Project #: 13916

ASBESTOS ASSESSMENT Hatcher House Memorial University of Newfoundland St. John's, NL



Prepared for:

Sheila Miller
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EXECUTIVE SUMMARY

ALL-TECH Environmental Services Limited conducted an Asbestos Assessment at Hatcher House, located at Memorial University of Newfoundland (MUN), St. John's, NL. The objective of the assessment was to determine the presence of asbestos containing materials throughout the building. It was determined that:

- Seventeen (17) of the thirty-nine (39) suspect asbestos samples collected contained asbestos greater than 1%. (Newfoundland and Labrador Regulation 111/98, Asbestos Abatement Regulations, 1998 under the Occupational Health and Safety Act.)
- Ceiling texture coat was found to contain 3% Chrysotile asbestos
- 9" x 9" and 1' x 1' vinyl floor tiles, and their mastics, sampled from various locations were found to contain between 2 10% Chrysotile asbestos.
- Pipe fitting insulation was sampled and found to contain 60% Chrysotile asbestos.
- Light fixture heat shields were sampled and found to contain 40 50% Chrysotile asbestos.
- Duct insulation and tank insulation were sampled and both were found to contain 35% Chrysotile asbestos.
- Tar sealant was sampled and found to contain 10% Chrysotile asbestos.
- Exterior window caulking was sampled and found to contain 2% Chrysotile asbestos.
- Suspect asbestos containing transite panels were observed at the exterior of the main entrance of the building. This material was not sampled.

This summary is not to be used alone. This report must be reviewed in its entirety.

Thank you,

Carla Noseworthy, C.E.T.
Environmental Consultant

ALL-TECH Environmental Services Limited

TABLE OF CONTENTS

1.0) INTRODUCTION		1
2.0	ASB	BESTOS ASSESSMENT	1
	2.1 2.2	Scope of Work Methodology	
	2.3	Applicable Standards	2
	2.4 2.5	Survey FindingsRecommendations	9
3.0	DISC	CLAIMER	10
LIST	OF AI	PPENDICES:	
APP	ENDIX ENDIX	(I Photographs (II Laboratory Asbestos Results (III Asbestos Building Survey Report (IV Floor Plans Showing Sampling Locations	

1.0 INTRODUCTION

ALL-TECH Environmental Services Limited was contracted by Sheila Miller, Director – Department of Health and Safety, Memorial University of Newfoundland (MUN), to complete an Asbestos Assessment at Hatcher House located at Memorial University of Newfoundland, St. John's, NL. The purpose of the assessment was to identify the presence of asbestos containing materials located throughout the building. The assessment was conducted in August 2011.

2.0 ASBESTOS ASSESSMENT

Asbestos is a general term which is used to describe a group of fibrous mineral silicates. The six major types of asbestos are; chrysotile (white asbestos), crocidolite (blue), amosite (brown), anthophyllite, tremolite and actinolite. Commercially, asbestos has been used widely in such applications as fireproofing, textiles, friction products, reinforcing materials (i.e. cement pipes, sheets) and insulation (both thermal and acoustic).

Asbestos materials can be found in one of two forms; friable or non-friable. Friable asbestos material refers to material that when dry, can be crumbled, pulverized or reduced to a powder by hand pressure thus releasing fibers into the air. This type of asbestos material is hazardous due to its potential to become airborne if damaged or disturbed. Friable asbestos building products used in the past were sprayed acoustic & fire protection insulations, ceiling/wall finishes, drywall joint compounds, mechanical insulations on pipes, tanks, boilers, vessels, etc. Non-friable building products used in the past were vinyl floor tiles, gaskets, transite panels, and transite shingles. Non-friable materials if handled improperly during removal or renovations, such as cutting transite panels with an electrical tool, can cause high fiber release. Also, non-friable asbestos products can become friable if damaged through years of aging (water damage, general deterioration of materials, etc.).

Asbestos containing materials (ACM) can be properly managed and left in place depending on their location, condition, and friability. Non-friable materials receive less attention than friable materials due to the fact that the asbestos fibers in the non-friable material are bound or held tightly together, reducing the chance of fibers becoming airborne. This makes the non-friable products safer and easier to manage.

The mere presence of asbestos in building materials is not necessarily a problem; however, inhaling asbestos fibers can cause associated health problems. The hazards of asbestos exposure are directly related to the degree to which fibers are released (become airborne). Intact and undisturbed asbestos do not pose a health risk.

2.1 Scope of Work

Representative suspect asbestos containing materials were sampled from wall finishes, various types of flooring, and exterior finishes located throughout the building.

The asbestos assessment involved a visual investigation of representative building structures, wall & ceiling finishes, and flooring for the presence of asbestos materials. If these materials were suspected to contain asbestos, a bulk sample was collected of the representative material.

It should be noted that asbestos containing materials such as piping straight runs & fittings may be present behind existing drywall walls, ceilings, columns, shafts, etc. Since no destructive testing was performed during this assessment, additional care should be taken during renovations/demolition to ensure that no asbestos containing materials are to be disturbed.

2.2 Methodology

A total of thirty-nine (39) suspect asbestos bulk samples were collected from the building. Representative suspect asbestos bulk material samples from floors, wall finishes, ceiling tiles, pipe fitting insulation, sprayed insulation, tar sealants, light fixture heat shields and exterior caulking were carefully collected and placed into labeled sealable plastic bags and transported to the EMSL Analytical Inc. in New Jersey, USA, for Polarized Light Microscopy/ Dispersion Staining (PLM/DS) analysis. The EPA test method for bulk analysis (EPA/600/R-93/116) states in paragraph 2.2.2 that "the detection limit for visual estimation is a function of the quantity of the sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos may be detected in concentrations of less than one percent by area if sufficient material is analyzed. Samples may contain fibers too small to be resolved by PLM (< 0.25 µm in diameter) so detection of those fibers by this method may not be possible."

2.3 Applicable Standards

The province defines Asbestos material as "material containing greater than 1% asbestos by dry weight." Materials identified as ACM must be managed, handled and disposed of as per the Newfoundland and Labrador Regulation 111/98, Asbestos Abatement Regulations, 1998 under the Occupational Health and Safety Act (O.C. 98-730).

Also, the Province of Newfoundland and Labrador have set standards for exposure to airborne asbestos fibres to as low as is reasonably achievable (ALARA) but in any case shall not exceed Threshold Limit Values (TLVs) as published by the American Conference of Governmental Industrial Hygienists (ACGIH) and are primarily used for the occupational exposure to employees and workers who from day to day come in contact with asbestos. ACGIH guidelines state the airborne asbestos limit as follows:

 Asbestos (all forms) 0.1 fibres per cubic centimetre (f/cc) as determined by air sampling following the NIOSH 7400 Asbestos and Other Fibres by Phase Contrast Microscopy. The Newfoundland Asbestos Abatement Regulations 111/98 requires that all employers, building owners and principal contractors follow this Regulation when handling or using asbestos in their workplace. This Regulation applies to every workplace covered under the Occupational Health and Safety Legislation where asbestos or materials containing asbestos, is likely to be handled, dealt with, disturbed or removed and includes every project, project owner, contractor, employer and employee engaged in or on the project. An owner/contractor to whom this Regulation applies shall take every reasonable precaution to ensure that every worker who is not an employee of the owner/contractor and who works in the workplace of the owner/contractor is protected and every such worker shall comply with the requirements of this Regulation.

2.4 Survey Findings

Laboratory analysis confirmed that seventeen (17) of the thirty-nine (39) bulk samples collected from the building contained asbestos greater than 1%. Table 1.0 below illustrates the results of this sampling. **See Appendix II - Laboratory Asbestos Results.**

Table 1.0
Summary of Suspect Asbestos Containing Materials Tested
Hatcher House
Memorial University of Newfoundland
St. John's, NL

Sample No.	Sample Description and Location	Asbestos Results
HA-1	9" x 9" Vinyl Floor Tile – dark grey with white – HA5S03	8% Chrysotile
	Mastic	5% Chrysotile
HA-2	2' x 2' Ceiling Tile, fissure / pinhole - HA5C01	None Detected
HA-3	Plaster – HA5C01	None Detected
HA-4	9" x 9" Vinyl Floor Tile – white with green – HA537	6% Chrysotile
	Mastic	3% Chrysotile
HA-5	Light Fixture Heat Shield – HA537	40% Chrysotile
HA-6	Light Fixture Heat Shield – HA532	40% Chrysotile
HA-7	Plaster – HA532	None Detected

	1' x 1' Vinyl Floor Tile – grey mix – HA5C01	N 5
HA-8	Common Area	None Detected
	Mastic	None Detected
HA-9	Tar Sealant on Fibreglass Pipe – HA5C01	None Detected
HA-10	Spray Fireproofing – HA5C01	None Detected
HA-11	Pipe Fitting Insulation – HA507	60% Chrysotile
HA-12	Duct Insulation – HA519	35% Chrysotile
HA-13	9" x 9" Vinyl Floor Tile – blue with white – HA4C03	8% Chrysotile
	Mastic	3% Chrysotile
HA-14	1' x 1' Ceiling Tile – fissures – HA4C03	None Detected
HA-15	1' x 1' Vinyl Floor Tile – HA401	None Detected
HA-15	Mastic	None Detected
HA-15A	9" x 9" Vinyl Floor Tile – medium grey with white, dark grey – HA403	10% Chrysotile
	Mastic	None Detected
HA-16	1' x 1' Vinyl Floor Tile – beige with brown – HA409	None Detected
11/10	Mastic	None Detected
HA-17	Vinyl Sheet Flooring – brown mix – HA415	None Detected
	Mastic	None Detected
HA-18	1' x 1' Vinyl Floor Tile – green mix – HA414A	None Detected
HA-19	Drywall Joint Compound – HA415	None Detected
HA-20	1' x 1' Vinyl Floor Tile – light grey mix – HA431	None Detected
HA-21	Plaster – HA321	None Detected
HA-22	Vinyl Sheet Flooring - green – HA311	None Detected
11/1-22	Mastic	None Detected
HA-23	1' x 1' Vinyl Floor Tile – cream with brown, white – HA304	None Detected
	Mastic	3% Chrysotile

HA-24	Light Fixture Heat Shield – HA3C01	50% Chrysotile
HA-25	1' x 1' Vinyl Floor Tile – white with black – HA3S01	None Detected
11/(20	Mastic	None Detected
HA-26	2' x 4' Ceiling Tile – square pattern – HA2C01	None Detected
HA-27	Plaster – HA2C01	None Detected
HA-28	1' x 1' Vinyl Floor Tile – dark grey with white – HA2S02	None Detected
	Mastic	3% Chrysotile
HA-29	Spray Fireproofing - HA208	None Detected
HA-30	Vinyl Sheet Flooring – brown mix – HA211	None Detected
HA-31	Texture Coat – HA211	3% Chrysotile
	1' x 1' Vinyl Floor Tile – cream mix – HA207	None Detected
HA-32	Mastic	None Detected
HA-33	Tar Sealant on Fiberglass Duct – HA1C02	10% Chrysotile
HA-34	Tank Insulation – HA114	35% Chrysotile
	9" x 9" Vinyl Floor Tile - Red – HA114	10% Chrysotile
HA-35	Mastic	4% Chrysotile
HA-36	1' x 1' Vinyl Floor Tile – light grey with medium grey – HA117	2% Chrysotile
	Mastic	None Detected
HA-37	Exterior Window Caulking	2% Chrysotile
HA-38	Wall Cavity Plaster – HA411	None Detected

Mechanical and Pipe Material

Pipe fitting insulation which could potentially contain asbestos was observed in select areas throughout the building during this assessment. Samples were collected and analyzed for asbestos content using the PLM method of detection and found to contain 60% Chrysotile asbestos (see sample HA-11 in Appendix II, Photographs 1-8, Appendix I)

Duct seam insulation was observed in select locations throughout the building during the assessment. Samples were collected and analyzed for asbestos content using the PLM method of detection and found to contain 35% Chrysotile asbestos. The duct insulation

that was sampled in Room HA519 was observed to be in poor condition. (see sample HA-12 in Appendix II,)

Duct insulation observed in Room HA-218 was too high to access for visual inspection or sample collection, thus is must be considered to be asbestos containing until proven otherwise. (see Photograph 9, Appendix I)

Tank insulation observed in Room HA-114 was sampled and analyzed for asbestos content using the PLM method of detection. The sample was found to contain 35% Chrysotile asbestos. The insulation was observed to be in good condition. (see sample HA-34 in Appendix II, Photograph 10, Appendix I)

However, it should be noted that asbestos containing pipe insulation may be located behind fixed wall cavities and ceiling plenums that were inaccessible at the time of assessment. During demolition precautionary measures must be taken to avoid disturbing any potential ACM in these areas.

Acoustic and Thermal Insulating Products

Two tar sealants were observed during the building assessment. One (1) sample of the sealant was observed on linear fiberglass pipe above the ceiling tiles located in HA5C01. The tar sealant was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. One (1) sample of tar sealant was observed on foil on duct insulation found above the ceiling tiles located in HA1C02. The tar sealant was collected and analyzed for asbestos content using the PLM method of detection. The sample was found to contain 10% Chrysotile asbestos. Tar sealants throughout the building must be considered to be asbestos containing (see samples HA-9 and HA-33 in Appendix II, Photograph 11, Appendix I,)

Friable Acoustic Texture Coats and Plaster Finishes

Plaster finishes were observed throughout the building during the assessment. Five (5) samples of this material were sampled and analyzed for asbestos content using the PLM method of detection. The samples were identified as non-asbestos containing. (see samples HA-3, HA-7, HA-21, HA-27, HA-38 in Appendix II).

Drywall joint compound (DJC) finishes were observed in select locations within the building during the assessment. One (1) sample was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample HA-19 in Appendix II).

Texture coating on ceilings were observed in select locations within the building during the assessment. One (1) sample was collected and analyzed for asbestos content using the PLM method of detection. The sample was found to contain 3% Chrysotile asbestos. (see sample HA-31 in Appendix II, Photograph 12 in Appendix I).

It should be noted that due to the uncertainty of when and where a specific type of texture coating was used, it is to be assumed that texture coating present in the building contains asbestos.

Friable Acoustic and Thermal Fireproofing Products

Two locations of sprayed fireproofing were observed during the building survey. Samples were collected from both locations and analyzed for asbestos content using the PLM method of detection. The samples were identified as non-asbestos containing. (see samples HA-10, HA-29 in Appendix II)

Friable Ceiling Tiles / Ceiling Tile Adhesives

1' x 1' ceiling tiles were observed in select areas of the building during the assessment. One (1) sample of this material was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample HA-14 in Appendix II).

2' x 2' ceiling tiles were observed in select areas of the building during the assessment. One (1) sample of this material was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample HA-2 in Appendix II)

2' x 4' ceiling tiles were observed in select areas of the building during the assessment. Many of these tiles contained a date stamp located on the back of the tile, indicating the manufacturing date. Based on this date, they were not suspected to contain asbestos. One (1) additional sample of 2' x 4' ceiling tile with a large square pattern was sampled and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample HA-26 in Appendix II)

Vinyl Sheet/Linoleum Flooring

Various vinyl sheet floorings which could potentially contain asbestos were identified in the building during the assessment. Three (3) samples of this flooring were sampled and analyzed for asbestos content using the PLM method of detection. The samples and their associated mastics were identified as non-asbestos containing. (see samples HA-17, HA-22, HA-30 in Appendix II)

Non-Friable Vinyl Floor Tiles/ Floor Tile Adhesives

Vinyl floor tiles which could potentially contain asbestos were identified during the assessment. Nine (9) samples of 1' x 1' vinyl floor tiles were sampled and analyzed for asbestos content using the PLM method of detection. One (1) tile was found to contain 2% Chrysotile asbestos. Two (2) of the associated mastics were identified as containing 3% Chrysotile asbestos (See samples HA-8, HA-15, HA-16, HA-18, HA-20, HA-23, HA-25, HA-28, HA-32, HA-36 in Appendix II, see Photograph 13, Appendix I)

Five (5) samples of 9" x 9" vinyl floor tiles were sampled and analyzed for asbestos content using the PLM method of detection. All of the samples were identified as containing between 6 and 10% Chrysotile asbestos. Four (4) of their associated mastics were identified as containing between 3 and 5% Chrysotile asbestos. (See samples HA-1, HA-13, HA-15A, HA-35 in Appendix II, Photographs 14 - 18, Appendix I)

Non-Friable Transite Panels, Sheeting and Shingles

Suspect asbestos containing transite paneling was observed on the exterior overhang and the main entrance of the building. This material was not sampled, as doing so would compromise the integrity of the material. As such, it must be considered to be asbestos containing until proven otherwise. (see Photograph 19, Appendix I)

Non-Friable Transite Piping

Transite piping was not observed during the assessment.

Electrical Wiring/ Lighting

Three (3) types of light fixture heat shields were observed throughout the building. Samples were collected and analyzed for asbestos content using the PLM method of detection, and were found to contain 40 - 50% Chrysotile asbestos (see samples HA-5, HA-6, HA-24 in Appendix II, see Photograph 19 - 21 in Appendix I).

Roofing Materials

Access to the roof was not available at the time of the assessment.

Other Materials

One (1) sample of exterior window caulking was collected from the front of the building, was analyzed for asbestos content using the PLM method of detection. The sample was found to contain 2% Chrysotile asbestos. (see sample HA-37 in Appendix II)

Interior window caulking was not sampled during the assessment.

2.5 Recommendations

The assessment identified that numerous materials contained a concentration of asbestos equal to or greater than 1% by dry weight. According to regulations, the owner of any building/ residence is required to implement and maintain specific health and safety measures, therefore the following recommendations are provided:

- All materials listed in fair and/or poor condition are to be repaired or removed immediately. See APPENDIX III – Asbestos Building Survey Information for materials condition and locations.
- Ensure that prior to and during any major renovations/demolition extreme
 caution is implemented to make certain that asbestos containing materials
 are not disturbed. It should be noted that asbestos containing materials
 may be concealed behind fixed walls/ceiling plenums and under existing
 sub-floors.
- Ensure that when disturbing asbestos materials, the asbestos removal contractor follows all federal and provincial regulations in accordance to the Newfoundland and Labrador Regulation 111/98.
- Retain a copy of this report on-site for future reference of friable and non-friable asbestos products.
- Provide asbestos air monitoring and inspection during the removal of asbestos to ensure that all government guidelines and regulations are followed throughout the removal process.

3.0 DISCLAIMER

This report was prepared by ALL-TECH Environmental Services Limited for the sole benefit of our client Ms. Sheila Miller. The information in the report is based on information provided or obtained by ALL-TECH. The report is based on ALL-TECH's best judgment with the information provided at the time of the assessment. Any use and/or conclusions used by any third party, is the responsibility of that third party. ALL-TECH accepts no liability and/or damages occurred by any third party that uses information obtained in this report.

If you have any questions regarding this report, please do not hesitate to call me at (709) 754-4146.

Thank You,

Carla Noseworthy, CEP Environmental Consultant

ALL-TECH Environmental Services Limited

Reviewed by:

Orven Newhook, B.Sc.

Project Manager

ALL-TECH Environmental Services Limited

APPENDIX IPHOTOGRAPHS OF ASBESTOS CONTAINING MATERIALS



Photograph 1: Pipe fitting insulation in the Corridor HA1C03, in poor condition. Limited viewing was available above the ceiling tiles.



Photograph 2: Pipe fitting insulation in Stairway HA1S03, in poor condition.

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Carla Noseworthy, CET	Hatcher House	August 18, 2011
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	St. John's, NL	



Photograph 3: Pipe fitting insulation in Room HA101, in poor condition.



Photograph 4: Pipe fitting insulation in Room HA208, in poor condition.

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ALL-TECH Environmental	Memorial University of Newfoundland	_
	St. John's, NL	

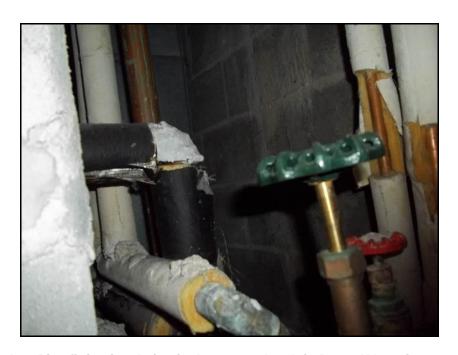


Photograph 5: Pipe fitting insulation in Stairway HA3S03, in poor condition.



Photograph 6: Pipe fitting insulation in the access hatch in Room HA321, in poor condition.

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	St. John's, NL	



Photograph 7: Pipe fitting insulation in the access hatch in Room HA422 in poor condition.



Photograph 8: Pipe fitting insulation in the shower of Room HA507 in poor condition..

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	St. John's, NL	



Photograph 9: Duct in Room HA208, too high to assess. As such it must be considered to be asbestos containing until proven otherwise.



Photograph 10: Asbestos containing tank insulation in Room HA114.

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Photograph 11: Asbestos containing tar sealant on fiberglass duct above the ceiling tiles in Corridor HA1C02.

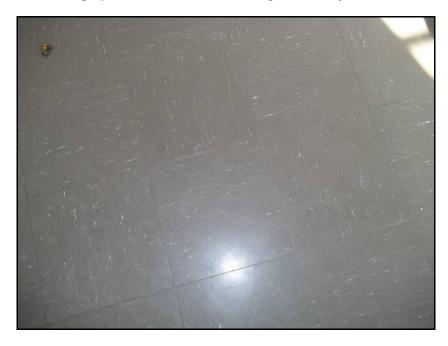


Photograph 12: Asbestos containing texture coat on the ceilings of HA210 and HA211.

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Photograph 13: Asbestos containing 1' x 1' vinyl floor tile.



Photograph 14: Asbestos containing 9" x 9" vinyl floor tile, sample HA-1.

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Photograph 15: Asbestos containing 9" x 9" vinyl floor tile, sample HA-4.



Photograph 16: Asbestos containing 9" x 9" vinyl floor tile, sample HA-13

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Photograph 17: Asbestos containing 9" x 9" vinyl floor tile, sample HA-15A



Photograph 18: Asbestos containing 9" x 9" vinyl floor tile, sample HA-35.

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Photograph 19: Suspect asbestos containing transite ceiling panel (and asbestos containing light fixture heat shields, HA-6) exterior of the main entrance to the building.



Photograph 20: Asbestos containing light fixture heat shields, HA-6.

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Photograph 21: Asbestos containing light fixture heat shields, HA-24.

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ALL-TECH Environmental	Memorial University of Newfoundland	_
	St. John's, NL	

APPENDIX IILABORATORY ASBESTOS RESULTS



200 Route 130 North, Cinnaminson, NJ 08077

Attac Carla Noseworthy
All-Tech Environmental Services Limited 151 Crosbie Road Suite 402

Customer ID: Customer PO: Received: EMSL Order:

St. John's, NL A1B 4B4

Phone: (709) 754-4146

Analysis Date: 8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

EMSL Proj:

ATES44D

041123002

08/24/11 9:20 AM

		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Pibrous	% Non-Pibrous	% Type
HA-1-Ploor Tile 041123002-0001	- 9 X9 RT- DK GREY W/WHITE	Gray Non-Pibrous Homogeneous	HA: HA 55503	92% Non-fibrous (other)	8% Chrysotile
HA-1-Maxtic 041123002-0001A	- 9 X9 RT- DK GREY W/WHITE	Black Non-Pibrous Homogeneous	HA: HA55503	95% Non-fibrous (other)	5% Chrysotile
HA-2 041123002-0002	- 2 X2 CT - PISSURE /PINHOLE	White Fibrous Homogeneous	40% Cellulose 40% Min. Wool HA: HA5001	20% Non-fibrous (other)	None Detected
HA-3 041123002-0003	- PLASTER	White Non-Pibrous Homogeneous	HA: HA5001	100% Non-fibrous (other)	None Detected
HA-4-Ploor Tile 041123002-0004	-9 X 9 VT - WHITE W/ GREEN	White Non-Pibrous Homogeneous	HA: HAS37	94% Non-fibrous (other)	6% Chrysotile

Report Amended: 08/29/2011	15:33:50 Replaces the Inital Report 05/24/2011	19:21:51. Reason Code: Data Entry-Change to Appearance
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Analyst(s)	Strole Segul
Melanie Koenig (54)	Stephen Stegel, CIH, Laboratory Manager or other approved signatory

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yard by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AHA-LAP, LLC-HLAP Lab 100104, NYS ELAP 10872, NJ DEP 03036



200 Route 130 North, Clinnaminson, NJ 08077

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Suite 402

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Phone: (709) 754-4146

EMSL Proj: Project: 13916/HATCHER

8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

ATES44D

041123002

08/24/11 9:20 AM

Customer PO: Received:

EMSL Order:

		Non-Asbestos			Asbestos	
Sample D	Description	Appearance	% Pib	rous	% Non-Pibrous	% Type
HA-4-Maxisc 041123002-0004A	-9X9VT- WHITE W/ GREEN	Black Non-Fibrous Homogeneous	HA: HA537		97% Non-fibrous (other)	3% Chrysotile
HA-5 041123002-0005	- LIGHT FIXTURE HEAT SHELD	Tan Fibrous Homogeneous	10% Ce	Bulcae	50% Non-fibrous (other)	40% Chrysotile
HA-6 041123002-0006	- LIGHT FIXTURE HEAT SHELD	Tan Fibrous Homogeneous	10% Ce	Bulcne	50% Non-fibrous (other)	40% Chrysotlie
HA-7 041123002-0007	- PLASTER	White Non-Fibrous Homogeneous	HA: HA532		100% Non-fibrous (other)	None Detected
HA-8-Ploor Tile 041123002-0008	-1 X 1 VT- GREY MIX	Gray/Blue Non-Fibrous Homogeneous	HA: HASCO1		100% Non-fibrous (other)	None Detected

Report Amended: 05/29/2011 1	15:33:50 Replaces the Inital Report 05/24/201	1 19:21:51. Reason Code: Data Entry-Change to Appearance
Analyst(s)		Style Sign
Melanie Koenig (54)		Stephen Siegel, CIH, Laboratory Manager or other approved storatory

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emples analyzed by EMSL Analytical, Inc. Circuminson, NJ NVLAP Lab Code 101048-0, AHA-LAP, LLC-HLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Phone: (709) 754-4146

Project: 13916/HATCHER

ATES44D

Customer ID: Customer PO: Received: 08/24/11 9:20 AM

EMSL Proj:

EMSL Order:

041123002

Analysis Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos
Sample	Description	Appearance	% Pibrous	% Non-Pibrous	% Type
HA-8-Maxtic 041123002-0008A	-1X1VT-GREY MIX	Black Non-Fibrous Homogeneous	HA: HA5C01	100% Non-fibrous (other)	None Detected
HA-9 041123002-0009	- TAR SEALANT	Black Non-Fibrous Homogeneous	HA: HA5001	100% Non-fibrous (other)	None Detected
HA-10 041123002-0010	- FIRE PROOFING	Gray Fibrous Homogeneous	30% Cellulose 40% Min. Wool HA: HASCO1	30% Non-fibrous (other)	None Detected
HA-11 041123002-0011	- PIPE FITTNIG - INSULATION	Gray Fibrous Homogeneous	HA: HASST	40% Non-fibrous (other)	60% Chrysotile
HA-12 041123002-0012	- DUCT INSULATION	Gray Fibrous Homogeneous	HA: HA519	65% Non-fibrous (other)	35% Chrysotile

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200 Route 130 North, Clinnaminson, NJ 08077

Phone: (709) 754-4146

After Carla Noseworthy
All-Tech Environmental Services Limited 151 Crosbie Road Suite 402

Customer PO: Received:

ATES44D 08/24/11 9:20 AM 041123002

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St. John's, NL A1B 4B4

EMSL Proj:

Project: 13916/HATCHER

8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Ar	Asbestos	
Sample	Description	Appearance	% Pibrous	% Non-Pibrous	% Type
HA-13-Ploor Tile 041123002-0013	- 9 X9 - BLUE W/ WHITE	Non-Pibrous Homogeneous	HA: HA4C03	92% Non-fibrous (other)	8% Chrysotile
HA-13-Mastic 041123002-0013A	-9 X9 - BLUE W/ WHITE	Black Non-Pibrous Homogeneous	HA: HA4C03	97% Non-fibrous (other)	3% Chrysotile
HA-14 041123002-0014	-1X1CT- PISSURES	White Fibrous Homogeneous	85% Min. Wool HA: HA4C03	15% Non-fibrous (other)	None Detected
HA-15-Floor Tile 041123002-0015	- 1 X 1 - WHITE W/ BLACK	White Non-Pibrous Homogeneous	HA: HA401	100% Non-fibrous (other)	None Detected
HA-15-Mastic 041123002-0015A	- 1 X 1 - WHITE W/ BLACK	Black Non-Pibrous Homogeneous	HA: HA401	100% Non-fibrous (other)	None Detected

Report Amended: 08/29/2011	15:33:50 Replaces the Inital Report 05/24/2011	19:21:51. Reason Code: Data Entry-Change to Appearance	
Analyst(x)		Sozole_ Siegel	

Melanie Koenig (54) Stephen Siegel, CIH, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Circuminson, NJ NVLAP Lab Code 101048-0, AHA-LAP, LLC-HLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Phone: (709) 754-4146

Project: 13916/HATCHER Analysis Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

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			Non-	Asbestos	
Sample	Description	Appearance	% Pibrous	% Non-Pibrous	% Type
HA-15A-Ploor Tile 041123002-0016	- 9 X 9 MED GREY W/WHITE, DK GREY	Gray Non-Pibrous Homogeneous	HA: HA403	90% Non-fibrous (other)	10% Chrysotile
HA-15A-Mastic 041123002-0016A	- 9 X 9 MED GREY W/WHITE, DK GREY	Black Non-Fibrous Homogeneous	HA: HA403	100% Non-fibrous (other)	None Detected
HA-16-Ploor Tile 041123002-0017	-1X1VT - BEIGE W/ BROWN	Beige Non-Fibrous Homogeneous	HA: HA409	100% Non-fibrous (other)	None Detected
HA-16-Mastic 041123002-0017A	-1X1VT- BEIGE W/ BROWN	Black Non-Pibrous Homogeneous	HA: HA409	100% Non-fibrous (other)	None Detected
HA-17-Flooring 041123002-0018	- VSF - BROWN MIX	Brown Non-Fibrous Homogeneous	HA: HA415	100% Non-fibrous (other)	None Detected

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Phone: (709) 754-4146

Project: 13916/HATCHER Analysis Date: 8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

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	Description	Non-Asbestos			Asbestos
Sample		Appearance	% Pibrous	% Non-Pibrous	% Type
HA-17-Mastic 041123002-0018A	- VSF - BROWN MIX	Yellow Non-Pibrous Homogeneous	HA: HA415	100% Non-fibrous (other)	None Detected
HA-18 041123002-0019	- 1 X 1 VT - GREEN MIX	Green Non-Fibrous Homogeneous	HA: HA414A No mastic.	100% Non-fibrous (other)	None Detected
HA-19 041123002-0020	- DJC	White Non-Fibrous Homogeneous	HA: HA415	100% Non-fibrous (other)	None Detected
HA-20 041123002-0021	- 1 X 1 VT- IT GREY MIX	Gray Non-Fibrous Homogeneous	HA: HA431 No mastic.	100% Non-fibrous (other)	None Detected
HA-21 041123002-0022	- PLASTER	Gray/White Non-Pibrous Homogeneous	3% Cellulose HA: HA432	97% Non-fibrous (other)	None Detected

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EMSL Proj: Project: 13916/HATCHER

Analysis Date: 8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description	Non-Asbestos			Asbestos
Sample		Appearance	% Pibrous	% Non-Pibrous	% Type
HA-36-Floor Tile 041123002-0023	-1X1VT-IT GREY W/MED GREY	Gray Non-Pibrous Homogeneous	HA: HA117	98% Non-fibrous (other)	2% Chrysotile
HA-36-Mustic 041123002-0023A	-1X1VT-IT GREYW/MED GREY	Black Non-Fibrous Homogeneous	HA: HA117	100% Non-fibrous (other)	None Detected
HA-22-Flooring 041123003-0024	-VSF	Green Non-Pibrous Homogeneous	HA: HA311	100% Non-fibrous (other)	None Detected
HA-22-Mustic 041123002-0024A	-VSF	Yellow Non-Pibrous Homogeneous	HA: HA311	100% Non-fibrous (other)	None Detected
HA-23-Ploor Tile 041123002-0025	-1X1 VT - CREAM W/ BROWN, WHITE	Cream Non-Pibrous Homogeneous	HA: HA304	100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

% Type - 1 X 1 VT - Black
CREAM W/ Non-Fibrous
BROWN, WHITE Homogeneous HA-23-Mastic 97% Non-fibrous (other) 3% Chrysotile 041123002-0025A - LIGHT FIXTURE HEAT SHIELD HA-24 50% Non-fibrous (other) 50% Chrysotile 041123002-0026 Fibrous - 1 X 1 VT - White WHITE W/ BLACK Non-Pibrous 100% Non-fibrous (other) None Detected HA-25-Floor Tile 041123002-0027 -1 X 1 VT - Black
WHITE W/ BLACK Non-Pibrous
Homogeneous None Detected HA-25-Mastic 100% Non-fibrous (other) 041123002-0027A -2 X 4 CT-SQUARE PATTERN None Detected HA-26 Gray/White 50% Cellulose 20% Non-fibrous (other) Fibrous Homogeneous 30% Min. Wool

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Project: 13916/HATCHER

Project: 13916/HATCHER Analysis Date: 8/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description	Non-Asbestos			Asbestos
Sample		Appearance	% Pibrous	% Non-Fibrous	% Type
HA-27 041123002-0029	- PLASTER	White Non-Fibrous Homogeneous	HA: HA2C01	100% Non-fibrous (other)	None Detected
HA-28-Floor Tile 041123002-0030	- 1 X 1 VT - DK GREY W/WHITE	Gray Non-Pibrous Homogeneous	HA: HA2502	100% Non-fibrous (other)	None Detected
HA-28-Mastic 041123002-0030A	- 1 X 1 VT - DK GREY W/WHITE	Black Non-Fibrous Homogeneous	HA: HA2502	97% Non-fibrous (other)	3% Chrysotile
HA-29 041123002-0031	- FIRE PROOFING	Gray Fibrous Homogeneous	80% Min. Wool HA: HA298	20% Non-fibrous (other)	None Detected
HA-30 641123002-0032	- VSF- BROWN MIX	Brown Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected

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Analyst(x)

Melanie Koenig (54)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			_		
			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Pibrous	% Non-Pibrous	% Type
HA-31 041123002-0033	- TEXTURE COAT	White Non-Pibrous Homogeneous	HA: HA211	97% Non-fibrous (other)	3% Chrysottle
HA-32-Ploor Tile 041123002-0034	-1X1VT - CREAM MIX	Cream Non-Pibrous Homogeneous	HA: HAZIIT	100% Non-fibrous (other)	None Detected
HA-32-Mastic 041123002-0034A	-1X1VT - CREAM MIX	Yellow Non-Pibrous Homogeneous	HA: HAZIIT	100% Non-fibrous (other)	None Detected
HA-33 041123002-0035	- TAR ON FIBERGLASS DUCT	Black Non-Pibrous Homogeneous	HA: HA1002	90% Non-fibrous (other)	10% Chrysotile
HA-34 041123002-0036	- TANK INSULATION	Gray Fibrous Homogeneous	No. 101114	65% Non-fibrous (other)	35% Chrysottle

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
HA-35-Floor Tile 041123002-0037	-9 X 9 - RED	Brown/Red Non-Pibrous Homogeneous	HA: HA114	90% Non-fibrous (other)	10% Chrysotile
HA-35-Mastic 041123002-0037A	-9 X 9 - RED	Black Non-Pibrous Homogeneous	HA: HA114	96% Non-fibrous (other)	4% Chrysotile
HA-37 041123002-0038	- EXTERIOR WINDOW CAULKING	Gray Non-Pibrous Homogeneous	HA: HA36	98% Non-fibrous (other)	2% Chrysotile
HA-38 041123002-0039	- WALL CAVITY PLASTER	White Non-Pibrous Homogeneous	HA: HA411	100% Non-fibrous (other)	None Detected

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APPENDIX IIIASBESTOS BUILDING SURVEY INFORMATION

Asbestos Bldg Survey Information -- Hatcher House

Room # Bldg. Syster	Plda Systom	Component	Material Type	Access		Cor	nditions		Quantity	Sample No.	Sample	Sample	Result
KOOIII #	Bidg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
Exterior			Window Caulking	A - C	x					HA-37	Window at Ground Level	White Caulking	2% Chrysotile
HA1C02			Vinyl Floor Tile	А	х				~ 250 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA1C02			Pipe Fitting Insulation	С	х				2	HA-11		Grey Insulation	60% Chrysotile
HA1C02			Tar on Fibreglass Pipe	С	х					HA-33	Fibreglass Pipe, above ceiling tile	Black Tar	10% Chrysotile
HA1C03			Vinyl Floor Tile	А	х				~ 600 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA1C03			Tile Mastic	Α	х				~ 600 ft ²	HA-13		Black	3% Chrysotile
HA1C03			Pipe Fitting Insulation	А			x		5	HA-11		Grey Insulation	60% Chrysotile
HA1S01			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA1S01			Tile Mastic	А	х				~ 200 ft ²	HA-4		Black	3% Chrysotile
HA1S01			Pipe Fitting Insulation	А	х				12	HA-11		Grey Insulation	60% Chrysotile
HA1S02			Vinyl Floor Tile	Α	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA1S02			Tile Mastic	Α	Х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA1S03			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA1S03			Tile Mastic	Α	х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA1S03			Pipe Fitting Insulation	А	х				12	HA-11		Grey Insulation	60% Chrysotile
HA1S03			Pipe Fitting Insulation	А			х		4	HA-11		Grey Insulation	60% Chrysotile
HA101			Pipe Fitting Insulation	А			х		1	HA-11		Grey Insulation	60% Chrysotile
HA101			Pipe Fitting Insulation	А	х				9	HA-11		Grey Insulation	60% Chrysotile
HA103			Pipe Fitting Insulation	С	х				10	HA-11		Grey Insulation	60% Chrysotile
HA104			Pipe Fitting Insulation	С	х				5	HA-11		Grey Insulation	60% Chrysotile
HA104			Pipe Fitting Insulation	С			х		1	HA-11		Grey Insulation	60% Chrysotile
HA106			Pipe Fitting Insulation	С	х				6	HA-11		Grey Insulation	60% Chrysotile
HA107 / HA107A			Vinyl Floor Tile	Α	х				~ 120 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA107 / HA107A			Tile Mastic	А	х				~ 120 ft ²	HA-1		Black	5% Chrysotile

D #	BLI- Conton		Banks wild Towns			Cor	nditions		0	Carrada Na	Sample	Sample	Dla
Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA107 / HA107A			Vinyl Floor Tile	А	x				~ 65 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA107 / HA107A			Light Fixture Heat Shield	А	х				1	HA-5		Grey with Foil Backing	40% Chrysotile
HA110			Pipe Fitting Insulation	С	х				5	HA-11		Grey Insulation	60% Chrysotile
HA110A			Pipe Fitting Insulation	С			х		4	HA-11		Grey Insulation	60% Chrysotile
HA110A			Pipe Fitting Insulation	С	х				11	HA-11		Grey Insulation	60% Chrysotile
HA111			Pipe Fitting Insulation	С	х				1	HA-11		Grey Insulation	60% Chrysotile
HA114			Vinyl Floor Tile	Α	Х				~ 50 ft ²	HA-35		9" x 9" Red Tile	10% Chrysotile
HA114			Tile Mastic	Α	Х				~ 50 ft ²	HA-35		Black	4% Chrysotile
HA114			Pipe Fitting Insulation	A/C	х				~ 50	HA-11		Grey Insulation	60% Chrysotile
HA114			Tank Insulation	Α	Х				~ 500 gal	HA-34		Grey Insulation	35% Chrysotile
HA116			Vinyl Floor Tile	Α	х				~ 120 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA116			Tile Mastic	А	х				~ 120 ft ²	HA-1		Black	5% Chrysotile
HA117			Vinyl Floor Tile	А		x			~ 2000 ft2	HA-36	Floor	1' x 1' Light Grey with Medium Grey Tile	2% Chrysotile
HA117A			Pipe Fitting Insulation	С	х				~ 25	HA-11		Grey Insulation	60% Chrysotile
HA117B			Pipe Fitting Insulation	А	х				~ 20	HA-11		Grey Insulation	60% Chrysotile
HA120			Pipe Fitting Insulation	А	х				~ 60	HA-11		Grey Insulation	60% Chrysotile
HA120			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA121			Pipe Fitting Insulation	Α	х				8	HA-11		Grey Insulation	60% Chrysotile
HA121			Pipe Fitting Insulation	Α			х		1	HA-11		Grey Insulation	60% Chrysotile
HA121			Light Fixture Heat Shield	Α	х				2	HA-5		Grey with Foil Backing	40% Chrysotile
HA128			Pipe Fitting Insulation	В	х				15	HA-11		Grey Insulation	60% Chrysotile
HA2S01			Vinyl Floor Tile	А	х				~ 120 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA2S01			Tile Mastic	А	Х				~ 120 ft ²	HA-1		Black	5% Chrysotile
HA2S01			Tile Mastic	А	Х				~ 120 ft ²	HA-23		Black	3% Chrysotile
HA2S01			Pipe Fitting Insulation	А	х				5	HA-11		Grey Insulation	60% Chrysotile
HA2S02			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-28	Floor	Grey	3% Chrysotile

D #	Distance Countries		None wiel Town			Cor	ditions		0	Carrada Na	Sample	Sample	Dla
Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA2S03			Vinyl Floor Tile	Α	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA2S03			Tile Mastic	А	х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA2S03			Pipe Fitting Insulation	А	х				5	HA-11		Grey Insulation	60% Chrysotile
HA201A			Pipe Fitting Insulation	С	х				10	HA-11		Grey Insulation	60% Chrysotile
HA205			Light Fixture Heat Shield	А			Х		2	HA-6		Grey with Foil Backing	40% Chrysotile
HA206			Light Fixture Heat Shield	А			Х		2	HA-6		Grey with Foil Backing	40% Chrysotile
HA208			Pipe Fitting Insulation	А			Х		4	HA-11		Grey Insulation	60% Chrysotile
HA208			¹ Duct	С	х								
HA210			Texture Coat	А	х			х	~ 2000 ft2	HA-31		White, Stipple ceiling	3% Chrysotile
HA211			Texture Coat	А	х			х	~ 2000 ft2	HA-31	ceiling, near HA207	White, Stipple ceiling	3% Chrysotile
HA211			² Pipe Fitting Insulation	А	х				3	HA-11		Grey Insulation	60% Chrysotile
HA211A			Pipe Fitting Insulation	С	х				4	HA-11		Grey Insulation	60% Chrysotile
HA3C01			Vinyl Floor Tile	А	х				~ 550 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA3C01			Tile Mastic	А	Х				~ 550 ft ²	HA-1		Black	5% Chrysotile
HA3C01			Light Fixture Heat Shield	А			х		4	HA-24		Grey with Foil Backing	50% Chrysotile
HA3C02			Vinyl Floor Tile	А	х				~ 120 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA3C2			Tile Mastic	А	х				~ 120 ft ²	HA-1		Black	5% Chrysotile
HA3S01			Vinyl Floor Tile	А	х				~ 50 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA3S01			Tile Mastic	А	х				~ 50 ft ²	HA-4		Black	3% Chrysotile
HA3S01			Pipe Fitting Insulation	А	х				12	HA-11		Grey Insulation	60% Chrysotile
HA3S02			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA3S02			Tile Mastic	А	х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA3S02			Pipe Fitting Insulation	А	х				13	HA-11		Grey Insulation	60% Chrysotile
HA3S03			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA3S03			Tile Mastic	А	х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA3S03			Pipe Fitting Insulation	А	х				12	HA-11		Grey Insulation	60% Chrysotile
HA3S03			Pipe Fitting Insulation	А		х			1	HA-11		Grey Insulation	60% Chrysotile

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Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA300			Tile Mastic	Α	X				~ 150 ft ²	HA-23		Black	3% Chrysotile
HA301A			Light Fixture Heat Shield	Α			х		1	HA-6		Grey with Foil Backing	40% Chrysotile
HA302/HA302A			Tile Mastic	А	Х				~ 150 ft ²	HA-23		Black	3% Chrysotile
HA303			Vinyl Floor Tile	Α	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA303			Tile Mastic	А	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA303			Pipe Fitting Insulation	А			х		1	HA-11		Grey Insulation	60% Chrysotile
HA304			Tile Mastic	А	Х				~ 150 ft ²	HA-23		Black	3% Chrysotile
HA305			Light Fixture Heat Shield	А			х		1	HA-6		Grey with Foil Backing	40% Chrysotile
HA306			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA306			Tile Mastic	А	X				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA307			Pipe Fitting Insulation	А	х				1	HA-11		Grey Insulation	60% Chrysotile
HA308			Pipe Fitting Insulation	C/D	х				5	HA-11		Grey Insulation	60% Chrysotile
HA309			Pipe Fitting Insulation	А	х				2	HA-11		Grey Insulation	60% Chrysotile
HA310			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA310			Tile Mastic	А	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA312			Vinyl Floor Tile	А	х				~ 260 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA312			Tile Mastic	А	х				~ 260 ft ²	HA-1		Black	5% Chrysotile
HA316A			Vinyl Floor Tile	А	х				~ 300 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA316A			Tile Mastic	А	Х				~ 300 ft ²	HA-4		Black	3% Chrysotile
HA316A			Pipe Fitting Insulation	А	х				2	HA-11		Grey Insulation	60% Chrysotile
HA317			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA317			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA317A			Vinyl Floor Tile	Α	х				~ 130 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA317A			Tile Mastic	Α	X				~ 130 ft ²	HA-4		Black	3% Chrysotile
HA319			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA320			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA320			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA321			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA321			Pipe Fitting Insulation	C/D			х		debris	HA-11		Grey Insulation	60% Chrysotile

Room # Bldg. Sy				_		Cor	nditions		<u> </u>		Sample	Sample	
Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA322			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA323			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA323			Tile Mastic	А	Х				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA323			Pipe Fitting Insulation	А	х				2	HA-11		Grey Insulation	60% Chrysotile
HA324A			Light Fixture Heat Shield	А			x		1	HA-6		Grey with Foil Backing	40% Chrysotile
HA4C01			Vinyl Floor Tile	А	х				~ 550 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA4C01			Tile Mastic	Α	Х				~ 550 ft ²	HA-13		Black	3% Chrysotile
HA4C02			Vinyl Floor Tile	Α	х				~ 700 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA4C02			Tile Mastic	Α	Х				~ 700 ft ²	HA-13		Black	3% Chrysotile
HA4C02			Pipe Fitting Insulation	Α	х				7	HA-11		Grey Insulation	60% Chrysotile
HA4C03			Vinyl Floor Tile	А	х				~ 550 ft ²	HA-13	Floor	9" x 9" Blue with White Tile	8% Chrysotile
HA4C03			Tile Mastic	Α	Х				~ 550 ft ²	HA-13	Floor	Black	3% Chrysotile
HA4C03			Pipe Fitting Insulation	Α	х				7	HA-11		Grey Insulation	60% Chrysotile
HA4S01			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA4S01			Tile Mastic	А	Х				~ 200 ft ²	HA-4		Black	3% Chrysotile
HA4S02			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA4S02			Tile Mastic	А	Х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA4S03			Vinyl Floor Tile	А	x				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA4S03			Tile Mastic	А	х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA4S03			Pipe Fitting Insulation	А	х				1	HA-11		Grey Insulation	60% Chrysotile
HA401			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA401			Tile Mastic	А	Х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA403			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-15A	Floor	9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA404			Pipe Fitting Insulation	Α		х			3	HA-11		Grey Insulation	60% Chrysotile
HA405			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA405			Tile Mastic	А	Х				~ 150 ft ²	HA-13		Black	3% Chrysotile

Room #	Dide Costess	C	Matarial Tres	A		Cor	ditions		O a matitus	Commis No	Sample	Sample	Result
Koom #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Kesuit
HA406			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA407			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA407			Tile Mastic	А	Х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA407			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA408			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA408			Light Fixture Heat Shield	А			x		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA409			Vinyl Floor Tile	А	х				~ 45 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA409			Tile Mastic	Α	Х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA411			Light Fixture Heat Shield	А			Х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA416			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA416			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA418			Vinyl Floor Tile	Α	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA418			Tile Mastic	Α	х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA418			Light Fixture Heat Shield	Α			X		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA419			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA419			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA420			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA420			Light Fixture Heat Shield	А			X		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA421			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA421			Tile Mastic	А	х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA422			Light Fixture Heat Shield	А	х				1	HA-5		Grey with Foil Backing	40% Chrysotile
HA422			Pipe Fitting Insulation	C/D			х		~ 5	HA-11		Grey Insulation	60% Chrysotile
HA422			Tar on Fibreglass Duct	C/D	х					HA-33		Black Tar	10% Chrysotile

D #	Did Conton	6	Bank and all Trans			Cor	nditions		0	Carran la Nia	Sample	Sample	Dli
Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA423			Vinyl Floor Tile	А	×				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA423			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA424			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA424			Tile Mastic	А	х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA424			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA425			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA425			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA426			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA426			Tile Mastic	А	х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA426			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA427			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA427			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA429			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-13		9" x 9" Blue with White Tile	8% Chrysotile
HA429			Tile Mastic	А	х				~ 150 ft ²	HA-13		Black	3% Chrysotile
HA429			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA430			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-15A		9" x 9" Medium Grey with White, Dark Grey Tile	10% Chrysotile
HA430			Pipe Fitting Insulation	А	х				2	HA-11		Grey Insulation	60% Chrysotile
HA5S01			Vinyl Floor Tile	А	x				~ 200 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA5S01			Tile Mastic	Α	X				~ 200 ft ²	HA-4		Black	3% Chrysotile
HA5S02			Vinyl Floor Tile	Α	х				~ 200 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA5202			Tile Mastic	А	Х				~ 200 ft ²	HA-1		Black	5% Chrysotile
HA5202			Pipe Fitting Insulation	А	х				5	HA-11	Wall	Grey Insulation	60% Chrysotile
HA5S03			Vinyl Floor Tile	А	х				~ 200 ft ²	HA-1	Floor	9" x 9" Dark Grey with White Tile	8% Chrysotile
HA5S03			Tile Mastic	А	Х				~ 200 ft ²	HA-1	Floor	Black	5% Chrysotile

Dague #	Did Sustana	C	Matarial Tres	A		Cor	ditions		O a makitu .	Commis No	Sample	Sample	Danula
Room #	Bldg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA5C01			Vinyl Floor Tile	Α	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA5C01			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA501			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA501			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA502			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA502			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA503			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA503			Tile Mastic	Α	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA503			Light Fixture Heat Shield	А			Х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA504			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA504			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA504			Light Fixture Heat Shield	А			x		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA505			Vinyl Floor Tile	А	x				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA505			Tile Mastic	Α	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA506			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA506			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA507			Pipe Fitting Insulation	А			x		3	HA-11		Grey Insulation	60% Chrysotile
HA507			Light Fixture Heat Shield	Α			Х		1	HA-6		Grey with Foil Backing	40% Chrysotile
HA508			Vinyl Floor Tile	Α	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA508			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA509			Vinyl Floor Tile	А	x				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA509			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA508			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA508			Tile Mastic	А	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA511			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA511			Tile Mastic	Α	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA513			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA514			Vinyl Floor Tile	Α	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA514			Tile Mastic	А	X				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA514			Light Fixture Heat Shield	Α			х		1	HA-6		Grey with Foil Backing	40% Chrysotile

Room # Bldg. Syst	Dida Costana	C	Managial Tops	A		Cor	nditions		O	Camarda Na	Sample	Sample	Dorode
Koom #	Bidg. System	Component	Material Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA516			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA516			Tile Mastic	А	х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA516			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA517			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA517			Tile Mastic	Α	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA518			Vinyl Floor Tile	Α	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA518			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA519			Pipe Fitting Insulation	B/C	х				14	HA-11	Floor	Grey Insulation	60% Chrysotile
HA519			Pipe Fitting Insulation	B / C			x		1 (debris)	HA-11	Floor	Grey Insulation	60% Chrysotile
HA519			Duct Insulation	B/C		х				HA-12	Duct Seam	Grey Insulation	35% Chrysotile
HA521			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA521			Tile Mastic	А	х				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA522			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA522			Tile Mastic	А	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA523			Vinyl Floor Tile	А	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA523			Tile Mastic	А	Х				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA523			Light Fixture Heat Shield	Α			x		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA524			Vinyl Floor Tile	Α	х				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA524			Tile Mastic	Α	Х				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA524			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA525			Vinyl Floor Tile	Α	x				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA525			Tile Mastic	А	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA526			Light Fixture Heat Shield	Α			x		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA526B			Vinyl Floor Tile	А	x				~ 100 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA526B			Tile Mastic	Α	Х				~ 100 ft ²	HA-1		Black	5% Chrysotile
HA527			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA527			Tile Mastic	А	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA528			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA528			Tile Mastic	Α	Х				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA529			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile

Room #	Plda Systom	Component	Material Type	Access		Con	ditions		Quantity	Sample No.	Sample	Sample	Result
KOOIII #	Bldg. System	Component	iviateriai Type	Access	Good	Fair	Poor	Sprayed	Quantity	Sample No.	Location	Description	Result
HA529			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA529			Light Fixture Heat Shield	А			x		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA530			Vinyl Floor Tile	Α	x				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA530			Tile Mastic	А	Х				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA530			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA531			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA531			Tile Mastic	Α	X				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA532			Light Fixture Heat Shield	Α			x		2	HA-6	Ceiling	Grey with Foil Backing	40% Chrysotile
HA533			Vinyl Floor Tile	Α	x				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA533			Tile Mastic	А	Х				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA534			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA534			Tile Mastic	Α	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA535			Vinyl Floor Tile	А	x				~ 150 ft ²	HA-4		9" x 9" White with Green Tile	6% Chrysotile
HA535			Tile Mastic	А	Х				~ 150 ft ²	HA-4		Black	3% Chrysotile
HA536			Vinyl Floor Tile	А	х				~ 150 ft ²	HA-1		9" x 9" Dark Grey with White Tile	8% Chrysotile
HA536			Tile Mastic	А	Х				~ 150 ft ²	HA-1		Black	5% Chrysotile
HA536			Light Fixture Heat Shield	А			х		1	HA-5		Grey with Foil Backing	40% Chrysotile
HA537			Vinyl Floor Tile	Α	x				~ 150 ft ²	HA-4	Floor	9" x 9" White with Green Tile	6% Chrysotile
HA537			Tile Mastic	Α	Х				~ 150 ft ²	HA-4	Floor	Black	3% Chrysotile
HA537			Light Fixture Heat Shield	А			х		1	HA-5	Ceiling	Grey with Foil Backing	40% Chrysotile
Exterior			Light Fixture Heat Shield	А			х		2	HA-6		Grey with Foil Backing	40% Chrysotile
Exterior			³ Suspect transite panel	А	х				~ 25 ft ²		Ceiling		

No access was available for the following rooms: HA-109A, HA-112, HA-115, HA-125B, HA125C, HA-201, HA-204, HA-402,, HA-402B, HA-412, HA-414, HA-417

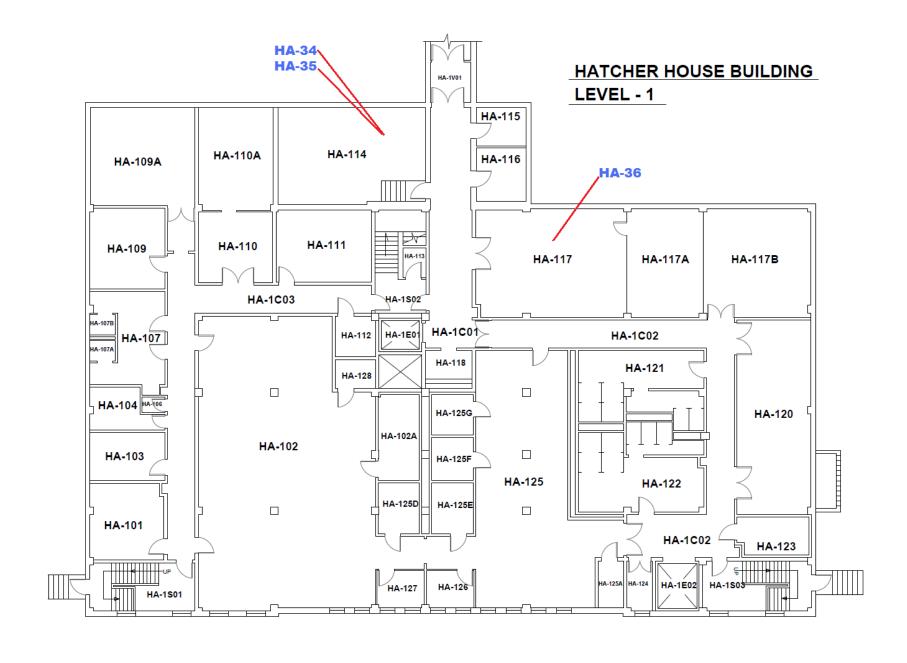
Access: A - Areas within reach from the floor. B - Frequently entered maintenance areas floor level. C - exposed / concealed above 8 ft, crawl space, etc.D - Inaccessible

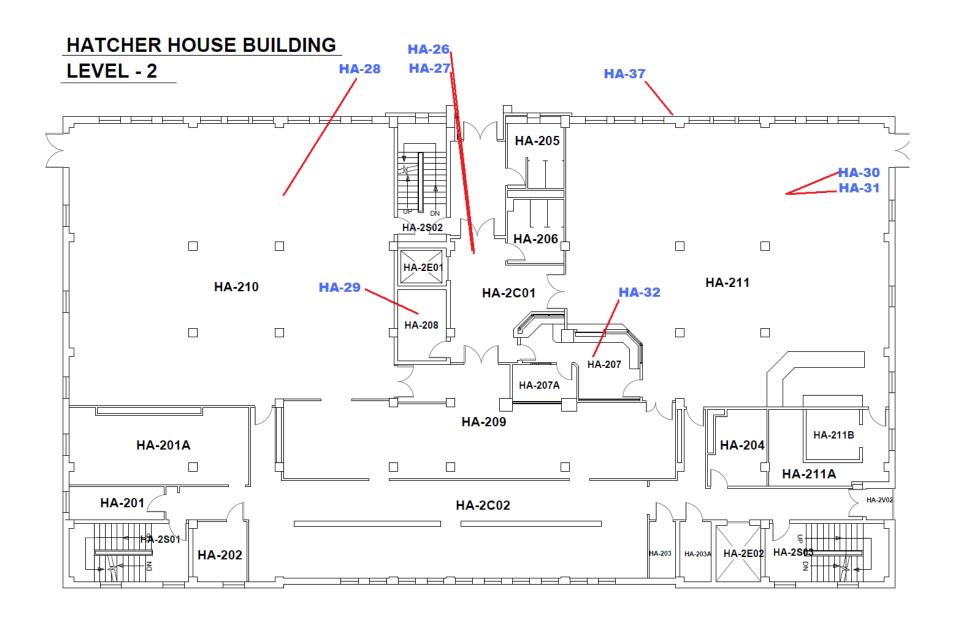
¹Suspect asbestos containing. Unable to access. Assume asbestos containing until proven otherwise.

² Located under the cupboard near the sink

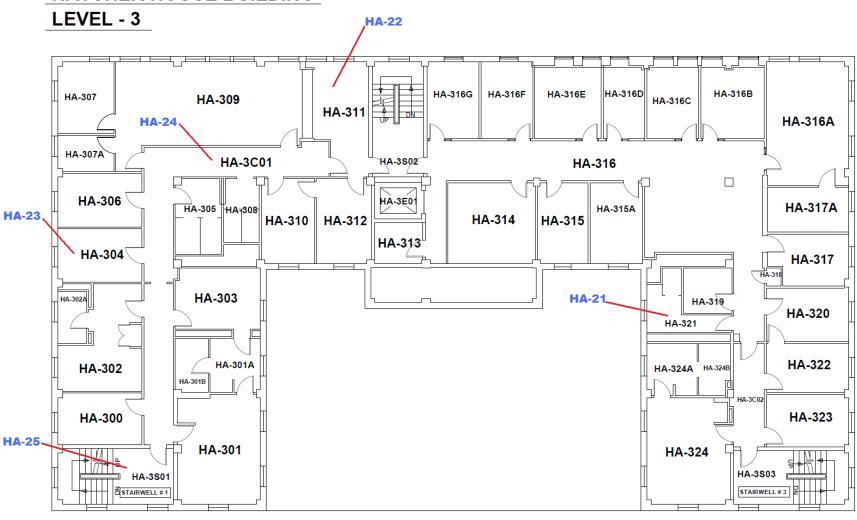
 $^{^{\}rm 3}$ Suspected to be as bestos-containing transite board. Unable to collect samples.

APPENDIX IVFLOOR PLANS SHOWING SAMPLING LOCATIONS

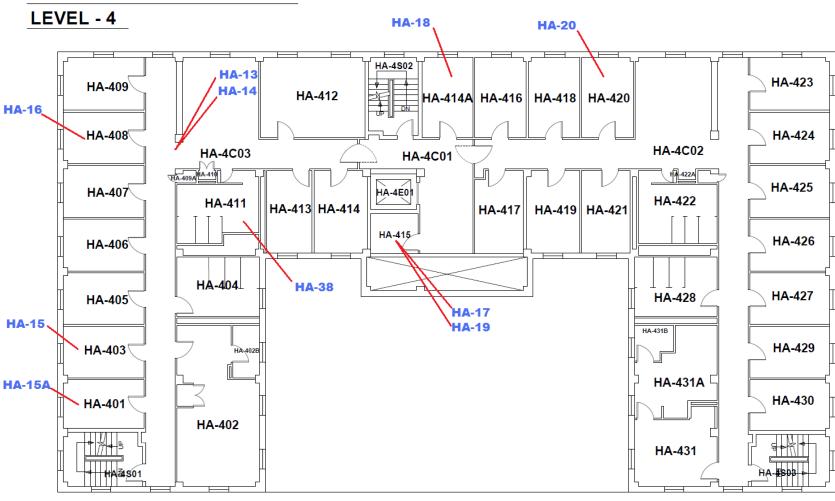




HATCHER HOUSE BUILDING



HATCHER HOUSE BUILDING



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