

May 31, 2018

SEARHC 3100 Channel Drive, Suite 300 Juneau, Alaska 99801 Attn: Steve Merkel TRAINING TEL (907) 272-8852 FAX (907) 272-0319 TOLL FREE IN AK (800) 458-2580

CONSULTING & ENGINEERING TEL (907) 272-9336 FAX (907) 272-4159

stevenm@searhc.org

RE: Wrangell Medical Center

Subj: Limited Asbestos Survey

This letter summarizes the findings associated with the limited asbestos survey conducted by Environmental Management, Inc. (EMI) in the Wrangell Medical Center (WMC), 310 Bennett Street, Wrangell, Alaska. The survey was performed on May 22 and 23, 2018, by Andy Coulson, an accredited Building Inspectors certified in accordance with the Asbestos Hazard Emergency Response Act (AHERA).

The purpose of this survey was to investigate building materials for the presence of asbestos for planning future operations and maintenance requirements. The investigation was performed by first conducting a walkthrough of the building, escorted by Jim Holder, WMC. Among other items, Jim pointed out the three phases of construction of the building:

- 1) original construction,
- 2) long term care section, and
- 3) new modular addition.

Bulk samples of suspect materials were then collected and submitted to a laboratory approved under the National Voluntary Laboratory Accreditation Program.

A total of 108 bulk samples were collected. The samples were submitted to NVL Laboratories (NVL) in Seattle, Washington for analysis via polarized light microscopy. Suspect materials found to contain asbestos at concentrations of 1% or greater and therefore considered Asbestos Containing Materials (ACM)were:

- The roofing material of the original Wrangell Health Center Building (samples 17909-007, 17909-062, 17909-063, 17909-064; photo 1).
- The tar paper skirts around HVAC penetrations in the attic of the new, modular addition to the building (sample 17909-066, photo 2).
- Grey sealant on one of the ducts in the air handler room (sample 17909-003, photo 3). Other ducts were covered in orange insulation, if grey sealant is encountered on them it should be considered ACM.
- A pale green caulk from the interior of the window of patient room 2 (sample 17909-088); other pale green window caulks should also be considered ACM.

- Black mastic was observed in several locations beneath floor tiles and beneath the green carpet in the basement; it is represented in several samples (17909-028, 17909-029, 17909-034, 17909-037, 17909-042; photo 4). It was not observed outside of the residential care addition, but if black mastic is encountered elsewhere in the building it should be considered ACM.
- Six different patterns of floor tiles were observed; three of which contained asbestos (17909-028, 17909-029, 17909-037; photos 5-7). Non-ACM floor tiles (Photos 8-10) may still be associated with the black mastic described above (For example, sample 17909-042). Because the colors and patterns of ACM and Non-ACM floor tiles are similar, and the differences do not show up well in photographs, all floor tiles should be considered ACM unless verified with specific samples to show they are not ACM.
- A single cement standpipe was observed on the east side exterior of the building near the southeast corner. This cement contained asbestos (sample 17909-100, photo 11).
- Some joint compound samples from the gypsum wallboard systems of the original and longterm care portions of the building (samples 17909-025, 17909-073, 17909-080, 17909-087) contained asbestos. Based on these results, the gypsum wallboard systems of the original and long-term care portions of the building should be considered ACM unless specific testing demonstrates otherwise. Samples from the GWS dividers in the attic (17909-009), and from the new modular addition to the building (17909-044 and 17909-051) did not contain asbestos.
- Black sink undercoatings (17909-058, 17909-060, 17909-070, 17909-078). White and green undercoatings were also observed on one sink each, samples of these undercoatings did not contain asbestos.

In addition to the sampled materials, Thermal System Insulation that is presumed to contain asbestos was observed in the boiler room (Photo 12), air handler room (Photo 13), and in the attic below the old roof (Photo 14). This material consisted of a presumed ACM pipe wrapping as well as a presumed ACM hard insulating material at joints and valves. Some limited sections of the ACM pipe wrapping appear to have been replaced with fiberglass. This material is in fair condition, with a couple nicks in the encapsulating wrap around the TSI, and in several locations the ends of hard insulating pipe joints are exposed (Photo 15). Due to the heterogeneous nature of these TSI materials, they were not sampled. If the TSI is not fiberglass it must be presumed to be ACM. No suspect TSI was observed in the crawlspaces or in the two newer sections of the building.

Because of the building's age several materials should be assumed to be ACM. The metal flue from the boilers in the boiler room should be assumed to contain ACM insulating material. Fire-rated doors, including 2 attic access hatches, should be assumed to contain asbestos. Several flanged pipe joints were observed in the boiler room, these should be assumed to contain an ACM gasket. Elevator brake pads, internal components of boilers, furnaces, and other pieces of building mechanical equipment often contain asbestos and need to be handled accordingly. To avoid damaging the roof, any tar paper, vapor barrier, or other roofing materials under the metal roof were not sampled and should be assumed to possibly be ACM. Flexible duct joints were in good condition and observed to be labeled as Ventglas, which as currently produced is a non-ACM fiberglass product; however, because it is unknown what the composition was when these joints were installed, these and other flexible duct joints should be assumed to be ACM unless further information is obtained to show otherwise.



The following section discusses the samples from the materials that did not contain asbestos. The orange fibrous duct insulation in the attic was sampled and did not contain asbestos. Grey, brown, and blue vinyl baseboards and their associated mastics were sampled; none of the samples contained asbestos. In the basement, two patterns of 12" by 12" glued-in ceiling tiles, and one of 24" by 48", were sampled along with their associated brown mastics; none contained asbestos. 4 patterns of lay-in ceiling tiles, 2 in the oldest portion of the building and 2 in the newest, were sampled and none contained asbestos. Several colors of vinyl sheet flooring were sampled along with associated mastics, none contained asbestos; however, if black mastic is observed it should be considered ACM as discussed above. The mastics underneath several different styles of carpet were sampled, none contained asbestos except for the black mastic under the green carpet in the basement described above; if black mastic is encountered under other carpets it should be considered ACM. The gypsum wall panels used in several parts of the health center were sampled and did not contain asbestos. The red penetration caulk used throughout the building was sampled and did not contain asbestos. Several other miscellaneous caulks from windows, sinks, and the building exterior were sampled and except for the pale green caulk described above none contained asbestos, however a wide variety of these materials were present so caulks should still be assumed to contain asbestos. The exterior building texture, the caulk between the walls and soffit, and the vapor barrier and gypsum wallboard of the soffit were sampled and did not contain asbestos.

This was a limited asbestos survey and therefore does not meet the standards for a thorough survey as required under NESHAPS for building demolition. Any material(s) that will be impacted by work activities that are discovered and are not represented in this assessment effort, or materials outside the area of investigation for this effort, should be tested for the presence of asbestos before being disturbed and disposed. The asbestos sampling followed EPA and OSHA's sampling and building inspection standards as set in 29 Code of Federal Regulations (CFR) 1910, 29 CFR 1926, 40 CFR 61, and 40 CFR 763 as applicable to an employer or owner of a commercial building. Please contact EMI at (907) 272-9336 if you have any questions.

Sincerely,

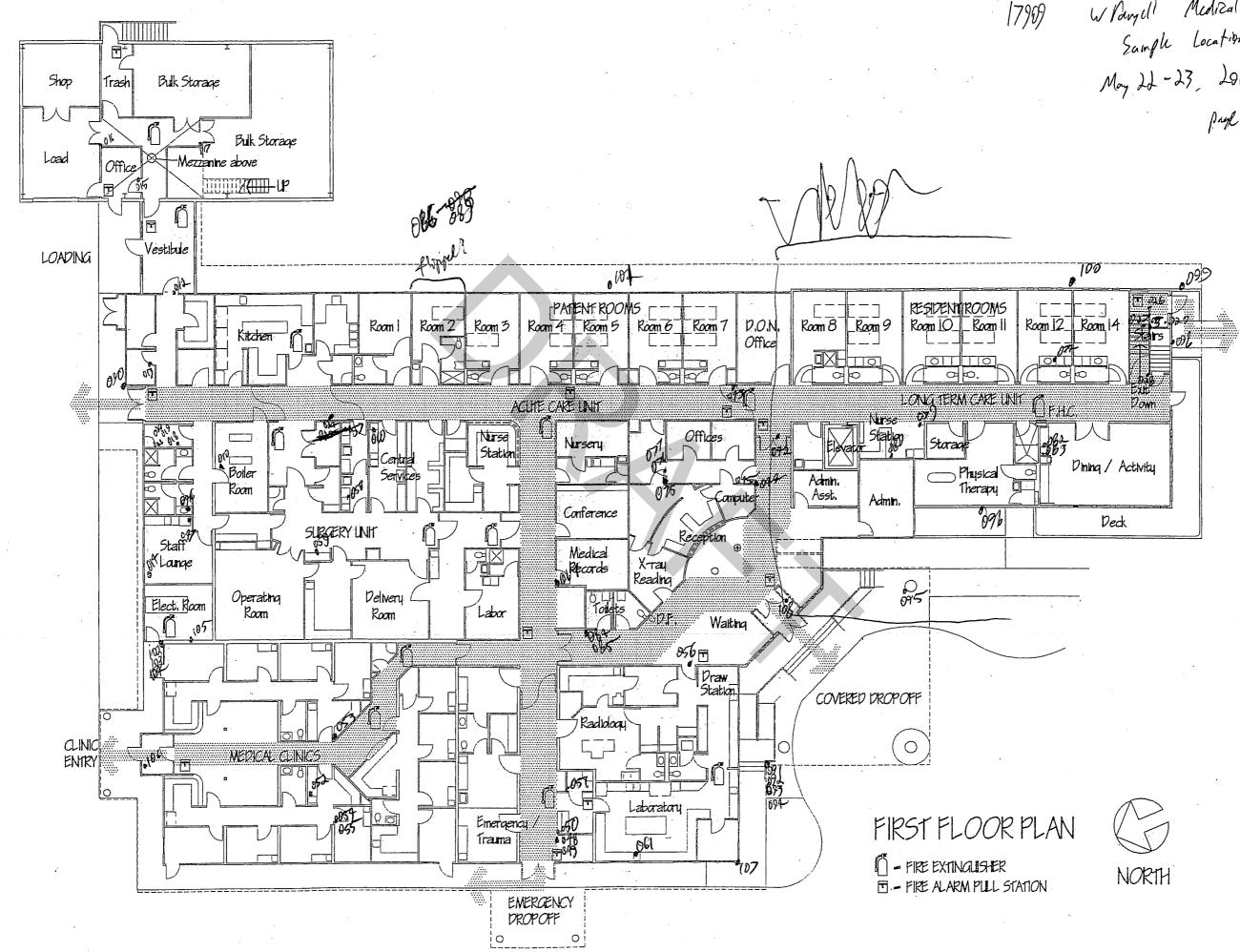
ENVIRONMENTAL MANAGEMENT, INC.

Andy Coulson Environmental Scientist

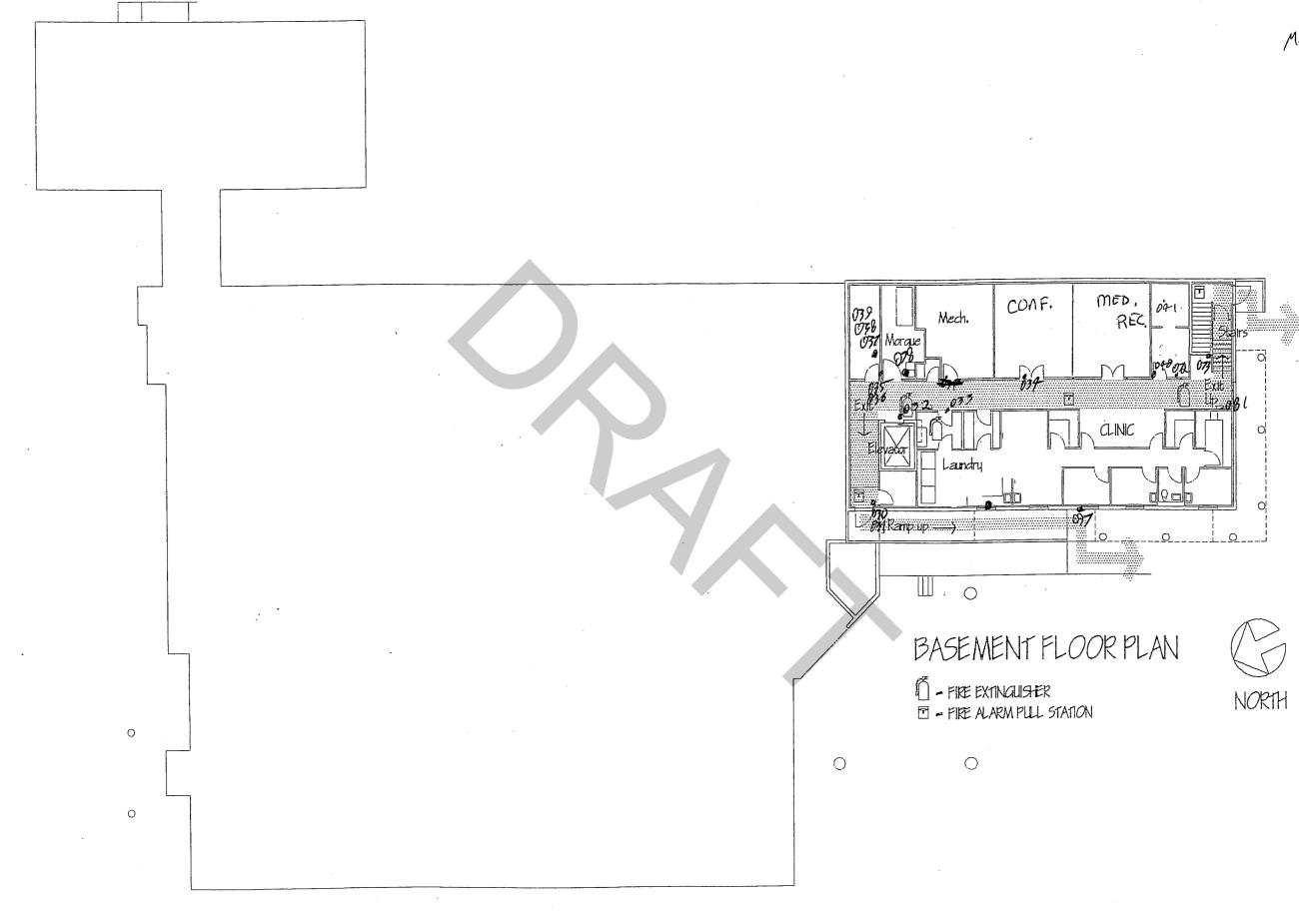
Attached:

Sample Location Maps Photo Log NVL Reports: 1809975 1809962 1809974 1809971 1809979 1809961 1809970 1809976





Whangell Medizal Center Sample Locations May 22-23, 2018 page 1



Wrongell Medical Certer Snuple Locations May 2K-23, LOIB Page 2



Photo 1: Roofing material of the original building roof is ACM. (May 22, 2018)



Photo 2: Tar paper skirts around penetrations in the new portion of the attic are ACM. (May 23, 2018)

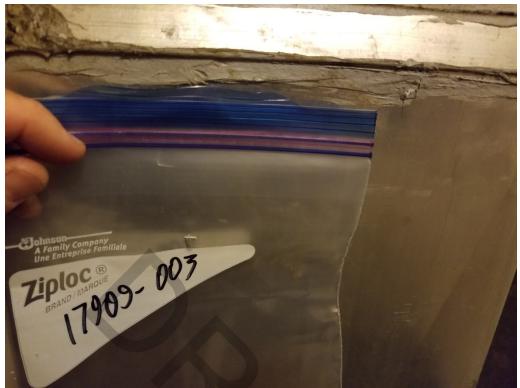


Photo 3: Grey duct sealant is ACM. (May 22, 2018)



Photo 4: Black mastic beneath found beneath floor tiles and green carpet in the basement. (May 22, 2018)



Photo 5: Pink floor tiles in the upper landing of the stairway were ACM, and had a black ACM mastic. Tile appears beige in this photograph; appeared pink when sampled. (May 22, 2018)



Photo 6: Off-white floor tiles in the stairway were ACM, and had a black mastic with trace amounts of asbestos. (May 22, 2018)



Photo 7: Brown floor tiles in the basement storage room were ACM, and had a black ACM mastic. (May 22, 2018)



Photo 8: Asbestos was not detected in white floor tiles in the basement storage room, and no black or ACM mastics were detected. (May 22, 2018)



Photo 9: Asbestos was not detected in speckled beige floor tiles in the basement storage room, and no black or ACM mastics were detected. (May 22, 2018)



Photo 10: Asbestos was not detected in pink floor tiles in the entrance to the long term care wing, but tiles did have a black ACM mastic. Tile appears grey in photograph, but appeared pink when sampled. (May 22, 2018)



Photo 11: The cement standpipe near the southeast corner of the building is ACM. (May 23, 2018)

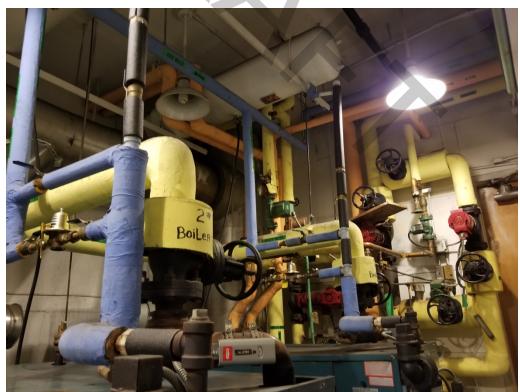


Photo 12: Presumed ACM TSI in the boiler room. Flue in back corner is assumed to contain ACM insulation. (May 22, 2018)



Photo 13: Presumed ACM TSI in the air handler room. Orange duct insulation on the right is not ACM. (May 22, 2018)

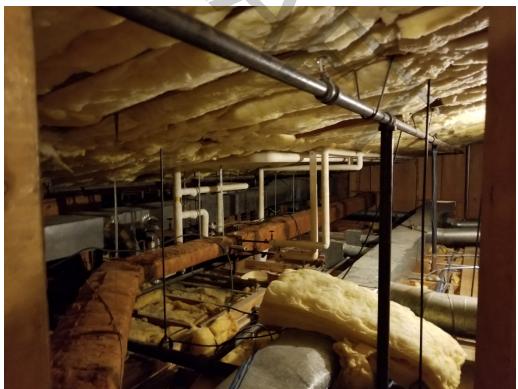


Photo 14: Presumed ACM TSI in the attic under the roof of the original building. (May 22, 2018)



Photo 15: Exposed ends of presumed ACM TSI hard insulated joints. (May 22, 2018)

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May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809975.00

Client Project: 17909 Location: WH-01

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

NVL Laboratories, Inc. 4708 Aurora Ave N, Seattle, WA 98103 p 206.547.0100 | f 206.634.1936

page 1 of 8

Client: Environmental Management Inc. EMI

Address: 206E Fireweed Lane, Ste. 201



Batch #: 1809975.00

Client Project #: 17909

Bulk Asbestos Fibers Analysis By Polarized Light Microscopy

Anchorage, AK 99503				Date Received: 5/25/2018 Samples Received: 1
Attention: Mr. Glenn Hashburgh				Samples Analyzed: 1
Project Location: WH-01				Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Lab ID: 18051827 Client Sample Location: WH-01	#: 17909-001			
Layer 1 of 1 Description: Red soft mate	erial with paint and p	paper		
Non-Fit	orous Materials:	Other Fibrous Materi	als:%	Asbestos Type: %
Bin	der/Filler, Paint	None Detected	ND	None Detected ND
Lab ID: 18051828Client SampleLocation: WH-01	#: 17909-002			
Layer 1 of 2 Description: White compa	cted powdery mater	ial with paint		
Non-Fit	orous Materials:	Other Fibrous Materi	als:%	Asbestos Type: %
Calcareous binder, Fine	particles, Paint	Cellulose	2%	None Detected ND
Layer 2 of 2 Description: White chalky	material with paper			
Non-Fib	orous Materials:	Other Fibrous Materi	als:%	Asbestos Type: %
Gypsum/Bind	er, Binder/Filler	Cellulose	3%	None Detected ND
		Glass fibers	4%	
Lab ID: 18051829 Client Sample Location: WH-01	#: 17909-003			
Layer 1 of 1 Description: Gray soft mat	erial			
Non-Fib	orous Materials:	Other Fibrous Materi	als:%	Asbestos Type: %
	Binder/Filler	None Detected	ND	Chrysotile 4%
Lab ID: 18051830Client SampleLocation: WH-01	#: 17909-004			
Layer 1 of 1 Description: Orange fibrou	is material			
Non-Fib	orous Materials:	Other Fibrous Materi	als:%	Asbestos Type: %
	Binder/Filler	Glass fibers	97%	None Detected ND
Sampled by: Client			(8-2
Analyzed by: Lauren Wetzel	Date:0	5/26/2018	Jan Barris	man
Reviewed by: Nick Ly			P . I . I	Technical Director

-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the re limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201	Batch #: 1809975.00 Client Project #: 17909
Anchorage, AK 99503	Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh	Samples Analyzed: 15
Project Location: WH-01	Method: EPA/600/R-93/116
	& EPA/600/M4-82-020
Lab ID: 18051831 Client Sample #: 17909- Location: WH-01	005
Layer 1 of 1 Description: Orange fibrous material	
Non-Fibrous Mater	ials: Other Fibrous Materials:% Asbestos Type: %
Binder/I	Filler Glass fibers 96% None Detected ND
Lab ID: 18051832 Client Sample #: 17909- Location: WH-01	006
Layer 1 of 1 Description: Orange fibrous material	
Non-Fibrous Mater	ials: Other Fibrous Materials:% Asbestos Type: %
Binder/I	Filler Glass fibers 98% None Detected ND
Lab ID: 18051833 Client Sample #: 17909- Location: WH-01	007
Layer 1 of 1 Description: Black asphaltic material	
Non-Fibrous Mater	ials: Other Fibrous Materials:% Asbestos Type: %
Asphalt/Bi	nder Cellulose 3% Chrysotile 2%
Lab ID: 18051834 Client Sample #: 17909- Location: WH-01	008
Layer 1 of 2 Description: Black asphaltic material	
Non-Fibrous Mater	ials: Other Fibrous Materials:% Asbestos Type: %
Asphalt/Bi	nder Glass fibers 5% None Detected ND
Layer 2 of 2 Description: Brown fibrous material	
Non-Fibrous Mater	ials: Other Fibrous Materials:% Asbestos Type: %
Binder/I	Filler Cellulose 80% None Detected ND
Lab ID: 18051835 Client Sample #: 17909- Location: WH-01	009
Sampled by: Client	An free
Analyzed by: Lauren Wetzel	Date: 05/26/2018
Reviewed by: Nick Ly	Date: 05/29/2018 Nick Ly, Technical Director

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis By Polarized Light Microscopy

	Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201		Batch #: 1809975.00 Client Project #: 17909
Audress.	Anchorage, AK 99503		Date Received: 5/25/2018 Samples Received: 1
Attention:	Mr. Glenn Hashburgh		Samples Analyzed: 15
Project Location:			Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 2	Description: White compacted powdery	material with paint and paper	
	Non-Fibrous Material	s: Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Fine particles, Pair	nt Cellulose 3%	None Detected ND
Layer 2 of 2	Description: White chalky material with p	baper	
	Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
	Gypsum/Binder, Binder/Fille	er Cellulose 5%	None Detected ND
Lab ID: 18051 Location: WH-0		D	
Layer 1 of 1	Description: Yellow mastic on silver foil		
	Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Metal fo	None Detected ND	None Detected ND
Lab ID: 18051 Location: WH-0			
Layer 1 of 2	Description: Yellow sheet vinyl		
	Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder, Synthetic foar	m Glass fibers 11%	None Detected ND
Layer 2 of 2	Description: Yellow mastic		
	Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binde	er Cellulose 3%	None Detected ND
Lab ID: 180518 Location: WH-0		2	
Layer 1 of 2	Description: Off-white sheet vinyl		
	Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binde	er None Detected ND	None Detected ND
Sampled by	v: Client	(2-2
		Date: 05/26/2018	(m)
			, Technical Director

limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Reviewed by: Nick Ly

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809975.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-01		Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 2 of 2 Description: Off-white mastic		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder	Cellulose 2%	None Detected ND
Lab ID: 18051839 Client Sample #: 17909-013 Location: WH-01 Inclusion		
Layer 1 of 1 Description: White mastic		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder	Synthetic fibers 2%	None Detected ND
Lab ID: 18051840 Client Sample #: 17909-014 Location: WH-01		
Layer 1 of 2 Description: Gray sheet vinyl		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Vinyl/Binder, Synthetic foam	Glass fibers 6%	None Detected ND
Layer 2 of 2 Description: Yellow mastic		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder	Cellulose 3%	None Detected ND
Lab ID: 18051841 Client Sample #: 17909-015 Location: WH-01		
Layer 1 of 3 Description: Brown sheet vinyl		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Vinyl/Binder, Mineral grains	Cellulose 2%	None Detected ND
Layer 2 of 3 Description: Clear adhesive		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Adhesive/Binder	None Detected ND	None Detected ND
Sampled by: Client	(2-2
	05/26/2018	Man S

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Date: 05/29/2018

Nick Ly, Technical Director



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-01

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116

Batch #: 1809975.00

& EPA/600/M4-82-020

 Layer 3 of 3
 Description: Black sheet vinyl

Non-Fibrous Materials: Vinyl/Binder, Mineral grains Other Fibrous Materials:% Cellulose 3% Asbestos Type: % None Detected ND

Sampled by: Client Analyzed by: Lauren Wetzel Reviewed by: Nick Ly

Date: 05/26/2018 Date: 05/29/2018

Nick Ly, Technical Director

NVL Laboratories, Inc.

ASBESTOS LABORATORY SERVICES

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Rush Samples _____

Company Environmental Management Inc. EMI	NVL Batch Number 1809975.00
Address 206E Fireweed Lane, Ste. 201	TAT 1 Day AH No
Anchorage, AK 99503	Rush TAT
Project Manager Mr. Glenn Hashburgh	Due Date 5/29/2018 Time 11:55 AM
Phone (907) 272-9336	Email ghasburgh@emi-alaska.com
	Fax (907) 272-4159

Pro	iect	Name	/Number:	17909
110	1000	name	/itumber.	17303

Project Location: WH-01

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 15

_	Lab ID	Sample ID	Description	A/R
1	18051827	17909-001		A
2	18051828	17909-002		A
3	18051829	17909-003		A
4	18051830	17909-004		A
5	18051831	17909-005		Α
6	18051832	17909-006		A
7	18051833	17909-007		A
8	18051834	17909-008		A
9	18051835	17909-009		A
10	18051836	17909-010		A
11	18051837	17909-011		Α
12	18051838	17909-012		A
13	18051839	17909-013		A
14	18051840	17909-014		Α
15	18051841	17909-015		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Lauren Wetzel		NVL	5/26/18	
Results Called by					
Faxed Emailed					
Special Instructions:					

Date: 5/25/2018 Time: 1:10 PM Entered By: Emily Schubert

1809975

INDUSTRIAL MYGIENE SERVICES LABORATORY + MANAGEMENT + TRAINING	ASBESTOS CHAIN OF CUS		Around Time 1 Hour 24 Hours 2 Hours 2 Days 4 Hours 3 Days ease call for TAT less than 24	□ 4 Days □ 5 Days □ 10 Days Hours
Company Environment	al Management, Inc.	Project Manager	enn Hasburgh	
Address 206 E Firewe	ed Ln, Suite 201	Cell () -	
Anchorage, A		Email gh	asburgh@emi-alask	a.com
Phone (907) 272-93			7 ⁾ 272 ⁻ 4159	
Project Name/Number 17909	Project Location	NH -01		
Asbestos Friable/Non-Friab Reporting Instructions	□ Fax ()	Other	acoulson@emi-a	alaska.com
🗆 Call ()		<u>Acina</u>	ghasburgh@em	
Total Number of Sampl			1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
Sample ID	Description	1 1	Å	
1 7909 -001	Red ju	infration can l		
$\frac{2}{3}$ $\frac{7909 - 901}{7909 - 903}$	tope and	joint conform	L	
4 17909 - 004	9 orange	grace might are		
5 17909-005	Drange	duct in sulatio	n	
6 12989-006	Orayl (feet insulation	In	
7 17909-007	100ty	For male		
8 7907-007	GWS	121 page		
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12 7909 - 012	oft, w	hite VSF		
13 17909-019	Carpet	mastiz	1	
14 17909 - 014	#5 Ac	4 1	st	
15 page 8 of 8	martile	pattern \$5F	1	
Print Name	Signature	Compar	ny Date	Ti

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809971.00

Client Project: 17909 Location: WH-02

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

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Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

NVL Laboratories, Inc. 4708 Aurora Ave N, Seattle, WA 98103 p 206.547.0100 | f 206.634.1936

page 1 of 8



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-02

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809971.00

Lab ID: 18051792 Client S Location: WH-02	ample #: 17909-016			
Comments: Sample was dried pri	or to analysis.			
	compacted powdery mate	rial with vinvl surface		
2	Non-Fibrous Materials:	Other Fibrous Material	s:%	Asbestos Type: %
Calcareo	ous binder, Vinyl/Binder		ND	None Detected ND
	compacted powdery mate	rial with paper		
	Non-Fibrous Materials:	Other Fibrous Material	s:%	Asbestos Type: %
Calcared	ous binder, Binder/Filler	Cellulose 2	20%	None Detected ND
Lab ID: 18051793 Client S	ample #: 17909-017			
Location: WH-02				
Comments: Sample was dried pri	or to analysis.			
Layer 1 of 2 Description: Gray	rubbery material			
	Non-Fibrous Materials:	Other Fibrous Material	s:%	Asbestos Type: %
	Rubber/Binder	None Detected	ND	None Detected ND
Layer 2 of 2 Description: White	soft mastic with paint and	paper		
	Non-Fibrous Materials:	Other Fibrous Material	s:%	Asbestos Type: %
Mastic/Bin	der, Binder/Filler, Paint	Cellulose	8%	None Detected ND
Lab ID: 18051794 Client S Location: WH-02	ample #: 17909-018			
Comments: Sample was dried pri	or to analysis			
	chalky material with paper	and vinvl surface		
2	Non-Fibrous Materials:	Other Fibrous Material	s:%	Asbestos Type: %
Gypsum/Binder, Bi	nder/Filler, Vinyl/Binder	Cellulose 2		None Detected ND
	, ,		5%	
			0,0	
Sampled by: Client			A	
Analyzed by: Welly Hsieh	Date:	05/25/2018	All C	
Reviewed by: Nick Ly	Date:	05/29/2018 Nic	ck Ly, Tech	nical Director

Client: Environmental Management Inc. EMI

Address: 206E Fireweed Lane, Ste. 201



Batch #: 1809971.00

Client Project #: 17909

Bulk Asbestos Fibers Analysis By Polarized Light Microscopy

Anchorage, AK 99503			Date Received: 5/25/2018 Samples Received: 15	
Attention: Mr. Glenn Hashburgh Project Location: WH-02			Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020	
Lab ID: 18051795 Client Sample a	#: 17909-019			
Comments: Sample was dried prior to ana	Ilvsis			
Layer 1 of 1 Description: White compact		h paper		
		Other Fibrous Materials:%	Asbestos Type: %	
Binder/Filler, Calo		Cellulose 24%	None Detected ND	
Lab ID: 18051796 Client Sample	#: 17909-020			
Location: WH-02				
Comments: Sample was dried prior to ana	Ilysis.			
Layer 1 of 1 Description: Gray compres	sed fibrous material with	paint		
Non-Fib	rous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
Binder/Filler, Fine pa	articles, Perlite	Cellulose 42%	None Detected ND	
Glas	s beads, Paint	Glass fibers 31%		
Lab ID: 18051797 Client Sample a Location: WH-02	#: 17909-021			
Comments: Sample was dried prior to ana	Ilysis.			
Layer 1 of 1 Description: White soft mat	erial with paint and pape	er		
Non-Fib	rous Materials: 0	Other Fibrous Materials:%	Asbestos Type: %	
Caulking compound, Bind	ler/Filler, Paint	Cellulose 10%	None Detected ND	
Lab ID: 18051798 Client Sample a Location: WH-02	#: 17909-022			
Comments: Sample was dried prior to ana	Ilysis.			
Layer 1 of 1 Description: White compac	ted powdery material wi	h paper		
Non-Fib	rous Materials: 0	Other Fibrous Materials:%	Asbestos Type: %	
Binder/Filler, Calo	careous binder	Cellulose 27%	None Detected ND	
Sampled by: Client		(X (
Analyzed by: Welly Hsieh	Date: 05/25/	2018	ADONS)	
Reviewed by: Nick Ly		Date: 05/29/2018 Nick Ly, Technical Director		

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809971.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-02		Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Lab ID: 18051799 Client Sample #: 17909-02 Location: WH-02	3	
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Yellow soft mastic		
Non-Fibrous Material	s: Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder, Fine particle	es Cellulose 2%	None Detected ND
Lab ID: 18051800 Location: WH-02	4	
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Gray compressed fibrous m		
Non-Fibrous Materials		Asbestos Type: %
Binder/Filler, Fine particles, Perlit		None Detected ND
Glass beads, Pair	nt Glass fibers 32%	
Lab ID: 18051801 Client Sample #: 17909-02 Location: WH-02	5	
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: White compacted powdery	material with paint and paper	
Non-Fibrous Material	s: Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Calcareous binder, Pair	nt Cellulose 14%	Chrysotile 2%
Lab ID: 18051802 Client Sample #: 17909-020 Location: WH-02	6	
Comments: Sample was dried prior to analysis.		
Layer 1 of 2 Description: Brown brittle mastic		
Non-Fibrous Materials	s: Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binde	er None Detected ND	None Detected ND
Sampled by: Client	(24
	Date: 05/25/2018	Con Marine Marine
		, Technical Director

20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



By Polarized Light Microscopy

Client	: Environmental Management Inc. EMI	Batch #: 180997		
Address: 206E Fireweed Lane, Ste. 201		Client Project #:		
Anchorage, AK 99503			Date Received: 5/25/2018	
			Samples Received: 15	
Attention: Mr. Glenn Hashburgh			Samples Analyzed: 15	
Project Location: WH-02			Method: EPA/600/R-93/116	
			& EPA/600/M4-82-020	
Layer 2 of 2	Description: Beige brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Mastic/Binder	Cellulose <1%	None Detected ND	

	Mastic/Binder	Cellulose <1%	None Detected ND
Lab ID: 1805	1803 Client Sample #: 17909-027		
Location: WH	-02		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Black vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose <1%	None Detected ND
Lab ID: 1805	1804 Client Sample #: 17909-028		
Location: WH	-02		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Tan tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder, Calcareous particles	None Detected ND	Chrysotile 2%
Layer 2 of 2	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder	None Detected ND	Chrysotile 6%
Lab ID: 1805	1805 Client Sample #: 17909-029		

Location: WH-02

Comments: Sample was dried prior to analysis.

Sampled by: Client		anter a	
Analyzed by: Welly Hsieh	Date: 05/25/2018		_
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director	



By Polarized Light Microscopy

Clien	t: Environmental Management Inc. EMI		Batch #: 1809971.00
Address	s: 206E Fireweed Lane, Ste. 201		Client Project #: 17909
	Anchorage, AK 99503		Date Received: 5/25/2018
			Samples Received: 15
Attentior	Samples Analyzed: 15		
Project Locatior	n: WH-02		Method: EPA/600/R-93/116
			& EPA/600/M4-82-020
Layer 1 of 2	Description: Tan tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder, Calcareous particles	None Detected ND	Chrysotile 2%
Layer 2 of 2	Description: Trace black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder	None Detected ND	Chrysotile <1%
Lab ID: 18051	1806 Client Sample #: 17909-030		
Location: WH-	02		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Gray compressed fibrous materia	al	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Fine particles, Perlite	Cellulose 45%	None Detected ND
	Glass beads	Glass fibers 31%	
Layer 2 of 2	Description: Brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Cellulose 3%	None Detected ND

Sampled by: Client		Anton
Analyzed by: Welly Hsieh	Date: 05/25/2018	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director

NVL Laboratories, Inc.

ASBESTOS LABORATORY SERVICES

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Company Environmental Management Inc. EMI	NVL Batch Number 1809971.00
Address 206E Fireweed Lane, Ste. 201	TAT 1 Day AH No
Anchorage, AK 99503	Rush TAT
Project Manager Mr. Glenn Hashburgh	Due Date 5/29/2018 Time 11:55 AM
Phone (907) 272-9336	Email ghasburgh@emi-alaska.com
	Fax (907) 272-4159

Project Name/Number: 17909

Project Location: WH-02

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples ____15

То	tal Number	of Samples15		Rush Samples
_	Lab ID	Sample ID	Description	A/R
1	18051792	17909-016		A
2	18051793	17909-017		A
3	18051794	17909-018		A
4	18051795	17909-019		A
5	18051796	17909-020		A
6	18051797	17909-021		A
7	18051798	17909-022		A
8	18051799	17909-023		A
9	18051800	17909-024		A
10	18051801	17909-025		A
11	18051802	17909-026		A
12	18051803	17909-027		A
13	18051804	17909-028		A
14	18051805	17909-029		A
15	18051806	17909-030		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Welly Hsieh		NVL	5/25/18	
Results Called by					
Faxed Emailed					
Special Instructions:					

Date: 5/25/2018 Time: 1:02 PM Entered By: Emily Schubert

1	8	0	9	9	7	1
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5 Days

□ 10 Days

24 Hours

🗙 2 Days

3 Days



Turn Around Time 🗆 1 Hour ASBESTOS 2 Hours **CHAIN OF CUSTODY** □ 4 Hours Please call for TAT less than 24 Hours

Company Environmental Mana	agement, Inc Project Manager Glenn Hasburgh	
Address 206 E Fireweed Ln,		
Anchorage, AK 9950	3 Email ghasburgh@emi-alaska.com	
Phone (907) 272-9336	Fax (907) 272 - 4159	
	$((\land))$	
Project Name/Number 17909	Project Location WH-DJ	
□ PCM Air (NIOSH 7400) □ X PLM (EPA 600/R-93-116) X	TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II Modified) EPA 400 Points (600/R-93-116) EPA 1000Points (600/R-93-11	6)
	LPA 400 Points (600/R-93-116) Lepa 1000Points (600/R-93-11 Asbestos in Vermiculite (EPA 600/R-04/004) Asbestos in Sediment (EPA 1:	
Asbestos Friable/Non-Friable (EPA 60		
Reporting Instructions		
• Call () -	□ Fax (→ ★Emailacoulson@emi-alaska.co	m
Total Number of Samples	ghasburgh@emi-alaska	com
	Description	A/R
1 179199-010	lape, joint compand	
2 17909 - 017	gilly cover base and mastil	
3 17909-019	and gyption vall pupels,	
4 17909-019	Tape, joint courfund	
5 17909-020	lay in celling till	
$\frac{6}{7}$ $\frac{7909-01}{7}$	Wall popul seam material	
8 17999-023	Cove base prostic	
9 17909-029	lay in ceiling file	
10 17909-025	type, ignt compared	
11 17909 -026	Corr base mastils	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VSF Starry	
$\frac{13}{14}$ $\frac{17909}{17909}$ $\frac{1}{120}$	Pink floor till	
15 12909-070	glied deiling files pattern 2	
Print Name	Signature Company Date	Time
Sampled by Andy Couloop	al tra	12:10
Sampled by Andy Coulson Relinquish by Andy Coulson	EMI EMI	10.10
Office Use Only	Signature Company Date	TimeA
Received by Engly 5	al NVL 8/25/13	TIME AIST
Analyzed by Called by		
Faxed/Email by		

4708 Aurora Ave N, Seattle, WA 98103 | p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809970.00

Client Project: 17909 Location: WH-03

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

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page 1 of 9

Reviewed by: Nick Ly



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

ibrous Materials:% Cellulose <1%	Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020 Asbestos Type: % None Detected ND
Cellulose <1%	None Detected ND
ibrous Materials:%	Asbestos Type: %
Cellulose 82%	None Detected ND
ibrous Materials:%	Asbestos Type: %
Talc fibers 2%	None Detected ND
ibrous Materials:%	Asbestos Type: %
ne Detected ND	None Detected ND
	Asbestos Type: %
Cellulose 2%	None Detected ND
	all
)	ibrous Materials:%

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Date: 05/29/2018

Nick Ly, Technical Director



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-03

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809970.00

Lab ID: 18051 Location: WH-0			
	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Yellow soft mastic		
Layer 1 01 2		Other Fibrous Meteriolov ⁰	Asbestos Type: %
	Non-Fibrous Materials:	Other Fibrous Materials:%	
	Mastic/Binder	Cellulose <1%	None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder	None Detected ND	Chrysotile 4%
Lab ID: 18051	781 Client Sample #: 17909-035		
Location: WH-0)3		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 3	Description: Black rubbery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Rubber/Binder, Paint	None Detected ND	None Detected ND
Layer 2 of 3	Description: White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Cellulose <1%	None Detected ND
	Departmention White compacted neurodary motori	al with paint	
Layer 3 of 3	Description. White compacted powdery materia		
Layer 3 of 3	Description: White compacted powdery materia Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %

Location: WH-03

Comments: Sample was dried prior to analysis.

Sampled by: Client		An tor
Analyzed by: Welly Hsieh	Date: 05/25/2018 _	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director



By Polarized Light Microscopy

	nt: Environmental Management Inc. EMI s: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809970.00 Client Project #: 17909 Date Received: 5/25/2018
• · · · ·			Samples Received: 15
	n: Mr. Glenn Hashburgh		Samples Analyzed: 15 Method: EPA/600/R-93/116
Project Locatio	0. WH-03		& EPA/600/M4-82-020
Layer 1 of 2	Description: Tan brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: White compacted powdery mate	erial with paint	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Paint	Cellulose <1%	None Detected ND
Lab ID: 1805 Location: WH Comments: Layer 1 of 2			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder, Calcareous particles	None Detected ND	Chrysotile 3%
Layer 2 of 2	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder	None Detected ND	Chrysotile 4%
Lab ID: 1805 Location: WH Comments: Layer 1 of 2	1784 Client Sample #: 17909-038		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinvl/Binder, Calcareous particles	None Detected ND	None Detected ND
Laver 2 of 2	Vinyl/Binder, Calcareous particles Description: Trace vellow soft mastic	None Detected ND	None Detected ND
Layer 2 of 2	Vinyl/Binder, Calcareous particles Description: Trace yellow soft mastic Non-Fibrous Materials:	None Detected ND Other Fibrous Materials:%	None Detected ND Asbestos Type: %

Sampled by: Client		In the	
Analyzed by: Welly Hsieh	Date: 05/25/2018		
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director)



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-03

Analyzed by: Welly Hsieh

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809970.00

Layer 1 of 2 D Layer 2 of 2 D Lab ID: 18051786 Location: WH-03 Comments: Sam	ple was dried prior to analysis. escription: Beige vinyl tile Non-Fibrous Materials: Vinyl/Binder, Calcareous particles escription: Yellow soft mastic Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material Non-Fibrous Materials:	Other Fibrous Materials:% None Detected ND Other Fibrous Materials:% Cellulose 2%	Asbestos Type: % None Detected ND Asbestos Type: % None Detected ND
Layer 1 of 2 D Layer 2 of 2 D Lab ID: 18051786 Location: WH-03 Comments: Sam	escription: Beige vinyl tile Non-Fibrous Materials: Vinyl/Binder, Calcareous particles escription: Yellow soft mastic Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	None Detected ND Other Fibrous Materials:% Cellulose 2%	None Detected ND Asbestos Type: %
Layer 2 of 2 D Lab ID: 18051786 Location: WH-03 Comments: Sam	Non-Fibrous Materials: Vinyl/Binder, Calcareous particles escription: Yellow soft mastic Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	None Detected ND Other Fibrous Materials:% Cellulose 2%	None Detected ND Asbestos Type: %
Lab ID: 18051786 Location: WH-03 Comments: Sam	Vinyl/Binder, Calcareous particles escription: Yellow soft mastic Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	None Detected ND Other Fibrous Materials:% Cellulose 2%	None Detected ND Asbestos Type: %
Lab ID: 18051786 Location: WH-03 Comments: Sam	escription: Yellow soft mastic Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	Other Fibrous Materials:% Cellulose 2%	Asbestos Type: %
Lab ID: 18051786 Location: WH-03 Comments: Sam	Non-Fibrous Materials: Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	Cellulose 2%	
Location: WH-03 Comments: Sam	Mastic/Binder Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	Cellulose 2%	
Location: WH-03 Comments: Sam	Client Sample #: 17909-040 ple was dried prior to analysis. escription: Brown rubbery material	1	None Detected ND
Location: WH-03 Comments: Sam	ple was dried prior to analysis. escription: Brown rubbery material	7	
	escription: Brown rubbery material		
Layer 1 of 2 D			
	Non-Fibrous Materials:		
		Other Fibrous Materials:%	Asbestos Type: %
	Rubber/Binder	None Detected ND	None Detected ND
Layer 2 of 2 D	escription: White soft mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Paint	None Detected ND	None Detected ND
Lab ID: 18051787 Location: WH-03	Client Sample #: 17909-041		
Comments: Sam	ple was dried prior to analysis.		
Layer 1 of 1 D	escription: White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	None Detected ND	None Detected ND

Reviewed by: Nick Ly Nick Ly, Technical Director Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Date: 05/25/2018

Date: 05/29/2018



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-03

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809970.00

Lab ID: 18051	•		
Location: WH-0			
	Sample was dried prior to analysis.		
Layer 1 of 4	Description: Beige vinyl tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder, Calcareous particles	None Detected ND	None Detected ND
Layer 2 of 4	Description: Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 2%	None Detected ND
Layer 3 of 4	Description: Gray soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mineral grains, Fine particles	None Detected ND	None Detected ND
Layer 4 of 4	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder	Cellulose 2%	Chrysotile 5%
Lab ID: 18051	789 Client Sample #: 17909-043		
Location: WH-0	3		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Gray vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder	Glass fibers 7%	None Detected ND
Layer 2 of 2	Description: Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Cellulose 2%	None Detected ND

Sampled by: Client		Antin
Analyzed by: Welly Hsieh	Date: 05/25/2018 _	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director



By Polarized Light Microscopy

Client: Environmental Management Inc. EMI	
Address: 206E Fireweed Lane, Ste. 201	
Anchorage, AK 99503	

Attention: Mr. Glenn Hashburgh

Project Location: WH-03

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809970.00

Lab ID: 1805 Location: WH	•		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Rubber/Binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Cellulose <1%	None Detected ND
Lab ID: 1805 Location: WH	-03	1	
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: White woven fibrous material with	mastic and vinyl surface	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Mastic/Binder, Vinyl/Binder	Cellulose 48%	None Detected ND
Layer 2 of 2	Description: White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Cellulose 21%	None Detected ND
		Glass fibers 3%	

Sampled by: Client		An fair	
Analyzed by: Welly Hsieh	Date: 05/25/2018		
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director	
lote: If samples are not homogeneous, then subsample	es of the components were analyzed separate	ly. All bulk samples are analyzed using both EF	Ā

NVL Laboratories, Inc.

ASBESTOS LABORATORY SERVICES

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Company	Environmental Management Inc. EMI	NVL Batch Number 1809970.00			
Address	206E Fireweed Lane, Ste. 201	TAT 1 Day	AH No		
	Anchorage, AK 99503	Rush TAT	-		
Project Manager	Mr. Glenn Hashburgh	Due Date 5/29/2018 Time 11	:55 AM		
Phone	(907) 272-9336	Email ghasburgh@emi-alaska.com			
		Fax (907) 272-4159			

Project Name/Number: 17909

Project Location: WH-03

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples ____15

To	tal Number	of Samples	15		Rush Samples	
_	Lab ID	Sample ID		Description		A/R
1	18051777	17909-031				А
2	18051778	17909-032				А
3	18051779	17909-033				Α
4	18051780	17909-034				А
5	18051781	17909-035				А
6	18051782	17909-036				Α
7	18051783	17909-037				А
8	18051784	17909-038				А
9	18051785	17909-039				А
10	18051786	17909-040				А
11	18051787	17909-041				А
12	18051788	17909-042				Α
13	18051789	17909-043				А
14	18051790	17909-044				Α
15	18051791	17909-045				А

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Welly Hsieh		NVL	5/25/18	
Results Called by					
Faxed Emailed					
Special Instructions:		1			

Date: 5/25/2018 Time: 12:54 PM Entered By: Emily Schubert

1809970



ASBESTOS CHAIN OF CUSTODY

Turn Around Time		
🗆 1 Hour	24 Hours	🛛 4 Days
2 Hours	🏂 2 Days	🗅 5 Days
4 Hours	3 Days	🗅 10 Days

Please call for TAT less than 24 Hours

Company Environmental Mar	nagement, Inc. Project Manager Glenn Hasburgh	
Address 206 E Fireweed Ln	•	
Anchorage, AK 995	503 Email ghasburgh@emi-alaska.com	
Phone (907) 272-9336	Fax ⁽ 907 ⁾ 272 ⁻ 4159	
Project Name/Number 17909	Project Location WH-03	
🕅 PLM (EPA 600/R-93-116)	TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II Modified EPA 400 Points (600/R-93-116) EPA 1000Points (600/R-93 Asbestos in Vermiculite (EPA 600/R-04/004) Asbestos in Sediment (EPA 600/R-93/116) G00/R-93/116) Other	-116)
Reporting Instructions		
🗅 Call ()	□ Fax () → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
Total Number of Samples	ghasburgh@emi-alask	a.com
Sample ID	Description	A/R
1 7909-031	brown mastre	
2 17909-032	plu in ailing file pattern 2	
3 17/19-073	P.nk VSt	
4 7909-039	carpet mastil	
6 17909-036	Dint compand	
7 17900-1037	barn flags till	
8 17909-078	swite floor tile	
9 17909-079	speckled floor fill	
10 17909-040	purple con base	
11 17907-041	Carmt mastic	
12 790-042	bright piak floor tile	
13 7907-043	gry VSP	
14 1709 - 044	gry care bur	
	Vallpuper, tope, joint compound	
Print Name	Signature Company Date	Time
Sampled by Andy Coulson	EMI ad My Lilb	13.17
Relinquish by Andy Coulson	Cuy, a EMI 2102 2016	13:55
Office Use Only	P	
Received by Analyzed by	Company Date 25/18	Time 1155 AD
Called by Faxed/Email by		
4708 Aurora Ave N, Se	eattle, WA 98103 p 206.547.0100 f 206.634.1936 www.nvllabs.com	

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809962.00

Client Project: 17909 Location: WH-04

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

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page 1 of 8



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-04

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809962.00

Lab ID: 18051745 Client Sample #: 17909-04	6	
Comments: Sample was dried prior to analysis.		
Layer 1 of 2 Description: Clear soft elastic material		
Non-Fibrous Materia	ls: Other Fibrous Materials:%	Asbestos Type: %
Caulking compou		None Detected NE
Layer 2 of 2 Description: White soft material		
Non-Fibrous Materia	ls: Other Fibrous Materials:%	Asbestos Type: %
Caulking compou		None Detected NE
Lab ID: 18051746 Client Sample #: 17909-04	17	
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Off-white soft elastic mate	ial	
Non-Fibrous Materia	ls: Other Fibrous Materials:%	Asbestos Type: %
Caulking compound, Fine particl	es None Detected ND	None Detected NI
Lab ID: 18051747 Client Sample #: 17909-04 Location: WH-04 VH-04	18	
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Clear/gray soft mastic (on	wood)	
Non-Fibrous Materia	ls: Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder, Fine particles, Wood flak	es Cellulose <1%	None Detected NI
Lab ID: 18051748Client Sample #: 17909-04Location: WH-04Comments: Sample was dried prior to analysis.	9	
Sampled by: Client		haters
	Date: 05/25/2018	To obvice Director
Reviewed by: Nick Ly	Date: 05/29/2018 Nick Ly,	Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



	t: Environmental Management Inc. EMI		Batch #: 1809962.00
Address	s: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Client Project #: 17909 Date Received: 5/25/2018
	Ancholage, AN 99000		Samples Received: 15
Attention	: Mr. Glenn Hashburgh		Samples Analyzed: 15
Project Location	-		Method: EPA/600/R-93/116
. ,			& EPA/600/M4-82-020
Layer 1 of 2	Description: Beige vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/Binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 3%	None Detected ND
Location: WH-0 Comments: Layer 1 of 1	04 Sample was dried prior to analysis. Description: Beige soft mastic		
2	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Fine particles	Synthetic fibers 8%	None Detected ND
Lab ID: 18051 Location: WH-0	· · · · · · · · · · · · · · · · · · ·		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: White compacted powdery materi	ial with paint	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Paint	None Detected ND	None Detected ND
Lover 2 of 2	Description: White compacted powdery materi	ial with paper	
Layer 2 of 2		Other Fibrous Materials:%	Asbestos Type: %
Layer 2 OF 2	Non-Fibrous Materials:		

Sample was dried prior to analysis. Comments:

Sampled by: Client		Deter
Analyzed by: Welly Hsieh	Date: 05/25/2018	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



	t: Environmental Management Inc. EMI s: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809962.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention Project Locatior	n: Mr. Glenn Hashburgh n: WH-04		Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 2	Description: White soft elastic material		
	Non-Fibrous Materials:	Other Fibrous Materials	s:% Asbestos Type: %
	Caulking compound	None Detected	ND None Detected ND
Layer 2 of 2	Description: White soft material		
-	Non-Fibrous Materials:	Other Fibrous Materials	s:% Asbestos Type: %
	Caulking compound, Calcareous particles	None Detected	ND None Detected ND
Lab ID: 18051 Location: WH-	04		
	Sample was dried prior to analysis.		
Layer 1 of 3	Description: Tan vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials	
	Vinyl/Binder, Synthetic foam	None Detected	ND None Detected ND
Layer 2 of 3	Description: Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials	s:% Asbestos Type: %
	Mastic/Binder, Fine particles, Wood flakes	Cellulose	3%None Detected ND
		Synthetic fibers	2%
Layer 3 of 3	Description: Off-white chalky material with pa	per	•
	Non-Fibrous Materials:	Other Fibrous Materials	s:% Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Cellulose 2	None Detected ND
Lab ID: 18051 Location: WH-	•		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 1	Description: White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials	s:% Asbestos Type: %
	Mastic/Binder	Synthetic fibers <	1%None Detected ND
Sampled b	y: Client		(X-4-
-	-	05/25/2018	The man and the second
Reviewed b	-		k Ly, Technical Director

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-04

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809962.00

Lab ID: 18051			
Comments:	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder, Fine particles	Cellulose 4%	None Detected ND
Layer 2 of 2			
	Description: Off-white crumbly material	Other Fibreus Meterials 0/	Asbestos Type: %
	Non-Fibrous Materials:	Other Fibrous Materials:%	
	Binder/Filler, Fine particles	Cellulose 2%	None Detected ND
Lab ID: 18051	1755 Client Sample #: 17909-056		
Location: WH-	04		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 3	Description: White soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Synthetic fibers <1%	None Detected ND
Layer 2 of 3	Description: Yellow soft mastic		
-	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Cellulose <1%	None Detected ND
Layer 3 of 3		Cendiose (176	
Layer 5 01 5	Description: Gray soft material		Achaetee Tures 0/
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Fine particles, Mineral grains	None Detected ND	None Detected ND
Lab ID: 18051	1756 Client Sample #: 17909-057		

Location: WH-04

Comments: Sample was dried prior to analysis.

Sampled by: Client		Antin
Analyzed by: Welly Hsieh	Date: 05/25/2018	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



	t: Environmental Management Inc. EMI s: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809962.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention Project Location	∷ Mr. Glenn Hashburgh n: WH-04		Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 1	Description: White soft flaky material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Fine particles	Cellulose 10%	None Detected ND
Lab ID: 18051 Location: WH-(Comments: Layer 1 of 1			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Fine particles	None Detected ND	Chrysotile 4%
Lab ID: 18051			
Comments:	Sample was dried prior to analysis.		
Layer 1 of 1	Description: Green flaky material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Fine particles, Mica	None Detected ND	None Detected ND
Lab ID: 18051 Location: WH-(· · · · · · · ·		
	Sample was dried prior to analysis.		
Layer 1 of 1	Description: Black asphaltic material		•• •
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Fine particles	Cellulose 2%	Chrysotile 3%

Sampled by: Client		Anticia)
Analyzed by: Welly Hsieh	Date: 05/25/2018		
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director	J
ote: If samples are not homogeneous, then subsample	s of the components were analyzed separat	tely. All bulk samples are analyzed using both EF	A

No 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Company Environmental Management Inc. EMI	NVL Batch Number 1809962.00
Address 206E Fireweed Lane, Ste. 201	TAT 1 Day AH No.
Anchorage, AK 99503	Rush TAT
Project Manager Mr. Glenn Hashburgh	Due Date 5/29/2018 Time 11:55 AM
Phone (907) 272-9336	Email ghasburgh@emi-alaska.com
	Fax (907) 272-4159

Project Name/Number: 17909

Project Location: WH-04

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples ____15

To	tal Number	of Samples15		Rush Samples
_	Lab ID	Sample ID	Description	A/R
1	18051745	17909-046		A
2	18051746	17909-047		A
3	18051747	17909-048		A
4	18051748	17909-049		A
5	18051749	17909-050		A
6	18051750	17909-051		A
7	18051751	17909-052		A
8	18051752	17909-053		A
9	18051753	17909-054		A
10	18051754	17909-055		A
11	18051755	17909-056		A
12	18051756	17909-057		A
13	18051757	17909-058		A
14	18051758	17909-059		A
15	18051759	17909-060		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Welly Hsieh		NVL	5/25/18	
Results Called by					
Faxed Emailed					
Special Instructions:					

Date: 5/25/2018 Time: 12:09 PM Entered By: Nicholas Dossegger

1809962



ASBESTOS CHAIN OF CUSTODY

Turn Around Time		
🛛 1 Hour	A Hours	🗅 4 Days
2 Hours	2 Days	🖵 5 Days
4 Hours	🖬 3 Days	10 Days

Please call for TAT less than 24 Hours

Company	Environmental Mar	nagement, Inc. P	roject Manager Glenn Ha	shurah	
Address	206 E Fireweed Ln,	Suite 201	Cell ()	-	
	Anchorage, AK 995	03		@emi-alaska.com	
Phone	(907) 272-9336		Fax (907) 272		
Project Name/N	umber 17909	Project Location	1-04	1100	
🗴 PLM (EPA 🗅 PLM Grav	(600/R-93-116)	TEM (NIOSH 7402) EPA 400 Points (600/R-9 Asbestos in Vermiculite (00/R-93/116)		M (EPA Level II Modified A 1000Points (600/R-93 pestos in Sediment (EPA	
Reporting Inst	tructions				
🗆 Call 🤇)	□ Fax ()		lson@emi-alaska.	com
otal Num	ber of Samples			burgh@emi-alaska	
Sample		Description			
1 7	109-046	sink cauli			A/R
2 170	209-047	STAK Curry			
3 17	709-098	curret mast			
4 [7]	909-049	Peuch VS. F			
5 79	09-050		Mastic		
6 79	09-051	joint comp	Dul		
7 7 79	09-052	Sink Carlk			
8 79	09-053	wood fat	ten vst		(1977)
9 179	09-054	curret masti			
	10-056	Capit most		1.00	
12 79	0)-056	carpet masti	1 100 11 00	mpoul	
13 79	19-058	white sink	undercont	/	
14 1796	1-059		ungertout		
5 790	9-960	plack sink	undercoat		
/ 0	<i>v</i>		undercont		
	Print Name	Signature	Company	Date	Time
ampled by	ndy Coulson	and a	EMI	22 My 2018	15:55
inquish by	ndy Coulson	1	EMI		
fice Use Only					
Received by Analyzed by	Print Name Wally Heid	Signature	Eompany NVL My	Date 5/28/19	Time 1155 ATB
Called by axed/Email by					
··· ·					
	4708 Aurora Ave N, Seat	tle WA 98103			
		tle, WA 98103 p 206.547	.0100 f 206.634.1936	www.nvllabs.com	

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809979.00

Client Project: 17909 Location: WH-05

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

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page 1 of 9

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI
Address: 206E Fireweed Lane, Ste. 201
Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-05

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809979.00

Lab ID: 1805 Location: WH	- -		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 1	Description: Black plastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Plastic	None Detected ND	None Detected ND
Lab ID: 1805 Location: WH			
Comments:	Sample was dried prior to analysis.		
Layer 1 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Fine particles, Wood flakes	Cellulose 2%	Chrysotile 7%
Layer 2 of 3	Description: Black asphaltic material with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Mastic/Binder, Fine particles	Glass fibers 18%	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous felt		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Binder/Filler	Cellulose 61%	None Detected ND
Lab ID: 1805	1861 Client Sample #: 17909-063		
Location: WH	-05		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Fine particles	None Detected ND	Chrysotile 6%

Sampled by: Client		Internet
Analyzed by: Welly Hsieh	Date: 05/25/2018 _	
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503			Batch #: 1809979.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-05			Samples Received: 13 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
			& EFA/000/1014-02-020
Layer 2 of 3 Description: Built-up black asphaltic m	aterial with mastic		
Non-Fibrous Materi	als: Other Fibrou	s Materials:%	Asbestos Type: %
Asphalt/Binder, Fine particles, Wood fla	kes Glas	s fibers 32%	None Detected ND
Layer 3 of 3 Description: Tan fibrous material			
Non-Fibrous Materi	als: Other Fibrou	s Materials:%	Asbestos Type: %
Binder/Filler, Fine partie	cles Ce	ellulose 93%	None Detected ND
Lab ID: 18051862 Client Sample #: 17909-0 Location: WH-05	64		
Comments: Sample was dried prior to analysis.			
Layer 1 of 1 Description: Black asphaltic material			
Non-Fibrous Materi	als: Other Fibrou	s Materials:%	Asbestos Type: %
Asphalt/Binder, Fine partic	cles Ce	ellulose <1%	Chrysotile 10%
Lab ID: 18051863 Client Sample #: 17909-0 Location: WH-05	165		
Comments: Sample was dried prior to analysis.			
Layer 1 of 2 Description: Built-up black asphaltic m	aterial and mastic		
Non-Fibrous Materi	als: Other Fibrou	s Materials:%	Asbestos Type: %
Asphalt/Binder, Mastic/Binder, Wood fla	kes Glas	s fibers 42%	None Detected ND
Layer 2 of 2 Description: Tan fibrous material			
Non-Fibrous Materi	als: Other Fibrou	s Materials:%	Asbestos Type: %
Binder/Filler, Fine partic	cles Ce	ellulose 89%	None Detected ND
Lab ID: 18051864Client Sample #: 17909-0Location: WH-05Comments:Comments:Sample was dried prior to analysis.	966		
Sampled by: Client		(the first of the second
Analyzed by: Welly Hsieh	Date: 05/25/2018		
Reviewed by: Nick Ly	Date: 05/29/2018	Nick I v	, Technical Director

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Client: Environmental Management Inc. EM Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503	I			Batch #: 1809979.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-05				Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 2 Description: White woven fibrous m	aterial with vinyl	surface		
Non-Fibrous Mat	erials: C	ther Fibrous Mater	ials:%	Asbestos Type: %
Binder/Filler, Vinyl/I	Binder	Synthetic fibers	52%	None Detected ND
Layer 2 of 2 Description: Black asphaltic materia	al			
Non-Fibrous Mat	erials: C	ther Fibrous Mater	ials:%	Asbestos Type: %
Asphalt/Binder, Fine pa	rticles	Cellulose	<1%	Chrysotile 8%
Lab ID: 18051865Client Sample #: 1790Location: WH-05Comments:Sample was dried prior to analysis.Layer 1 of 2Description: Gray rubbery material	9-067			
Non-Fibrous Mat	erials: C	ther Fibrous Mater	ials:%	Asbestos Type: %
Rubber/	Binder	None Detected	ND	None Detected ND
Layer 2 of 2 Description: White soft mastic with	paint and paper			
Non-Fibrous Mat	erials: C	ther Fibrous Mater	ials:%	Asbestos Type: %
Mastic/Binder, Binder/Filler,	, Paint	Cellulose	14%	None Detected ND
Lab ID: 18051866 Client Sample #: 1790 Location: WH-05	9-068			
Comments: Sample was dried prior to analysis.				
Layer 1 of 1 Description: Gray soft material				
Non-Fibrous Mat	erials: C	ther Fibrous Mater	ials:%	Asbestos Type: %
Caulking com	pound	Cellulose	<1%	None Detected ND
Lab ID: 18051867Client Sample #: 1790Location: WH-05Comments:Sample was dried prior to analysis.	9-069			
Sampled by: Client	D _105/05/	2040		atos
Analyzed by: Welly Hsieh Reviewed by: Nick Ly	Date: 05/25/2 Date: 05/29/2			Fechnical Director
Note: If samples are not homogeneous, then subsamples of the of 600/R-93/116 and 600/M4-82-020 Methods with the following meas 20%=10-30%, 50%=40-60%). This report relates only to the items to limited by the methodology and acuity of the sample collector. Laboratories, Inc. It shall not be used to claim product endorsement	components were ar surement uncertaintie ested. If sample was This report shall n	alyzed separately. All s for the reported % A not collected by NVL p ot be reproduced exce	bulk sample sbestos (19 personnel, t ept in full,	es are analyzed using both EPA %=0-3%, 5%=1-9%, 10%=5-15%, hen the accuracy of the results is without written approval of NVL



Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503		Batch #: 1809979.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-05		Samples Received: 13 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 2 Description: Multi-color fibrous material with	n white soft mastic	
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Mastic/Binder	Synthetic fibers 61%	None Detected ND
Layer 2 of 2 Description: Yellow soft mastic	-	
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder, Fine particles	Synthetic fibers <1%	None Detected ND
Lab ID: 18051868 Client Sample #: 17909-070 Location: WH-05 Comments: Sample was dried prior to analysis. Lower 1 of 1 Description: Discle control is		
Layer 1 of 1 Description: Black asphaltic material Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Asphalt/Binder, Fine particles	Cellulose <1%	Chrysotile 3%
	Cellulose <1%	
Lab ID: 18051869 Client Sample #: 17909-071 Location: WH-05		
Comments: Sample was dried prior to analysis.		
Layer 1 of 2 Description: Mutli-color fibrous material with	n gray soft material	
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Synthetic fibers 57%	None Detected ND
Layer 2 of 2 Description: White soft mastic		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder	Synthetic fibers 2%	None Detected ND
Lab ID: 18051870Client Sample #: 17909-072Location: WH-05Comments:Sample was dried prior to analysis.		
Sampled by: Client	Ģ	States)
	:05/25/2018	
Reviewed by: Nick Ly Date	:05/29/2018 Nick Ly,	Technical Director
Note: If samples are not homogeneous, then subsamples of the component 600/R-93/116 and 600/M4-82-020 Methods with the following measurement u 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If s limited by the methodology and acuity of the sample collector. This report Laboratories, Inc. It shall not be used to claim product endorsement by NVLA	uncertainties for the reported % Asbestos (ample was not collected by NVL personnel ort shall not be reproduced except in full	1%=0-3%, 5%=1-9%, 10%=5-15%, , then the accuracy of the results is , without written approval of NVL



Client: Environmental Managemer Address: 206E Fireweed Lane, Ste. Anchorage, AK 99503				Batch #: 1809979.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh				Samples Analyzed: 15
Project Location: WH-05				Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 1 of 2 Description: Gray compre	essed fibrous materia	al with paint		
Non-Fi	brous Materials:	Other Fibrous Mate	erials:%	Asbestos Type: %
Binder/Filler, Fine	particles, Perlite	Cellulos	e 41%	None Detected ND
Gla	ass beads, Paint	Glass fiber	s 38%	
Layer 2 of 2 Description: Brown brittle	mastic			
Non-Fi	brous Materials:	Other Fibrous Mate	erials:%	Asbestos Type: %
	Mastic/Binder	Cellulos	e 2%	None Detected ND
Lab ID: 18051871Client SampleLocation: WH-05Comments:Comments:Sample was dried prior to arLayer 1 of 2Description: White woven	nalysis.	h paint		
	brous Materials:	Other Fibrous Mate	erials:%	Asbestos Type: %
Bir	nder/Filler, Paint	Cellulos	e 51%	None Detected ND
Layer 2 of 2 Description: Off-white cor	mpacted powdery ma	aterial		
Non-Fi	brous Materials:	Other Fibrous Mate	erials:%	Asbestos Type: %
Ca	alcareous binder	None Detecte	d ND	Chrysotile 2%
Lab ID: 18051872Client SampleLocation: WH-05Comments:Comments:Sample was dried prior to arLayer 1 of 1Description: White soft mail	nalysis.			
	brous Materials:	Other Fibrous Mate	erials.%	Asbestos Type: %
	Iking compound	None Detecte		None Detected ND
Lab ID: 18051873 Client Sample Location: WH-05 Comments: Sample was dried prior to an	e #: 17909-075			
Sampled by: Client			C	
Analyzed by: Welly Hsieh	Date: 0	05/25/2018	Jan 1997	M ACONS
Reviewed by: Nick Ly	Date:)5/29/2018	Nick I v	Technical Director

-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the re limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Environmental Management Inc. EMI		Batch #: 1809979.00
		Client Project #: 17909
Anchorage, AK 99503		Date Received: 5/25/2018
		Samples Received: 15
-		Samples Analyzed: 15
WH-05		Method: EPA/600/R-93/116
		& EPA/600/M4-82-020
Description: Gray rubbery material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Rubber/Binder	None Detected ND	None Detected ND
Description: White soft mastic		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Mastic/Binder, Calcareous particles	None Detected ND	None Detected ND
	al with paint	
	·	Asbestos Type: %
		None Detected ND
	206E Fireweed Lane, Ste. 201 Anchorage, AK 99503 Mr. Glenn Hashburgh WH-05 Description: Gray rubbery material Non-Fibrous Materials: Rubber/Binder Description: White soft mastic Non-Fibrous Materials: Mastic/Binder, Calcareous particles	206E Fireweed Lane, Ste. 201 Anchorage, AK 99503 Mr. Glenn Hashburgh WH-05 Description: Gray rubbery material Non-Fibrous Materials: Other Fibrous Materials:% Rubber/Binder None Detected ND Description: White soft mastic Non-Fibrous Materials: Other Fibrous Materials:% Mastic/Binder, Calcareous particles None Detected ND Description: White compacted powdery material with paint Non-Fibrous Materials: Other Fibrous Materials:%

Sampled by: Client		An fair	
Analyzed by: Welly Hsieh	Date: 05/25/2018		_
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director	
lote: If samples are not homogeneous, then subsample	es of the components were analyzed separate	ly. All bulk samples are analyzed using both	FPA

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

NVL Laboratories, Inc.

ASBESTOS LABORATORY SERVICES

4708 Aurora Ave N, Seattle, WA 98103 p 206.547.0100 | f 206.634.1936 | www.nvllabs.com



Company	Environmental Management Inc. EMI	NVL Batch Nu	umber 18	09979	.00
Address	206E Fireweed Lane, Ste. 201	TAT 1 Day AF		AH No	
	Anchorage, AK 99503	Rush TAT			
Project Manager	Mr. Glenn Hashburgh	Due Date	5/29/2018	Time	11:55 AM
Phone	(907) 272-9336	Email ghasburgh@emi-alaska.com			m
		Fax (907) 2	272-4159		

Project Location: WH-05

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples ____15

To	tal Number	of Samples15		Rush Samples
_	Lab ID	Sample ID	Description	A/R
1	18051859	17909-061		A
2	18051860	17909-062		A
3	18051861	17909-063		A
4	18051862	17909-064		A
5	18051863	17909-065		A
6	18051864	17909-066		A
7	18051865	17909-067		A
8	18051866	17909-068		A
9	18051867	17909-069		A
10	18051868	17909-070		A
11	18051869	17909-071		A
12	18051870	17909-072		A
13	18051871	17909-073		A
14	18051872	17909-074		A
15	18051873	17909-075		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Welly Hsieh		NVL	5/25/18	
Results Called by					
Faxed Emailed					
Special Instructions:					

Date: 5/25/2018 Time: 1:36 PM Entered By: Nicholas Dossegger

1809979



ASBESTOS CHAIN OF CUSTODY

Turn Around Time		
🗆 1 Hour	24 Hours	🖬 4 Days
2 Hours	2 Days	5 Days
4 Hours	3 Days	🗆 10 Days

Please call for TAT less than 24 Hours

Company Environmental Mana	gement, Inc. Project M	anager <u>Glenn Hasburg</u>	gh	
Address 206 E Fireweed Ln, S	Suite 201	Cell ()		
Anchorage, AK 99503	3	Email ghasburgh@er	ni-alaska.com	
Phone (907) 272-9336	-	Fax (907) 272		
Project Name/Number 17909	Project Location $WH - Q_{2}$			
	EM (NIOSH 7402) 🔲 TEM (A Level II Modified)	10)
X PLM (EPA 600/R-93-116) X E □ PLM Gravimetry (600/R-93-116) □ A	PA 400 Points (600/R-93-116)) L EPA 100 00/P 04/004) L Asbestor	0Points (600/R-93-11 s in Sediment (EPA 1	
 Asbestos Friable/Non-Friable (EPA 600) 				.500 Formas
Reporting Instructions			Acmi alaaka a	
🖬 Call 🤇 🔰	□ Fax (7	@emi-alaska.co	
Total Number of Samples	5	gnasburg	gh@emi-alaska.	com
Sample ID	Description			A/R
1 17999-061	black plastic	Sink		
2 17909-062	root materia			
3 17909-063	100. f. materia			
4 17909-664	100+ material			
5 (7907-066	roof matural	X K al		_
6 707-066	roit. puntration	Skirt		
7 7 909-06/	blue cove least	ad mostic		
8 17409-066	grey curlk	magit		
10 17989-870	block sight under	cout		
11 17907-071	AMER Caract and	mastil		
12 17909-07L	able in cuild	1 -1 - 80	nostic	
13 17909-073		ijout		
14 17909-074	sink, Caulk			
15 17909 - 075	che base me	mastic		
Print Name	Signature	Company	Date	Time
Sampled by Andy Coulson	Ange la	EMI	23 Mm 2016	10:00
Relinquish by Andy Coulson		EMI)	
Office Use Only				
Print Name	Signature	Company	Date / /	Time A
Received by Employ S	as	NVL	8/23/18	1165
Called by				
Faxed/Email by				
4708 Aurora Ave N, Sea	attle, WA 98103 p 206.547.010	00 f206.634.1936 ww	/w.nvllabs.com	

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809976.00

Client Project: 17909 Location: WH-06

Dear Mr. Hashburgh,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

NVL Laboratories, Inc. 4708 Aurora Ave N, Seattle, WA 98103 p 206.547.0100 | f 206.634.1936

page 1 of 8



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-06

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809976.00

Lab ID: 18051 Location: WH-0			
Layer 1 of 4	Description: Red fibrous material		
	Non-Fibrous Materials	: Other Fibrous Materials:%	Asbestos Type: %
	Binder/Fille	r Synthetic fibers 97%	None Detected ND
Layer 2 of 4	Description: Beige mastic		
	Non-Fibrous Materials	: Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binde	r Synthetic fibers 2%	None Detected ND
_ayer 3 of 4	Description: White woven fibrous materia	i i	
	Non-Fibrous Materials	: Other Fibrous Materials:%	Asbestos Type: %
	Binder/Fille	r Synthetic fibers 94%	None Detected ND
ayer 4 of 4	Description: Yellow mastic		
	Non-Fibrous Materials	: Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binde	r Cellulose 4%	None Detected ND
_ocation: WH-0 _ayer 1 of 1	Description: Clear adhesive		
	Non-Fibrous Materials	: Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/Binde	r Cellulose 3%	None Detected ND
		Synthetic fibers 2%	
.ab ID: 18051 _ocation: WH-0			
_ayer 1 of 1	Description: Black soft/loose material		
	Non-Fibrous Materials		Asbestos Type: %
	Binder/Fille	r None Detected ND	Chrysotile 2%
			t - 7
Sampled by	y: Client	\mathcal{C}	
		ate: 05/29/2018	Anter

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



	by Foldrized Ligi	it wilcloscopy			
Client: Environmental Manageme Address: 206E Fireweed Lane, Ste. Anchorage, AK 99503					Batch #: 1809976.00 Client Project #: 17909 Date Received: 5/25/2018
					Samples Received: 15
Attention: Mr. Glenn Hashburgh					Samples Analyzed: 15
Project Location: WH-06					Method: EPA/600/R-93/116
					& EPA/600/M4-82-020
Lab ID: 18051845 Client Sample Location: WH-06	e #: 17909-079				
Layer 1 of 1 Description: Brown sheet	vinyl				
Non-Fi	brous Materials:	Other Fibrou	s Materia	als:%	Asbestos Type: %
	Vinyl/Binder	None D	etected	ND	None Detected ND
Lab ID: 18051846Client SampleLocation: WH-06	e #: 17909-080				
Layer 1 of 1Description: White compare	acted powdery mater	ial with paint and	paper		
Non-Fi	brous Materials:	Other Fibrou	s Materia	als:%	Asbestos Type: %
Calcareous binder, Fine	e particles, Paint	Ce	ellulose	2%	Chrysotile 2%
Lab ID: 18051847Client SampleLocation: WH-06					
Layer 1 of 1Description: White soft m	aterial				
Non-Fi	brous Materials:	Other Fibrou	s Materia	als:%	Asbestos Type: %
	Binder/Filler	Ce	ellulose	2%	None Detected ND
Lab ID: 18051848Client SampleLocation: WH-06	e #: 17909-082				
Layer 1 of 1 Description: Brown soft m	naterial				
Non-Fi	brous Materials:	Other Fibrou	s Materia	als:%	Asbestos Type: %
	Binder/Filler	Ce	ellulose	5%	None Detected ND
Lab ID: 18051849Client SampleLocation: WH-06	e#: 17909-083				
Layer 1 of 1 Description: Off-white sof	t material				
Non-Fi	brous Materials:	Other Fibrou	s Materia	als:%	Asbestos Type: %
	Binder/Filler	None D	etected	ND	None Detected ND
Sampled by: Client				C	
Analyzed by: Lauren Wetzel	Date:0	5/29/2018		L	han h

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Address: 206E F	nmental Management Inc. E ireweed Lane, Ste. 201 age, AK 99503	ĨMI			Batch #: 1809976.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 15
Attention: Mr. Glenn Hashburgh Project Location: WH-06					Samples Received: 13 Samples Analyzed: 15 Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Lab ID: 18051850 Location: WH-06	Client Sample #: 179	909-084			
Layer 1 of 1 Descr	iption: Tan compressed fibr	ous material wi	th paint		
	Non-Fibrous M	laterials:	Other Fibrous Mater	ials:%	Asbestos Type: %
	Binder/Filler, Paint, St	yrofoam	Cellulose	27%	None Detected ND
	Glas	s debris	Glass fibers	24%	
Lab ID: 18051851	Client Sample #: 179	909-085			
Location: WH-06					
Layer 1 of 1 Descr	iption: Tan compressed fibr		•		
	Non-Fibrous M		Other Fibrous Mater		Asbestos Type: %
	Binder/Filler, Paint, St	yrofoam	Cellulose	25%	None Detected ND
	Glas	s debris	Glass fibers	25%	
Lab ID: 18051852 Location: WH-06	Client Sample #: 179	909-086			
Layer 1 of 1 Descr	iption: Off-white soft materia	al with paper			
	Non-Fibrous M	laterials:	Other Fibrous Mater	ials:%	Asbestos Type: %
	Bind	der/Filler	Cellulose	2%	None Detected ND
Lab ID: 18051853 Location: WH-06	Client Sample #: 179	909-087			
Layer 1 of 1 Descr	iption: White compacted po	wdery material	with paint		
	Non-Fibrous M	laterials:	Other Fibrous Mater	ials:%	Asbestos Type: %
Cal	careous binder, Fine particle	es, Paint	Cellulose	3%	Chrysotile 2%
Lab ID: 18051854 Location: WH-06	Client Sample #: 179	909-088			
Sampled by: Client				Ç	Inters
Analyzed by: Laure		Date: 05/2			Technical Directo
Reviewed by: Nick L	-	Date: 05/2		-	Technical Director
600/R-93/116 and 600/M4-82- 20%=10-30%, 50%=40-60%). limited by the methodology a	020 Methods with the following me This report relates only to the item	easurement uncerta s tested. If sample r. This report sha	ainties for the reported % A was not collected by NVL p all not be reproduced exce	sbestos (* personnel, ept in full,	ples are analyzed using both EPA 1%=0-3%, 5%=1-9%, 10%=5-15%, , then the accuracy of the results is , without written approval of NVL nt

page 4 of 8



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

	Dy I Oldrized Lig	gin microscopy	
Address: 20 Ar	nvironmental Management Inc. EMI 06E Fireweed Lane, Ste. 201 nchorage, AK 99503 r. Glenn Hashburgh H-06		Batch #: 1809976.00 Client Project #: 1790 Date Received: 5/25/201 Samples Received: 1 Samples Analyzed: 1 Method: EPA/600/R-93/11 & EPA/600/M4-82-02
Layer 1 of 1	Description: Yellow soft material		
	Non-Fibrous Materials: Binder/Filler	Other Fibrous Materials:% None Detected ND	Asbestos Type: % Chrysotile 5%
Lab ID: 18051859 Location: WH-06 Layer 1 of 1 [5 Client Sample #: 17909-089 Description: Yellow mastic with paint Non-Fibrous Materials: Mastic/Binder, Paint	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected NI
Lab ID: 18051856			
Layer 1 of 1 D	Description: Beige sandy textured material Non-Fibrous Materials: Sand, Binder/Filler	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected NI

 Sampled by: Client
 Analyzed by: Lauren Wetzel
 Date: 05/29/2018
 Image: 05/29/2018

 Reviewed by: Nick Ly
 Date: 05/29/2018
 Nick Ly, Technical Director

 Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

NVL Laboratories, Inc.

ASBESTOS LABORATORY SERVICES

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p 206.547.0100 | f 206.634.1936 | www.nvllabs.com



Rush Samples _____

NVL Batch Number 1809976.00	
TAT 1 Day AH No	
Rush TAT	
Due Date 5/29/2018 Time 11:55 AM	
Email ghasburgh@emi-alaska.com	
Fax (907) 272-4159	

Project Name/Number: 17909

Project Location: WH-06

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

15

Total Number of Samples

-				
_	Lab ID	Sample ID	Description	A/R
1	18051842	17909-076		Α
2	18051843	17909-077		A
3	18051844	17909-078		A
4	18051845	17909-079		A
5	18051846	17909-080		A
6	18051847	17909-081		Α
7	18051848	17909-082		Α
8	18051849	17909-083		A
9	18051850	17909-084		Α
10	18051851	17909-085		Α
11	18051852	17909-086		A
12	18051853	17909-087		A
13	18051854	17909-088		Α
14	18051855	17909-089		Α
15	18051856	17909-090		А

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Lauren Wetzel		NVL	5/29/18	
Results Called by					
Faxed Emailed					
Special Instructions:		•			

Date: 5/25/2018 Time: 1:22 PM Entered By: Emily Schubert

1809976



ASBESTOS CHAIN OF CUSTODY

Turn Around Time		
🗆 1 Hour	💢 24 Hours	4 Days
2 Hours	2 Days	🗅 5 Days
4 Hours	🖬 3 Days	10 Days
D		

Please call for TAT less than 24 Hours

Company	Environmental Mar	nagement, Inc.	Project Manager Glenn Ha	shurah	
Address	206 E Fireweed Ln, Suite 201		Cell ()		
Anchorage, AK 99503 Phone (907) 272-9336		Email ghasburgh@emi-alaska.com Fax ⁽ 907 ⁾ 272 ⁻ 4159			
Project Name/Nu	^{imber} 17909	Project Location	WH-06		
PCM Air (X PLM (EPA PLM Grav	NIOSH 7400)	TEM (NIOSH 7402) EPA 400 Points (600) Asbestos in Vermicu 00/R-93/116)		M (EPA Level II Modified) A 1000Points (600/R-93-1 pestos in Sediment (EPA)	.16) 1900 Points)
Reporting Inst	ructions				
🗆 Call 🔔	<u>) </u>	🗆 Fax 🌔)	Email acou	lson@emi-alaska.co	om
Total Num	per of Samples	5		burgh@emi-alaska.	
Sample		Description			A (D
1 1790	9-076		ad mastic		A/R
2 1790	9-077	mastic	nu masje		
3 796	2- 0,76	black 5	nk inderiout		
4 790	1-099	wooh putte			
5 790 6 7902	1-14	joint ce	mpand		
7 1790	-00	Caulk			
8 700	0902	stick-on	Sink live		
9 17909-	- 0 - 4	Cul K	certing tile		
10 7907-	015		eiling till		
11 17909-	- 066		anth		
12 17909-	09.7	joint a	mpaint		
13 17909-	-008	Courtk			
14 47909	-089	val panel	motio		
15 17909	-090	extirior	vall texture		
Ĩ	Print Name	Signature	Company	Date	Time
Sampled by	ndy Coulson	Min la	EMI	27 My 2918	11.40
	ndy Coulson	09	EMI		1.10
ffice Use Only					0.
Received by Analyzed by Called by	Print Name	Signature	Company NVL	Daty 6/25/18	Time 1155
Faxed/Email by					

1809976

Nicholas Dossegger

From: Sent: To: Subject: Attachments: Coulson, Andy <acoulson@emi-alaska.com> Friday, May 25, 2018 14:28 Nicholas Dossegger RE: Duplicate Sample 17909-089 for WH-06 20180523_113240 (should be 17909-088).jpg; 20180523_113510 (should remain 17909-089).jpg

Hi Nick,

Attached are two pictures, I included which is which in their file names. 20180523_113510 shows the sample that is correctly labeled as 17909-089, and 20180523_113240 shows the sample that should be labeled 17909-088.

Thank you, Andy

From: Nicholas Dossegger [mailto:Nick.d@nvllabs.com] Sent: Friday, May 25, 2018 1:13 PM To: Coulson, Andy Subject: Duplicate Sample 17909-089 for WH-06

Andy,

We at NVL labs, just finished entering the info for the samples that you submitted. However, we came across two samples labeled the same as "17909-089" for project location WH-06. The samples in question look the same so there is a chance it's a duplicate. The batch will be on hold for the time being. How would you like to proceed?

Thanks & Regards,

Nicholas Dossegger Client Service Specialist

<u>www.nvllabs.com</u> ph: 206.547.0100 | fax: 206.634.1936 toll free: 1.888.NVL.LABS (685.5227) 4708 Aurora Avenue North, Seattle, WA 98103

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Thanks & Regards,

Nicholas Dossegger

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809974.00

Client Project: 17909 Location: WH-07

Dear Mr. Hashburgh,

Enclosed please find test results for the 14 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

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page 1 of 8



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI	
Address: 206E Fireweed Lane, Ste. 201	
Anchorage, AK 99503	

Attention: Mr. Glenn Hashburgh

Project Location: WH-07

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 14 Samples Analyzed: 14 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809974.00

Lab ID: 1805 Location: WH			
Comments:	Sample was dried prior to analysis.		
Layer 1 of 1	Description: Black asphaltic fibrous material		
2	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Binder/Filler	Cellulose 58%	None Detected ND
Lab ID: 1805	1814 Client Sample #: 17909-092		
Location: WH	-07		
Comments:	Sample was dried prior to analysis.		
Layer 1 of 3	Description: White bumpy compacted powdery	material with paint	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Fine particles, Paint	Cellulose 2%	None Detected ND
Layer 2 of 3	Description: Off-white brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Gypsum/Binder, Binder/Filler	None Detected ND	None Detected ND
Layer 3 of 3	Description: Brown chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Glass fibers 4%	None Detected ND
Lab ID: 1805			
Location: WH			
Comments:	Sample was dried prior to analysis.		
Layer 1 of 1	Description: White chalky material with paper		• - I 0/
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Glass fibers 6%	None Detected ND

Sampled by: Client		Anton
Analyzed by: Lauren Wetzel	Date: 05/26/2018	Alle
Reviewed by: Nick Ly	Date: 05/29/2018	Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Environmental Management Inc. EMI
Address: 206E Fireweed Lane, Ste. 201
Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-07

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 14 Samples Analyzed: 14 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809974.00

Lab ID: 18051816 Client Sample #: 17909-094 Location: WH-07		
Comments: Sample was dried prior to analysis. Layer 1 of 2 Description: Gray soft material		
. ,		Achastas Turas 9/
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Cellulose 3%	None Detected ND
Layer 2 of 2 Description: Off-white sandy textured material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Sand, Binder/Filler	None Detected ND	None Detected ND
Lab ID: 18051817 Client Sample #: 17909-095		
Location: WH-07		
Comments: Sample was dried prior to analysis.		
Layer 1 of 2 Description: Off-white sandy textured materia	al	
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Sand, Binder/Filler	None Detected ND	None Detected ND
Layer 2 of 2 Description: Gray sandy/brittle material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Sand, Binder/Filler	None Detected ND	None Detected ND
Lab ID: 18051818 Client Sample #: 17909-096		
Location: WH-07		
Comments: Sample was dried prior to analysis.		
Layer 1 of 3 Description: Off-white sandy textured materia	al	
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Sand, Binder/Filler	None Detected ND	None Detected ND
Sampled by: Client		ters
	05/26/2018	
Reviewed by: Nick Ly Date:	05/29/2018 Nick Ly, Te	echnical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503 Attention: Mr. Glenn Hashburgh		Batch #: 1809974.00 Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 14 Samples Analyzed: 14
Project Location: WH-07		Method: EPA/600/R-93/116 & EPA/600/M4-82-020
Layer 2 of 3 Description: Gray sandy/brittle material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Sand, Binder/Filler	Glass fibers 9%	None Detected ND
Layer 3 of 3 Description: Off-white brittle material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Cellulose 2%	None Detected ND
Lab ID: 18051819 Location: WH-07		
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: White soft material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Sand	None Detected ND	None Detected NE
Lab ID: 18051820 Client Sample #: 17909-098 Location: WH-07		
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Off-white sandy textured material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Organic debris, Binder/Filler	Cellulose 2%	None Detected ND
Lab ID: 18051821 Client Sample #: 17909-099 Location: WH-07		
Comments: Sample was dried prior to analysis.		
Layer 1 of 1 Description: Pink soft material		
Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	None Detected ND	None Detected ND
Sampled by: Client	Ģ	man
	5/26/2018	Taskaisel Director
		Technical Director
Note: If samples are not homogeneous, then subsamples of the components v 600/R-93/116 and 600/M4-82-020 Methods with the following measurement unco 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sam limited by the methodology and acuity of the sample collector. This report Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP o	ertainties for the reported % Asbestos (ple was not collected by NVL personnel shall not be reproduced except in full	1%=0-3%, 5%=1-9%, 10%=5-15%, , then the accuracy of the results is , without written approval of NVL



Sampled by: Client Analyzed by: Lauren Wetzel	Date: 05/26	5/2018	Alle
			Antin
Binder	/Filler, Sand	None Detected N	None Detected NI
		Other Fibrous Materials:	
Layer 1 of 1 Description: White soft material	al		
Comments: Sample was dried prior to analys	sis.		
Lab ID: 18051825Client Sample #:Location: WH-07	17303-103		
	Binder/Filler	None Detected N	ND None Detected N
		Other Fibrous Materials:	
Layer 1 of 1 Description: Pink soft material			
Comments: Sample was dried prior to analys			
Location: WH-07			
Lab ID: 18051824 Client Sample #:		None Delected	
	/Filler, Sand		None Detected N
		Other Fibrous Materials:	% Asbestos Type: %
Layer 1 of 1 Description: White soft materi			
Comments: Sample was dried prior to analys			
Lab ID: 18051823 Client Sample #: Location: WH-07	17909-101		
Cei	neni/binder	None Delected	Crocidolite 10
	ment/Binder		ND Chrysotile 11%
Layer 1 of 1 Description: Gray cementitiou		Other Fibrous Materials:	% Asbestos Type: %
Comments: Sample was dried prior to analys			
Location: WH-07			
Lab ID: 18051822 Client Sample #:	17909-100		
			& EPA/600/M4-82-02
Project Location: WH-07			Method: EPA/600/R-93/1
Attention: Mr. Glenn Hashburgh			Samples Analyzed: 2
Anonorage, Arcosoco			Samples Received: 1
Anchorage, AK 99503			Client Project #: 1790 Date Received: 5/25/201
Address: 206E Fireweed Lane, Ste. 201			Olivert Designation 4700

600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-07

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 14 Samples Analyzed: 14 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 18051826 Location: WH-07	Client Sample #: 17909-10	4		
	was dried prior to analysis.			
•	ription: Gray sandy/brittle material			
Layer I of I Desc		o: Othor Fibroup N	Actorialo:0/	Asbestos Type: 9
	Non-Fibrous Material			None Detected N
	Sand, Binder/Filler, Styrofoa	m Cellu	lose 2%	None Detected N
Sampled by: Clien	t			
Analyzed by: Laure		Date: 05/26/2018		(mg)
Reviewed by: Nick		Date: 05/29/2018	Nick Ly, Te	chnical Director
600/R-93/116 and 600/M4-82 20%=10-30%, 50%=40-60%). imited by the methodology	nogeneous, then subsamples of the compo- 020 Methods with the following measurem. This report relates only to the items tested, and acuity of the sample collector. This be used to claim product endorsement by N	ent uncertainties for the reported If sample was not collected by report shall not be reproduced	I % Asbestos (1%= NVL personnel, the I except in full, wit	0-3%, 5%=1-9%, 10%=5-15% n the accuracy of the results i
	pag	e 6 of 8		

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Company Environmental Management Inc. EMI	NVL Batch Number 1809974.00
Address 206E Fireweed Lane, Ste. 201	TAT 1 Day AH No.
Anchorage, AK 99503	Rush TAT
Project Manager Mr. Glenn Hashburgh	Due Date 5/29/2018 Time 11:55 AM
Phone (907) 272-9336	Email ghasburgh@emi-alaska.com
	Fax (907) 272-4159

Project Name/Number: 17909

Project Location: WH-07

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples _____14

Total Number of Samples14		of Samples	14	Rush Samples
	Lab ID	Sample ID	Description	A/R
1	18051813	17909-091		A
2	18051814	17909-092		A
3	18051815	17909-093		A
4	18051816	17909-094		A
5	18051817	17909-095		A
6	18051818	17909-096		A
7	18051819	17909-097		A
8	18051820	17909-098		A
9	18051821	17909-099		A
10	18051822	17909-100		A
11	18051823	17909-101		A
12	18051824	17909-102		A
13	18051825	17909-103		A
14	18051826	17909-104		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Lauren Wetzel		NVL	5/26/18	
Results Called by					
Faxed Emailed					
Special					

Date: 5/25/2018 Time: 1:09 PM Entered By: Nicholas Dossegger

1809974



ASBESTOS CHAIN OF CUSTODY

Turn Around Time

🗆 1 Hour	24 Hours	🖬 4 Days
2 Hours	2 Days	🗆 5 Days
🗅 4 Hours	3 Days	🗆 10 Days

Please call for TAT less than 24 Hours

Company Environmental Mana Address 206 E Fireweed Ln, S		ger <u>Glenn Hasburg</u> _{Cell} ()	jh	
			ni alaska com	
Anchorage, AK 9950		nail ghasburgh@er		
Phone (907) 272-9336		Fax (907) 272 -	4159	
Project Name/Number 17909	Project Location WH-07			
		□ EPA 1000	A Level II Modified) 0Points (600/R-93-11 s in Sediment (EPA 19	
Reporting Instructions				
	G Fax ()		@emi-alaska.co	<u>im</u>
Total Number of Complete		ghasburg	gh@emi-alaska.c	com
Sample ID	Description			A/R
1 17909-091	Vapor busties			
2 7909-092	exterior un bourd	(
3 7909 - 09 3	exterior wall board	(a)		
4 (72) - 01 F		ivial		
5 17907-095	exterior wall text			
6 7909-096		xferior can't		
7 1994-89	Extensor white	carl		
8 79 09- 07 1	Offinol wall the	Cump		
9 7909-899		L aut []-		
10 1/709-100	cement pipe	an IK		
11 1907-101	exterior while a	an IK		
12 7909-101	exterior while a	an lik		
13 (79) (9-10) 14 (79) 0 - 104	exterior the a	in the		
14 / /909 - / 04 15			AC SAM	
Print Name	Signature	Company	Date	Time
	Malar 1.1	E MI	22 13 2019	12:55
Sampled by Andy Coulson	Und m	EMI	0-0 1 / 000	Ta
Relinquish by Andy Coulson		EMI		
Office Use Only Received by Analyzed by Called by	Signature		Date 25/18	Time ADB
Faxed/Email by				
4708 Aurora Ave N, Si	attle, WA 98103 p 206.547.0100	f 206.634.1936 ww	w.nvilabs.com	

May 29, 2018



Glenn Hashburgh Environmental Management Inc. EMI 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1809961.00

Client Project: 17909 Location: WH-08

Dear Mr. Hashburgh,

Enclosed please find test results for the 4 sample(s) submitted to our laboratory for analysis on 5/25/2018.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

1.888.NVL.LABS Enc.: Sample Results 1.888.(685.5227) www.nvllabs.com



Lab Code: 102063-0

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page 1 of 5

Client: Environmental Management Inc. EMI

Address: 206E Fireweed Lane, Ste. 201



Batch #: 1809961.00

Client Project #: 17909

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

	Mr. Glenn Hashburgh		
Draigat Lagation:			Samples Analyzed: 4
Project Location:	WH-08		Method: EPA/600/R-93/116
			& EPA/600/M4-82-020
Lab ID: 180517	•		
Location: WH-0			
	Sample was dried prior to analysis.		
Layer 1 of 1	Description: Gray fibrous material		A
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Glass debris	Glass fibers 88%	None Detected ND
Lab ID: 180517	Client Sample #: 17909-106		
Location: WH-08	8		
Comments: S	Sample was dried prior to analysis.		
Layer 1 of 2	Description: Brown/black fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Synthetic fibers 96%	None Detected ND
Layer 2 of 2	Description: White mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/Binder	Synthetic fibers 3%	None Detected ND
Lab ID: 180517 Location: WH-03	•		
	Sample was dried prior to analysis.	· · · · · ·	
Layer 1 of 2	Description: Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Styrofoam	Cellulose 2%	None Detected ND
Layer 2 of 2	Description: White fibrous material with blue s		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Glass fibers 92%	None Detected ND

Sampled by: Client Analyzed by: Lauren Wetzel Date: 05/26/2018 Reviewed by: Nick Ly Date: 05/29/2018 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Client: Environmental Management Inc. EMI Address: 206E Fireweed Lane, Ste. 201 Anchorage, AK 99503

Attention: Mr. Glenn Hashburgh

Project Location: WH-08

Client Project #: 17909 Date Received: 5/25/2018 Samples Received: 4 Samples Analyzed: 4 Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Batch #: 1809961.00

Lab ID: 18051744	Client Sample #: 17909-108		
Location: WH-08			
Comments: Sample	was dried prior to analysis.		
Layer 1 of 1 Descr	iption: Yellow mastic with gray crumbly	material	
	Non-Fibrous Materials:	Other Fibrous Materials:	% Asbestos Type: %
	Mastic/Binder, Binder/Filler	Cellulose 3	% None Detected ND
Sampled by: Client			
Analyzed by: Laure		05/26/2018	The man and the ma
Reviewed by: Nick L			Ly, Technical Director
600/R-93/116 and 600/M4-82- 20%=10-30%, 50%=40-60%). limited by the methodology a	ogeneous, then subsamples of the components 020 Methods with the following measurement un This report relates only to the items tested. If sa nd acuity of the sample collector. This repor e used to claim product endorsement by NVLAP	ncertainties for the reported % Asbest mple was not collected by NVL perso t shall not be reproduced except in	os (1%=0-3%, 5%=1-9%, 10%=5-15%, nnel, then the accuracy of the results is full, without written approval of NVL

NVL Laboratories, Inc. ASBESTOS LABORATORY SERVICES

4708 Aurora Ave N, Seattle, WA 98103

p 206.547.0100 | f 206.634.1936 | www.nvllabs.com



Rush Samples ____

Company Environmental Management Inc. EMI		NVL Batch Number 1809961.00			
Address	206E Fireweed Lane, Ste. 201	TAT 1 Day			AH No
	Anchorage, AK 99503	Rush TAT			
Project Manager	Mr. Glenn Hashburgh	Due Date 5	5/29/2018	Time	11:55 AM
Phone	(907) 272-9336	Email ghasbu	urgh@emi-a	laska.co	m
		Fax (907) 2	272-4159		

Project Name/Number: 17909

Project Location: WH-08

Subcategory PLM Bulk

Item Code ASB-02

EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples

_	Lab ID	Sample ID	Description	A/R
1	18051741	17909-105		Α
2	18051742	17909-106		Α
3	18051743	17909-107		Α
4	18051744	17909-108		Α



	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Airport Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	5/25/18	1155
Analyzed by	Lauren Wetzel		NVL	5/26/18	
Results Called by					
Faxed Emailed					
Special 1 cour Instructions:	rier charge			`	

Date: 5/25/2018 Time: 12:03 PM Entered By: Nicholas Dossegger

1809961



ASBESTOS CHAIN OF CUSTODY

Turn Around Time		
🗅 1 Hour	24 Hours	🗆 4 Days
2 Hours	🗖 2 Days	5 Days
4 Hours	3 Days	🗆 10 Days

Please call for TAT less than 24 Hours

PCM Air (NIOSH 7400) TEM (NIOSH 7402) TEM (AHERA) TEM (EPA Level II Modified) Q PLM (EPA 600/R-93-116) X EPA 400 Points (600/R-93-116) EPA 1000Points (600/R-93-116) EPA 1000Points (600/R-93-116) PLM Gravimetry (600/R-93-116) Asbestos in Vermiculite (EPA 600/R-04/004) Asbestos in Sediment (EPA 1900 Points) Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other Reporting Instructions	Company Environmental Man	agement, Inc. Projec	t Manager <u>Glenn Hasl</u>	ourgh	
Phone (907) 272-9336 Fax (907) 272 4159 Project Name/Number 17909 Project Location WH - 0b Project Name/Number 17909 TEM (NIOSH 7402) TEM (AIERA) EPA 1000Points (600/R-93-116) PLM Gravimetry (600/R-93-116) Second Color Points (600/R-93-116) EPA 1000Points (600/R-93-116) EPA 1000Points (600/R-93-116) Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other Other Color Points Color Points Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other Other Asbestos in Sediment (EPA 1900 Points) Asbestos Friable/Non-Friable (EPA 600/R-93/116) Other Other Are 1000 Points Sample ID aFax XEmail acoulson@emi-alaska.com 1 1/90 - 105 Mestraft on frill Are 1000 Points 2 793 - 106 Carent on frill Are 1000 Points 3 1/90 - 105 Mestraft on frill Are 1000 Points 4 1790 - 107 2 Kforior wall material Are 1000 Points 3 Company Date Time 3 And 5 Mather Sample D Time 4 <td< td=""><td>Address 206 E Fireweed Ln,</td><td>Suite 201</td><td>Cell ()</td><td>1<u>5</u>1</td><td></td></td<>	Address 206 E Fireweed Ln,	Suite 201	Cell ()	1 <u>5</u> 1	
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