation tar (3rd floor SE cooler)	black
397	160	wall insulation tar (2nd floor SW cooler)	black
398	161	wall insulation tar (2nd floor SE cooler)	black
399	162	pipe insulation (3rd floor cooler)	black
400	163	mastic (on pipe insulation)	black
401	164	door caulking (ext elevator penthouse)	gray

City of Cedar Rapids – Hubbard Ice Property Asbestos Material Photos



Tar Coated Corrugated
Metal



Tar Coated Corrugated
Metal



Chiller Units (caulk)
Mech. Room Roof



Roof Field
Mech. Room Roof



North Elevation Windows
(Caulk & Glazing)



West Elevation Windows
(Caulk & Glazing)

City of Cedar Rapids – Hubbard Ice Property Asbestos Material Photos



Pipe Insulation & Muddied Fittings (Mech Room)



Muddied Fittings & Pipe Mastic (Coolers)



Pipe Mastic (Coolers)



Pipe Mastic (Coolers)



Pipe Mastic (1st Floor Stairwell)



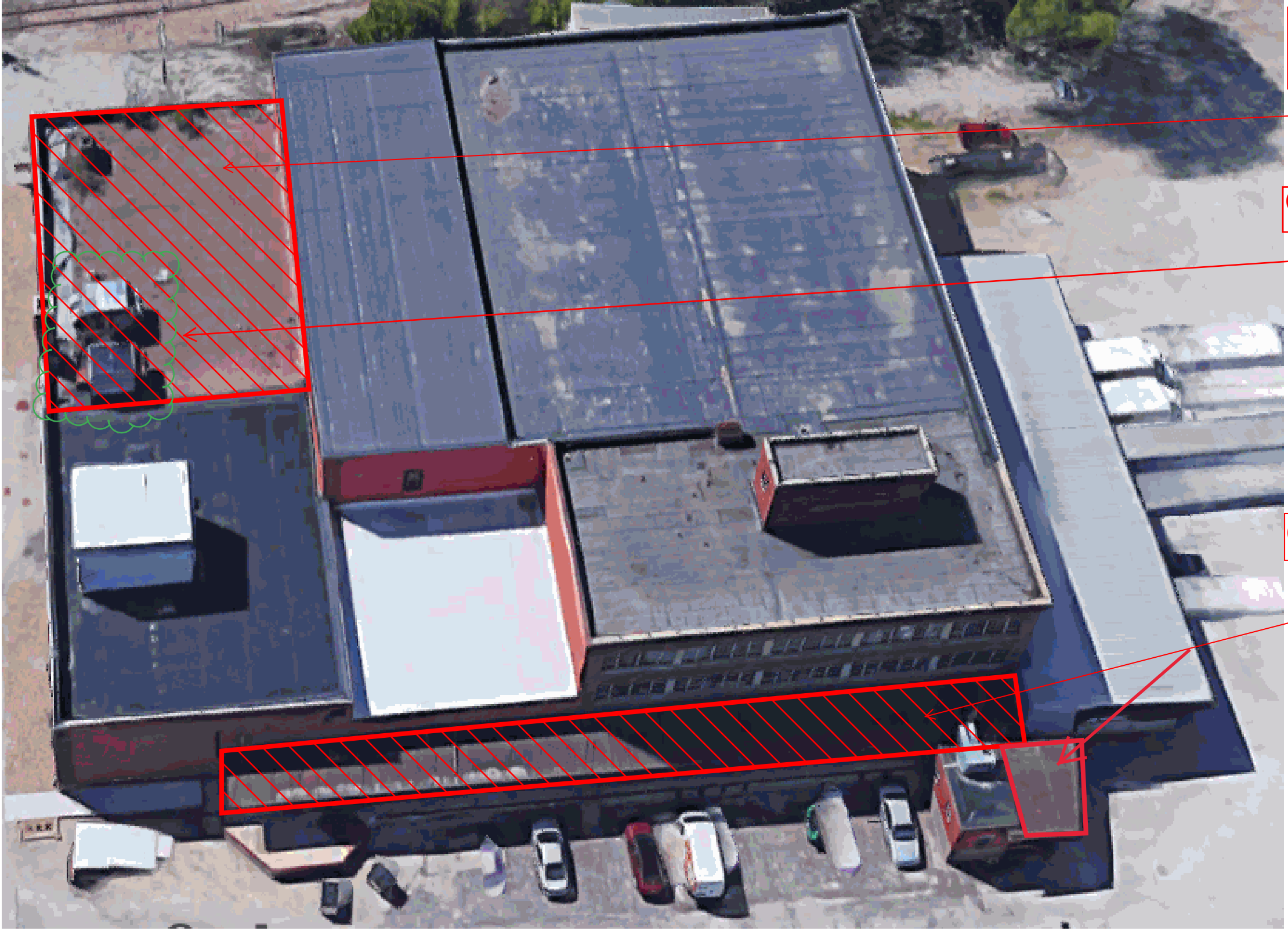
Transite Floor Panel (Mech. Bldg.)



Window Caulk & Glazing
Mechanical Building
(Beneath Metal Panels)

Storage 1 -
Parapet Wall Tar





Built-Up Roofing
(Mech. Bldg. Roof)

Cooling Towers

Corrugated Metal with Tar



Monster Automotive
Detailing

Otis Elevator

Storage 1

Suite E

Elevator Penthouse

Mechanical Building

Distribution Center

K Ave NW

K Ave NW

K Ave NW

L St NW

L St NW

Household Hazardous Waste Inventory

HHW / Recyclable	Description / Notes	Units	Size	Location
Fluorescent Tubes		458	4'	Throughout
Fluorescent Tubes		52	8'	Throughout
Compact Fluorescent Bulb		66	Ea.	Throughout
Televisions	CRT	4	< 25"	Throughout
Computer Monitors	CRT	11	< 22"	Throughout
Fire Extinguishers	ABC Type / Dry Pressurized	14	20# or less	Throughout
Oil	Poly Drum (Approx 10% full)	1	55 Gallon	1125 Bldg.
Oil	Metal or Plastic Container	6	1 Gallon	Throughout
Oil	Plastic Container	12	1 Quart or less	Throughout
Paint	Plastic Container	8	1 Gallon	Throughout
Paint	Plastic Container	12	1 Quart or less	Throughout
Paint	Aerosol Can	14	< 12 oz	Throughout
Solvents	Linseed, turpentine, injector cleaner, polish	9	1 Quart or less	Throughout
Antifreeze	Plastic Container	4	1 Gallon	Throughout
Auto Tire		11	Ea.	Throughout
Rooftop Condenser Unit		10	Ea.	Throughout
Refrigerator	1 Lg commercial, 1 Sm dorm size	2	Ea.	1125 Bldg, Offices
Mini-Split Cooling Unit		1	Ea.	1125 Bldg.
Window Air Conditioner		2	Ea.	Suite C
Misc. Electronic waste	circuit boards, non-crt monitors, low loss combiners, printers, etc.	LS	LS	Throughout