



Regulated Building Materials Survey

**Kitsap County Public Works
417 South National Avenue
Bremerton, WA**



Performed for:

GeoEngineers Tacoma
1101 Fawcett Avenue – Suite 200
Tacoma, Washington 98402

Prepared By:

Melanie Sandefur
Project Administrator
PacRim

Sr. Review By:

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AHERA Accredited BI
PacRim

Date Finalized: 4/29/2022

PacRim#: 17384.02

Pacific Rim Environmental, Inc.

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QAQC Review By: *Allison Lewis*

Date Reviewed: 4/29/22

Section 1.0 Scope of Work

Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

On April 21st, 2022, Kyle Lewis and Tyler Sadler, an AHERA Accredited Building Inspector and a DOC certified Lead Risk Assessor for Pacific Rim Environmental, Inc. (PacRim), performed a regulated building materials survey at the subject property described below.

Site: 417 South National Avenue – Bremerton, WA: 2,000 SF three-story residential building



Limitations: Structure scheduled for demolition, no report or field limitations noted by field tech

Field inspection, data collection, and report generation were performed according to the following **Scope of Work:**

Asbestos-Containing Materials (ACM)

1. Bulk sampling and analysis of suspect asbestos-containing materials (ACM).
2. Analysis of suspect ACM by a NVLAP accredited laboratory.
3. Quantity estimates of ACM.
4. Written report including recommendations based on the technician's observations, abatement (removal) cost estimates (under separate cover), sample descriptions, and sample location.
5. Statement of Compliance with W.A.C. 296-62-07721 Sign-off form.

Lead-Based Paints (LBP)

6. Perform limited screening of suspect lead-based paints.
7. Written report including: Sample descriptions, conditions, locations, analytical results, and recommendations.

Section 2.0 Survey Definitions and Purpose

Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

DEFINITIONS:

Surfacing: Materials; which are either spray-applied or troweled-on for acoustical, decorative or fireproofing purposes.

Thermal System Insulation (TSI): Insulating materials used to inhibit heat transfer or to prevent condensation on pipes, boilers, tanks, ducts and various other components.

Miscellaneous: All other materials not included in the above categories such as floor tile, ceiling tile, roofing felt, cementitious materials, wallboard systems and products such as caulking, mastics and putties.

Homogeneous Material: For the purposes of this report; **Homogeneous Material** is defined as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture and application. When materials are determined to be Homogeneous by the on-site AHERA Accredited Building Inspector; although laboratory results may vary, in accordance with AHERA regulations, if any of the samples in a Homogeneous Material Sample Set are found to contain asbestos, then all materials in the Sample Set must be considered to contain asbestos.

HM#: Homogeneous Material Number indicates which Homogeneous Material Sample Set that the collected sample belongs to.

Homogeneous Area: For the purposes of this report; **Homogeneous Area** is defined as a summary of all areas where a Homogeneous Material was identified within the Project Scope.

PURPOSE:

The survey was intended to identify possible asbestos-containing materials (ACM) on the interior and exterior of the building. This inspection covered only those areas, which were exposed and/or physically accessible to the inspector. ***Materials uncovered during the course of demolition, renovation, or maintenance activities that are not identified in this inspection report must be presumed to contain asbestos until PLM analysis proves that this material is not asbestos-containing.***

This survey is not intended for, nor should be used as a design specification. The Asbestos in Schools Hazard Amendment and Reauthorization Act (ASHARA), effective November 20, 1990, expanded accreditation requirements to apply to persons who work with asbestos in public and commercial buildings as well as schools. Specifically, ASHARA expanded the Toxic Substances Control Act (TSCA) Section 206 (a) (1) and (3) to require accreditation for any person who designs or conducts a response action with respect to friable ACM in a building. TSCA Section 207 provides for civil penalties of \$5,000 for each day of a violation for not employing accredited individuals to design and conduct response actions. Sampling of suspect asbestos-containing materials was conducted as prescribed in 40 CFR 763.86.

Section 3.0 Homogeneous Materials Sampling and Results Summary

Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

Bulk samples collected were submitted for sample analysis in accordance with method EPA-600/R-93/116: “Method for the Determination of Asbestos in Bulk Building Materials”. Analyses were performed at EMSL Analytical, Inc., a NVLAP Accredited Laboratory (Lab Code 200613-0). Materials are positive for asbestos if they are found to contain greater than one percent (1%) or 1% asbestos. Materials that are less than one percent (<1%) asbestos, although not considered positive for asbestos, when removed must follow applicable Washington State regulations.

A total of thirty-two (32) bulk samples were collected by PacRim and submitted for PLM laboratory analysis.

Limitations: Structure scheduled for demolition, no report or field limitations noted by field tech

None of the sampled materials were found to contain ACM within the project limitations.

Asbestos Sample Summary by Homogenous Number:

HM #	AHERA Category	Sample Description	Additional Locations	Sample Location	Asbestos Type / %	Sample #
1	Misc.	Gas line fitting mastic	N/A	Basement Room 1	None Detected	417-01
2	Misc.	Grey Duct sealant	N/A	Basement room 1	None Detected	417-02
3	Misc.	Window Putty	N/A	Room 2 south wall	None Detected	417-03
4	Misc.	Electrical wire wrap	N/A	Basement room 1	None Detected	417-04
5	Misc.	Gypsum Wall Board/Tape/Joint Compound	N/A	Basement stair well wall	None Detected (All Layers)	417-05
6	Misc.	Vapor barrier	2 nd floor	Main floor under hardwood flooring	None Detected	417-06
				Main floor Room 3 floor	None Detected	417-11
				2nd floor Room 1	None Detected	417-18
7	Surfacing	Hard Plaster Walls and Ceilings	N/A	Kitchen 1 wall	None Detected (Both Layers)	417-07
				Main floor Room 2 ceiling	None Detected (All Layers)	417-08
				Main floor Room 3 wall	None Detected (Both Layers)	417-10
				Main floor Room 1 ceiling	None Detected (Both Layers)	417-12
				2nd floor Room 1 wall	None Detected (Both Layers)	417-20
				Kitchen 2	None Detected (All Layers)	417-22
				2nd floor Room 3	None Detected (Both Layers)	417-25
8	Misc.	Drywall as Plaster backing	N/A	Main floor Room 2 ceiling	None Detected (Both Layers)	417-09
				2nd floor Room 1	None Detected	417-21
				2nd floor Room 2	None Detected	417-26

Section 3.0 Homogeneous Materials Asbestos Sample Summary
Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

HM #	AHERA Category	Sample Description	Additional Locations	Sample Location	Asbestos Type / %	Sample #
9	Misc.	SVF type 1 kitchen 1	N/A	Kitchen floor	None Detected (All Layers)	417-13
10	Misc.	SVF type 2 bathroom	N/A	Main floor bathroom	None Detected (Both Layers)	417-14
11	Misc.	Bathroom fixture caulk	N/A	Main floor bathroom	None Detected	417-16
12	Misc.	Formica counter mastic	N/A	Kitchen 1	None Detected (Both Layers)	417-15
13	Surfacing	Texture on GWB	N/A	Front entrance room main floor	None Detected (Both Layers)	417-17
				Front entrance area	None Detected (Both Layers)	417-27
				Front entrance area	None Detected (Both Layers)	417-28
14	Misc.	Window Putty	N/A	2nd floor Room 1	None Detected	417-19
				Kitchen 2	None Detected	417-23
15	Misc.	SVF type 3	N/A	2nd floor bathroom	None Detected (All Layers)	417-24
16	Misc.	3-tab Roofing and Vapor barrier	N/A	Roof north side	None Detected (Both Layers)	417-29
				roof south side	None Detected (Both Layers)	417-30
17	Misc.	Siding Vapor barrier	N/A	Exterior West wall	None Detected	417-31
				Exterior South wall	None Detected	417-32

Materials uncovered during the course of demolition, renovation, or maintenance activities that are not identified in this inspection report must be presumed to contain asbestos until PLM analysis proves that this material is not asbestos-containing.

Section 4.0 Statement of Compliance
Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

In accordance with W.A.C. 296-62-07721 and PSCAA Regulation III, Article 4, Pacific Rim Environmental, Inc. performed a regulated building material survey of the subject structure located at 417 South National Avenue in Bremerton, Washington. Should employees or contract personnel encounter any suspect asbestos-containing materials (ACM) it is their responsibility to:

1. Contact a representative of the owner.
2. Consult the inspection report to determine whether or not the suspect material contains asbestos.
3. If the suspect material does not appear in the inspection report, then that material was not sampled and must be presumed to contain asbestos until proven otherwise by sampling and PLM analysis.
4. Ensure that all employees and contractors, who may disturb suspect materials, are informed and advised of the location and type of materials that contain asbestos.

Limitations: Structure scheduled for demolition, no report or field limitations noted by field tech

None of the sampled materials were found to contain ACM within the project limitations.

I Hereby Attest:

The inspection report has been made available to me. I will inform all subcontractors of the location and types of materials containing asbestos. I am authorized to sign on behalf of my company.

Contractor:	_____	Owner's Rep:	_____
Signature:	_____	Signature:	_____
Print Name:	_____	Print Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

Section 5.0 Lead-Based Paint Screening Summary

Kitsap County Public Works | 417 South National Avenue – Bremerton, WA

The inspection and testing performed on the interior and exterior painted surfaces of the subject Property **did identify** lead-based paint concentrations at or above the EPA/HUD standard of 1.0 mg/cm² on the following components:

Test #	Substrate	Component / Side	Description / Location	Color	Pbc mg/cm ²
161	Wood	Window trim	Room 3, 2 nd floor	White	2.2
163	Wood	Window frame	Kitchen 2	White	3.8
165	Wood	Window stool	Kitchen 2 exterior	White	1.8
169	Concrete	Foundation	Exterior East wall	Grey	1.0
171	Wood	Door Frame	Exterior front door	White	6.6
172	Wood	Awning	Exterior above front door	White	3.3

The XRF sample results are provided in Appendix D.

The Performance Characteristic Sheet for the Niton XLp 300, September 24, 2004, is provided in Appendix E.

General Information:

It is important to keep in mind that although the EPA/HUD standard uses a criterion of 5,000 parts per million dry weight or 1.00 milligrams per square centimeter (1.00 mg/cm²) for lead-based paint, there still may be lead present in those results reported as negative. In the event that lead is present, Federal OSHA and Washington State Department of Labor & Industries regulations will still apply, since neither agency has established a concentration of lead in paint below which the lead in construction standards do not apply. Workers wearing respiratory protection and who have received proper training in the handling of lead contaminated materials must be used for any construction activities (including manual scraping, manual/power sanding, heat gun applications, general cleanup, and demolition) that affect a paint film containing lead.

If the building is to be renovated or remodeled there are procedures regarding the disturbance or removal of the lead-based paints that **can** be followed (i.e. initial air monitoring, clearance sampling, etc.). These procedures can be found in *HUD-0006700 Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. It is not required that these regulations/procedures be utilized on this project, however because these are the only available guidelines for the removal of lead-based paints PRE feels it necessary to inform you of these guidelines.

The current state rules or regulations that currently apply to lead-based paints are WAC 296-155-17603 Scope* and WAC 296-155-17607 Permissible Exposure Limit**. The WAC code states that if lead is detectable in the workplace in any quantity, initial air monitoring must be performed on employees doing demolition, renovation or remodeling work in areas found to have materials containing lead. Also, workers performing lead removal must be trained in accordance with WAC 296-155-17625.

Appendix A: Asbestos Inspection Summary

Inspection Summary

Project Information	
Job Number	17384.02
Project Name	Kitsap County Public Works - 417 S. National Ave.
Project Address:	417 South National Avenue Bremerton, WA
Client:	GeoEngineers Tacoma
Date of Survey:	21-Apr-2022
PacRim Technician:	Kyle Lewis
Limitations:	None
Exterior Photo:	
Turnaround Requested:	48 Hour

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-01	Homogenous Material Number	1
Material Description	Gas line fitting mastic		
Homogenous Mtl Area	N/A		
Sample Location	Basement Room 1		
Quantity	45	Unit of Measure	Each
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-02	Homogenous Material Number	2
Material Description	Grey Duct sealant		
Homogenous Mtl Area	N/A		
Sample Location	Basement room 1		
Quantity	30	Unit of Measure	Lineal Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-03	Homogenous Material Number	3
Material Description	Window Putty		
Homogenous Mtl Area	N/A		
Sample Location	Room 2 south wall		
Quantity	8	Unit of Measure	Each
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-04	Homogenous Material Number	4
Material Description	Electrical wire wrap		
Homogenous Mtl Area	N/A		
Sample Location	Basement room 1		
Quantity	500	Unit of Measure	Lineal Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-05	Homogenous Material Number	5
Material Description	Gypsum Wall Board/Tape/Joint Compound		
Homogenous Mtl Area	N/A		
Sample Location	Basement stair well wall		
Quantity	250	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (All Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-06	Homogenous Material Number	6
Material Description	Vapor barrier		
Homogenous Mtl Area	Also on 2nd floor		
Sample Location	Main floor under hardwood flooring		
Quantity	2000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-07	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	Kitchen 1 wall		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-08	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	Main floor Room 2 ceiling		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (All Layers)		
Sample Photo			

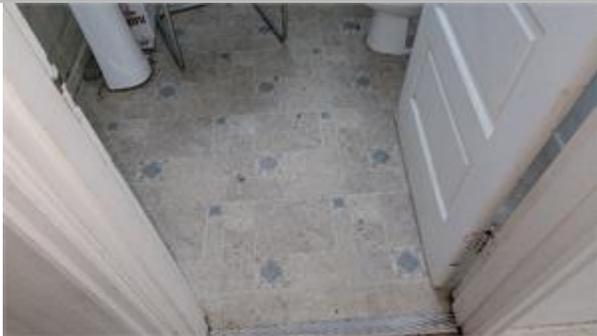
Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-09	Homogenous Material Number	8
Material Description	Drywall as Plaster backing		
Homogenous Mtl Area	N/A		
Sample Location	Main floor Room 2 ceiling		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-10	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	Main floor Room 3 wall		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-11	Homogenous Material Number	6
Material Description	Vapor barrier for hardwood floor		
Homogenous Mtl Area	N/A		
Sample Location	Main floor Room 3 floor		
Quantity	2000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-12	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	Main floor Room 1 ceiling		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-13	Homogenous Material Number	9
Material Description	SVF type 1 kitchen 1		
Homogenous Mtl Area	N/A		
Sample Location	Kitchen floor		
Quantity	80	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (All Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-14	Homogenous Material Number	10
Material Description	SVF type 2 bathroom		
Homogenous Mtl Area	N/A		
Sample Location	Main floor bathroom		
Quantity	30	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-15	Homogenous Material Number	12
Material Description	Formica counter mastic		
Homogenous Mtl Area	N/A		
Sample Location	Kitchen 1		
Quantity	20	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-16	Homogenous Material Number	11
Material Description	Bathroom fixture caulk		
Homogenous Mtl Area	N/A		
Sample Location	Main floor bathroom		
Quantity	4	Unit of Measure	Lineal Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample			Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.			
Sample Type	Physical Sample	AHERA Category	Surfacing	
Sample Number	417-17	Homogenous Material Number	13	
Material Description	Texture on GWB			
Homogenous Mtl Area	N/A			
Sample Location	Front entrance room main floor			
Quantity	300	Unit of Measure	Square Feet	
Asbestos Type/%	None Detected (Both Layers)			
Sample Photo				

Sample			Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.			
Sample Type	Physical Sample	AHERA Category	Miscellaneous	
Sample Number	417-18	Homogenous Material Number	6	
Material Description	Vapor barrier			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor Room 1			
Quantity	2000	Unit of Measure	Square Feet	
Asbestos Type/%	None Detected			
Sample Photo				

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-19	Homogenous Material Number	14
Material Description	Window Putty		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor Room 1		
Quantity	20	Unit of Measure	Each
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-20	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor Room 1 wall		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-21	Homogenous Material Number	8
Material Description	Sheetrock (GWB) as Plaster backing		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor Room 1		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-22	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	Kitchen 2		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (All Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-23	Homogenous Material Number	14
Material Description	Window Putty		
Homogenous Mtl Area	N/A		
Sample Location	Kitchen 2		
Quantity	20	Unit of Measure	Each
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-24	Homogenous Material Number	15
Material Description	SVF type 3		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor bathroom		
Quantity	40	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (All Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-25	Homogenous Material Number	7
Material Description	Hard Plaster Walls and Ceilings		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor Room 3		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-26	Homogenous Material Number	8
Material Description	GWB as Plaster backing		
Homogenous Mtl Area	N/A		
Sample Location	2nd floor Room 2		
Quantity	4000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-27	Homogenous Material Number	13
Material Description	Texture on GWB		
Homogenous Mtl Area	N/A		
Sample Location	Front entrance area		
Quantity	300	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Surfacing
Sample Number	417-28	Homogenous Material Number	13
Material Description	Texture on GWB		
Homogenous Mtl Area	N/A		
Sample Location	Front entrance area		
Quantity	300	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-29	Homogenous Material Number	16
Material Description	3-tab Roofing and Vapor barrier		
Homogenous Mtl Area	N/A		
Sample Location	Roof north side		
Quantity	1500	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-30	Homogenous Material Number	16
Material Description	3-tab Roofing with Vapor barrier		
Homogenous Mtl Area	N/A		
Sample Location	roof south side		
Quantity	1500	Unit of Measure	Square Feet
Asbestos Type/%	None Detected (Both Layers)		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-31	Homogenous Material Number	17
Material Description	Siding Vapor barrier		
Homogenous Mtl Area	N/A		
Sample Location	Exterior West wall		
Quantity	2000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Sample		Sample Date	21-Apr-2022
Project Name	Kitsap County Public Works - 417 S. National Ave.		
Sample Type	Physical Sample	AHERA Category	Miscellaneous
Sample Number	417-32	Homogenous Material Number	17
Material Description	Siding Vapor barrier		
Homogenous Mtl Area	N/A		
Sample Location	Exterior South wall		
Quantity	2000	Unit of Measure	Square Feet
Asbestos Type/%	None Detected		
Sample Photo			

Appendix B: Bulk Sample Analysis Report



EMSL Analytical, Inc.

5900 4th Avenue S, Suite 100, 1st Floor Seattle, WA 98108

Tel/Fax: (206) 269-6310 / (206) 900-8789

<http://www.emsl.com> / seattlelab@emsl.com

EMSL Order: 512201104

Customer ID: PACR50

Customer PO:

Project ID:

Attention: Front Desk
Pacific Rim Environmental, Inc.
6510 Southcenter Blvd., Suite 40
Seattle, WA 98188

Phone: (206) 244-8965

Fax: (206) 244-9096

Received Date: 04/21/2022 2:57 PM

Analysis Date: 04/27/2022 - 04/28/2022

Collected Date:

Project: 17384.02 - 417 Bldg

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
417-01 <small>512201104-0001</small>	Basement room 1 - Gas line fitting mastic	Gray Fibrous Homogeneous	2% Cellulose 4% Wollastonite	94% Non-fibrous (Other)	None Detected
417-02 <small>512201104-0002</small>	Basement room 1 - Gray duct sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-03 <small>512201104-0003</small>	Room 2 south wall - window putty	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-04 <small>512201104-0004</small>	Basement room 1 - Electrical wire wrap	Brown/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
417-05-Joint Compound <small>512201104-0005</small>	Basement stair well wall - Gypsum wallboard/ tape/joint compound	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
417-05-Tape <small>512201104-0005A</small>	Basement stair well wall - Gypsum wallboard/ tape/joint compound	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
417-05-Gypsum Wallboard <small>512201104-0005B</small>	Basement stair well wall - Gypsum wallboard/ tape/joint compound	Brown/White Fibrous Homogeneous	20% Cellulose <1% Glass	60% Gypsum 20% Non-fibrous (Other)	None Detected
417-06 <small>512201104-0006</small>	Main floor under hardwood flooring - Vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
417-07-Skim Coat <small>512201104-0007</small>	Kitchen 1 wall - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	3% Wollastonite	15% Quartz 82% Non-fibrous (Other)	None Detected
417-07-Plaster <small>512201104-0007A</small>	Kitchen 1 wall - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-08-Skim Coat <small>512201104-0008</small>	Main floor room 2 ceiling - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	3% Wollastonite	15% Quartz 82% Non-fibrous (Other)	None Detected
417-08-Plaster <small>512201104-0008A</small>	Main floor room 2 ceiling - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-08-Gypsum Board <small>512201104-0008B</small>	Main floor room 2 ceiling - Hard plaster walls and ceilings	Brown/White Fibrous Homogeneous	25% Cellulose	60% Gypsum 15% Non-fibrous (Other)	None Detected
417-09-Plaster <small>512201104-0009</small>	Main floor room 2 ceiling - Drywall as plaster backing	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-09-Gypsum Board <small>512201104-0009A</small>	Main floor room 2 ceiling - Drywall as plaster backing	Brown/White Fibrous Homogeneous	25% Cellulose	60% Gypsum 15% Non-fibrous (Other)	None Detected

Initial report from: 04/28/2022 12:09:44



EMSL Analytical, Inc.

5900 4th Avenue S, Suite 100, 1st Floor Seattle, WA 98108

Tel/Fax: (206) 269-6310 / (206) 900-8789

<http://www.emsl.com> / seattlelab@emsl.com

EMSL Order: 512201104

Customer ID: PACR50

Customer PO:

Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
417-10-Skim Coat 512201104-0010	Main floor room 3 wall - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	2% Wollastonite	15% Quartz 83% Non-fibrous (Other)	None Detected
417-10-Plaster 512201104-0010A	Main floor room 3 wall - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-11 512201104-0011	Main floor room 3 floor - Vapor barrier for hardwood floor	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
417-12-Skim Coat 512201104-0012	Main floor room 1 ceiling - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	3% Wollastonite	15% Quartz 82% Non-fibrous (Other)	None Detected
417-12-Plaster 512201104-0012A	Main floor room 1 ceiling - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-13-Vinyl Sheet Flooring 512201104-0013	Kitchen floor - SVF type 1 kitchen 1	Red/Beige Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
417-13-Mastic 512201104-0013A	Kitchen floor - SVF type 1 kitchen 1	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-13-Vinyl Floor Tile 512201104-0013B	Kitchen floor - SVF type 1 kitchen 1	Green Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
417-14-Vinyl Sheet Flooring 512201104-0014	Main floor bathroom - SVF type 2 bathroom	Beige Fibrous Homogeneous	30% Cellulose 3% Glass	67% Non-fibrous (Other)	None Detected
417-14-Mastic 512201104-0014A	Main floor bathroom - SVF type 2 bathroom	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-15-Laminate 512201104-0015	Kitchen 1 - Formica counter mastic	White Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
417-15-Mastic 512201104-0015A	Kitchen 1 - Formica counter mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-16 512201104-0016	Main floor bathroom - Bathroom fixture caulk	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-17-Texture 512201104-0017	Front entrance room main floor - Texture on GWB	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
417-17-Gypsum Wallboard 512201104-0017A	Front entrance room main floor - Texture on GWB	Brown/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
417-18 512201104-0018	2nd floor room 1 - Vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
417-19 512201104-0019	2nd floor room 1 - Window putty	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-20-Skim Coat 512201104-0020	2nd floor room 1 wall - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	5% Wollastonite	10% Quartz 85% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
417-20-Plaster <small>512201104-0020A</small>	2nd floor room 1 wall - Hard plaster walls and ceilings	Gray Non-Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-21 <small>512201104-0021</small>	2nd floor room 1 - Sheetrock (GWB) as plaster backing	Brown/White Fibrous Homogeneous	30% Cellulose	50% Gypsum 20% Non-fibrous (Other)	None Detected
417-22-Skim Coat <small>512201104-0022</small>	Kitchen 2 - Hard plaster walls and ceilings	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
417-22-Plaster <small>512201104-0022A</small>	Kitchen 2 - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-22-Gypsum Wallboard <small>512201104-0022B</small>	Kitchen 2 - Hard plaster walls and ceilings	Brown/White Fibrous Homogeneous	30% Cellulose	50% Gypsum 20% Non-fibrous (Other)	None Detected
417-23 <small>512201104-0023</small>	Kitchen 2 - Window putty	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-24-Vinyl Sheet Flooring <small>512201104-0024</small>	2nd floor bathroom - SVF type 3	White Fibrous Homogeneous	30% Cellulose 3% Glass	67% Non-fibrous (Other)	None Detected
417-24-Mastic 1 <small>512201104-0024A</small>	2nd floor bathroom - SVF type 3	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-24-Mastic 2 <small>512201104-0024B</small>	2nd floor bathroom - SVF type 3	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
417-25-Skim Coat <small>512201104-0025</small>	2nd floor room 3 - Hard plaster walls and ceilings	Beige Non-Fibrous Homogeneous	7% Wollastonite	10% Quartz 83% Non-fibrous (Other)	None Detected
417-25-Plaster <small>512201104-0025A</small>	2nd floor room 3 - Hard plaster walls and ceilings	Gray Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
417-26 <small>512201104-0026</small>	2nd floor room 2 - GWB as plaster backing	Brown/White Fibrous Homogeneous	30% Cellulose	50% Gypsum 20% Non-fibrous (Other)	None Detected
417-27-Texture <small>512201104-0027</small>	Front entrance area - Texture on GWB	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
417-27-Gypsum Wallboard <small>512201104-0027A</small>	Front entrance area - Texture on GWB	Brown/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
417-28-Texture <small>512201104-0028</small>	Front entrance area - Texture on GWB	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
417-28-Gypsum Wallboard <small>512201104-0028A</small>	Front entrance area - Texture on GWB	Brown/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
417-29-Shingle <small>512201104-0029</small>	Roof north side - 3-tab roofing and vapor barrier	Black/Green Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
417-29-Tar Paper <small>512201104-0029A</small>	Roof north side - 3-tab roofing and vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
417-30-Shingle <i>512201104-0030</i>	Roof south side - 3-tab roofing and vapor barrier	Black/Green Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
417-30-Tar Paper <i>512201104-0030A</i>	Roof south side - 3-tab roofing and vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
417-31 <i>512201104-0031</i>	Exterior west wall - Siding vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
417-32 <i>512201104-0032</i>	Exterior south wall - Siding vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected

Analyst(s)

Claudiu Nistor (55)

Ehrin Stephens, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA NVLAP Lab Code 200613, CA 2733, WA C1025

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Appendix C: **Sample Location Drawing**

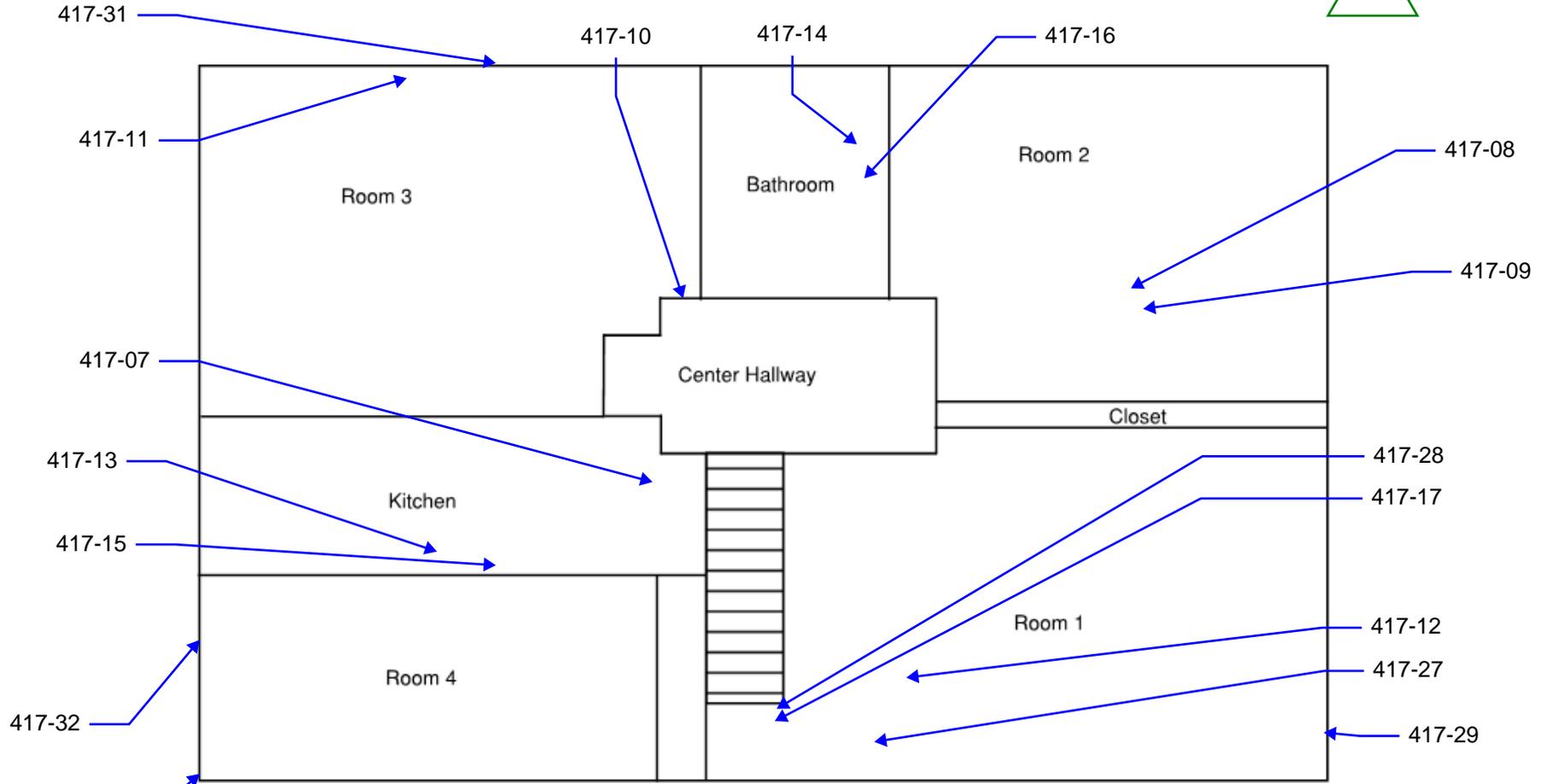
Site Sketch

Samples positive for asbestos appear in squares EX: # →

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: # →

Samples containing less than one percent asbestos appear in circles EX: (#) →

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: V-# →



Main Floor

<p>GeoEngineers Tacoma Kitsap County Public Works 417 S. National Avenue Bremerton, WA</p>	<p><i>Pacific Rim Environmental, Inc.</i> 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com</p>	<p>Project # : 17384.02 Drawing # : 01 of 03 Sampling Date: 4/21/2022 Drawing by : M.Sandefur Drawing Not to Scale</p>
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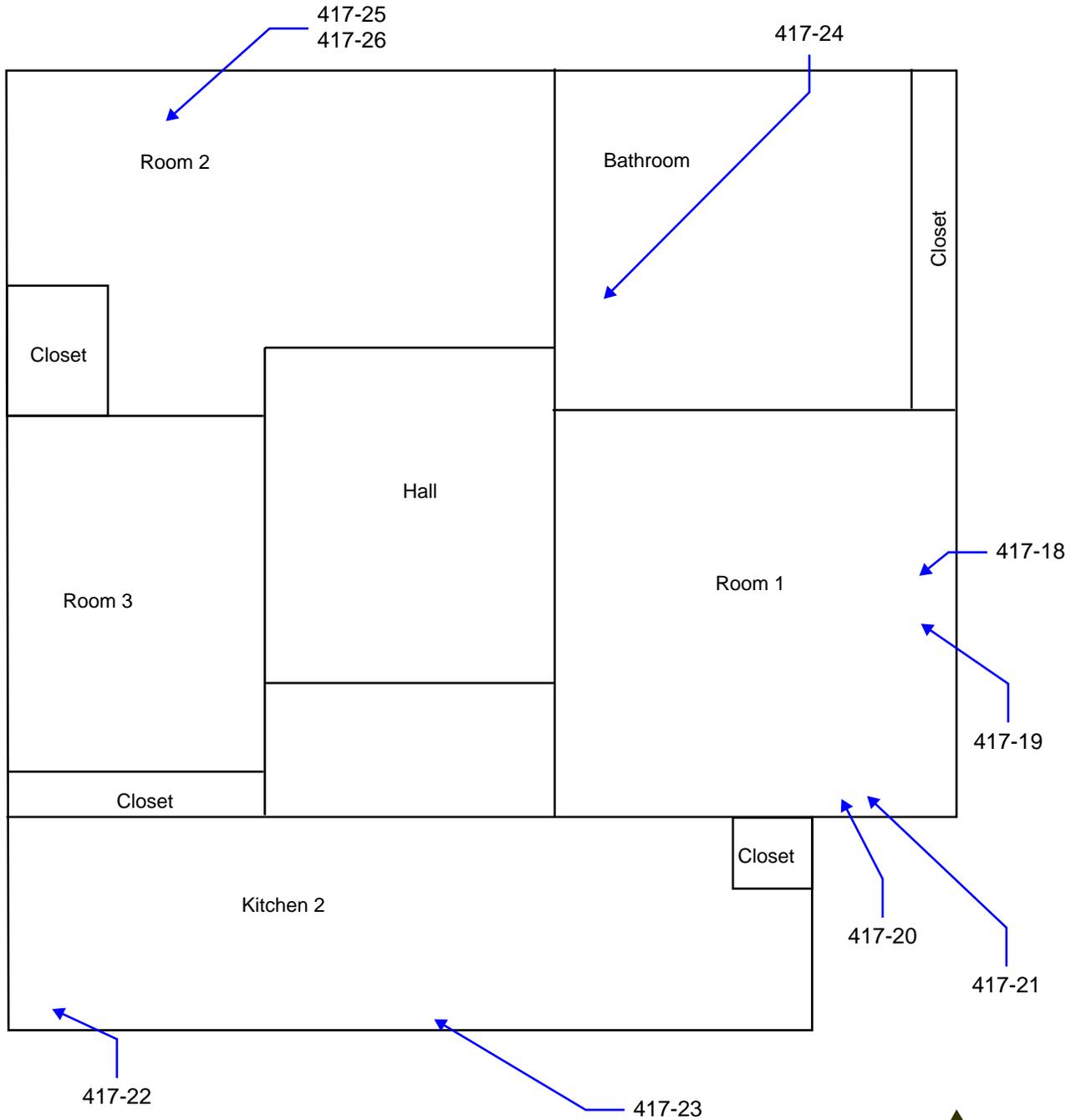
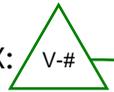
Site Sketch

Samples positive for Asbestos appear in squares EX: # →

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: # →

Samples containing less than one percent asbestos appear in circles EX: # →

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: v-# →



2nd Floor



<p>GeoEngineers Tacoma Kitsap County Public Works 417 S. National Avenue Bremerton, WA</p>	<p><i>Pacific Rim Environmental, Inc.</i> 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com</p>	<p>Project # : 17384.02 Drawing # : 02 of 03 Sampling Date: 4/21/2022 Drawing by : M.Sandefur Drawing Not to Scale</p>
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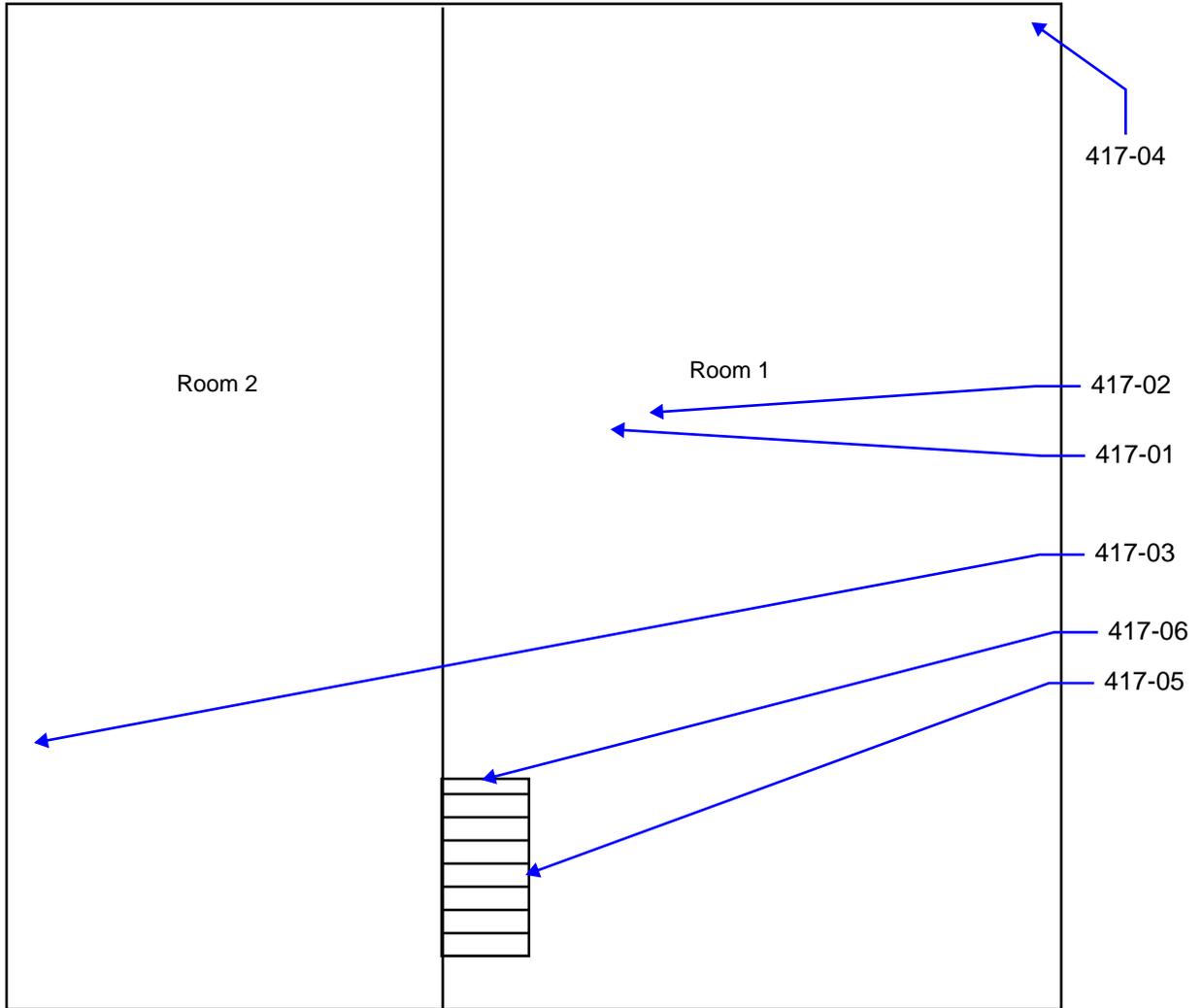
Site Sketch

Samples positive for Asbestos appear in squares EX: # →

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: # →

Samples containing less than one percent asbestos appear in circles EX: # →

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: v-# →



Basement



<p>GeoEngineers Tacoma Kitsap County Public Works 417 S. National Avenue Bremerton, WA</p>	<p><u>Pacific Rim Environmental, Inc.</u> 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com</p>	<p>Project # : 17384.02 Drawing # : 03 of 03 Sampling Date: 4/21/2022 Drawing by : M.Sandefur Drawing Not to Scale</p>
--	--	--

Appendix D: **Lead-Based Paint (XRF) Data Sheets**



Pacific Rim Environmental Inc.
 6510 Southcenter Blvd. Suite 40
 Seattle, WA 98188
 (206)244-8965 www.PacRimEnv.com

Lead-Based Paint (XRF) Data Sheet

Client:	GeoEngineers Tacoma	XRF Serial #:	80662
Project:	Kitsap County Public Works - 417 S. National Ave.	Inspection Date:	21-Apr-2022
Project Address:	417 South National Avenue Bremerton, WA	Inspection By:	Kyle Lewis
Reviewed by:	Melanie Sandefur	Pacrim Job#	17384.02

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm ²
139	Yes	SRM 2573				Positive	1.1
140	Yes	SRM 2573				Positive	1.3
141	Yes	SRM 2573				Negative	0.8
142	No	Wood	Cabinet	Kitchen 1	White	Negative	0.25
143	No	Plaster	Wall	Kitchen 1 wall	White	Negative	0.7
144		Wood	Window frame	Room 4 main floor	White	Negative	0.08
145	No	Wood	Mullion	Room 4 main floor	White	Negative	0.11
146	No	Wood	Door	Room 2 closet door	White	Negative	0.10
147	No	Wood	Door jamb	Rom 2 main floor closet	White	Negative	0.11
148		Wood	Baseboard	Room 2 main floor	White	Negative	0.09
149	No	Wood	Windowsill	Room 2 main floor	White	Negative	0.21
150	No	Wood	Floor	Main floor hallway closet	White	Negative	0.0



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Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm ²
151		Wood	Window trim	Room 1 main floor	White	Negative	0.15
152	No	Plaster	Wall	Room 1 main floor wall	White	Negative	0.22
153	No	Sheetrock	Wall	Main floor front entrance area	White	Negative	0.12
154		Wood	Door trim	Front entrance area	White	Negative	0.14
155	No	Wood	Door	Front entrance area	Clear	Negative	0.04
156	No	Wood	Stair tread	Stairwell to 2nd floor	Grey	Negative	0.08
157		Plaster	Ceiling	2nd floor hallway	White	Negative	0.0
158		Wood	Door frame	Room 3 2nd floor	White	Negative	0.08
159		Wood	Door	Room 3 2nd floor	White	Negative	0.03
160	No	Brick	Chimney stack	Room 3 2nd floor closet	Yellow	Negative	0.04
161		Wood	Window trim	Room 3 2nd floor	White	Positive	2.2
162		Metal	Vent	2nd floor hallway	Black	Negative	0.0
163	No	Wood	Window frame	Kitchen 2	White	Positive	3.8
164	No	Wood	Window sill	Kitchen 2	White	Negative	0.03
165		Wood	Window stool	Kitchen 2 exterior	White	Positive	1.8
166		Wood	Cabinet	Kitchen 2	White	Negative	0.09



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 Seattle, WA 98188
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Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm ²
167		Wood	Siding	Exterior South wall	Green	Negative	0.05
168		Wood	Sub wall below shingles siding	Exterior South wall	Blue	Negative	0.0
169	No	Concrete	Foundation	Exterior east wall	Grey	Positive	1.0
170	No	Wood	Door	Exterior front door	Brown	Negative	0.0
171		Wood	Door frame	Exterior front door	White	Positive	6.6
172	No	Wood	Awning	Exterior above front door	White	Positive	3.3
173		Concrete	Foundation	Exterior east wall	Gray	Negative	Null
174	No	Concrete	Foundation	Exterior east wall	Grey	Negative	0.9
175		Concrete	Wall	Exterior North wall	Grey	Negative	0.6
176		Metal	Down spout	Exterior North wall	Green	Negative	0.0
177		Wood	Siding	Exterior east wall	Green	Negative	0.10
178		Concrete	Foundation	Exterior east wall	Grey	Negative	0.7

Appendix E: **XRF Performance Characteristic Sheet**

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Appendix F: **Inspector / Laboratory Certifications**

Certificate of Completion

This is to certify that

Kyle Lewis

has satisfactorily completed
4 hours of online refresher training as an
AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

182603
Certificate Number



Oct 6, 2021 Expires in 1 year.

Date(s) of Training

Exam Score: N/A
(if applicable)

A handwritten signature in black ink, appearing to read "AZ", written over a horizontal line.

Instructor: Andre Zwanenburg

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

Certificate of Completion

This is to certify that

Kyle P Lewis

*Has satisfactorily completed the refresher training requirements
for Lead Risk Assessor*

To comply with the requirements of 40CFR745 and OAR 333-069

Certificate Number: RA-R-41AR033-21-00059

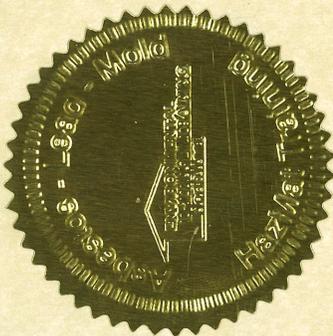
Presented by: Environmental Testing & Training NorthWest

March 16, 2021

Dates of Training

March 16, 2024

Expiration Date



Instructor

**ENVIRONMENTAL
TESTING & TRAINING**
NorthWest

Lead-Based Paint Program



Kyle P Lewis
Risk Assessor
Cert # 7157
Expires 3/26/2024



Department of Commerce

Certificate of Completion

This is to certify that

Tyler Sadler

has satisfactorily completed
4 hours of online refresher training as an
AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

182608
Certificate Number



Oct 6, 2021 Expires in 1 year.

Date(s) of Training

Exam Score: N/A
(if applicable)

A handwritten signature in black ink, appearing to read "AZ", written over a horizontal line.

Instructor: Andre Zwanenburg

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

STATE OF WASHINGTON

Department of Commerce
Lead-Based Paint Abatement Program

Tyler G Sadler

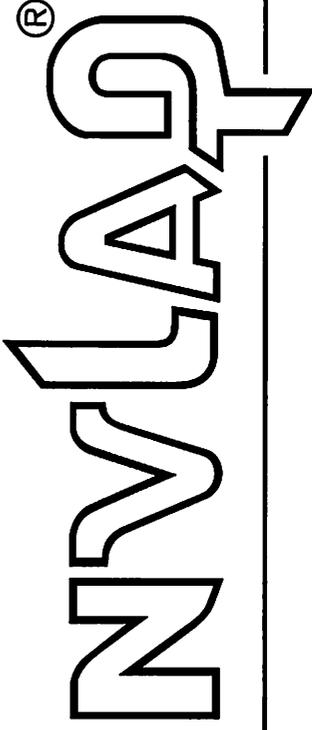
*Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based
paint activities as a
Risk Assessor*

Certification #
6705

Issuance Date
03/30/2021

Expiration Date
03/26/2024

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200613-0

EMSL Analytical, Inc.
Seattle, WA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-10-01 through 2022-09-30
Effective Dates



John S. Lumb
For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.

5900 4th Avenue S

Suite 100

Seattle, WA 98108

Rudy Baum

Phone: 206-269-6310

Email: rbaum@emsl.com

<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200613-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, appearing to read "Rudy Baum", written over a horizontal line.

For the National Voluntary Laboratory Accreditation Program