Hazardous Material Survey Report
Snowden Roof Replacement
ACS #C-18-0001

FINAL REPORT

January 2018

Prepared for:

Alaska Court System
820 W. 4th Avenue
Anchorage, Alaska 99501

Prepared by:

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Executive Summary

On November 14, 2017, Stantec Architecture Inc., conducted a hazardous materials survey of the Alaska Court System's, Snowden Administration Building located at 820 West 4th Avenue Anchorage, Alaska in support of the Snowden Roof Replacement Project – ACS #C-18-0001. The survey scope included asbestos-containing materials; lead-based paint, lead-impacted material; and universal waste limited to mercury in lamps, thermostats, and equipment controls. The survey was confined to the roof area, which is referred to as 4a and 4b by the Alaska Court System, and was conducted in support of design activity for its removal and reconstruction. Included in this project is the removal of an existing wood framed penthouse that houses an abandoned-in-place ventilation unit.

The discoveries made during the survey are summarized below.

Asbestos-Containing Materials

The following asbestos-containing material conditions were determined to be present at the site through the review of record documents made available by Alaska Court System, field observations, bulk sampling, and subsequent analytical review of the bulk samples collected by a qualified laboratory.

- Silver seal coating applied to the surface of the roof area surveyed.
- Duct cloth located at duct-flex connections of the ventilation unit located within the penthouse enclosure.
- Black mastic applied to a mechanical curb on roof 4b.

Lead-Based Paint and Materials

No lead-based paint or lead-impacted material conditions were discovered within the anticipated work area at the Snowden Administration Building through bulk sampling and subsequent lab analysis.

Universal Waste

United States Environmental Protection Agency designated universal waste includes batteries, mercury containing equipment, lamps, and thermostats. A cursory review of the work area at the Snowden Administration Building revealed a temperature control device within the penthouse that is suspected of containing a mercury bulb.

Additional Hazardous Materials

Destructive investigation methods allowing for the inspection of all concealed conditions were not authorized for this survey. Therefore, additional hazardous materials in the form of, but not necessarily limited to, asbestos-containing material, bulk lead and lead-based paint may be present at the buildings. If suspect materials are discovered, the materials should be considered hazardous, unless proven otherwise through proper analytical review

Abbreviations

ACM	asbestos containing materials
ACS	Alaska Court System
AHERA	Asbestos Hazard Emergency Response Act
AHU	air-handling unit
CFR	Code of Federal Regulations
EPA	United States Environmental Protection Agency
HID	high-intensity discharge
HUD	United States Department of Housing and Urban Development
NESHAP	National Emission Standards for Hazardous Air Pollutants
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PLM	Polarized Light Microscopy
ppm	parts per million
RACM	regulated asbestos containing materials
Stantec	Stantec Architecture Inc.

1.0 ASBESTOS SURVEY

1.1 INTRODUCTION

On November 14, 2017, Stantec Architecture Inc. (Stantec), conducted an asbestos-containing materials (ACM) survey of the Alaska Court System (ACS), Snowden Administration Building located at 820 West 4th Avenue Anchorage, Alaska. The survey was confined to the roof area, which is referred to as 4a and 4b by the Alaska Court System, and was conducted in support of the Snowden Roof Replacement Project – ACS #C-18-0001, which includes removal and reconstruction of the existing wood deck. Included in this project is the removal of an existing wood-framed penthouse that houses an abandoned-in-place ventilation unit.

Stantec collected a total of 10 bulk samples comprised of 40 layers of suspected ACM from the roof area for analysis by Polarized Light Microscopy (PLM). The bulk samples collected were analyzed for asbestos content by White Laboratories LLC., (383 Industrial Way, Anchorage, Alaska). The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is for satisfactory compliance with criteria as established in Title 15, Part 285 Code of Federal Regulations (CFR).

Prior to conducting the site work, Stantec reviewed the following record documents provided by ACS:

- As-built Drawings, updated by MCG February 2,1998.
- Asbestos-Containing Materials Inspection, prepared by EHS-Alaska Inc, dated November 21, 2001.

The intent of the survey conducted at this ACS facility is to fulfill requirements set forth by the United States Environmental Protection Agency (EPA) National Emissions Standards for Hazardous Air Pollutants (NESHAP). NESHAP requires the inspection of applicable structures for both friable and non-friable asbestos prior to renovation or demolition activity taking place. The survey was performed by an Asbestos Hazard Emergency Response Act (AHERA) accredited inspector.

Only materials containing one percent total asbestos or greater (all types) were classified as "asbestos-containing" based on EPA criteria. The laboratory results of the asbestos testing for both buildings are included in Appendix A.

1.2 TERM DEFINITIONS

The following common **asbestos**-related terms are defined to provide clarification:

- **Asbestos Containing Material**: Material containing an asbestos content equal to or greater than one percent.

- **Chrysotile**: White in bulk; long, curly, flexible fibers. Absorbs water easily. It is the most common type of asbestos found in building materials.
- **Fiber**: A structure greater than 0.5 µm in length with an aspect ratio (length to width) of 5:1 or greater and having substantially parallel sides.
- **Friable**: Asbestos material that contains more than one percent asbestos by weight and which can be crumbled, pulverized, or caused to release fibers by hand pressure when dry.
- **Nonfriable**: Asbestos material in which the asbestos fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well-bound and will not release fibers during any appropriate disturbance, i.e., handling, storage, transportation, or processing.
- **PLM**: An optical microscopic technique used to distinguish between different types of fibers by their shape and unique optical properties. PLM samples are examined at a magnification of 100x to 400x. At this magnification, PLM counts those fibers longer than 5 micrometers and wider than about 0.25 micrometers. This can include fibers that are not asbestos, such as fiberglass and cloth fibers.
- **Response Action**: A method, including removal, encapsulation, enclosure, repair, operations, and maintenance that protect human health, and the environment, from friable ACM.

1.3 SAMPLE RESULTS

Table 1 identifies location and bulk materials that were analyzed by PLM. Positive samples are in **bold** font. Sample locations are indicated on figures provided in Appendix B.

Table 1 – Asbestos Material Sampling Results

SAMPLE #	MATERIAL	LOCATION	ASBESTOS CONTENT
SNOWDEN BUILDING			
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Fescoboard	Roof Under Penthouse	None Detected
2046068501-ACM BULK-003	Gypsum Wallboard	Penthouse Interior Wall	None Detected
2046068501-ACM BULK-004	**Duct Cloth**	**Penthouse Ventilation Unit**	**95% Chrysotile**
2046068501-ACM BULK-005*	Tar	Mechanical Curb in Penthouse	None Detected
2046068501-ACM BULK-005*	Felt	Mechanical Curb in Penthouse	None Detected
2046068501-ACM BULK-005*	Tar	Mechanical Curb in Penthouse	None Detected

Table 1 – Asbestos Material Sampling Results

SAMPLE #	MATERIAL	LOCATION	ASBESTOS CONTENT
2046068501-ACM BULK-006*	**Silver Seal**	**Roof 4B**	**5% Chrysotile**
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Fescoboard	Roof 4B	None Detected
2046068501-ACM BULK-007*	Tar	Roof 4A	None Detected
2046068501-ACM BULK-007*	Felt	Roof 4A	None Detected
2046068501-ACM BULK-007*	Tar	Roof 4A	None Detected
2046068501-ACM BULK-008	Mastic (black)	Chimney	None Detected
2046068501-ACM BULK-009	**Mastic (black)**	**@Mechanical Curb**	**8% Chrysotile**
2046068501-ACM BULK-010*	Tar	@ Headwall w/Louvers	None Detected
2046068501-ACM BULK-010*	Felt	@ Headwall w/Louvers	None Detected
Denotes multi- layer sample/test			

1.4 SUMMARY

Both friable and non-friable ACM were discovered at the Snowden Administration Building. Friable asbestos is classified as regulated asbestos containing materials (RACM) under the EPA NESHAP. RACM includes thermal system insulation and surfacing materials that have been applied through methods such as spraying or troweling. NESHAP requires RACM to be removed prior to the materials being disturbed by building renovation or demolition. EPA governs the removal process for protection of the environment and by the Occupational Safety and Health Administration (OSHA) for the protection of workers performing the removal work.

Non-friable ACM is broken down into two separate classifications by the EPA NESHAP. They are Category I non-friable asbestos and Category II non-friable asbestos. Category I non-friable ACM is defined as resilient floor coverings, mastics, asphalt roofing, packings, and gaskets. Category II non-friable ACM is defined as any material excluding Category I non-friable ACM that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure. The NESHAP requires Category II ACM to be removed prior to demolition due to its propensity to become friable through traditional demolition practices and activity.

The removal of Category I and II non-friable ACM should be performed as Class 2 asbestos work by trained asbestos workers certified for asbestos abatement activity in the State of Alaska in accordance with OSHA regulations. The removal of all RACM should be performed as Class 1 asbestos work activity per OSHA.

1.4.1 Silver Seal Roof Coating

A silver seal coating, which has been applied to the roof surface and parapet walls, tested positive for ACM with a 5 percent concentration of chrysotile. The coating is also located on roof-top mechanical equipment ducting and curb construction. The material appears to be in good condition and is still adhered to the roof surface.

1.4.2 Mastic at Roof Curbing

Black mastic located at rooftop unit bases and curbs tested positive for ACM designation with an 8 percent concentration of chrysotile. The sample of mastic was taken from a mechanical curb on Roof 4b; however, similar material also appears to be present at curbing and equipment flashings on Roof 4a. The material is non-friable and in good condition overall.

1.4.3 Duct Cloth

Cloth membrane material located in the penthouse at duct flexible connection points associated with the ventilation unit and its corresponding ducting tested positive for ACM with a reported concentration of 95 percent chrysotile. Two connection points with this material in place were observed during the survey. The observed material is friable and found to be intact and in good condition in the areas that were accessible.

Asbestos Survey
January 2018

2.0 LEAD BASED PAINT AND LEAD-CONTAINING MATERIALS SURVEY

2.1 INTRODUCTION

On November 14, 2017, Stantec conducted a limited survey for lead-based paint and lead-impacted material at the ACS Snowden Administration Building in Anchorage. The survey was limited to roof areas 4a and 4b.

Stantec collected a total of four bulk samples of existing paint coatings, which were a generalized representation of the conditions present at the roof area that will be disturbed. The bulk samples collected were analyzed by flame atomic absorption spectroscopy (AAS) for lead content by White Laboratories LLC., (383 Industrial Way, Anchorage, Alaska). The laboratory is a member of the NVLAP. This accreditation is for satisfactory compliance with criteria as established in Title 15, Part 285 CFR.

For bulk samples, only paint containing lead levels at or exceeding 5,000 parts per million (ppm) were classified as "lead-containing" based on United States Department of Housing and Urban Development (HUD) criteria. The laboratory results of the lead testing are included in Appendix A.

2.2 SAMPLE RESULTS

Table 2 identifies location and bulk materials that were analyzed by AAS. Positive samples are in **bold** font. Paint colors are provided to assist with identifying sample locations and are not indicative of the lead-based paint conditions present.

Table 2 – Lead-Based Paint Sampling Results

SAMPLE #	MATERIAL	LOCATION	RESULTS (PPM)
SNOWDEN BUILDING			
2046068501-Pb BULK-001	Exterior Wall Paint (beige/yellow)	Penthouse	610
2046068501-Pb BULK-002	Fascia Board (dark beige/brown)	Penthouse	<110
2046068501-Pb BULK-003	Air Handling Unit (AHU) Paint (dark green)	Penthouse	4,000
2046068501-Pb BULK-004	Metal Trim Flashing	Penthouse Roof	<95

2.3 SUMMARY

All four samples of paint that were collected from the roof area tested below the indicated benchmark of 5,000 ppm for lead-based designation.

3.0 UNIVERSAL WASTE SURVEY

3.1 INTRODUCTION

Stantec reviewed conditions within the anticipated work area at the Snowden Administration Building for the presence of devices that may contain mercury, such as thermostats, relays, and switches. The buildings were also reviewed for fluorescent lamps, which contain a small amount of the material, and high-intensity discharge (HID) lamps, which can contain mercury. The EPA considers mercury-containing lamps, thermostats, and equipment, batteries, and pesticides as Universal Waste, which should be collected and managed in accordance with 40 CFR Part 273 Standards for Universal Waste Management. Some states modify these standards and have their own set of regulations; however, the State of Alaska follows this federal standard.

3.2 SUMMARY

A cursory review of the work area at the Snowden Administration Building revealed a temperature control device within the penthouse that is suspected of containing a mercury bulb.

When discarded in the trash, mercury-containing lamps, thermostats, etc., can break, allowing some of the mercury content to be released. This can lead to the release of elemental mercury into the environment and subsequent contamination of groundwater and the food chain. The EPA developed the Universal Waste Standard in attempt to reduce the hazardous waste management and recycle burden for smaller entities, providing an environment that promotes collection and recycling.

Universal Waste Survey
January 2018

Appendix A ACM AND LEAD LAB REPORTS

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP®
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client: Stantec
725 E. Fireweed, Ste. #200
Anchorage, AK 99503

Billing Number: 60039

TAT: 5 Day

Sample Count: 10 **Layer Count:** 40

Project Name/Location: Snowden Bldg. Roof

Collected By: Client
Collection Date: 11/15/2017
Analysis By: G. Caudill
Analysis Date: 11/17/2017
Received By: R. Briggs
Received Date: 11/16/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243A	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	1 of 7

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243B	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	2 of 7

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243C	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	3 of 7

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243D	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	4 of 7

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243E	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	5 of 7

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243F	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	6 of 7

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-001	AB17-8243G	Top Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	7 of 7

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP®
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244A	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	1 of 12

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244B	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	2 of 12

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244C	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	3 of 12

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244D	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	4 of 12

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244E	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	5 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244F	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	6 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244G	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	7 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244H	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	8 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244I	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	9 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244J	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Felt	Black	10 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	60%

Other Fiberous Materials: 60%

Non-Fiberous Materials: 40%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244K	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Tar	Black	11 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-002	AB17-8244L	Inside Of Penthouse

Homogenous	Material	Color	Layer
No	Fesco	Brown	12 of 12

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	90%

Other Fiberous Materials: 90%

Non-Fiberous Materials: 10%

WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-003	AB17-8245	Penthouse

Homogenous	Material	Color	Layer
No	GWB	Off-White	1 of 1

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	5%

Other Fiberous Materials: 5%

Non-Fiberous Materials: 95%

Sample Comments: No Surfacing Present

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-004	AB17-8246	Penthouse

Homogenous	Material	Color	Layer
No	Duct Cloth	Off-White	1 of 1

Asbestos Type	Asbestos %
Chrysotile	95%
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

% Asbestos: 95%

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 5%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-005	AB17-8247A	Mech Curb In

Homogenous	Material	Color	Layer
No	Tar	Black	1 of 3

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-005	AB17-8247B	Mech Curb In

Homogenous	Material	Color	Layer
No	Felt	Brown	2 of 3

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	80%

Other Fiberous Materials: 80%

Non-Fiberous Materials: 20%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-005	AB17-8247C	Mech Curb In

Homogenous	Material	Color	Layer
No	Tar	Black	3 of 3

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248A	At 4B

Homogenous	Material	Color	Layer
No	Silver Seal	Silver	1 of 9

Asbestos Type	Asbestos %
Chrysotile	5%
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

% Asbestos: 5%

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 95%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248B	At 4B

Homogenous	Material	Color	Layer
No	Tar	Black	2 of 9

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	6%

Other Fiberous Materials: 6%

Non-Fiberous Materials: 94%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248C	At 4B

Homogenous	Material	Color	Layer
No	Felt	Black	3 of 9

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace
Fiberous Glass	40%

Other Fiberous Materials: 40%

Non-Fiberous Materials: 60%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248D	At 4B

Homogenous	Material	Color	Layer
No	Tar	Black	4 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248E	At 4B

Homogenous	Material	Color	Layer
No	Felt	Brown	5 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	80%

Other Fiberous Materials: 80%

Non-Fiberous Materials: 20%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248F	At 4B

Homogenous	Material	Color	Layer
No	Tar	Black	6 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248G	At 4B

Homogenous	Material	Color	Layer
No	Felt	Brown	7 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	80%

Other Fiberous Materials: 80%

Non-Fiberous Materials: 20%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248H	At 4B

Homogenous	Material	Color	Layer
No	Tar	Black	8 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-006	AB17-8248I	At 4B

Homogenous	Material	Color	Layer
No	Fesco	Brown	9 of 9

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	90%

Other Fiberous Materials: 90%

Non-Fiberous Materials: 10%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-007	AB17-8249A	At 4A

Homogenous	Material	Color	Layer
No	Tar	Black	1 of 3

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-007	AB17-8249B	At 4A

Homogenous	Material	Color	Layer
No	Felt	Brown	2 of 3

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	80%

Other Fiberous Materials: 80%

Non-Fiberous Materials: 20%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-007	AB17-8249C	At 4A

Homogenous	Material	Color	Layer
No	Tar	Black	3 of 3

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-008	AB17-8250	Hot Stack

Homogenous	Material	Color	Layer
No	Mastic	Black	1 of 1

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	8%

Other Fiberous Materials: 8%

Non-Fiberous Materials: 92%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-009	AB17-8251	Mech Curb

Homogenous	Material	Color	Layer
No	Mastic	Black	1 of 1

Asbestos Type	Asbestos %
Chrysotile	8%
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

% Asbestos: 8%

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 92%

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-010	AB17-8252A	Head Wall

Homogenous	Material	Color	Layer
No	Tar	Black	1 of 2

Asbestos: None Detected	
Other Fiberous Material	**Fiberous %**
Cellulose	Trace

Other Fiberous Materials: TRACE

Non-Fiberous Materials: 100%

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

NVLAP
Lab Code: 200124-0

Bulk Sample Analysis for Asbestos

WL Project #: LA-026244

Report #: 635770
Report By: R. Briggs
Report Date: 11/20/2017

Client ID #	WL ID#	Location:
2046068501-ACM Bulk-010	AB17-8252B	Head Wall

Homogenous	Material	Color	Layer
No	Felt	Black	2 of 2

Asbestos: None Detected

Other Fiberous Material	Fiberous %
Cellulose	Trace
Fiberous Glass	40%

Other Fiberous Materials: 40%

Non-Fiberous Materials: 60%

Grant Caudill, Lab Analyst — 11/20/2017 Date

Joel Hicklin, Laboratory Technical Manager — 11/20/2017 Date

Analysis performed by: EPA Method 600/M4-82-020 or EPA Method 600/R-93/116, at the discretion of the client or WEC. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WEC, Inc., and are subject to WEC, Inc. General Terms and Conditions (available upon request).

Stantec

Chain of Custody

LA- 026244

725 E Fireweed Lane, Suite 200, Anchorage, AK 99503

Attention White Labs LLC
Client Alaska Court Sytem
Project Snowden Bldg Reroof
Sampling Company Stantec
Sampling Site 820 W 4th Ave Anch AK
Team Leader Dennis Morris
PO # n/a

1. Packed by: Dennis Morris Seal #
2. Seal Intact Upon Receipt by Sampling Company: Yes No
3. Condition of Contents:
4. Sealed for Shipping by:
5. Seal Intact Upon Receipt by Laboratory:
6. Contents Temperature upon receipt b
7. Conditions of Contents:

Date	Time	Sample ID/Description	Sample Type	No. Containers	Analysis Parameters	Remarks
11/15/17	N/R	2046068501-ACM Bulk-001	Bulk	1	PLM	Roofing-Top of Penthouse
11/15/17	N/R	2046068501-ACM Bulk-002	Bulk	1	PLM	Roofing-Inside of Penthouse
11/15/17	N/R	2046068501-ACM Bulk-003	Bulk	1	PLM	GWB-Penthouse
11/15/17	N/R	2046068501-ACM Bulk-004	Bulk	1	PLM	Duct Cloth-Penthouse
11/15/17	N/R	2046068501-ACM Bulk-005	Bulk	1	PLM	Roofing-Mech Curb In
11/15/17	N/R	2046068501-ACM Bulk-006	Bulk	1	PLM	Roofing-Roof Core @4B
11/15/17	N/R	2046068501-ACM Bulk-007	Bulk	1	PLM	Roofing-Roof Core @4A
11/15/17	N/R	2046068501-ACM Bulk-008	Bulk	1	PLM	Mastic-Hot Stack
11/15/17	N/R	2046068501-ACM Bulk-009	Bulk	1	PLM	Mastic-Mech Curb
11/15/17	N/R	2046068501-ACM Bulk-010	Bulk	1	PLM	Roofing-Headwall

Custody Transfer Prior to Shipping

	Relinquished by: (signed)	Received by: (signed)	Date/Time
1.		BBriggs	11/16/17 1:00pm
2.			
3.			
4.			

Shipping Details

Delivered to Shi	
Method of Shipr	
Received at Lat	
Signature/Date/	

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Analysis in Paint

WL Project #: LA-026245

Report #: 635783
Report By: R. Briggs
Report Date: 11/20/2017

Client: Stantec
725 E. Fireweed, Ste. #200
Anchorage, AK 99503

Billing Number: 60039

TAT: 5 Day **Sample Count:** 4

Project Name/Location: Snowden Bldg. Re Roof

Collected By: Client
Collection Date: 11/15/2017
Analysis By: J. Hicklin
Analysis Date: 11/20/2017
Received By: R. Briggs
Received Date: 11/16/2017

Client ID	WLSample	Result	Result Units	Reporting Limit (ppm)
Pb Bulk-001	AL17-3792	610	ppm	100
Pb Bulk-002	AL17-3793	<110	ppm	110
Pb Bulk-003	AL17-3794	4,000	ppm	120
Pb Bulk-004	AL17-3795	<95	ppm	95

Joel Hicklin, Laboratory Technical Manager — 11/20/2017 Date

Grant Cardill — 11/20/2017 Date

Preparation is performed according to EPA Method SW-846 3050B (M). Analysis performed according to EPA method SW-846 7420 (M), analysis by flame atomic absorption spectroscopy. The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Unless otherwise stated, all quality control samples are acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accreditted by AIHA LAP, LLC for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 026245

Stantec

Chain of Custody

725 E Fireweed Lane, Suite 200, Anchorage, AK 99503

Attention White Labs LLC
Client Alaska Court Sytem
Project Snowden Bldg Reroof
Sampling Company Stantec
Sampling Site 820 W 4th Ave Anch AK
Team Leader Dennis Morris
PO # n/a

1. Packed by: Dennis Morris Seal #
2. Seal Intact Upon Receipt by Sampling Company: Yes No
3. Condition of Contents:
4. Sealed for Shipping by:
5. Seal Intact Upon Receipt by Laboratory:
6. Contents Temperature upon receipt b
7. Conditions of Contents:

Date	Time	Sample ID/Description	Sample Type	No. Containers	Analysis Parameters	Remarks
11/15/17	N/R	2046068501-Pb Bulk-001	Bulk	1	AAS	Penthouse Exterior Walls
11/15/17	N/R	2046068501-Pb Bulk-002	Bulk	1	AAS	Penthouse-Exterior Fascia
11/15/17	N/R	2046068501-Pb Bulk-003	Bulk	1	AAS	Penthouse-AHU
11/15/17	N/R	2046068501-Pb Bulk-004	Bulk	1	AAS	Penthouse-Exterior Fascia

[redacted]

Custody Transfer Prior to Shipping

	Relinquished by: (signed)	Received by: (signed)	Date/Time		
1.		[illegible]	11/16/17 [illegible]	Delivered to Shi	
2.				Method of Shipr	
3.				Received at Lat	
4.				Signature/Date/	

Shipping Details

Stantec

Transmittal

Stantec Architecture Inc.
2515 A Street Anchorage Alaska

To:	Lab Manager	From:	Dennis J Morris
Company:	White Labs LLC	☐	For Your Information
Address:	383 Industrial Way, Anchorage	☐	For Your Approval
Phone:	(907)258-8661	☐	As Requested
Date:	11/16/2017		
File:	n/a		
Delivery:	Hand Deliver		

Reference: **WO# 2046052800**

Attachment:

Copies	Date	Pages	Description
10			ACM Bulk Sample
4			Pb Bulk Samples

Hello, please provide a 7 day turn on these samples. Thanks

Dennis J Morris
Sr. Project Manager
Phone: 352-7810
Fax: 452-4225
dennis.morris@stantec.com

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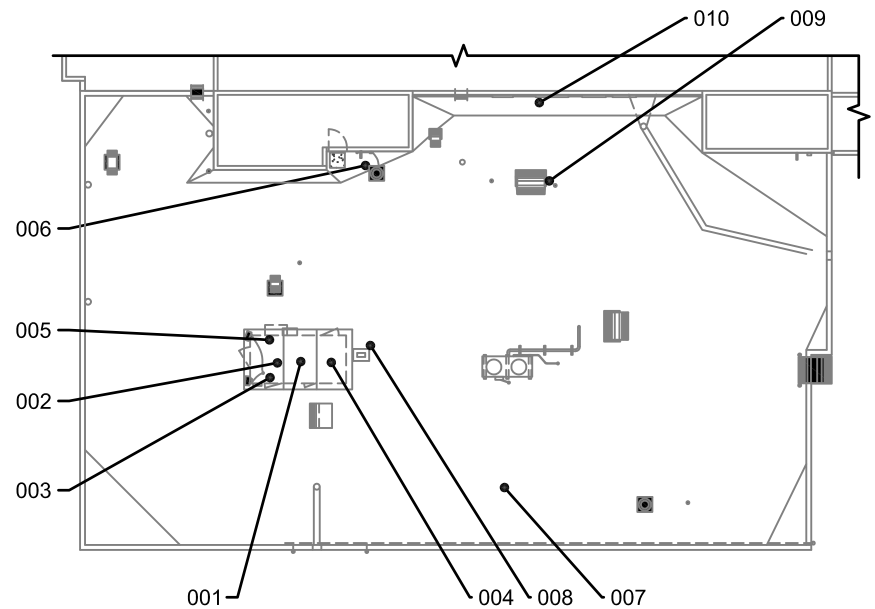
Appendix B ACM BULK SAMPLE LOCATIONS

Snowden Building – Asbestos Material Sampling Results			
SAMPLE #	**MATERIAL**	**LOCATION**	**ASBESTOS CONTENT**
SNOWDEN BUILDING			
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Felt	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-001*	Tar	Penthouse Roof @ Top	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Felt	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Tar	Roof Under Penthouse	None Detected
2046068501-ACM BULK-002*	Fescoboard	Roof Under Penthouse	None Detected
2046068501-ACM BULK-003	Gypsum Wallboard	Penthouse Interior Wall	None Detected
2046068501-ACM BULK-004	**Duct Cloth**	**Penthouse Ventilation Unit**	**95% Chrysotile**
2046068501-ACM BULK-005*	Tar	Mechanical Curb in Penthouse	None Detected
2046068501-ACM BULK-005*	Felt	Mechanical Curb in Penthouse	None Detected
2046068501-ACM BULK-005*	Tar	Mechanical Curb in Penthouse	None Detected
2046068501-ACM BULK-006*	**Silver Seal**	**Roof 4B**	**5% Chrysotile**
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Felt	Roof 4B	None Detected
2046068501-ACM BULK-006*	Tar	Roof 4B	None Detected
2046068501-ACM BULK-006*	Fescoboard	Roof 4B	None Detected
2046068501-ACM BULK-007*	Tar	Roof 4A	None Detected
2046068501-ACM BULK-007*	Felt	Roof 4A	None Detected
2046068501-ACM BULK-007*	Tar	Roof 4A	None Detected
2046068501-ACM BULK-008	Mastic (black)	Chimney	None Detected
2046068501-ACM BULK-009	**Mastic (black)**	**@Mechanical Curb**	**8% Chrysotile**
2046068501-ACM BULK-010*	Tar	@ Headwall w/Louvers	None Detected
2046068501-ACM BULK-010*	Felt	@ Headwall w/Louvers	None Detected
***Denotes multi- layer sample/test**			



U:\2046068501\drawing\H\2046068501_H2_Snowden.dwg
2017/12/06 1:44 PM By: Alexander, Josiah

ORIGINAL SHEET - ANSI A

DEC 2017
2046068501

Client/Project
ALASKA COURT SYSTEM

Figure No.
H2

Title
SNOWDEN BULIDING
ACM SAMPLING

Stantec

351 West Parks Highway, Suite 200
Wasilla AK
www.stantec.com

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