### ASBESTOS ABATEMENT PROJECT MONITORING DOCUMENTATION



CAROLTON ON THE HILL

CAROLTON DRIVE COVINGTON, VIRGINIA 24426

ECS PROJECT NO. 47:7984-B

FOR: MOSS AND ROCOVICH

SEPTEMBER 27, 2019







Geotechnical • Construction Materials • Environmental • Facilities

September 27, 2019

Mr. Dennis Barbour Moss and Rocovich 4415 Electric Road Roanoke, Virginia 24018

ECS Project No. 47:7984-B

Reference: Asbestos Abatement Project Monitoring Documentation, Carolton on the Hill, Carolton Drive, Covington, Virginia

Dear Mr. Barbour:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Moss and Rocovich with this summary report of the work performed during the above-referenced project. ECS performed visual assessments and monitoring and air sampling during the removal of asbestos-containing materials located in various locations throughout the above-referenced building.

ECS appreciates this opportunity to provide Moss and Rocovich with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Meyan Vison

Megan Nelson Environmental Technician mnelson1@ecslimited.com 540-362-2000

The Chyn

Christopher J. Chapman, CIH Director of Industrial Hygiene cchapman@ecslimited.com 804-353-6333

#### SITE DESCRIPTION

The asbestos abatement work was performed by E. Luke Greene between September 4, 2019 and September 9, 2019 and included the removal of the following materials from the residential basement and garage structure:

Mudded pipe elbows Pipe insulation Boiler insulation

ECS was tasked with performing visual assessments and monitoring and air sampling during and after the removal of the above identified asbestos-containing materials during this project. On-site project monitoring services were provided by Virginia Licensed Project Monitor, and ECS employee, Ms. Megan Nelson (VA License 3309 001989).

#### **ASBESTOS ABATEMENT**

A Virginia licensed asbestos project monitor employed by ECS monitored this project. The abatement contractor employees were asked to provide their asbestos abatement licenses for review. No workers were found to be without valid asbestos abatement licenses, medical monitoring, or respirator fit tests and the removal of the specified materials could begin. Throughout the asbestos abatement, ECS observed workers utilizing the applicable personal protective equipment (PPE) as required by OSHA regulations (respirators, disposable protective clothing, etc.)

Mudded pipe elbows and pipe insulation were removed from the basement of the house and the garage structure using pre-manufactured glove bags and a wrap and cut method (candy stripping). The glove bags were visually checked prior to beginning work and the glove bag removal was being performed by licensed workers. The abatement contractor indicated that the glove bags were not smoke tested prior to beginning removal. In the vicinity of the glovebag and candy striping operations, a reduced pressure containment was set up with one negative air machine and limited poly on the ground and walls. The negative air machine provided reduced pressure. No monometer was present. During the glovebag removal, daily perimeter air samples were collected in the work area. These samples, along with a visual clearances, were to be used to provide a re-occupancy for the work area. The collected samples were submitted to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia for analysis via Phase Contrast Microscopy (PCM) in general accordance with NIOSH Method 7400. The US EPA and Commonwealth of Virginia re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results of the area PCM air samples collected from the glovebag work area were reported to be equal to or less than the maximum allowable limits set by US EPA and Commonwealth of Virginia requirements.

For the removal of the boiler walls in the basement of the house, a negative air pop-up containment was placed around the walls; the walls were cleaned of asbestos, and then sawed in half and removed from the containment. The pop-up containment consisted a poly wall and floor with one negative air unit and a single stage decontamination chamber. There was no manometer present. Perimeter samples were taken over the working hours (9519-4MN and 9619-1MN). After the work was reported as completed, a visual survey was conducted to verify the asbestos had been removed from the area and an encapsulant was applied and aggressive air samples were collected within the containment



for re-occupancy (9619-2MN and 9619-3MN). A leaf blower was utilized to agitate the air, for a minimum of 5 minutes, prior to sampling and a box fan was turned on low for the duration of the final clearance sampling process. The collected samples were submitted to EHS for analysis and were reported to be less than the maximum allowable limits, 0.01 f/cc, set by US EPA and Commonwealth of Virginia regulations.

A negative air containment was also placed in the door way of the boiler closet in the garage structure. Due to the size restriction of the closet the containment consisted of a double poly curtain and one negative air unit in the door way. Poly was also placed on the floor and the ceiling of the boiler closet. No decontamination chamber or manometer was present, therefore, the abatement contractors wore double Tyvek suites. The garage boiler was wrapped in two layer of poly and removed and disposed of, in whole, as asbestos waste. After an encapsulant was applied, aggressive air samples were collected from the garage containment, in a method as described above. The samples were submitted to EHS for analysis, and were reported to be less than the maximum allowable limits, 0.01 f/cc, set by US EPA and Commonwealth of Virginia regulations.

Perimeter samples were taken outside of the garage structure containment (9619-4MN and 9619-5MN). Results were reported to be less than or equal to 0.01 f/cc.

Based on our understanding of the project requirements, E. Luke Green has completed their scope of work for this project.

Sample ID	Location	Description	Analytical Results (f/cc)
9419-1MN	Basement	Glovebag Perimeter	<0.005
9419-2MN	Basement	Glovebag Perimeter	0.01
9419-3MN	Basement	Glovebag Perimeter	<0.005
9419-4MN	Basement	Glovebag Perimeter	<0.005
9514-1MN	Basement	Glovebag Perimeter	<0.005
9514-2MN	Basement	Glovebag Perimeter	0.008
9514-3MN	Basement - Outside of containment	Outside Popup Containment / Perimeter	<0.005
9514-4MN	Basement - near containment entrance	Outside Popup Containment / Perimeter	0.006
9619-1MN	Basement - Outside of containment	Outside Popup Containment / Perimeter	0.023
9619-2MN	Basement	Popup Containment Clearance	0.006

### Summary of Analytical Results



Sample ID	Location	Description	Analytical Results (f/cc)
9619-3MN	Basement	Popup Containment Clearance	0.007
9619-4MN	Garage - near containment entrance	Outside Popup Containment / Perimeter	0.010
9619-5MN	Garage - near negative air exhaust	Outside Popup Containment / Perimeter	<0.005
9919-1MN	Garage	Popup Containment Clearance	<0.005
9919-2MN	Garage	Popup Containment Clearance	<0.005

#### **ADDITIONAL MATERIALS**

The scope of work included only the boiler systems that could be visually observed in the residential basement and the garage structure. Asbestos may still be present in other areas of the building, including behind solid walls or above solid ceilings or in areas that were outside of the scope of services for this project.

#### LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.



# Appendix I: Asbestos Air Sample Results



### Fiber Count Analysis Report

19-09-00430

**Report Number:** 

Client:ECS Mid-Atlantic - RoanokeReceived Date:09/05/20197670 Enon DriveAnalyzed Date:09/05/2019Suite 101Reported Date:09/05/2019Roanoke, VA 24019Op/05/201909/05/2019

Project/Test Address: Carolton on the Hill; Covington, VA

## Laboratory Results

Fax Number:

		•				
 Lab Sample Number	Client Sample Number	Volume Liters (L)	Fibers/Fields	Fibers/mm2	Fibers/CC	Narrative ID
19-09-00430-001	9419-1MN	999	1.5 / 100	<7.6	<0.005	
19-09-00430-002	9419-2MN	999	22.0 / 100	28.0	0.011	
19-09-00430-003	9419-3MN	999	4.0 / 100	<7.6	<0.005	
19-09-00430-004	9419-4MN	999	7.0 / 100	8.9	<0.005	

Method: NIOSH 7400, Issue 2, 08-15-94

Analyst: Howard Varner

Client Number:

200608

Reviewed By Authorized Signatory:

Melisoa Kanode

Missy Kanode QA/QC Clerk

Intralaboratory Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.361, 0.364, 0.293. Individual Analyst Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.241, 0.237, 0.208.

New York State requires a minimum sample volume of 1000L for PCM clearance samples.

NOTE: The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. Results listed above in Fibers/CC are based on air volume supplied by the client. The submission of blank samples is required by sampling methodologies. EHS sample results are blank corrected, per NIOSH 7400, when the client submits blank samples. If the report does not contain the result for a field blank, it is because the client did not include a field blank with their samples. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Services, L.L.C.

Method Level of Detection: 7.64 fibers/mm2.

AIHA-LAP, LLC (100420)

LEGEND	L = liters	fibers/mm <sup>2</sup> = fibers per square millimeter
	fibers/cc = fibers per cubic centimeter	

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### Fiber Count Analysis Report

19-09-00630

**Report Number:** 

Client:ECS Mid-Atlantic - RoanokeReceived Date:09/06/20197670 Enon DriveAnalyzed Date:09/06/2019Suite 101Reported Date:09/06/2019Roanoke, VA 24019Op/06/201909/06/2019

Project/Test Address: Carolton on the Hill; Covington, VA

## Laboratory Results

Fax Number:

		•				
 Lab Sample Number	Client Sample Number	Volume Liters (L)	Fibers/Fields	Fibers/mm2	Fibers/CC	Narrative ID
19-09-00630-001	9514-1MN	1040	7.5 / 100	9.6	<0.005	
19-09-00630-002	9514-2MN	1040	17.5 / 100	22.3	0.008	
19-09-00630-003	9514-3MN	1040	8.0 / 100	10.2	<0.005	
19-09-00630-004	9514-4MN	1040	13.5 / 100	17.2	0.006	

Method: NIOSH 7400, Issue 2, 08-15-94

Analyst: Howard Varner

Client Number:

200608

Reviewed By Authorized Signatory:

Melisoa Kanode

Missy Kanode QA/QC Clerk

Intralaboratory Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.361, 0.364, 0.293. Individual Analyst Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.241, 0.237, 0.208.

New York State requires a minimum sample volume of 1000L for PCM clearance samples.

NOTE: The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. Results listed above in Fibers/CC are based on air volume supplied by the client. The submission of blank samples is required by sampling methodologies. EHS sample results are blank corrected, per NIOSH 7400, when the client submits blank samples. If the report does not contain the result for a field blank, it is because the client did not include a field blank with their samples. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Services, L.L.C.

Method Level of Detection: 7.64 fibers/mm2.

AIHA-LAP, LLC (100420)

LEGEND	L = liters	fibers/mm <sup>2</sup> = fibers per square millimeter
	fibers/cc = fibers per cubic centimeter	

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Client:

Client Number:

200608

### Fiber Count Analysis Report

19-09-00960

**Report Number:** 

ECS Mid-Atlantic - RoanokeReceived Date:09/09/20197670 Enon DriveAnalyzed Date:09/09/2019Suite 101Reported Date:09/09/2019Roanoke, VA 24019Operation of the second second

Project/Test Address: Carolton on the Hill; Covington, VA

## Laboratory Results

Fax Number:

_	Lab Sample Number	Client Sample Number	Volume Liters (L)	Fibers/Fields	Fibers/mm2	Fibers/CC	Narrative ID
	19-09-00960-001	9619-1MN	1100	51.0 / 100	65.0	0.023	
	19-09-00960-002	9619-2MN	1200	15.0 / 100	19.1	0.006	
	19-09-00960-003	9619-3MN	1200	16.0 / 100	20.4	0.007	
	19-09-00960-004	9619-4MN	1020	20.0 / 100	25.5	0.010	
	19-09-00960-005	9619-5MN	1020	4.5 / 100	<7.6	<0.005	

Method: NIOSH 7400, Issue 2, 08-15-94 Analyst: Howard Varner

Reviewed By Authorized Signatory:

Milisoa Kanode

Missy Kanode QA/QC Clerk

Intralaboratory Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.361, 0.364, 0.293. Individual Analyst Sr for fiber count ranges 5-20, >20-50, and >50-100 respectively are 0.241, 0.237, 0.208.

New York State requires a minimum sample volume of 1000L for PCM clearance samples.

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Method Level of Detection: 7.64 fibers/mm2.

AIHA-LAP, LLC (100420)

LEGEND	L = liters	fibers/mm <sup>2</sup> = fibers per square millimeter
	fibers/cc = fibers per cubic centimeter	

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### Fiber Count Analysis Report

19-09-01119

Fax Number:

Report Number:

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Client:	ECS Mid-Atlantic - Roanoke	Received Date:	09/10/2019
onom:	7670 Enon Drive	Analyzed Date:	09/10/2019
	Suite 101	Reported Date:	09/10/2019
	Roanoke, VA 24019		

Project/Test Address: Carolton on the Hill; Covington, VA

## Laboratory Results

Lab Sample **Client Sample** Volume Fibers/mm2 Fibers/CC Narrative Fibers/Fields ID Number Number Liters (L) 9919-1MN 1200 <7.6 19-09-01119-001 < 0.005 5.0 / 100 19-09-01119-002 9919-2MN 1200 <7.6 < 0.005 4.0 / 100

Method: NIOSH 7400, Issue 2, 08-15-94

Analyst: Howard Varner

Client Number:

200608

Jasha Faddy

AIHA-LAP, LLC (100420)

Reviewed By Authorized Signatory:

Tasha Eaddy QA/QC Clerk

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Individual Analyst Si for liber count ranges 5-20, >20-50, and >50-100 respectively are 0.241, 0.237, 0

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Method Level of Detection: 7.64 fibers/mm2.

LEGEND L = liters fibers/cc = fibers per cubic centimeter fibers/mm<sup>2</sup> = fibers per square millimeter

### ENVIRONMENTAL HAZARDS SERVICES, LLC

Asbestos Chain of Custody Form

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	Company Name	EC	S - R	.600	oke						Ac	coun	NAW KIEL			
Company Address 7670 Encon Drive #101						Ci	City/State/Zip Romoke, VA 24019									
Phone							Email Mnelson 1@ ecstimited.c									
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# Appendix II: Certifications/ Licenses

## DPOR License Lookup License Number 3309001989

License Details					
Name License Number	NELSON, MEGAN NICOLE 3309001989				
License Description	Asbestos Project Monitor License				
Rank	Asbestos Project Monitor				
Address	ROANOKE, VA 24016				
Initial Certification Date	2019-05-16				
Expiration Date	2020-05-31				

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