



# Regulated Building Material Survey

**Kitsap County Public Works  
423 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:

**Allison Lewis**  
AHERA Accredited BI  
PacRim

**Date Finalized: 4/28/2022**  
**PacRim#: 17384.01**

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QAQC Review By: Allison Lewis

Date Reviewed: 4/29/22

## Section 1.0 Scope of Work

Kitsap County Public Works | 423 South National Avenue – Bremerton, WA

On April 21<sup>st</sup>, 2022, Kyle Lewis and Tyler Sadler, both AHERA Accredited Building Inspectors and a DOC certified Lead Risk Assessors for Pacific Rim Environmental, Inc. (PacRim), performed a Regulated Building Material Survey at the subject property described below.

**Site:** 423 South National Avenue – Bremerton, WA: 2,400 SF two-story vacated residential building built in 1942.



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

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 (if applicable), 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 | 423 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 | 423 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-one (31) 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**

**The following materials were determined to be ACM by laboratory analysis:**

- **9x9 Floor tile and mastic (Main Floor)**
- **9x9 Flooring debris (Attic)**

**Asbestos Sample Summary by Homogenous Number:**

HM #	AHERA Category	Sample Description	Additional Locations	Estimated Quantity	Sample Location	Asbestos Type / %	Sample #
1	Misc.	SVF type 1 brown wood pattern	N/A	N/A	Main floor Room 1 entry	None Detected (All Layers)	423-01
2	Misc.	Buried SVF under carpet	N/A	N/A	Main floor Room 1 under carpet	None Detected (Both Layers)	423-02
3	Misc.	Gypsum Wall Board/ Tape/Joint Compound	N/A	N/A	Main floor room 1	None Detected (All Layers)	423-03
					Kitchen	None Detected (All Layers)	423-10
					Bathroom	None Detected (All Layers)	423-13
					Main floor Room 2	None Detected	423-21
					Basement room 5	None Detected (Both Layers)	423-24
4	Misc.	Vapor barrier	N/A	N/A	Main floor Room 1 under hardwood	None Detected (Both Layers)	423-04

**Section 3.0 Homogeneous Materials Asbestos Sample Summary**  
**Kitsap County Public Works | 423 South National Avenue – Bremerton, WA**

HM #	AHERA Category	Sample Description	Additional Locations	Estimated Quantity	Sample Location	Asbestos Type / %	Sample #
5	Misc.	9x9 Floor tile and mastic	N/A	600 SF	Main floor Room 1	Layer 1: (Vinyl floor tile) <b>Chrysotile 3%</b> Layer 2: (Mastic) None Detected Layer 3: (Vinyl sheet flooring) None Detected	423-05
					Main floor Room 2	None Detected (Both Layers) * HM with ACM	423-19
6	Misc.	Buried blue SVF	Room 1 and bathroom	N/A	Main floor Room 1	None Detected (Both Layers)	423-06
					Bathroom under a sheet of plywood	None Detected	423-11
7	Misc.	Buried kitchen floor tile and mastic	N/A	N/A	Kitchen	None Detected (Both Layers)	423-07
8	Misc.	Ceiling tile	Multiple locations	N/A	Kitchen	None Detected	423-08
					Room 2 buried behind GWB	None Detected	423-20
9	Misc.	Formica counter mastic	N/A	N/A	Kitchen	None Detected (Both Layers)	423-09
10	Misc.	SVF type 2 bathroom	N/A	N/A	Bathroom	None Detected (Both Layers)	423-12
11	Misc.	Siding Vapor barrier	N/A	N/A	Attic space	None Detected	423-14
					Exterior east wall	None Detected	423-28
12	Misc.	Gypsum Wall Board/ Tape/Joint Compound	N/A	N/A	Attic space	None Detected (Both Layers)	423-15
13	Misc.	9x9 Flooring debris	N/A	60 SF	Attic space	None Detected (Both Layers) * HM with ACM	423-16
					Attic space	Layer 1: (Vinyl floor tile) <b>Chrysotile 2%</b> Layer 2: (Mastic) None Detected	423-17
14	Misc.	Electrical wire wrap	Multiple locations	N/A	Attic space	None Detected	423-18
15	Misc.	Window Putty	N/A	N/A	Interior window to stair well	None Detected	423-22
				N/A	Exterior South wall	None Detected (Both Layers)	423-29
16	Misc.	12x12 floor tile	N/A	N/A	Basement room 5	None Detected (Both Layers)	423-23

**Section 3.0 Homogeneous Materials Asbestos Sample Summary**  
**Kitsap County Public Works | 423 South National Avenue – Bremerton, WA**

HM #	AHERA Category	Sample Description	Additional Locations	Estimated Quantity	Sample Location	Asbestos Type / %	Sample #
17	Surfacing	Texture on GWB	N/A	N/A	Basement room 5	None Detected (Both Layers)	423-25
						None Detected (Both Layers)	423-26
						None Detected (All Layers)	423-27
18	Misc.	3-tab Roofing and Vapor barrier	N/A	N/A	West side roof	None Detected (Both Layers)	423-30
					South side roof	None Detected (Both Layers)	423-31

***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 | 423 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 423 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 techs.**

**The following materials were determined to be ACM by laboratory analysis:**

- **9x9 Floor tile and mastic (Main Floor)**
- **9x9 Flooring debris (Attic)**

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 | 423 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/cm<sup>2</sup> on the following components:

Test #	Substrate	Component / Side	Description / Location	Color	Pbc mg/cm2
183	Wood	Window frame	Main floor room 4 window to stairwell	White	10.01
191	Metal	Pipe	Room 2	White	2.2

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/cm<sup>2</sup>) 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	
<b>Job Number</b>	17384.01
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.
<b>Project Address:</b>	423 South National Avenue Bremerton, WA
<b>Client:</b>	GeoEngineers Tacoma
<b>Date of Survey:</b>	21-Apr-2022
<b>PacRim Technician:</b>	Kyle Lewis
<b>Limitations:</b>	Structure scheduled for demolition, no report or field limitations noted by field tech
<b>Exterior Photo:</b>	
<b>Turnaround Requested:</b>	48 Hour

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-01	<b>Homogenous Material Number</b>	1
<b>Material Description</b>	SVF type 1 brown wood pattern		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 1 entry		
<b>Quantity</b>	12	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (All Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-02	<b>Homogenous Material Number</b>	2
<b>Material Description</b>	Buried SVF under carpet		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 1 under carpet		
<b>Quantity</b>	300	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-03	<b>Homogenous Material Number</b>	3
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor room 1		
<b>Quantity</b>	2400	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (All Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-04	<b>Homogenous Material Number</b>	4
<b>Material Description</b>	Vapor barrier		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 1 under hardwood		
<b>Quantity</b>	1000	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-05	<b>Homogenous Material Number</b>	5
<b>Material Description</b>	9x9 floor tile and mastic		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 1		
<b>Quantity</b>	300	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>Layer 1: (Vinyl floor tile) Chrysotile 3%</b> <b>Layer 2: (Mastic) None Detected</b> <b>Layer 3: (Vinyl sheet flooring) None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-06	<b>Homogenous Material Number</b>	6
<b>Material Description</b>	Buried blue svf		
<b>Homogenous Mtl Area</b>	And bathroom		
<b>Sample Location</b>	Main floor Room 1		
<b>Quantity</b>	200	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-07	<b>Homogenous Material Number</b>	7
<b>Material Description</b>	Buried kitchen floor tile and mastic		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Kitchen		
<b>Quantity</b>	100	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-08	<b>Homogenous Material Number</b>	8
<b>Material Description</b>	Ceiling tile		
<b>Homogenous Mtl Area</b>	Multiple rooms		
<b>Sample Location</b>	Kitchen		
<b>Quantity</b>	1600	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-09	<b>Homogenous Material Number</b>	9
<b>Material Description</b>	Formica counter mastic		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Kitchen		
<b>Quantity</b>	20	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-10	<b>Homogenous Material Number</b>	3
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Kitchen		
<b>Quantity</b>	2400	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (All Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-11	<b>Homogenous Material Number</b>	6
<b>Material Description</b>	Buried blue SVF		
<b>Homogenous Mtl Area</b>	Room 1 and bathroom		
<b>Sample Location</b>	Bathroom under a sheet of plywood		
<b>Quantity</b>	200	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-12	<b>Homogenous Material Number</b>	10
<b>Material Description</b>	SVF type 2 bathroom		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Bathroom		
<b>Quantity</b>	80	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-13	<b>Homogenous Material Number</b>	3
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Bathroom		
<b>Quantity</b>	2400	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (All Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-14	<b>Homogenous Material Number</b>	11
<b>Material Description</b>	Siding Vapor barrier		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Attic space		
<b>Quantity</b>	3000	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-15	<b>Homogenous Material Number</b>	12
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Attic space		
<b>Quantity</b>	600	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-16	<b>Homogenous Material Number</b>	13
<b>Material Description</b>	9x9 Flooring debris		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Attic space		
<b>Quantity</b>	See Sample 17	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)* HM with ACM (See Sample 423-17)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-17	<b>Homogenous Material Number</b>	13
<b>Material Description</b>	9x9 Flooring debris		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Attic space		
<b>Quantity</b>	60	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>Layer 1: (Vinyl floor tile) Chrysotile 2%</b> <b>Layer 2: (Mastic) None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-18	<b>Homogenous Material Number</b>	14
<b>Material Description</b>	Electrical wire wrap		
<b>Homogenous Mtl Area</b>	Multiple locations		
<b>Sample Location</b>	Attic space		
<b>Quantity</b>	200	<b>Unit of Measure</b>	Lineal Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-19	<b>Homogenous Material Number</b>	5
<b>Material Description</b>	9x9 floor tile and mastic		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 2		
<b>Quantity</b>	300	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)* HM with ACM (See Sample 423-05)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-20	<b>Homogenous Material Number</b>	8
<b>Material Description</b>	Ceiling tile		
<b>Homogenous Mtl Area</b>	Multiple locations		
<b>Sample Location</b>	Room 2 buried behind GWB		
<b>Quantity</b>	1600	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-21	<b>Homogenous Material Number</b>	3
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Main floor Room 2		
<b>Quantity</b>	2400	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-22	<b>Homogenous Material Number</b>	15
<b>Material Description</b>	Window Putty		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Interior window to stair well		
<b>Quantity</b>	6	<b>Unit of Measure</b>	Each
<b>Asbestos Type/%</b>	<b>None Detected</b>		
<b>Sample Photo</b>			

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous	
<b>Sample Number</b>	423-23	<b>Homogenous Material Number</b>	16	
<b>Material Description</b>	12x12 floor tile fake parque			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Basement room 5			
<b>Quantity</b>	80	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>			
<b>Sample Photo</b>				

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous	
<b>Sample Number</b>	423-24	<b>Homogenous Material Number</b>	3	
<b>Material Description</b>	Gypsum Wall Board/Tape/Joint Compound			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Basement room 5			
<b>Quantity</b>	2400	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>			
<b>Sample Photo</b>				

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Surfacing	
<b>Sample Number</b>	423-25	<b>Homogenous Material Number</b>	17	
<b>Material Description</b>	Texture on GWB			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Basement room 5			
<b>Quantity</b>	80	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>			
<b>Sample Photo</b>				

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Surfacing	
<b>Sample Number</b>	423-26	<b>Homogenous Material Number</b>	17	
<b>Material Description</b>	Texture on GWB			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Basement room 5			
<b>Quantity</b>	80	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>			
<b>Sample Photo</b>				

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Surfacing	
<b>Sample Number</b>	423-27	<b>Homogenous Material Number</b>	17	
<b>Material Description</b>	Texture on GWB			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Basement room 5			
<b>Quantity</b>	80	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected (All Layers)</b>			
<b>Sample Photo</b>				

Sample			Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.			
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous	
<b>Sample Number</b>	423-28	<b>Homogenous Material Number</b>	11	
<b>Material Description</b>	Siding Vapor barrier			
<b>Homogenous Mtl Area</b>	N/A			
<b>Sample Location</b>	Exterior east wall			
<b>Quantity</b>	3000	<b>Unit of Measure</b>	Square Feet	
<b>Asbestos Type/%</b>	<b>None Detected</b>			
<b>Sample Photo</b>				

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-29	<b>Homogenous Material Number</b>	15
<b>Material Description</b>	Window Putty		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	Exterior South wall		
<b>Quantity</b>	6	<b>Unit of Measure</b>	Each
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-30	<b>Homogenous Material Number</b>	18
<b>Material Description</b>	3-tab Roofing and Vapor barrier		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	West side roof		
<b>Quantity</b>	1700	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

Sample		Sample Date	21-Apr-2022
<b>Project Name</b>	Kitsap County Public Works - 423 S. National Ave.		
<b>Sample Type</b>	Physical Sample	<b>AHERA Category</b>	Miscellaneous
<b>Sample Number</b>	423-31	<b>Homogenous Material Number</b>	18
<b>Material Description</b>	3-tab Roofing and Vapor barrier		
<b>Homogenous Mtl Area</b>	N/A		
<b>Sample Location</b>	South side roof		
<b>Quantity</b>	1700	<b>Unit of Measure</b>	Square Feet
<b>Asbestos Type/%</b>	<b>None Detected (Both Layers)</b>		
<b>Sample Photo</b>			

# 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](mailto:seattlelab@emsl.com)

EMSL Order: 512201103

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 3:00 PM

**Analysis Date:** 04/26/2022 - 04/27/2022

**Collected Date:**

**Project:** 17384.01 - 423 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 % Type
			% Fibrous	% Non-Fibrous	
423-01-Vinyl Sheet Flooring 1 <small>512201103-0001</small>	Main floor room 1 entry - SVF type 1 brown wood pattern	Tan Fibrous Homogeneous	25% Cellulose 5% Glass 5% Wollastonite	65% Non-fibrous (Other)	None Detected
423-01-Mastic 1 <small>512201103-0001A</small>	Main floor room 1 entry - SVF type 1 brown wood pattern	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-01-Vinyl Sheet Flooring 2 <small>512201103-0001B</small>	Main floor room 1 entry - SVF type 1 brown wood pattern	Red/Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
423-01-Mastic 2 <small>512201103-0001C</small>	Main floor room 1 entry - SVF type 1 brown wood pattern	Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-01-Backing <small>512201103-0001D</small>	Main floor room 1 entry - SVF type 1 brown wood pattern	Brown Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
423-02-Vinyl Sheet Flooring <small>512201103-0002</small>	Main floor room 1 under carpet - Buried SVF under carpet	Red/Black Fibrous Homogeneous	40% Cellulose 5% Synthetic	55% Non-fibrous (Other)	None Detected
423-02-Backing <small>512201103-0002A</small>	Main floor room 1 under carpet - Buried SVF under carpet	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
423-03-Joint Compound 1 <small>512201103-0003</small>	Main floor room 1 - Gypsum wallboard/tape/joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
423-03-Tape <small>512201103-0003A</small>	Main floor room 1 - Gypsum wallboard/tape/joint compound	White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
423-03-Joint Compound 2 <small>512201103-0003B</small>	Main floor room 1 - Gypsum wallboard/tape/joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
423-03-Gypsum Wallboard <small>512201103-0003C</small>	Main floor room 1 - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	20% Cellulose	55% Gypsum 25% Non-fibrous (Other)	None Detected
423-04 <small>512201103-0004</small>	Main floor room 1 under hardwood - Vapor barrier	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
423-05-Vinyl Floor Tile <small>512201103-0005</small>	Main floor room 1 - 9x9 floor tile and mastic	Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
423-05-Mastic <small>512201103-0005A</small>	Main floor room 1 - 9x9 floor tile and mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/27/2022 16:43:29



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<http://www.emsl.com> / [seattlelab@emsl.com](mailto:seattlelab@emsl.com)

**EMSL Order:** 512201103  
**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
423-05-Vinyl Sheet Flooring <i>512201103-0005B</i>	Main floor room 1 - 9x9 floor tile and mastic	Various Fibrous Homogeneous	45% Cellulose 10% Synthetic	45% Non-fibrous (Other)	None Detected
423-06-Vinyl Sheet Flooring <i>512201103-0006</i>	Main floor room 1 - Buried blue SVF	Black/Blue Fibrous Homogeneous	45% Cellulose 10% Synthetic	45% Non-fibrous (Other)	None Detected
423-06-Mastic <i>512201103-0006A</i>	Main floor room 1 - Buried blue SVF	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-07-Vinyl Floor Tile <i>512201103-0007</i>	Kitchen - Buried kitchen floor tile and mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-07-Mastic <i>512201103-0007A</i>	Kitchen - Buried kitchen floor tile and mastic	Tan/Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
423-08 <i>512201103-0008</i> <i>Inseparable paint / coating layer included in analysis</i>	Kitchen - Ceiling tile	Tan/Various Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
423-09-Counter Top <i>512201103-0009</i>	Kitchen - Formica counter mastic	Brown Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
423-09-Mastic <i>512201103-0009A</i>	Kitchen - Formica counter mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-10-Joint Compound 1 <i>512201103-0010</i> <i>Inseparable paint / coating layer included in analysis</i> <i>Thin JC layer</i>	Kitchen - Gypsum wallboard/tape/joint compound	White/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
423-10-Tape <i>512201103-0010A</i>	Kitchen - Gypsum wallboard/tape/joint compound	White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
423-10-Joint Compound 2 <i>512201103-0010B</i>	Kitchen - Gypsum wallboard/tape/joint compound	White Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
423-10-Gypsum Wallboard <i>512201103-0010C</i>	Kitchen - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	25% Cellulose	60% Gypsum 15% Non-fibrous (Other)	None Detected
423-11 <i>512201103-0011</i>	Bathroom under a sheet of plywood - Buried blue SVF	Brown/Black/Blue Fibrous Homogeneous	45% Cellulose 5% Synthetic	50% Non-fibrous (Other)	None Detected
423-12-Vinyl Sheet Flooring <i>512201103-0012</i>	Bathroom - SVF type 2 bathroom	Gray/White Fibrous Homogeneous	30% Cellulose 2% Glass	68% Non-fibrous (Other)	None Detected
423-12-Mastic <i>512201103-0012A</i>	Bathroom - SVF type 2 bathroom	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-13-Joint Compound <i>512201103-0013</i>	Bathroom - Gypsum wallboard/tape/joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected

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EMSL Order: 512201103

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
423-13-Mesh <i>512201103-0013A</i>	Bathroom - Gypsum wallboard/tape/joint compound	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
423-13-Gypsum Wallboard <i>512201103-0013B</i>	Bathroom - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	25% Cellulose	50% Gypsum 25% Non-fibrous (Other)	None Detected
423-14 <i>512201103-0014</i>	Attic space - Siding vapor barrier	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
423-15-Mesh <i>512201103-0015</i> <i>Result includes a small amount of inseparable mastic</i>	Attic space - Gypsum wallboard/tape/joint compound	Tan Fibrous Heterogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
423-15-Gypsum Wallboard <i>512201103-0015A</i>	Attic space - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	25% Cellulose	55% Gypsum 20% Non-fibrous (Other)	None Detected
423-16-Vinyl Sheet Flooring <i>512201103-0016</i>	Attic space - 9x9 flooring debris	Brown/Red/Black Fibrous Homogeneous	45% Cellulose 5% Synthetic	50% Non-fibrous (Other)	None Detected
423-16-Mastic <i>512201103-0016A</i>	Attic space - 9x9 flooring debris	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-17-Vinyl Floor Tile <i>512201103-0017</i>	Attic space - 9x9 flooring debris	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
423-17-Mastic <i>512201103-0017A</i>	Attic space - 9x9 flooring debris	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-18 <i>512201103-0018</i>	Attic space - Electrical wire wrap	Brown/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
423-19-Vinyl Sheet Flooring <i>512201103-0019</i>	Main floor room 2 - 9x9 floor tile and mastic	Brown/Black Fibrous Homogeneous	45% Cellulose 5% Synthetic	50% Non-fibrous (Other)	None Detected
423-19-Mastic <i>512201103-0019A</i>	Main floor room 2 - 9x9 floor tile and mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
423-20 <i>512201103-0020</i> <i>Inseparable paint / coating layer included in analysis</i>	Room 2 buried behind GWB - Ceiling tile	Tan/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
423-21 <i>512201103-0021</i>	Main floor room 2 - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	25% Cellulose 2% Glass	55% Gypsum 18% Non-fibrous (Other)	None Detected
423-22 <i>512201103-0022</i>	Interior window to stair well - Window putty	Beige Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
423-23-Vinyl Floor Tile <i>512201103-0023</i>	basement room 5 - 12x12 floor tile fake parque	Brown/Gray Non-Fibrous Homogeneous	3% Cellulose 2% Synthetic	95% Non-fibrous (Other)	None Detected
423-23-Mastic <i>512201103-0023A</i>	basement room 5 - 12x12 floor tile fake parque	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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

<http://www.emsl.com> / [seattlelab@emsl.com](mailto:seattlelab@emsl.com)

**EMSL Order:** 512201103  
**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
423-24-Joint Compound <small>512201103-0024</small>	basement room 5 - Gypsum wallboard/tape/joint compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-24-Gypsum Wallboard <small>512201103-0024A</small>	basement room 5 - Gypsum wallboard/tape/joint compound	Brown/White Fibrous Homogeneous	25% Cellulose	55% Gypsum 20% Non-fibrous (Other)	None Detected
423-25-Joint Compound <small>512201103-0025</small>	basement room 5 - Texture on GWB	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-25-Gypsum Wallboard <small>512201103-0025A</small>	basement room 5 - Texture on GWB	Brown/White Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
423-26-Texture <small>512201103-0026</small>	basement room 5 - Texture on GWB	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-26-Gypsum Wallboard <small>512201103-0026A</small>	basement room 5 - Texture on GWB	Brown/White Fibrous Homogeneous	20% Cellulose 2% Glass	60% Gypsum 18% Non-fibrous (Other)	None Detected
423-27-Tape <small>512201103-0027</small>	basement room 5 - Texture on GWB	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
423-27-Joint Compound <small>512201103-0027A</small>	basement room 5 - Texture on GWB	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-27-Gypsum Wallboard <small>512201103-0027B</small>	basement room 5 - Texture on GWB	Brown/Pink Fibrous Homogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (Other)	None Detected
423-28 <small>512201103-0028</small>	Exterior east wall - Siding vapor barrier	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
423-29-Coating <small>512201103-0029</small>	Exterior south wall - Window putty	Gray/White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-29-Putty <small>512201103-0029A</small>	Exterior south wall - Window putty	Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
423-30-Shingle <small>512201103-0030</small>	West side roof - 3-tab roofing and vapor barrier	Gray/Black Fibrous Homogeneous	5% Synthetic 20% Glass	75% Non-fibrous (Other)	None Detected
423-30-Vapor Barrier <small>512201103-0030A</small>	West side roof - 3-tab roofing and vapor barrier	Black Fibrous Homogeneous	65% Cellulose 3% Synthetic	32% Non-fibrous (Other)	None Detected
423-31-Shingle <small>512201103-0031</small>	South side roof - 3-tab roofing and vapor barrier	Gray/Black Fibrous Homogeneous	5% Synthetic 25% Glass	70% Non-fibrous (Other)	None Detected
423-31-Vapor Barrier <small>512201103-0031A</small>	South side roof - 3-tab roofing and vapor barrier	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected

Initial report from: 04/27/2022 16:43:29



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**EMSL Order:** 512201103

**Customer ID:** PACR50

**Customer PO:**

**Project ID:**

Analyst(s)

*Claudiu Nistor (3)*

*Ehrin Stephens (60)*

Ehrin Stephens, Laboratory Manager  
or Other Approved Signatory

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

Initial report from: 04/27/2022 16:43:29

## Appendix C: **Sample Location Drawing**

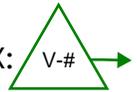
Site Sketch

Samples positive for Asbestos appear in squares EX: # →

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

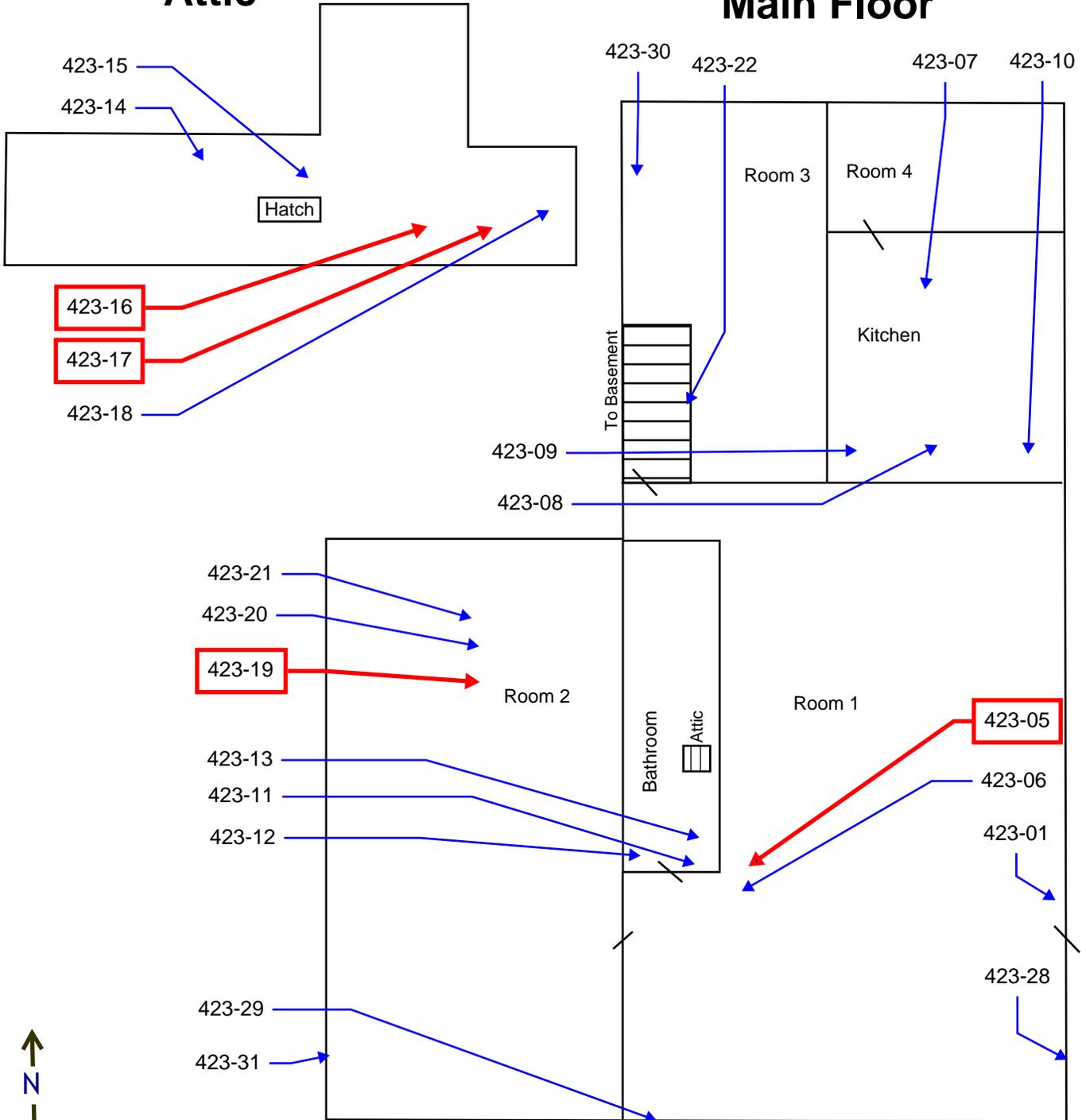
Samples containing less than one percent asbestos appear in circles EX: # →

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



Attic

Main Floor



<p><b>GeoEngineers Tacoma</b>  <b>Kitsap Co. Public Works</b>          423 S. National Ave          Bremerton, WA</p>	<p><b><u>Pacific Rim Environmental, Inc.</u></b>          6510 Southcenter Boulevard, #40          Seattle, WA 98188</p> <p>Tel. (206) 244-8965</p> <p>pacrimenv.com</p>	<p>Project # : 17384.01          Drawing # : 01 of 02          Sampling Date: 4/21/2022          Drawing by : M.Sandefur          Drawing Not to Scale</p>
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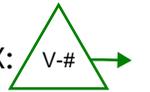
Site Sketch

Samples positive for Asbestos appear in squares EX: # →

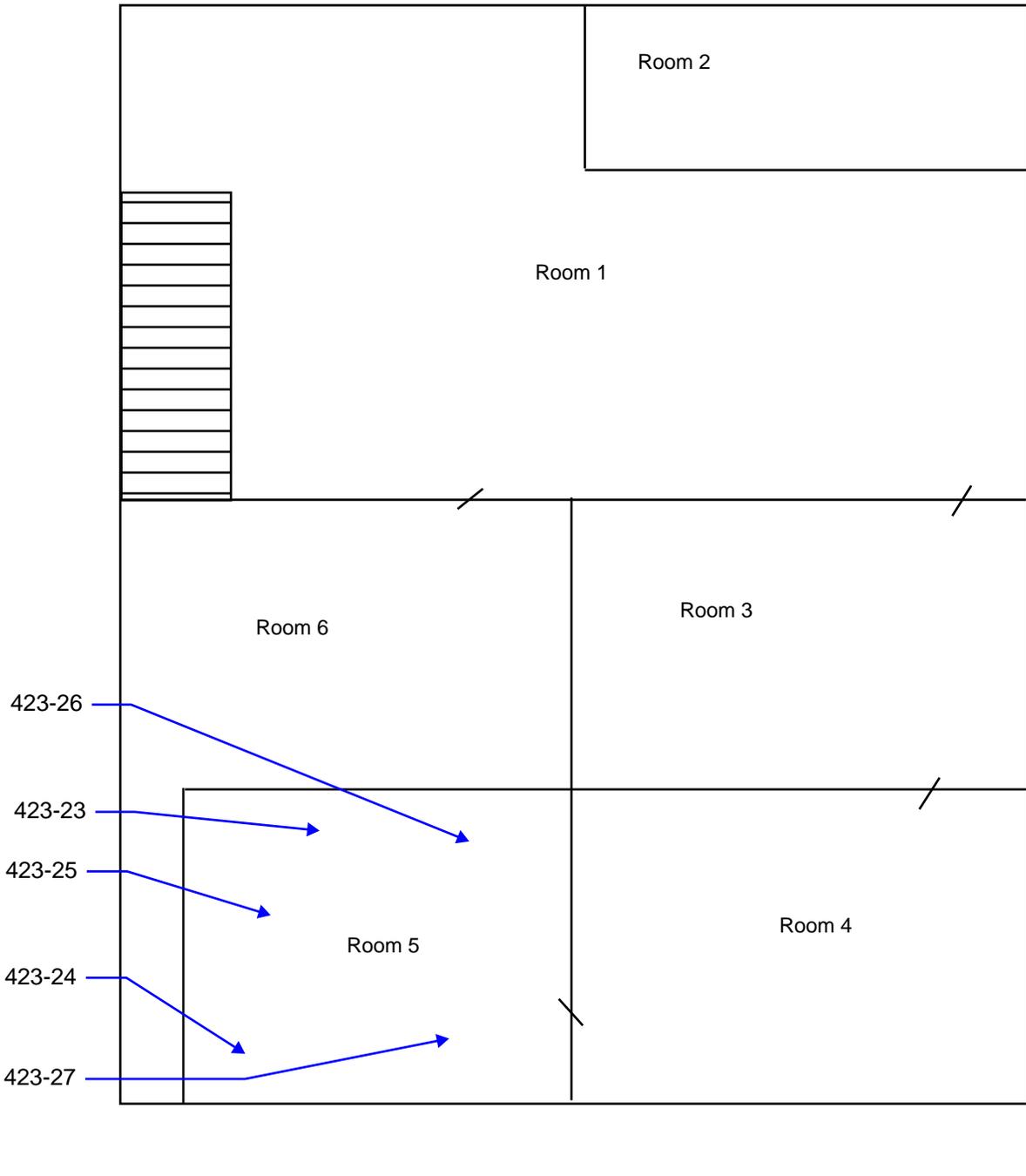
Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: # →

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><b>GeoEngineers Tacoma</b> <b>Kitsap Co. Public Works</b> 423 S. National Ave Bremerton, WA</p>	<p><b><i>Pacific Rim Environmental, Inc.</i></b> 6510 Southcenter Boulevard, #40 Seattle, WA 98188</p> <p>Tel. (206) 244-8965</p> <p>pacrimenv.com</p>	<p>Project # : 17384.01 Drawing # : 02 of 02 Sampling Date: 4/21/2022 Drawing by : M.Sandefur Drawing Not to Scale</p>
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## 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](http://www.PacRimEnv.com)

Lead-Based Paint (XRF) Data Sheet

Client:	<b>GeoEngineers Tacoma</b>	XRF Serial #:	<b>80662</b>
Project:	<b>Kitsap County Public Works - 423 S. National Ave.</b>	Inspection Date:	<b>21-Apr-2022</b>
Project Address:	<b>423 South National Avenue Bremerton, WA</b>	Inspection By:	<b>Kyle Lewis</b>
Reviewed by:	<b>Melanie Sandefur</b>	PacRim Job#	<b>17384.01</b>

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm <sup>2</sup>
179		Sheetrock	Wall	Basement room 4	White	Negative	0.0
180		Wood	Door	Room 3 basement	White	Negative	0.0
181		Wood	Post	Basement room 1	White	Negative	0.0
182		Sheetrock	Wall	Main floor Room 3 wall	Brown	Negative	0.0
<b>183</b>		<b>Wood</b>	<b>Window frame</b>	<b>Main floor Room 4 window to stair well</b>	<b>White</b>	<b>Positive</b>	<b>10.1</b>
184		Sheetrock	Ceiling	Main floor Room 1	Tan	Negative	0.0
185		Wood	Trim	Kitchen entryway	White	Negative	0.01
186		Wood	Sill	Kitchen window	White	Negative	0.0
187		Wood	Window frame	Main floor Room 4	White	Negative	0.03
188		Wood	Baseboard	Main floor Room 4	White	Negative	0.0
189		Wood	Door	Main floor Room 4	White	Negative	0.3
190		Wood	Cabinet	Kitchen	Clear	Negative	0.0
<b>191</b>		<b>Metal</b>	<b>Pipe</b>	<b>Room 2</b>	<b>White</b>	<b>Positive</b>	<b>2.2</b>
192		Wood	Door	Basement door	White	Negative	0.02
193		Wood	Roof board	Attic space	White	Negative	0.0



**Pacific Rim Environmental Inc.**  
 6510 Southcenter Blvd. Suite 40  
 Seattle, WA 98188  
 (206)244-8965 [www.PacRimEnv.com](http://www.PacRimEnv.com)

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm <sup>2</sup>
194		Wood	Window frame	Attica space	White	Negative	0.01
195		Wood	Siding	Exterior east side	Blue	Negative	0.0
196		Wood	Soffit	Exterior West side	White	Negative	0.02
197		Concrete	Foundation	Exterior east side	White	Negative	0
198		Wood	Window frame	Exterior east wall	White	Negative	0.7
199		Wood	Roll up door	Exterior east wall	White	Negative	0.0
200		Metal	Roll up door	Exterior east wall	White	Negative	0.0
201		Wood	Window frame	Exterior South wall basement window	White	Negative	0.02
202		Wood	Siding	Exterior south wall	Blue	Negative	0.05
203		Wood	Soffit	Exterior West wall	White	Negative	0.03
204		Wood	Facia board	Exterior West wall	White	Negative	0.22
205		Wood	Siding	Exterior West wall	Blue	Negative	0.05
206	Yes	SRM 2573				Positive	1.1
207	Yes	SRM 2573				Negative	Null
208	Yes	SRM 2573				Positive	1.0
209	Yes	SRM 2573				Negative	0.9

## Lead Inspection Summary

Project Information	
Job Number:	17384.01
Project Name:	Kitsap County Public Works - 423 S. National Ave.
Project Address:	423 South National Avenue Bremerton, WA
Client:	GeoEngineers Tacoma
Date of Survey:	21-Apr-2022
PacRim Technician:	Kyle Lewis
Limitations:	None
Notes:	Starting Calibration on house 417 Shots 139-141. Ending calibration shots on house 423 Shots 206-209
XRF ID#:	80662
Technician signature	

Samples	
Sample Number	179
Calibration	
Substrate Description	Sheetrock
Component	Wall
Color	White
Sample Location	Basement room 4
XRF Reading (Mg/cm <sup>2</sup> lead)	0.0
Result	Negative

Samples	
Sample Number	180
Calibration	
Substrate Description	Wood
Component	Door
Color	White
Sample Location	Room 3 basement
XRF Reading (Mg/cm <sup>2</sup> lead)	0.0
Result	Negative

## Samples

Sample Number	181
Calibration	No
Substrate Description	Wood
Component	Post
Color	White
Sample Location	Basement room 1
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	182
Calibration	
Substrate Description	Sheetrock
Component	Wall
Color	Brown
Sample Location	Main floor Room 3 wall
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	183
Calibration	
Substrate Description	Wood
Component	Window frame
Color	White
Sample Location	Main floor Room 4 window to stair well
XRF Reading (Mg/cm2 lead)	10.1
Result	<b>Positive</b>
Sample Photo	

Samples	
Sample Number	184

<b>Calibration</b>	
<b>Substrate Description</b>	Sheetrock
<b>Component</b>	Ceiling
<b>Color</b>	Tan
<b>Sample Location</b>	Main floor Room 1
<b>XRF Reading (Mg/cm2 lead)</b>	0.0
<b>Result</b>	Negative

Samples	
<b>Sample Number</b>	185
<b>Calibration</b>	No
<b>Substrate Description</b>	Wood
<b>Component</b>	Trim
<b>Color</b>	White
<b>Sample Location</b>	Kitchen entryway
<b>XRF Reading (Mg/cm2 lead)</b>	0.01
<b>Result</b>	Negative

Samples	
<b>Sample Number</b>	186
<b>Calibration</b>	
<b>Substrate Description</b>	Wood
<b>Component</b>	Sill
<b>Color</b>	White
<b>Sample Location</b>	Kitchen window
<b>XRF Reading (Mg/cm2 lead)</b>	0.0
<b>Result</b>	Negative

Samples	
<b>Sample Number</b>	187
<b>Calibration</b>	
<b>Substrate Description</b>	Wood
<b>Component</b>	Window frame
<b>Color</b>	White
<b>Sample Location</b>	Main floor Room 4
<b>XRF Reading (Mg/cm2 lead)</b>	0.03
<b>Result</b>	Negative

Samples	
<b>Sample Number</b>	188
<b>Calibration</b>	

Substrate Description	Wood
Component	Baseboard
Color	White
Sample Location	Main floor Room 4
XRF Reading (Mg/cm <sup>2</sup> lead)	0.0
Result	Negative

Samples	
Sample Number	189
Calibration	
Substrate Description	Wood
Component	Door
Color	White
Sample Location	Main floor Room 4
XRF Reading (Mg/cm <sup>2</sup> lead)	0.3
Result	Negative

Samples	
Sample Number	190
Calibration	
Substrate Description	Wood
Component	Cabinet
Color	Clear
Sample Location	Kitchen
XRF Reading (Mg/cm <sup>2</sup> lead)	0.0
Result	Negative

Samples	
Sample Number	191
Calibration	
Substrate Description	Metal
Component	Pipe
Color	White
Sample Location	Room 2
XRF Reading (Mg/cm <sup>2</sup> lead)	2.2
Result	<b>Positive</b>
Sample Photo	



Samples	
Sample Number	192
Calibration	
Substrate Description	Wood
Component	Door
Color	White
Sample Location	Basement door
XRF Reading (Mg/cm2 lead)	0.02
Result	Negative

Samples	
Sample Number	193
Calibration	
Substrate Description	Wood
Component	Roof board
Color	White
Sample Location	Attic space
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	194
Calibration	
Substrate Description	Wood
Component	Window frame
Color	White
Sample Location	Attica space
XRF Reading (Mg/cm2 lead)	0.01
Result	Negative

Samples	
Sample Number	195
Calibration	No
Substrate Description	Wood
Component	Siding
Color	Blue
Sample Location	Exterior east side
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	196
Calibration	
Substrate Description	Wood
Component	Soffit
Color	White
Sample Location	Exterior West side
XRF Reading (Mg/cm2 lead)	0.02
Result	Negative

Samples	
Sample Number	197
Calibration	
Substrate Description	Concrete
Component	Foundation
Color	White
Sample Location	Exterior east side
XRF Reading (Mg/cm2 lead)	0
Result	Negative

Samples	
Sample Number	198
Calibration	
Substrate Description	Wood
Component	Window frame
Color	White
Sample Location	Exterior east wall
XRF Reading (Mg/cm2 lead)	0.7
Result	Negative

Samples	
Sample Number	199
Calibration	
Substrate Description	Wood
Component	Roll up door
Color	White
Sample Location	Exterior east wall
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	200
Calibration	
Substrate Description	Metal
Component	Roll up door
Color	White
Sample Location	Exterior east wall
XRF Reading (Mg/cm2 lead)	0.0
Result	Negative

Samples	
Sample Number	201
Calibration	
Substrate Description	Wood
Component	Window frame
Color	White
Sample Location	Exterior South wall basement window
XRF Reading (Mg/cm2 lead)	0.02
Result	Negative

Samples	
Sample Number	202
Calibration	
Substrate Description	Wood
Component	Siding
Color	Blue
Sample Location	Exterior south wall
XRF Reading (Mg/cm2 lead)	0.05
Result	Negative

Samples	
Sample Number	203
Calibration	
Substrate Description	Wood
Component	Soffit
Color	White
Sample Location	Exterior West wall
XRF Reading (Mg/cm2 lead)	0.03
Result	Negative

Samples	
Sample Number	204
Calibration	
Substrate Description	Wood
Component	Facia board
Color	White
Sample Location	Exterior West wall
XRF Reading (Mg/cm2 lead)	0.22
Result	Negative

Samples	
Sample Number	205
Calibration	
Substrate Description	Wood
Component	Siding
Color	Blue
Sample Location	Exterior West wall
XRF Reading (Mg/cm2 lead)	0.05
Result	Negative

Samples	
Sample Number	206
Calibration	Yes
Substrate Description	SRM 2573
XRF Reading (Mg/cm2 lead)	1.1
Result	Positive

Samples	
Sample Number	207
Calibration	Yes
Substrate Description	SRM 2573
XRF Reading (Mg/cm2 lead)	Null
Result	Negative

Samples	
Sample Number	208
Calibration	Yes
Substrate Description	SRM 2573
XRF Reading (Mg/cm2 lead)	1.0
Result	Positive

Samples	
Sample Number	209
Calibration	Yes
Substrate Description	SRM 2573
XRF Reading (Mg/cm2 lead)	0.9
Result	Negative

# 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:  $^{109}\text{Cd}$ 

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/cm <sup>2</sup> (inclusive)
---

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> 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 <sup>2</sup> )
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 <sup>2</sup> )		
	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> 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 / MOUNT LAKE 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

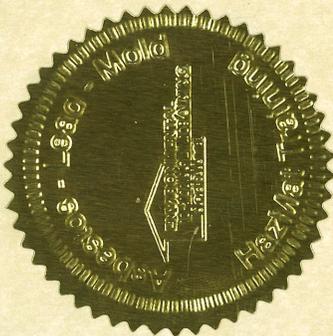
**Presented by: Environmental Testing & Training NorthWest**

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**

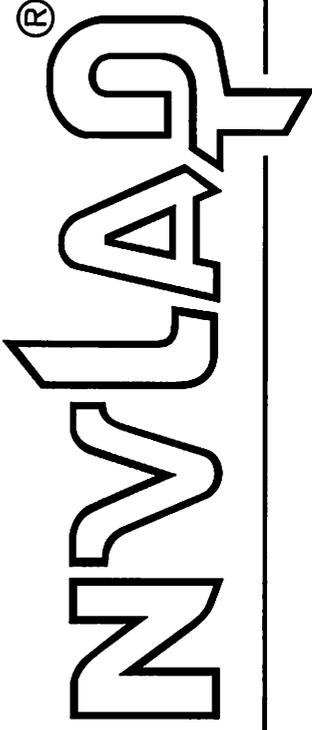
*Has fulfilled the certification requirements of  
WAC 365-230  
and has been certified to conduct lead-based  
paint activities as a  
**Risk Assessor***

**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

---

A handwritten signature in black ink, appearing to read "Peter 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*