

Addendum No. 1

Project: CM2 Roof Repair & Window Treatment
Building 2
2 Transportation Corp Way, Camp Murray, WA 98430
State Project #: 2022-618

KMB Job No.: 22073

Issue Date: September 18, 2023

Bid Date: September 21, 2023

To: All Plan Holders

From: Atika Jain, Project Manager

The following modifications to the Project Manual, Specifications and/or Drawings are to be incorporated into bid proposals that may be offered, and the subsequent construction. Bidders shall assess and include the full impact of the revision(s) on any and all related systems and work. Receipt and incorporation of this Addendum in the bid proposal shall be indicated on the Bid Form in the space provided.

GENERAL:

Item Description

1. MODIFICATIONS TO PRIOR ADDENDA

- A. No prior addenda

2. PRE-BID PARTICIPANTS:

- A. The Pre-Bid walk through was not mandatory. A copy of the sign-in sheet of Participants (1 page) is attached to this Addendum.

3. GENERAL OBSERVATIONS

- A. The bidders are instructed to have a monetary value of \$0 for the separate price row of "Trench Excavation Safety Provisions" in the bid form as that will be already included in the base bid. N/A won't work.
- B. There are no Alternates included in the bid. Leave the alternates row blank in the bid form.
- C. The contractor shall not be responsible for moving any display pieces required for clear and unrestricted access to the work area.

4. PRE-BID QUESTIONS & ANSWERS

Questions posed during pre-bid meeting and answers provided.

Question: Is there a Hazardous Materials survey/report available on this project? There is a discrepancy between the plans and the specifications as to who will be responsible for any remediation/abatement.

Answer: Hazardous material report as well the Lead related activity specification section is provided with this addendum. The contractor will be responsible for removal of Lead paint as per the specification within the work area if needed.

Question: We will not be re-grading to blend new equipment pad into surrounding ground.

Answer: The surrounding ground around the new equipment pad will require blending into the existing conditions. Slight grading may be required.

Question: Please provide a joint detail between new equipment pad and wall or specify minimum separation.

Answer: The equipment pad shall be positioned within 6" of the building face. No joint will be required.

Question: A-100 Note 4: Confirm intent of painting/patching for electrical installation.

Answer: This will be a 3'x3' drywall cutout to allow new conduits to be installed in below panel D1. Contractor shall provide drywall patch, tape, mud and repaint to match existing.

Question: A-100 Note 1: Will the architect verify identified cracks prior to repairs, or will the repairs be an iterative process? Please quantify linear ft/total length of cracks to be repaired.

Answer: There are only a few significant cracks between grid B-H (about 90 linear feet). The contractors are advised to keep an allowance of \$3000 for the work to infill cracks with a minimum width of 1/16".

Question: A-100 Elevation Note 2: Can we replace the window instead of repairing the existing one?

Answer: The window shall not be replaced. The building is a Historic Building and falls under the State Department of Archaeology and Historic Preservation (DAHP). We need special approval to replace any window.

Question: Confirm weight rating of Elevator on the 2nd floor

Answer: The existing elevator inside the building will be open for use by the contractor.

Question: M1-002 General Note G: It calls out to install CO2 sensors. Please confirm what is provided by the existing system.

Answer: The existing system has economizers. This note and notes on M-101 and M-102 indicate adding CO2 sensors and controls to have a demand control ventilation scheme.

Question: Will we be required to provide a commissioning report of the existing system?

Answer: Commissioning is required for all systems modified by this project.

Question: Confirm existing fire alarm system and provide As-Builts. Is it the contractor's responsibility to provide fire alarm design?

Answer: The new CO2 sensors are to regulate airflow/ in-take only. They do not need to be monitored by the fire alarm. There is no fire alarm design requirement for this project.

Question: Will the existing ducts require cleaning?

Answer: The existing duct cleaning is not in the scope of this project.

Question: Spec Section 08 87 00/1.1 B: Refers to Spec Section 08 80 00 - Glazing for Related Requirements. Spec section 08 80 00 was not included, please provide section, or confirm that we will not be held to the referenced requirements.

Answer: There will be no related requirements pertaining to Section 08 80 00.

PROJECT MANUAL:

5. DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

A. Section 00110- TABLE OF CONTENT

- 1) **ADD** section number 003126 – Existing Hazardous Material Information
 - 2) **ADD** section number 003127 – Existing Hazardous Material Survey Report
 - 3) **ADD** section number 011110 – Summary of Hazardous Material Work
 - 4) **ADD** section number 028313 – Lead Related Activities
-

END ADDENDUM NO. 1

This Addendum is being distributed to all listed plan holders. Recipients are responsible for dissemination of this information to all affected sub-bidders, suppliers, etc.

Enclosures:

- 1) Pre-Bid walk through sign in sheet (1 pages)
- 2) Section 00110- TABLE OF CONTENT (3 pages)
- 3) Section 003126- EXISTING HAZARDOUS MATERIAL INFORMATION (1 pages)
- 4) Section 003127- EXISTING HAZARDOUS MATERIAL SURVEY REPORT (26 pages)
- 5) Section 011110- SUMMARY OF HAZARDOUS MATERIAL WORK (2 pages)
- 6) Section 028313- LEAD RELATED ACTIVITIES (4 pages)



906 Columbia Street SW, Suite 400
 Olympia, Washington 98501
 360.352.8883
 www.KMB-architects.com

Pre-Bid Walk-Through - Sign-In Sheet

Date/Time: 09/14/2023, 10:00 am
 Project: State Project No. 2022-618
 CM2 Roof Repair & Window Treatment
 State of Washington, Military Department
 Building 2, 2 Transportation Corp. Way, Camp Murray, WA 98430
 KMB Job. No.: 22073

Name	Company/Position	Phone	Email	General/Sub or Other?
Will Barry	Centennial/PM	253-377-5483	wbarry@cce-inc.com	GC
Paul Orth	JAMorris Const.	360-550-4434	paul@jamorrisconstruction.com	GC
Chris Whaley	Valley Electric	360 585 8656	Chrisw@val-electric.com	Sub
Zach Thomas	Construct Inc	360 236 8200	zach@constructinc.biz	GC
Bill Schmitzke	Capital Heating	360 234 8045	bill@capitalheatingandcooling.com	Mechanical
John Ware	5★	206-786-8278	johnw@fivestarmechanical.com	Sub
Dean Briegleb	Reliable Elec	360-796-5883	Deanb@reliable-electric.biz	Sub
Rick Zund	Cannon	253-691-1824	RZund@Teamcannon.com	Elec.
Jillian Coday	Air Systems Inc	855 657 9664	jillian@caseiws	Mech.
Tony Daleward	Centennial/PM	253 318 0057	adaleward@cce-inc.com	GC
SAMUEL DEER	Focus GM	509-284-3707	SamD@focusllc.com	Fire Alarm
GRAEG MONTA	PERCHAWER INST	360.806.1494	gmonta@perchawerinst.com	GC
Paige Paulston	Centennial		ppaulston@cce-inc.com	GC
Dee Boston	One Durr Inc	253 388 0435	Dee@oneDurrInc.com	Sub
Jennifer Kulliam	Pease Piping		Bids@peasepiping.com	GC
Barry Humphreys	LAYNE, INC.	206-741-8414	Barry.Humphreys@layne.com	Sub
Alan Francis	Set Window Film	360-273-8518	alan.francis@setwindowfilm.net	Sub

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END OF DOCUMENT 000110

DOCUMENT 003126

EXISTING HAZARDOUS MATERIAL INFORMATION

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

- A. This Document, with its referenced attachments, is part of Procurement and Contracting Requirements for Project. These referenced attachments provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. These referenced attachments are made available for Bidders' convenience and information, but are not a warranty of existing conditions. This Document and its referenced attachments are not part of the Contract Documents.
- B. Because conditions indicated by these reports are a sampling in relation to the entire construction area, and for other reasons, Owner, Architect, Architect's consultants, and the firm reporting hazardous material conditions do not warranty conditions not surveyed. Any party using information described in these reports shall accept full responsibility for its use.
- C. Bidders are encouraged to review available Project hazardous materials information prior to submitting a Bid, and to obtain additional information if Bidder desires.
- D. No consideration for extra payment will be given for conditions occurring that could have been anticipated from these reports. If conditions occur resulting in extra Work that could not have been anticipated or reasonably inferred from this information, Conditions of the Contract for changes in Work will apply.
- E. Existing asbestos report and lead report are available for viewing as appended to this Document.
- F. Existing Limited Hazardous Materials Survey report for Project, referenced as follows:
 - 1. Testing agency's project number: 41302.009
 - 2. Date of Report: August 22, 2023
 - 3. Asbestos report prepared by:

PBS Engineering and Environmental
214 East Galer Street, Suite 100.
Seattle, WA 98102
Telephone: 206.233.9639
Toll Free: 888.248.1939
Facsimile: 866.727.0140

END OF DOCUMENT 003126

DOCUMENT 003126

EXISTING HAZARDOUS MATERIAL INFORMATION

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Telephone: 206.233.9639
Toll Free: 888.248.1939
Facsimile: 866.727.0140

END OF DOCUMENT 003126

Limited Hazardous Materials Survey Report

Washington Military Department
Building 2 Roof Repair and Window Treatment
Building 2, Infantry Drive
Camp Murray, Washington 98430

Prepared for:
KMB Architects
906 Columbia Street SW Suite 400
Olympia, WA 98501

September 12, 2023
PBS Project 41302.008



214 EAST GALER STREET, SUITE 300
SEATTLE, WA 98102
206.233.9639 MAIN
866.727.0140 FAX
PBSUSA.COM

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APPENDIX A: PLM Bulk Sampling Information

PLM Bulk Sample Inventory
PLM Bulk Sample Laboratory Data Sheets
PLM Bulk Sample Chain of Custody Documentation

APPENDIX B: AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Sample Inventory
AA Lead Paint Chip Laboratory Data Sheets
AA Lead Paint Chip Chain of Custody Documentation

APPENDIX C: Certifications

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1 INTRODUCTION

1.1 Project Background

PBS Engineering and Environmental Inc. (PBS) performed a limited hazardous materials survey of Washington Military Department Building 2, at Infantry Drive in Camp Murray, Washington. The intent of this investigation is to ensure compliance with applicable regulatory requirements that a "good faith inspection" for asbestos-containing materials (ACMs) be performed prior to renovation activities.

The project scope consists of planned renovations including all windows, walls, and floors, as well as exterior cladding, roofing at the south addition, the concrete foundation wall, and the HVAC system at the mechanical room.

All accessible areas of the building included in the scope of work were inspected for the presence of ACMs and lead-containing paint (LCP).

1.2 Building Descriptions

Washington Military Department Building 2 is a two-story building with a basement floor used as a museum and storage space. Interior flooring finishes included in the scope of work consist of concrete, wood flooring, and carpet. Walls included in the scope consist of concrete and gypsum wallboard. Exterior finishes included in the scope consist of exterior stucco texture, wood framed windows. The south addition has metal siding. Roofing comprised of composition shingles and membrane roof systems.

1.3 Survey Process

Accessible areas included in the project scope were inspected by Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspectors Cameron Budnick (Cert No. IN-22-9630B Exp. 9/23/2023) and Ferman Fletcher (Cert. No. IR-23-8539B Exp. 4/6/2024) on September 5 and 8, 2023. PBS endeavored to inspect all accessible areas of the scope of work. Inaccessible areas consist of those requiring selective demolition, fall protection, or confined space entry protocols to gain access.

When observed, suspect materials were sampled. Thirty-seven (37) samples were assigned a unique identification number and transmitted for analysis to Seattle Asbestos Test (NVLAP 200768-0) in Lynnwood, Washington under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume.

PBS endeavored to determine the presence and estimate the condition of suspect materials in all inaccessible areas included in the scope of work. ACMs may be found in concealed locations; additional unidentified ACMs may exist.

2 FINDINGS

2.1 Asbestos-Containing Materials (ACMs)

Regulated asbestos-containing building materials are defined by EPA as containing greater than 1% asbestos.

- **No materials were found to contain asbestos by laboratory analysis as part of this investigation.**

The following materials were sampled and found **not** to contain detectable concentrations of asbestos as part of this investigation:

- Stucco texture – Throughout original exterior
- Gypsum wallboard and associated joint compound- Walls throughout building
- Wall texture on gypsum wallboard – Throughout basement
- Gray 12" ceramic floor tile, grout and yellow mastic – Janitors closet
- Multi-colored carpet and mastic – Throughout second floor
- Concrete – Walls and floor in basement and 1st floor
- 2'X4' lay-in ceiling tile double square pattern – 1st floor restroom vestibule
- 2'X4' lay-in ceiling tile gouge and pinhole pattern – Basement library storage 004
- 2'X4' lay-in ceiling tile wavy speckle – Basement hall 003
- Foam window pane sealant - Throughout
- Interior white window frame caulk – Throughout
- White window putty – Clerestory windows
- Composition shingles and vapor barrier – Upper roof
- Roofing membrane – South addition roof
- Membrane roof system – South addition roof

Refer to Appendix A for specific samples locations and associated laboratory analysis.

2.2 Lead-Containing Components

Eight (8) representative painted coatings were sampled for lead content. The samples were assigned unique identification numbers and transmitted to NVL Laboratories, Inc. (AIHA IH #101861) in Seattle, Washington under chain-of-custody protocols for analysis using Flame Atomic Absorption.

Lead **was detected** in the following painted coatings.

- Gray paint on concrete floor – Basement storage south of room 014 entry (2.2 % lead)
- White paint on stucco texture – East elevation, 2nd floor (0.17 % lead)
- White paint on wood window frame – South elevation, clerestory windows (8.1 % lead)

The following painted coatings were sampled and determined **not** to contain detectable lead:

- Gray paint on concrete ceiling – Basement storage 009, and hall 003
- Red paint on wood windowsill – East elevation second story window
- White paint on gypsum wallboard walls – Room 204
- Tan paint on metal siding – Southwest elevation on addition

Refer to Appendix B for specific sample locations and associated laboratory analysis.

3 RECOMMENDATIONS

3.1 Asbestos-Containing Materials (ACMs)

No asbestos-containing materials were found in the work scope area during this survey.

The possibility exist that suspect ACMs may be present/concealed in equipment, floor, wall and ceiling cavities, and in select areas of the ceiling included in the scope of renovations or in areas of the building

outside the scope of this survey. These may include but are not limited to ACM pipe insulation and hard-mudded fittings in wall cavities, chase areas and ceiling plenums, construction mastics and adhesives within wall/ceiling assemblies, mechanical insulation/components on ductwork and equipment, and/or weatherproofing/moisture barriers.

PBS recommends that any previously unidentified materials revealed during renovation activities be sampled for asbestos content prior to impact. If suspect ACMs is uncovered during construction, contractor should stop work immediately and inform the owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.

3.2 Lead-Containing Components

Representative painted coatings from the project locations were found to contain lead by laboratory analysis. Impact of painted surfaces with detectable concentrations of lead requires construction activities to be performed according to Washington Labor and Industries regulations for Lead in Construction (WAC 296-155-176). Workers impacting LCP should be provided the proper personal protective equipment and use proper work methods to limit occupational and environmental exposure to lead until an initial exposure assessment has been conducted.

Painted coatings may exist in inaccessible areas of the work area or in secondary coatings. Any previously unidentified painted coatings should be considered lead containing until sampled and proven otherwise.

Please do not hesitate to contact us if you have any questions regarding this report or require additional information.

Report prepared by:

Report reviewed by:

Cameron Budnick
AHERA Building Inspector
Cert No. IN-22-2930B Exp. 9-23-2023

Claire Tsai
Project Manager/AHERA Building Inspector
Cert. # IR-22-7316B Exp. 11/10/2023

APPENDIX A

PLM Bulk Sampling Information

PLM Bulk Sample Inventory

PLM Bulk Sample Laboratory Data Sheets

PLM Bulk Sample Chain of Custody Documentation

PLM ASBESTOS SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Material Type</u>	<u>Sample Location</u>	<u>Lab Description</u>	<u>Lab Result</u>	<u>Lab</u>
41302.008 -001	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -002	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -003	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -004	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -005	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -006	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray soft/elastic material Layer 2: Gray sandy/brittle material with paint	NAD NAD	SAT
41302.008 -007	Stucco texture	East elevation 2nd floor, south area	Layer 1: Gray soft/elastic material Layer 2: Gray sandy/brittle material with paint	NAD NAD	SAT
41302.008 -008	Joint compound	2nd floor southeast corner	Layer 1: White powdery material with paint and paper	NAD	SAT
41302.008 -009	Joint compound Gypsum wallboard	2nd floor east wall	Layer 1: White powdery material with paint Layer 2: White chalky material with paper Layer 3: White mastic	NAD NAD NAD	SAT
41302.008 -010	Joint compound Gypsum wallboard	2nd floor room 204 north wall	Layer 1: White powdery material with paint Layer 2: White chalky material with paper	NAD NAD	SAT
41302.008 -011	Joint compound Gypsum wallboard	Basement room 016	Layer 1: White powdery material with paint Layer 2: White chalky material with paper	NAD NAD	SAT

PLM ASBESTOS SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Material Type</u>	<u>Sample Location</u>	<u>Lab Description</u>	<u>Lab Result</u>	<u>Lab</u>
41302.008 -012	Joint compound Gypsum wallboard	Basement room 009	Layer 1: White powdery material with paint Layer 2: White chalky material with paper	NAD NAD	SAT
41302.008 -013	Wall texture overspray	Basement hall 006	Layer 1: Trace white powdery material with paper	NAD	SAT
41302.008 -014	Wall texture	Basement 016 north wall	Layer 1: Trace white powdery material with paper	NAD	SAT
41302.008 -015	Wall texture	Basement 016 north wall	Layer 1: Trace white powdery material with paint	NAD	SAT
41302.008 -016	Wall texture	Basement 016 north wall	Layer 1: White powdery material with paint	NAD	SAT
41302.008 -017	Wall texture	Basement storage 009 central wall	Layer 1: White powdery material with paint Layer 2: Trace white chalky material with paper	NAD NAD	SAT
41302.008 -018	Wall texture	Basement storage 009 elevator back	Layer 1: Trace white powdery material with paint Layer 2: Trace white chalky material with paper	NAD NAD	SAT
41302.008 -019	Wall texture	Basement storage 009 elevator back	Layer 1: White powdery material Layer 2: Trace white chalky material with paper	NAD NAD	SAT
41302.008 -020	Gray 12" ceramic floor tile Grout Yellow mastic	Janitors closet across from 102	Layer 1: Gray ceramic Layer 2: Gray brittle/sandy material Layer 3: Yellow mastic	NAD NAD NAD	SAT
41302.008 -021	Multi-colored carpet Mastic	2nd floor north end at open office	Layer 1: Multi-colored woven fibrous material Layer 2: Gray rubbery material Layer 3: Clear mastic	NAD NAD NAD	SAT
41302.008 -022	Concrete wall	Basement north of elevator	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -023	Concrete wall	Basement 014 north wall	Layer 1: Gray sandy/brittle material with paint	NAD	SAT
41302.008 -024	Concrete floor	1st floor at entrance to south addition	Layer 1: Gray sandy/brittle material Layer 2: Cream mastic	NAD NAD	SAT

PLM ASBESTOS SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Material Type</u>	<u>Sample Location</u>	<u>Lab Description</u>	<u>Lab Result</u>	<u>Lab</u>
41302.008 -025	2'X4' double square pattern lay-in-ceiling tile	1st floor restroom vestibule	Layer 1: Gray fibrous material with paint	NAD	SAT
41302.008 -026	2'X4' gouge and pinhole pattern lay-in ceiling tile	Basement library storage 004	Layer 1: Gray fibrous material with paint	NAD	SAT
41302.008 -027	2'X4' wavy speckle lay-in ceiling tile	Basement hall 003	Layer 1: Gray fibrous material with paint	NAD	SAT
41302.008 -028	Window pane foam sealant	Basement north wall north of elevators	Layer 1: Black foamy material Layer 2: Clear mastic Layer 3: Brown wood block with paint	NAD NAD NAD	SAT
41302.008 -029	Interior white window frame caulk	Basement 016 north window	Layer 1: White soft/elastic material	NAD	SAT
41302.008 -030	Interior white window frame caulk	2nd floor, east windows	Layer 1: White soft/elastic material	NAD	SAT
41302.008 -031	White window putty	West elevation, southmost windows	Layer 1: White soft material Layer 2: Brown wood block	NAD NAD	SAT
41302.008 -032	Off-white window frame caulk	West elevation, south	Layer 1: White soft/elastic material with paint	NAD	SAT
41302.008 -033	Gray window frame caulk	East elevation, 2nd floor windows	Layer 1: Gray soft/elastic material with paint	NAD	SAT
41302.008 -034	White window putty	Clerestory windows, south elevation	Layer 1: White soft/elastic material	NAD	SAT
41302.008 -035	Composition shingles Vapor barrier	Upper east roof, south pitch	Layer 1: Black asphaltic material with sand Layer 2: Black asphaltic material with sand	NAD NAD	SAT
41302.008 -036	Roof membrane	Addition roof	Layer 1: Off-white brittle material with woven fibrous material Layer 2: Gray soft/elastic material Layer 3: White soft/elastic material	NAD NAD NAD	SAT

PLM ASBESTOS SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Material Type</u>	<u>Sample Location</u>	<u>Lab Description</u>	<u>Lab Result</u>	<u>Lab</u>
41302.008 -037	Membrane roof system	Addition roof	Layer 1: Off-white brittle material with material Layer 2: White fibrous material Layer 3: Yellow foamy material Layer 4: White fibrous material	NAD NAD NAD NAD	SAT

SEATTLE ASBESTOS TEST, LLC

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Claire Tsai	Date Analyzed: 9/11/2023
Client: PBS Engineering and Environmental, Seattle	Client Job#: 41302.008
Address: 214 E Galer Street, Suite 300, Seattle, WA 98102	Project Location: Building 2 Roof Repair and Window Treatment
Tel: 206.233.9639	Laboratory batch#: 202213047
Date Report Issued: 9/11/2023	Samples Received: 37

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover letter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

SZhang

Steve (Fanyao) Zhang
Approved Signatory



202213047

LABORATORY CHAIN OF CUSTODY

Project: Building 2 Roof Repair and Window Treatment

Project #: 41302.008

Analysis requested: PLM

Date: 9/8/2023

Relinqu'd by/Signature: [Signature]

Date/Time: 9/8/23

Received by/Signature: [Signature]

Date/Time: 9/11/2023 9:00

Email ALL INVOICES to: seattleap@pbsusa.com

E-mail results to:

- Willem Mager
- Gregg Middaugh
- Mark Hiley
- Tim Ogden
- Ryan Hunter
- Mae Riley
- Janet Murphy
- Kaitlin Soukup
- Nick San
- Toan Nguyen
- Peter Stensland
- Claire Tsai
- Holly Tuttle
- Mike Smith
- Ferman Fletcher
- Cameron Budnick
- Kameron DeMonnin

TURN AROUND TIME:

- 1 Hour
- 2 Hours
- 4 Hours
- 24 Hours
- 48 Hours
- 3-5 Days
- Other _____

SAMPLE DATA FORM

Sample #	Material	Location	Lab
41302.008-01	Stucco texture	East elevation 2 nd floor, south area	SAT
-02	Stucco texture	East elevation, 2 nd floor south area	
-03	Stucco texture	East elevation, 2 nd floor north area	
-04	Stucco texture	East elevation, 2 nd floor north area	
-05	Stucco texture	East elevation, 2 nd floor central area	
-06	Stucco texture	East elevation, 2 nd floor central area	
-07	Stucco texture	East elevation 2 nd floor central area	
-08	Joint compound	2 nd floor southeast corner	
-09	Joint compound / gypsum wallboard	2 nd floor east wall	
-10	Joint compound / gypsum wallboard	2 nd floor room 204 north wall	
-11	Joint compound / gypsum wallboard	Basement room 016	
-12	Joint compound / gypsum wallboard	Basement room 009	
-13	Wall texture overspray	Basement hall 006	
-14	Wall texture	Basement 016 north wall	
-15	Wall texture	Basement 016 north wall	
-16	Wall texture	Basement 016 north wall	
-17	Wall texture	Basement storage 009 central wall	
-18	Wall texture	Basement storage 009 elevator back wall, east wall	

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
 [PLM] EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Attn.: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 41302.008

Batch#: 202213047


Date Received: 9/11/2023

Samples Rec'd: 37

Date Analyzed: 9/11/2023

Samples Analyzed: 37

Project Loc.: Building 2 Roof Repair and Window Treatment

Xingping Lin 



Analyzed by: Steve (Fanyao) Zhang

Approved Signatory: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	41302.008-01	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	4	Cellulose
2	41302.008-02	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
3	41302.008-03	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
4	41302.008-04	1	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose
5	41302.008-05	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
6	41302.008-06	1	Gray soft/elastic material		None detected	Binder, Filler	4	Cellulose
		2	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
7	41302.008-07	1	Gray soft/elastic material		None detected	Binder, Filler	4	Cellulose
		2	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
8	41302.008-08	1	White powdery material with paint and paper		None detected	Binder/filler, Paint	35	Cellulose
9	41302.008-09	1	White powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	25	Cellulose
		3	White mastic		None detected	Mastic/binder	4	Cellulose
10	41302.008-10	1	White powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	27	Cellulose, Glass fibers
11	41302.008-11	1	White powdery material with paint		None detected	Binder/filler, Paint	4	Cellulose
		2	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	26	Cellulose
12	41302.008-12	1	White powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
		2	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	23	Cellulose
13	41302.008-13	1	Trace white powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
14	41302.008-14	1	Trace white powdery material with paint		None detected	Binder/filler, Paint	4	Cellulose

SEATTLE ASBESTOS TEST

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ANALYTICAL LABORATORY REPORT

[PLM] EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
 [PLM] EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Attn.: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 41302.008

Batch#: 202213047

Date Received: 9/11/2023

Samples Rec'd: 37

Date Analyzed: 9/11/2023

Samples Analyzed: 37

Project Loc.: Building 2 Roof Repair and Window Treatment

Xingping Lin




Analyzed by: Steve (Fanyao) Zhang

Approved Signatory: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
15	41302.008-15	1	Trace white powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
16	41302.008-16	1	White powdery material with paint		None detected	Binder/filler, Paint	6	Cellulose
17	41302.008-17	1	White powdery material with paint		None detected	Binder/filler, Paint	5	Cellulose
		2	Trace white chalky material with paper		None detected	Binder/filler, Gypsum/binder	23	Cellulose
18	41302.008-18	1	Trace white powdery material with paint		None detected	Binder/filler, Paint	4	Cellulose
		2	Trace white chalky material with paper		None detected	Binder/filler, Gypsum/binder	21	Cellulose
19	41302.008-19	1	White powdery material		None detected	Filler, Binder	3	Cellulose
		2	Trace white chalky material with paper		None detected	Binder/filler, Gypsum/binder	22	Cellulose
20	41302.008-20	1	Gray ceramic		None detected	Ceramic/binder		None detected
		2	Gray brittle/sandy material		None detected	Binder, Sand	2	Cellulose
		3	Yellow mastic		None detected	Mastic/binder	3	Cellulose
21	41302.008-21	1	Multi-colored woven fibrous material		None detected	Filler, Binder	85	Synthetic fibers
		2	Gray rubbery material		None detected	Rubber/binder	2	Cellulose
		3	Clear mastic		None detected	Mastic/binder	3	Cellulose
22	41302.008-22	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	3	Cellulose
23	41302.008-23	1	Gray sandy/brittle material with paint		None detected	Sand, Filler, Binder, Paint	2	Cellulose
24	41302.008-24	1	Gray sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose
		2	Cream mastic		None detected	Mastic/binder	4	Cellulose
25	41302.008-25	1	Gray fibrous material with paint		None detected	Paint, Filler, Perlite	65	Cellulose
26	41302.008-26	1	Gray fibrous material with paint		None detected	Paint, Filler, Perlite	66	Cellulose
27	41302.008-27	1	Gray fibrous material with paint		None detected	Paint, Filler, Perlite	63	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
 [PLM] EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Attn.: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 41302.008

Batch#: 202213047

Date Received: 9/11/2023

Samples Rec'd: 37

Date Analyzed: 9/11/2023

Samples Analyzed: 37

Project Loc.: Building 2 Roof Repair and Window Treatment

Xingping Lin

S Zhang

Analyzed by: Steve (Fanyao) Zhang

Approved Signatory: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
28	41302.008-28	1	Black foamy material		None detected	Synthetic foam		None detected
		2	Clear mastic		None detected	Mastic/binder	4	Cellulose
		3	Brown wood block with paint		None detected	Wood aggregates, Paint	3	Cellulose
29	41302.008-29	1	White soft/elastic material		None detected	Binder, Filler	5	Cellulose
30	41302.008-30	1	White soft/elastic material		None detected	Binder, Filler	4	Cellulose
31	41302.008-31	1	White soft material		None detected	Binder, Filler	3	Cellulose
		2	Brown wood block		None detected	Wood aggregates	4	Cellulose
32	41302.008-32	1	Off-white soft/elastic material with paint		None detected	Binder, Filler, Paint	5	Cellulose
33	41302.008-33	1	Gray soft/elastic material with paint		None detected	Binder, Filler, Paint	4	Cellulose
34	41302.008-34	1	White soft/elastic material		None detected	Binder, Filler	3	Cellulose
35	41302.008-35	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	27	Glass fibers, Cellulose
		2	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	25	Glass fibers
36	41302.008-36	1	Off-white brittle material with woven fibrous material		None detected	Filler, Binder	17	Glass fibers, Cellulose
		2	Gray soft/elastic material		None detected	Binder, Filler	4	Cellulose
		3	White soft/elastic material		None detected	Binder, Filler	5	Cellulose
37	41302.008-37	1	Off-white brittle material with material		None detected	Filler, Binder	13	Glass fibers, Cellulose
		2	White fibrous material		None detected	Binder/filler	65	Cellulose
		3	Yellow foamy material		None detected	Synthetic foam		None detected
		4	White fibrous material		None detected	Binder/filler	63	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples;
 [PLM] EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Attn.: Claire Tsai

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 41302.008

Batch#: 202213047

Date Received: 9/11/2023

Samples Rec'd: 37

Date Analyzed: 9/11/2023

Samples Analyzed: 37

Project Loc.: Building 2 Roof Repair and Window Treatment

Xingping Lin



S Zhang

Analyzed by: Steve (Fanyao) Zhang

Approved Signatory: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
37	41302.008-37	5	White/blue soft/elastic material with woven fibrous material		None detected	Binder, Filler	20	Synthetic fibers
		6	Clear mastic		None detected	Mastic/binder	3	Cellulose
		7	Black fibrous material		None detected	Binder/filler	71	Cellulose
		8	Yellow foamy material		None detected	Synthetic foam		None detected
		9	Black fibrous material		None detected	Binder/filler	69	Cellulose

APPENDIX B

AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Sample Inventory

AA Lead Paint Chip Laboratory Data Sheets

AA Lead Paint Chip Chain of Custody Documentation

AA LEAD PAINT CHIP SAMPLE INVENTORY

<u>PBS Sample #</u>	<u>Paint Color / Component or Substrate</u>	<u>Sample Location</u>	<u>Results (mg/kg)</u>	<u>Results (%)</u>	<u>Lab</u>
41302.008 -PB01	Gray / concrete / ceiling	Basement storage, 009	<62	<0.0062	NVL
41302.008 -PB02	Gray / concrete / ceiling	Basement hall, 003	<140	<0.014	NVL
41302.008 -PB03	Gray / concrete / floor	Basement south of room 014 entry	22,000	2.2	NVL
41302.008 -PB04	Red / wood / windowsill	East elevation, second story window's	<48	<0.0048	NVL
41302.008 -PB05	White / gypsum wallboard / wall	2nd floor room 204	<89	<0.0089	NVL
41302.008 -PB06	White / stucco / exterior walls	East elevation, 2nd floor	1,700	0.17	NVL
41302.008 -PB07	White / wood / window frame	South elevation, clerestory windows	81,000	8.1	NVL
41302.008 -PB08	Tan / metal / siding	Southwest elevation on addition	<180	<0.018	NVL

September 11, 2023

Claire Tsai

PBS Environmental - Seattle

214 E Galer St. Suite. 300

Seattle, WA 98102



NVL Batch # 2314426.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 41302.008

Location: Roof Repair and Window Treatment Building 2

Dear Ms. Tsai,

NVL Labs received 8 sample(s) for the said project on 9/11/2023. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise.

Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Manager Metals Lab

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)



Client: PBS Environmental - Seattle
Address: 214 E Galer St. Suite. 300
Seattle, WA 98102

Batch #: 2314426.00

Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 41302.008
Date Received: 9/11/2023
Samples Received: 8
Samples Analyzed: 8

Attention: Ms. Claire Tsai

Project Location: Roof Repair and Window Treatment Building 2

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
23087874	41302.008-Pb01	0.1613	62	< 62	<0.0062
23087875	41302.008-Pb02	0.0352	140	< 140	<0.014
23087876	41302.008-Pb03	0.1031	97	22000	2.2
23087877	41302.008-Pb04	0.2067	48	< 48	<0.0048
23087878	41302.008-Pb05	0.1121	89	< 89	<0.0089
23087879	41302.008-Pb06	0.2165	46	1700	0.17
23087880	41302.008-Pb07	0.2171	46	81000	8.1
23087881	41302.008-Pb08	0.0275	180	< 180	<0.018

Comments: Small sample size (<0.05g) for 41302.008-Pb02 and -Pb08.

Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 09/11/2023

Date Issued: 09/11/2023


Shalini Patel, Manager Metals Lab

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2023-0911-07

FAA-02

LEAD LABORATORY SERVICES



Company PBS Environmental - Seattle	NVL Batch Number 2314426.00
Address 214 E Galer St. Suite. 300 Seattle, WA 98102	TAT 1 Day AH No
Project Manager Ms. Claire Tsai	Rush TAT
Phone (206) 233-9639	Due Date 9/12/2023 Time 8:00 AM
	Email claire.tsai@pbsusa.com
	Fax (866) 727-0140

Project Name/Number: 41302.008 **Project Location:** Roof Repair and Window Treatment Building 2

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 8 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	23087874	41302.008-Pb01	A
2	23087875	41302.008-Pb02	A
3	23087876	41302.008-Pb03	A
4	23087877	41302.008-Pb04	A
5	23087878	41302.008-Pb05	A
6	23087879	41302.008-Pb06	A
7	23087880	41302.008-Pb07	A
8	23087881	41302.008-Pb08	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Drop Box				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	9/11/23	800
Analyzed by	Yasuyuki Hida		NVL	9/11/23	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 9/11/2023
 Time: 8:08 AM
 Entered By: Kelly AuVu

APPENDIX C

PBS Inspector Certifications

THIS IS TO CERTIFY THAT

CAMERON BUDNICK
HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

CCB #SRA0615 4-Hr Training

4-Hour AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 09/23/2023



Course Date: 09/23/2022
Course Location: Online
Certificate: IR-22-9630B

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.

A handwritten signature in black ink, which appears to read 'Andy Fridley', is written over a horizontal line.

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT

FERMAN L FLETCHER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

CCB #SRA0615 4-Hr Training

4-Hour AHERA Inspector Refresher
Training; AHERA is the Asbestos Hazard
Emergency Response Act enacting Title II
of Toxic Substance Control Act (TSCA)

Expiration Date: 04/06/2024



Course Date: 04/06/2023

Course Location: Online,

Certificate: IR-23-8539B

For verification of the authenticity of this
certificate contact:
PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239

A handwritten signature in black ink that reads "Andy Fridley".

Andy Fridley, Instructor

SECTION 011110

SUMMARY OF HAZARDOUS MATERIALS WORK

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Disturbance of asbestos-containing materials (ACMs) is not anticipated as part of the Building 2 Roof Repair and Window Treatment Project. See below for additional information and requirements.
- B. Lead-containing Items: The Owner has conducted a survey of lead-containing items in the areas to be impacted by the Work. Samples of representative paint coatings to be impacted by the project were found to contain detectable lead. Survey samples and results are included in the attached Limited Hazardous Materials Survey Report.

1.2 RELATED WORK

- A. Work performed under this specification section is governed by related specification sections, plans or drawings, including but not limited to, the following:
Division 02: Existing Conditions, Section 02 83 13, Lead-Related Activities

1.3 GENERAL REQUIREMENTS

- A. SUPERVISORY AUTHORITY: The General Contractor is to avail themselves of all responsibilities under applicable regulations related to their supervisory authority over subcontractors and personnel performing work related to hazardous materials.
- B. ACCESS RESTRICTIONS: Work described in this Section includes restriction of work areas during hazardous materials activities. Access to various work areas by the general public, general trades, and other individuals will not be possible during certain hazardous materials work sequences, as specified herein and elsewhere. General Contractor is to coordinate the Work to facilitate access by subcontractors while enforcing work area restriction, and to minimize disruption to building occupants and services.
- C. EMERGENCY CONTACTS: Designate qualified representatives of the General Contractor and specific hazardous materials subcontractors who are to be available on a 24-hour emergency basis for the duration of the Work. Provide contact information to the Owner's Representative for inclusion in the project emergency contact list.
- D. ASBESTOS PRODUCTS: Contractor shall ensure that no asbestos products in any form are incorporated into the Work.

1.4 ASBESTOS

- A. Asbestos-related impacts are not anticipated as part of the Work.
- B. The Contractor shall refer to the Limited Hazardous Materials Survey Report. This document lists suspect asbestos-containing materials (ACM) sampled and analyzed for asbestos content, or presumed, at the areas of the buildings included in the Work. The Contractor shall ensure that copies of this information are made available to and retained on the project site by all subcontractors.
- C. The Contractor shall be aware that suspect-ACM may exist in inaccessible locations of the spaces included in the Work, and in areas of the buildings not included in the Work. The Contractor shall proceed with caution during all phases of the Work. Should any suspect-ACM not indicated in the Limited Hazardous Materials Survey Report be encountered, the Contractor shall immediately notify the Owner's Representative.

- D. The Contractor is advised that, should suspect ACM not included in the Limited Hazardous Materials Survey Report be encountered, the Owner may elect to include the abatement of such materials in the Work at a mutually agreed upon price. Work impacting such materials is not to occur prior to the Contractor receiving explicit written authorization from the Owner, and any Work performed without such approval is performed at the Contractor's own risk and expense.

1.5 LEAD-CONTAINING PAINT

- A. Lead-containing Items: The Owner has conducted a survey of lead-containing items in the area to be impacted by the Work. Survey samples and results are included in the Limited Hazardous Material Survey Report.
- B. Consider all items similar to those testing positive for lead to be lead-containing. Consider any painted coatings that have not been tested to be lead-containing.
- C. Perform all work impacting lead-containing paint in accordance with specification Section 028313. The Contractor shall comply with all applicable regulations, laws and ordinances concerning removal, remodeling, cutting, handling, storage, disposal, monitoring and protection against exposure or environmental pollution. Work related to lead-containing paint and lead-containing components within this contract is the responsibility of the General Contractor, in addition to all affected Subcontractors, and shall be performed in accordance with all applicable local, state, and federal regulations.

1.6 EXISTING CONDITIONS

- A. The Environmental Consultant and Owner make no representation, warranty, or guarantee the conditions indicated by the test report or inspection summary are representative of those conditions existing throughout the area, or that unforeseen developments may not occur, or that materials other than, or in proportions different from those indicated, may not exist.
- B. Contractor is advised that the locations of all suspect-ACMs may not be clearly known, and that care should be taken to prevent impact of ACMs located in concealed and inaccessible locations.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 011110

SECTION 028313
LEAD-RELATED ACTIVITIES

PART 1 - GENERAL

1.1 SUMMARY OF WORK

- A. General work items include, but are not limited to:
1. Compliance: Activities requiring compliance with this Section include the impact of painted coatings and/or building components (such as lead vent pipes, lead gutters, or painted coatings) containing lead as defined in these Specifications. Impacts are anticipated to include, but are not limited to: manual demolition, mechanical demolition, cutting, sawing, drilling, sanding, surface preparation and scrapping, welding or torch-cutting and incidental impact to painted items.
 2. Handling: Conduct activities involving lead-containing paint and lead-containing components under Work of this Contract in accordance with this Section and current applicable state and federal regulations including WAC 296-62-07521: "Lead"; WAC 296-155-176: "Occupational Health and Environmental Control"; 29 CFR 1926.62: "Lead Exposure in Construction - Interim Final Rule"; and 40 CFR 745: "Lead; Requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities; Final Rule".
 3. Waste Disposal: Disposal of demolition debris as "dangerous" according to WAC 173-303 is not included in the Work. It is anticipated that waste produced by demolition activities will not require disposal as "dangerous" related to lead.
 4. Monitoring: Monitoring of airborne concentrations of lead in accordance with WAC 296-155-176 and this Section. The intent of this Section is to reduce and maintain employee exposure to lead and surrounding environmental airborne concentrations at or below the permissible exposure limit.

1.2 RELATED SECTIONS

- A. Work performed under this specification section is governed by related specification sections, plans or drawings, including but not limited to, the following:
- Division 00 – Procurement and Contracting Requirements
 - Division 01 – General Requirements
 - Division 02 – Existing Conditions

1.3 SUBMITTALS

- A. Submit the following "Pre-Work Submittals" prior to start of work. The Work may not proceed until complete Pre-Work Submittal package has been reviewed and approved by the Owner Representative. Allow fifteen (15) days for Owner review.
1. Lead Compliance Program: Submit a site-specific lead compliance program in accordance with WAC Chapter 296-155. The plan shall be developed and implemented to provide engineering, work practice and administrative controls to reduce and maintain employee exposure to lead at or below the permissible exposure limit. The plan will include at a minimum task-specific description of engineering controls; personnel; procedures; methods of compliance; air monitoring plan; detailed schedule; work practice program; administrative controls and other relevant information.
 - a. Implementation of work practices not described in the Lead Compliance Plan will not be permitted until an amendment to the submittal is reviewed by the Owner Representative.
 2. Medical Program: Submit written proof medical exam program complies with OSHA Lead Regulations 29 CFR 1910.2 and 1926.62, and WAC Chapter 296-155. Initial medical

surveillance consisting of biological monitoring in the form of blood sampling and analysis for lead and zinc protoporphyrin levels shall be submitted for each employee occupationally exposed to lead at or above the action level.

3. Worker Training Program: Submit written proof indicating that all employees impacting lead-containing materials have received training per 29 CFR 1926.62 and WAC Chapter 296-155. Proof shall include a signature from the Contractor's Principal indicating that all employees performing lead related activities have completed such a program.
4. Respirator Program: Submit written proof indicating respirator program complies with OSHA Lead Regulations 29 CFR 1910.134 and 1926.62, and WAC Chapter 296-155.

B. Final Submittals:

1. Project Record Documents: Provide record of lead control activities including disposition of each type of lead-containing item removed from the site.
2. Air Monitoring: Submit copies of all air monitoring data (including sample data sheets), chain-of-custody documentation and calibration records related to the initial exposure assessment for workers impacting lead-containing materials.
3. Disposal: Submit completed disposal manifests and bills-of-lading for any waste disposed of as "dangerous" per WAC 173-303, or any items recycled as lead.

1.4 AIR MONITORING

- A. Testing Laboratory: An Independent Testing Laboratory shall be retained by the Contractor for all lead air analysis. All exposure monitoring analysis shall be performed in accordance with 29 CFR Part 1926.62 and WAC Chapter 296-155. The laboratory must participate in the ELPAT Program and be a member of AIHA. Air sample collection may be performed by an Industrial Hygienist or the Contractor's trained supervisor at the Contractor's option.
- B. Sample Documentation: Documentation shall be kept for each filter sample procured as to worker sampled, social security number, activity, work area location, date and time taken, volume of air drawn through filter, pump identification number and calibration. Documentation shall indicate in what areas tests were taken and shall clearly indicate the specified maximum allowable levels for each area tested. Report all data. Complete laboratory chain of custody records.
- C. Analysis Procedures: The samples shall be collected on 37 mm filters and analyzed within 24 hours using NIOSH Analytical Method No. 7105 or 7082. The containers shall be clearly labeled with project name and Sample Number and shall become property of the Owner at work completion at the Owner's request.
- D. Contractor's Sampling During Lead-Related Activities:
 1. Initial exposure: Exposure monitoring shall be performed by the Contractor during impact of representative lead-painted building components and metals-containing masonry mortar as required by WISHA regulations. It is the responsibility of the Contractor to determine potential exposures during the Work and provide exposure monitoring as needed.
 2. Most Contaminated Worker: The Contractor shall determine which worker(s) in each work area is probably experiencing the most severe exposure. This is the "Most Contaminated Worker(s)". An 8-hour TWA samples shall be collected on this worker(s). Worker shall wear a personal sampling pump and the sample shall be drawn from the breathing zone of this worker.
 3. Number of samples: The number of air samples collected shall be as defined in the approved Lead Compliance Program. Historical measurements per WAC 296-155 may be used to satisfy continuing exposure assessment requirements.
- E. Work Area Monitoring
 1. Monitoring: The Owner reserves the right to monitor Contractor's performance via air, dust wipe and TCLP samples during lead related activities, in addition to the Contractor's

exposure monitoring and testing. Sampling by the Owner will not be available for use as the Contractor's Initial Exposure Assessment.

2. Quality Control

- a. Maximum allowable airborne concentrations: Contractor shall ensure that at all times airborne concentrations of metals outside work areas are at or below the applicable employee's respiratory exposure limits for metals impacted by the Work as defined by WISHA and other applicable regulations.
- b. Immediately upon being notified of concentrations exceeding the specified maximum allowable levels, the Contractor shall perform the following steps in the order presented, at no additional cost to the Owner: Stop lead/metals related activities work, identify source of high lead concentrations, develop plan with Owner Representative to complete lead related activities in a manner to prevent visible emissions and elevated lead levels.

1.5 SUBCONTRACTORS

- A. Subcontractors employed by the Contractor shall be bound to all the work and safety standards specified. Subcontractor's personnel shall meet requirements as specified and shall be supervised by the Contractor during performance of this work.

1.6 LIABILITY

- A. The Contractor is an independent contractor and not an employee of the Owner, Architect or Environmental Consultant. The Owner and the Environmental Consultant shall have no liability to the Contractor or any third persons for Contractor's failure to faithfully perform and follow the provisions of these Specifications and the requirements of the governing agencies. Notwithstanding the failure of the Owner or the Environmental Consultant to discover a violation by the Contractor of any of the provisions of these Specifications, or to require the Contractor to fully perform and follow any of them, such failure shall not constitute a waiver of any of the requirements of these Specifications which shall remain fully binding upon the Contractor.

PART 2 - PRODUCTS

2.1 PROTECTIVE CLOTHING AND EQUIPMENT

- A. Personnel Protective Equipment and materials for metals-related activities shall be provided per WAC 296-155.

PART 3 - EXECUTION

3.1 WORK PRACTICES

- A. Activities with the potential for visible emissions, including, but not limited to: dry saw-cutting, roto-hammering, scraping, power sanding, grinding, sand-blasting, etc. shall be performed with all applicable worker protection and environmental controls in place pending review of the Contractor's Negative Exposure Assessment by the Owner Representative and the Owner. Negative Pressure Enclosures are not specifically required should general dust control measures prevent migration of debris from work areas.
- B. Housekeeping: Maintain all surfaces as free as practicable of accumulations of metals-containing debris, residue or slurry, and perform clean-up of work areas as necessary according to applicable regulations, including WAC 296-155-17617. Ensure prompt cleanup of any dust, debris or runoff from impacts to masonry mortar using wet-wiping and HEPA-vacuuming, or other method described in the "Pre-Work Submittals".

- C. Environmental Controls: It is the responsibility of the Contractor to prevent distribution of airborne or settled dust/debris beyond the immediate work zone.
- D. Methods to achieve compliance are to be implemented as described in the "Pre-Work Submittals" outlined under Item 1.3-A-1.
- E. Work Practices: Perform work impacting lead-containing painted coatings, lead components or masonry mortar in accordance with the methods outlined in the lead compliance plan. Use procedures and equipment required to limit occupational and environmental exposure to lead when lead-containing paint is impacted. The procedures employed by the Contractor shall not create the potential for contaminating surrounding areas or materials with lead-containing dust. Dust generation shall be minimized at all times.

3.2 DISPOSAL PROCEDURES

- A. Contractor is to perform waste characterization of the anticipated general waste stream as necessary to facilitate disposal of waste according to all applicable local, state and federal regulations and codes.
- B. Provide results of any such characterization, along with a volumetric breakdown of the waste stream constituents included in the sample analyzed, to the Owner upon receipt from analytical laboratory.
- C. The Owner reserves the right to perform quality control waste stream characterization at their sole discretion. In the event of conflicting test data obtained by the Contractor and Owner, the Owner's test data will take precedence. Allow 48 hours for quality control sampling and analysis by the Owner at their sole discretion prior to transporting waste.
- D. Package, transport, and dispose of demolished components as "dangerous" waste per WAC 173-303 as required by waste characterization data. Disposal of demolition debris as "dangerous" per WAC 173-303 related to lead is limited to disposal facilities pre-approved by the Owner.
 - 1. The Contractor is responsible for the proper handling, transportation and disposal of any dangerous waste generated by elective segregation of waste constituents, or by disposal of painted coatings comingled with asbestos-containing materials, at no cost to the Owner.

END OF SECTION 028313