HAZARDOUS MATERIALS SURVEY REPORT

WILLAMETTE FALLS RIVERWALK, PHASE 1—OREGON CITY, OREGON

Prepared for
METRO REGIONAL GOVERNMENT
April 25, 2018
Project No. 0075.06.02

Prepared by
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MAUL FOSTER ALONGI

The material and data in this report were prepared under the supervision and direction of the undersigned.

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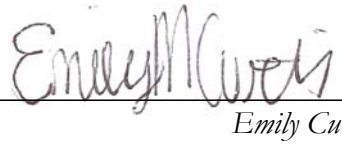

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ACRONYMS AND ABBREVIATIONS

ACM	asbestos-containing material(s)
AHERA	Asbestos Hazard Emergency Act
CFR	Code of Federal Regulations
FSDS	field sampling data sheet
LBP	lead-based paint
Metro	Metro Regional Government
MFA	Maul Foster & Alongi, Inc.
NVLAP	National Voluntary Laboratory Accreditation Program
PCB	polychlorinated biphenyl
PLM	polarized light microscopy
site	Willamette Falls Legacy Project site in Oregon City, Oregon
TSI	thermal system insulation
USEPA	U.S. Environmental Protection Agency
XRF	X-ray fluorescence

This summary is not intended as a stand-alone document and must be evaluated in context with the entire document.

On behalf of Metro Regional Government (Metro), Maul Foster & Alongi, Inc. (MFA) conducted a hazardous building assessment at approximately 21 buildings/areas at the Willamette Falls Legacy Project site in Oregon City, Oregon (the site). The scope of the survey includes buildings / areas that Metro has identified as being part of the adaptive reuse of the property. The purpose of the survey was to identify building materials that may require special handling and/or disposal during demolition or construction activities.

The survey included assessment of painted surfaces for the presence of lead-based paint (LBP), collection of samples to assess the presence of asbestos-containing materials (ACM), and tracking of other potentially hazardous materials that may require abatement and/or management in the future. The following regulated building materials were identified during the survey:

Regulated Material	General Description[1]	Estimated Quantity[2]
Asbestos	Asphaltic roofing	7,000 square feet
	Transite siding and roofing	77,200 square feet
	Boilers	10,350 square feet
	Hard joints and thermal system insulation	80 linear feet
	Roof-penetration sealant	20 square feet
Lead-containing paint	Exterior and interior painted surfaces	Access along Main Street exterior—6,400 square feet
		High-Density Stock Cylinder exterior—10,000 square feet
		Paper Mill #1 Basement interior and exterior—10,000 square feet
		Pipe Shop interior and exterior—4,000 square feet
		Power Station interior and exterior—9,000 square feet
		Third Street Covered Areas exterior—3,000 square feet
		Woolen Mill Foundations interior and exterior—8,000 square feet
		Auto Shop interior—3,000 square feet
		Butler Building interior—6,400 square feet
		Boiler Plant interior—19,200 square feet

Regulated Material	General Description[1]	Estimated Quantity[2]
		Carpentry Shop interior—15,000 square feet
		Mill H Reject interior—40,000 square feet
		Mill H interior—10,800 square feet
		Millwright Shop interior—6,000 square feet
		Pump Station interior—1,000 square feet
		Recovery Boilers interior—8,000 square feet
		Stock Cylinder #1 interior—10,000 square feet
Potentially polychlorinated-biphenyl-containing fixtures	Lightbulbs/fixtures	Ninety-eight bulbs/fixtures plus additional loose bulbs—Pipe Shop, Millwright Shop, Carpentry Shop, Recovery Boiler, Boiler Plant, Power Station, Mill H, and Mill H Reject
	Electrical panels/boxes	Six panels/boxes—Pipe Shop, Auto Shop, and Power Station
	Electrical switch boxes	Ten boxes—Pipe Shop and Recovery Boiler
	Transformer	1 transformer—Power Station
Potentially mercury-containing fixtures	Thermostats	Three thermostats—Millwright Shop and Boiler Plant
	Mercury switches	Two switches—Pipe Shop
Miscellaneous items[3]	Sodium light fixtures	Twelve fixtures—Pipe Shop and Butler Building
	Poly tanks	Five tanks—Millwright Shop and Recovery Boiler
	Miscellaneous totes, drums, and buckets	Five totes, 44 drums, and several buckets—Carpentry Shop, Pipe Shop, Auto Shop, and Power Station
	Storage tanks	Two tanks—Mill H
	Man lift motors	Two motors—Boiler Plant and Mill H Reject
	Petroleum-coated columns	Throughout—PM1 Basement

NOTES:
[1]Detailed descriptions are provided in the main report.
[2]Detailed quantities and locations are provided in the main report.
[3]Detailed information and additional miscellaneous items are provided in the main report.

1 INTRODUCTION

On behalf of Metro Regional Government (Metro), Maul Foster & Alongi, Inc. (MFA) conducted a hazardous building assessment at 21 buildings/areas at the Willamette Falls Legacy Project site (the site) in Oregon City, Oregon. MFA conducted the survey in November and December 2017. Site features and building locations are provided in Figure 1-1.

The assessment was limited to the buildings/areas that Metro had identified as being part of the site's reuse. The assessment included the use of a portable X-ray fluorescence (XRF) device to screen materials for the presence of lead-based paint (LBP); sampling and analysis of suspected asbestos-containing materials (ACM); and visual inspection and tracking of suspected polychlorinated biphenyl (PCB)-containing fixtures, mercury-containing fixtures, and other potentially hazardous materials. The project was funded through a U.S. Environmental Protection Agency (USEPA) Brownfields Assessment grant provided to Metro.

The survey was conducted by certified Asbestos Hazard Emergency Act (AHERA) building inspectors Kyle Roslund and Emily Curtis of MFA. AHERA building inspector certificates are provided in Appendix A.

1.1 Material Survey Objective

The objective of this survey was to identify building materials and components that may require abatement, special handling, or disposal during future demolition or construction activities.

1.2 Regulatory Framework

This investigation conforms with Metro's programmatic quality assurance project plan (MFA, 2017a) and subsequent hazardous building material investigation work plan (MFA, 2018). Additionally, this survey was conducted consistent with regulatory requirements of AHERA in 40 Code of Federal Regulations (CFR) 763; Oregon Administrative Rules 340, Division 248; and Oregon Occupational Safety and Health Administration regulations pertaining to air quality during construction activities.

2 BACKGROUND

2.1 Site Description

The site is located in the Oregon City business area near downtown Oregon City. The site is bound by the Willamette River to the west-northwest, Oregon City's business district to the northeast, and a railroad line and McLoughlin Boulevard to the south and southeast. The site consists of an

approximately 23-acre parcel of land. The Blue Heron paper mill, which was once located at the site, ceased operations in 2011.

Present at the site are approximately 55 structures associated with the former paper-manufacturing operations. Structures include process and storage buildings, a boiler plant, various maintenance shops, and offices. Much of the site is paved with concrete or asphalt for parking and walkways and is capped by existing structures.

The site is relatively flat, with a topographic gradient to the west-northwest toward the Willamette River. The site is underlain by basalt bedrock with areas of historical grading and filling. Groundwater is believed to be relatively shallow with an inferred flow to the northwest, based on the local topography and an adjacent surface water body.

The site is currently vacant; however, Portland General Electric maintains some infrastructure at the site for power generation.

2.2 Site History

The Blue Heron paper mill was a paper-manufacturing facility in operation from the early 1900s to 2011. Significant process operations carried out at the site included paper and pulp manufacturing, pulp bleaching, steam plant operations, wastewater handling, and stormwater management. Some equipment and materials have been removed and salvaged.

3 FIELD AND ANALYTICAL METHODS

On November 27 and 29 and December 4 through 6, 2017, MFA conducted the field sampling and survey. The building-material survey was conducted to satisfy federal, state, and local air quality regulations regarding communicating the location, amount, and quality of known ACM and LBP at the site as well as to catalogue other potentially hazardous fixtures to be managed before renovation, construction, or demolition. The scope of work included the following:

- Collection of bulk samples of suspected ACM in accordance with Oregon Department of Environmental Quality guidelines for building surveys related to demolition or renovation, based on the materials identified in the focused hazardous building material survey completed by MFA in 2017 (MFA, 2017b).
- Use of a portable XRF device to field screen painted surfaces for the presence of lead in surface paint.
- Collection of paint chip samples.
- Submission of suspected ACM bulk samples and paint chip samples to a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). Suspected ACM samples were analyzed by polarized light microscopy (PLM).

- Recording the location, quantity, and quality of homogeneous areas identified on the floor of each building as well as the roof of the Mill H Reject building and the exteriors of all buildings.
- Preparation of this report to summarize findings.

The survey involved the visual inspection of the interior and exterior of the designated buildings/areas. Structural concerns with the Carpentry Shop limited assessment to the exterior, the first floor, and the entryway to the second floor from the Mill O building.

3.1 Asbestos-Containing Material

MFA's survey of suspected ACM at the site in the designated buildings/areas included collecting bulk samples of thermal system insulation (TSI), surfacing materials, and miscellaneous materials from homogeneous areas, in accordance with AHERA sampling protocol.

Sample locations were chosen by the inspectors, based on identification of suspected ACM and ability to access certain portions of the buildings. See Figures 3-1 through 3-21 for a description of the sampling locations.

Samples were extracted using hand tools and placed into labeled sample bags. For layered building material, the layers were penetrated and incorporated into each sample. Samples were sent to NVL Laboratories, Inc., an NVLAP laboratory, for analysis by USEPA PLM Method 600/R-93-116.

3.2 Lead-Based Paint

MFA conducted a survey for interior and exterior paint coatings of the designated buildings/areas, including XRF readings of each color and/or layer identified. The portable XRF unit used was a Niton XL3T analyzer with a reported accuracy range from 0.1 to 5 milligrams of lead per square centimeter. Generally, if a painted surface has a detectable result for lead, it is considered lead-containing. LBP is quantified as paint containing lead concentrations of over 5,000 parts per million (greater than 0.5 percent) as defined by the USEPA (40 CFR 745) and the Oregon Health Authority.

For quality assurance, approximately 5 percent of the representative paint chip samples collected by XRF were submitted for analysis. The identification of LBP summarized in this report is based on XRF results and confirmation paint chip samples collected from the buildings. Paint that was observed generally in the same homogeneous areas as paint in testing locations and having color similar to the tested paint was assumed to be representative of the test result of that color.

Sampling locations were chosen by the inspectors based on identification of painted surfaces and ability to access certain portions of the buildings. See Figures 3-1 through 3-21 for sampling locations.

XRF readings were recorded on the field sampling data sheets (FSDSs) as positive or negative. Paint chip samples were placed in labeled sample bags and sent to NVL Laboratories, Inc., for analysis by USEPA Method 3051/7000B.

3.3 Mercury, Polychlorinated Biphenyls, and Other Materials

MFA conducted a visual survey to identify fixtures that may contain mercury or PCBs. MFA also noted the presence of other potentially hazardous materials, such as containers with residual hazardous chemicals. Items were tracked on the FSDSs provided in Appendix B and are summarized in Table 3-1.

4 ASSESSMENT RESULTS

4.1 Asbestos-Containing Material

Sample locations are provided in Figures 3-1 through 3-21, and sample results are summarized in Table 4-1. Laboratory reports are provided in Appendix C.

Three of the 58 samples analyzed contained more than 1 percent asbestos. Some unsampled materials such as transite siding and boiler insulation were assumed to contain asbestos. ACM includes the following:

- Asphaltic roofing on the roof of the Mill H Reject building
- Transite siding and roofing found in the Recovery Boiler building, Boiler Plant, buildings accessed along Main Street (Sulfate Plant, Number 4 Paper Mill, and Mill D warehouse), Power Station, Mill H, and Mill H Reject building
- Boilers inside the Recovery Boiler building and the Boiler Plant
- Hard joints and TSI in the Third Street Covered Areas
- Roof-penetration sealant on Stock Cylinder #1

4.2 Lead

XRF measurement locations and paint chip sample locations are provided in Figures 3-1 through 3-21. Paint chip sample results are summarized in Table 4-2 and laboratory reports are provided in Appendix C.

Generally, lead was detected in most painted surfaces in the pipe shop, millwright shop, carpentry shop, auto shop, pump station, recovery boilers, boiler plant, woolen mill foundations, third street covered areas, access along Main Street, power station, stock cylinder #1, butler building, mill H, high-density stock cylinder #2, mill H reject, and paper mill #1; however, there were detectable levels of lead below the USEPA regulated definition of LBP. Areas of the site with lead content above the USEPA definition for LBP include portions of the interiors of the millwright shop, carpentry shop, recovery boilers, boiler plant, power station, butler building, mill H, and mill H reject; and portions of the exteriors of the woolen mill foundations, Third Street covered areas, access along Main Street,

power station, and paper mill #1. For the purposes of renovation or reuse, most painted surfaces at the site are considered lead-containing, and abatement or in-place management of these materials should follow the USEPA's Renovation, Repair and Painting Rule, which, in Oregon, is administered by the Oregon Health Authority.

4.3 Mercury, Polychlorinated Biphenyls, and Other Materials

Mercury-containing fixtures, PCB-containing fixtures, and other hazardous materials were tracked and recorded on the FSDSs provided in Appendix B. A summary of the observations is provided in Table 3-1.

5 SUMMARY AND RECOMMENDATIONS

Based on our observations and the results of the material testing, MFA concludes the following:

- The mill H reject building roofing material is ACM.
- Transite siding and roofing, boiler insulation/refractory, hard joints and TSI, and roof-penetration sealant in several areas throughout the site are presumed ACM.
- There are lead-containing coatings throughout the interiors and exteriors of the designated buildings/areas.
- Many potentially hazardous-materials-containing fixtures are present throughout the designated buildings.
- Unknown and unlabeled chemicals are present in the pipe shop, auto shop, power station, and carpentry shop.

5.1 Recommendations

This report should be made available to contractors during bidding on abatement, construction, or demolition work to be conducted on these buildings. Prior to any disturbance activities at the site, identified hazardous materials should be abated by a licensed abatement contractor or safely managed in place consistent with a written operations and maintenance plan.

Metro should inform contractors that other hazardous materials or conditions may be discovered during the renovation and demolition activities, which may warrant additional remediation and/or corrective actions.

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

REFERENCES

MFA. 2017a. Quality assurance project plan. Prepared for Metro Regional Government, Oregon, by Maul Foster & Alongi, Inc. July 24.

MFA. 2017b. Memorandum (re focused hazardous building materials survey for Willamette Falls Riverwalk Phase 1) to A. Gilbertson, Metro Regional Government, from X. Lastname, Maul Foster & Alongi, Inc. August 15.

MFA. 2018. Hazardous building material investigation work plan. Willamette Falls Riverwalk, Phase 1 Oregon City, Oregon. Prepared for Metro Regional Government by Maul Foster & Alongi, Inc. January 23.

TABLES

Table 3-1
Hazardous Building Materials Survey Summary
Willamette Falls Legacy Project
Oregon City, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Comments
Asbestos	Asphaltic roofing	Roof of Mill H Reject	7,000 sq. ft.	
	Transite siding and roofing	Recovery Boilers, Boiler Plant, Sulfate Plant on access along Main Street, Number 4 Paper Mill on access along Main Street, Mill D Warehouse on access along Main Street, Power Station, Mill H exterior, Mill H office, and Mill H Reject	77,200 sq. ft.	Assumed ACM (no samples collected).
	Boilers	Recovery Boilers and Boiler Plant	10,350 sq. ft.	Assumed ACM (no samples collected).
	Hard joints and TSI	Third Street Covered Areas	80 lin. ft.	Assumed ACM (no samples collected).
	Roof-penetration sealant	Stock Cylinder #1	20 sq. ft.	Assumed ACM (no samples collected because material was not accessible).
Lead-containing paint	Significant portions of exterior paint except gray painted surfaces on the Sulphate Plant	Access along Main Street	30,000 sq. ft.	
	Significant portions of interior paint except white, medium green, and glossy white painted surfaces	Auto Shop	3,000 sq. ft.	
	All interior paint	Butler Building	6,400 sq. ft.	Off-white color exterior paint was non-detect.
	Significant portions of interior paint except gray color on lockers in the basement locker room	Boiler Plant	19,200 sq. ft.	
	All interior paint	Carpentry Shop	15,000 sq. ft.	
	All exterior paint except light gray color on roofing material	High-Density Stock Cylinder #2	10,000 sq. ft.	

Table 3-1
Hazardous Building Materials Survey Summary
Willamette Falls Legacy Project
Oregon City, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Comments
	All interior painted surfaces	Mill H Reject	40,000 sq. ft.	
	Significant portions of interior paint except white color on exterior and interior of control center	Mill H	10,800 sq. ft.	
	Portions of interior paint except white color on second floor office, dark red color on metal super structure, glossy white color on office and restroom, and green color	Millwright Shop	6,000 sq. ft.	
	All interior and exterior paint	Paper Mill #1 Basement	10,000 sq. ft.	
	Portions of interior paint except gray color, yellow color, and blue color. Portions of exterior paint except medium gray color	Pipe Shop	4,000 sq. ft.	
	Significant portions of interior paint except blue color on storage tanks	Pump Station	1,000 sq. ft.	
	All interior and exterior paint	Power Station	9,000 sq. ft.	
	All interior paint	Recovery Boilers	8,000 sq. ft.	
	All interior paint	Stock Cylinder #1	10,000 sq. ft.	
	All exterior paint	Third Street Covered Areas	3,000 sq. ft.	
	All interior paint. Significant portions of exterior paint except the white color lean-to structure	Woolen Mill Foundations	8,000 sq. ft.	
PCB-containing, mercury-containing, and other hazardous materials	Lightbulbs and fixtures	Pipe Shop (interior and exterior), Millwright Shop, Carpentry Shop (interior and exterior), Recovery Boiler (interior and exterior), Boiler Plant, Power Station, Mill H, and exterior of Mill H Reject	Approximately 98 bulbs/fixtures	Several additional bulbs were found in the Mill H storage area.

Table 3-1
Hazardous Building Materials Survey Summary
Willamette Falls Legacy Project
Oregon City, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Comments
	Sodium light fixtures	Pipe Shop and Butler Building	12 fixtures	
	Mercury switches	Pipe Shop	2 switches	
	Thermostats	Millwright Shop and Boiler Plant	3 thermostats	
	Electrical panels/boxes	Pipe Shop, Auto Shop, and Power Station	6 panels/boxes	
	Transformer	Power Station	1 transformer	
	Electrical switch boxes	Pipe Shop and Recovery Boiler	10 boxes	
	Poly tanks	Millwright Shop and Recovery Boiler	5 tanks	
	Miscellaneous totes, drums, and buckets	Carpentry Shop, Pipe Shop, Auto Shop, and Power Station	5 totes, 44 drums and several buckets	Most miscellaneous materials were found in the Power Station.
	Storage tanks	Mill H	2 tanks	
	Man lift motors	Boiler Plant and Mill H Reject	2 motors	
	Petroleum-coated columns	PM1 Basement	Throughout	

NOTES:
ACM = asbestos-containing material.
lin. ft. = linear feet.
PCB = polychlorinated biphenyl.
sq. ft. = square feet.
TSI = thermal system insulation.

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Pipe Shop							
PSH-1-ASB-4	11/27/2017	Blue laminate countertop with yellow mastic	First floor	Brown flat hard compressed fibrous material with blue surface	ND	--	--
				Yellow soft mastic	ND		
PSH-2-ASB-5A	11/27/2017	White wallboard	Second floor	White chalky material with paper and paint	ND	--	--
PSH-2-ASB-5B	11/27/2017	White wallboard	Second floor	White chalky material with paper and paint	ND	--	--
PSH-2-ASB-5C	11/27/2017	White wallboard	Second floor	White textured powdery material with paint	ND	--	--
				White chalky material with paper	ND		
Millwright Shop							
MWS-1-ASB-6	11/27/2017	Light blue laminate countertop with yellow mastic	First floor restroom counter	Brown flat hard compressed fibrous material with blue surface	ND	--	--
				Yellow soft mastic (on wood)	ND		
MWS-1-ASB-10	11/27/2017	Joint compound	Shop exterior	Clear soft material with paint	ND	--	--
MWS-1-ASB-12	11/27/2017	Acoustic tile with dark brown glue	First floor	Gray compressed fibrous material with paint	ND	--	--
				Brown brittle mastic	ND		
Auto Shop							
ASH-1-ASB-9A	11/27/2017	Cellulose insulation	First floor	White fibrous material	ND	--	--
ASH-1-ASB-9B	11/27/2017	Cellulose insulation	First floor	White/gray fibrous material with paint	ND	--	--

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Boiler Plant							
BPT-1-ASB-4	11/29/2017	Silver-coated brick	First floor	Red brittle material	ND	--	--
				Gray sandy brittle material	ND		
BPT-1-ASB-9A	11/29/2017	Vinyl wall coverings	First floor locker room	White brittle material	ND	--	--
				Tan soft mastic	ND		
BPT-1-ASB-9B	11/29/2017	Vinyl wall coverings	First floor locker room	White brittle material	ND	--	--
				Tan soft mastic	ND		
BPT-1-ASB-9C	11/29/2017	Vinyl wall coverings	First floor locker room	White brittle material	ND	--	--
				Tan soft mastic	ND		
BPT-1-ASB-11A	11/29/2017	HVAC compound	First floor locker room	Gray soft material	ND	--	--
BPT-1-ASB-11B	11/29/2017	HVAC compound	First floor locker room	Gray soft material	ND	--	--
BPT-1-ASB-11C	11/29/2017	HVAC compound	First floor locker room	Gray soft material	ND	--	--
BPT-2-ASB-14	11/29/2017	Black vinyl material with silver coating	Second floor on control room tin roof/overhang	Black asphaltic material with plastic and metal foil	ND	--	--
Woolen Mill Foundations							
WMF-1-ASB-2	11/27/2017	Penetration mud and insulation	South exterior	Off-white/green fibrous material	ND	--	--
WMF-1-ASB-10	11/27/2017	Penetration mud	Exterior	Light gray brittle material	ND	--	--
				Dark gray brittle material	ND		
Access Along Main Street							
AAM-1-ASB-13	11/27/2017	Ceramic tile	Storage cylinder	Tan ceramic tile	ND	--	--
				Tan brittle material	ND		

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Power Station							
PWS-2-ASB-7A	11/29/2017	Insulation, backing, and tape	Second floor	White woven fibrous material with white soft material	ND	--	--
				Yellow fibrous material with yellow soft mastic	ND		
PWS-2-ASB-7B	11/29/2017	Insulation, backing, and tape	Second floor	White woven fibrous materials with white soft material	ND	--	--
				Yellow fibrous material with yellow soft mastic	ND		
PWS-2-ASB-7C	11/29/2017	Insulation, backing, and tape	Second floor	White woven fibrous material with white soft material	ND	--	--
				Yellow fibrous material with yellow	ND		
PWS-2-ASB-7D	11/29/2017	Insulation, backing, and tape	Second floor	White woven fibrous material with white soft material	ND	--	--
				Yellow fibrous material with yellow soft mastic	ND		
PWS-2-ASB-7E	11/29/2017	Insulation, backing, and tape	Second floor	White woven fibrous material with white soft material	ND	--	--
				Yellow fibrous material with yellow soft mastic	ND		
Stock Cylinder #1							
SCl-1-ASB-4	11/29/2017	Ceiling pipe gasket	Above cylinder	Tan fibrous material with black rubbery material	ND	--	--
SC1-O-ASB-5A	11/29/2017	Concrete block	Base of stock cylinder	Gray fibrous material	ND	--	--
				Tan brittle material	ND		
				Black asphaltic mastic	ND		
SC1-O-ASB-5B	11/29/2017	Concrete block	Base of stock cylinder	Gray brittle material	ND	--	--

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Mill H							
MLH-1-ASB-11A	12/04/2017	Wallboard	First floor	White textured powdery material with paper	ND	--	--
				White compacted powdery material with paint	ND		
				White chalky material with paper	ND		
MLH-1-ASB-11B	12/04/2017	Wallboard with tape and mud	First floor control room	White textured powdery material	ND	--	--
				White chalky material with paper	ND		
MLH-1-ASB-11C	12/04/2017	Wallboard	First floor control room	White chalky material with paper	ND	--	--
MLH-1-ASB-11D	12/04/2017	Wallboard	First floor control room	White compacted powdery	ND	--	--
				White chalky material with paper	ND		
MLH-1-ASB-11E	12/04/2017	Wallboard	First floor control room	White compacted powdery material with paint	ND	--	--
				Tan chalky material with paper	ND		
MLH-1-ASB-12A	12/04/2017	Acoustic ceiling tile	First floor control room	Gray fibrous material with paint	ND	--	--
MLH-1-ASB-12B	12/04/2017	Acoustic ceiling tile	First floor control room	Gray fibrous material with paint	ND	--	--
MLH-1-ASB-12C	12/04/2017	Acoustic ceiling tile	First floor control room	Gray fibrous material with paint	ND	--	--
MLH-1-ASB-14	12/04/2017	Light gray laminate countertop with yellow mastic	First floor control room	Gray soft mastic	ND	--	--
				Brown flat hard compressed fibrous material with gray surface	ND		
				Clear soft mastic with debris	ND		
MLH-1-ASB-16A	12/04/2017	Gray base cove with dark brown mastic	First floor control room	Gray rubbery material	ND	--	--
				Dark brown brittle mastic	ND		
				White compacted powdery material with paint and trace paper	ND		

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
MLH-1-ASB-16B	12/04/2017	Gray base cove with dark brown mastic	First floor control room	Gray rubbery material	ND	--	--
				Dark brown brittle mastic	ND		
				White compacted powdery material with paint	ND		
MLH-1-ASB-16C	12/04/2017	Gray base cove with dark brown mastic	First floor control room	Gray rubbery material	ND	--	--
				Dark brown brittle mastic	ND		
				White trace compacted powdery material with paper	ND		
MLH-1-ASB-17A	12/04/2017	Blue poured flooring	First floor control room	Blue brittle material	ND	--	--
MLH-1-ASB-17B	12/04/2017	Blue poured flooring	First floor control room	Blue brittle material	ND	--	--
MLH-1-ASB-17C	12/04/2017	Blue poured flooring	First floor control room	Blue brittle material	ND	--	--
				Gray sandy/brittle material	ND		
MLH-1-ASB-18	12/05/2017	6-inch pipe insulation	Exterior	White woven fibrous material	ND	--	--
				White powdery/fibrous material	ND		
MLH-1-ASB-19	12/04/2017	Vinyl doorway seal	Exterior	Black vinyl with interwoven fibrous material	ND	--	--
MLH-1-ASB-24	12/04/2017	Acoustic tile with glue dots	First floor	Gray fibrous material	ND	--	--
				Tan soft mastic	ND		
				Brown wood debris with paint	ND		
High-Density Stock Cylinder #2							
HSC-1-ASB-2A	12/05/2017	Concrete block	Stock cylinder #2	Gray sandy/brittle material with paint	ND	--	--
HSC-1-ASB-2B	12/05/2017	Concrete block	Stock cylinder #2	Dark gray sandy/brittle material with paint	ND	--	--
				Light gray sandy/brittle material	ND		
HSC-1-ASB-2C	12/05/2017	Concrete block	Stock cylinder #2	Gray sandy/brittle material with paint	ND	--	--

Table 4-1
Summary of Asbestos Sample Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Mill H Reject							
MHR-2-ASB-6	12/05/2017	4-inch pipe insulation	Second floor	White paper with foil and interwoven fibrous material	ND	--	--
				Gray powdery material	ND		
MHR-1-ASB-9A	12/05/2017	Asphaltic roofing	Roof	Black asphaltic fibrous material with brown fibrous material and tar	22%	Fair	7,000 sq. ft.
MHR-1-ASB-9B	12/05/2017	Asphaltic roofing	Roof	Black asphaltic fibrous material with tar	ND	--	--
MHR-1-ASB-9C	12/05/2017	Asphaltic roofing	Roof	Black asphaltic fibrous material with brown fibrous material and granules	29%	Fair	7,000 sq. ft.
				Black asphaltic fibrous material with tar	ND		
MHR-1-ASB-9D	12/05/2017	Asphaltic roofing	Roof	Black asphaltic tar	ND	--	--
MHR-1-ASB-9E	12/05/2017	Asphaltic roofing	Roof	Black asphaltic tar with fibrous material	ND	--	--
MHR-1-ASB-9F	12/05/2017	Asphaltic roofing	Roof	Black asphaltic brittle material with interwoven fibrous material	7%	Fair	7,000 sq. ft.
				Gray fibrous material	ND		
MHR-1-ASB-9G	12/05/2017	Asphaltic roofing	Roof	Black brittle material with asphaltic material	ND	--	--
Other Buildings/Structures							
PM1-O-ASB-2	12/06/2017	Ceramic tile	Vessels in PM1 basement	Beige ceramic tile with orange surface	ND	--	--
				Gray sandy/brittle material	ND		

NOTES:
Samples were analyzed consistent with polarized light microscopy U.S. Environmental Protection Agency Method 600/R-93-116.
-- = not applicable.
ND = not detected.
sq. ft. = square feet.

Table 4-2
Summary of Paint Chip Results
Willamette Falls Legacy Project
Oregon City, Oregon

Sample Name	Sample Date	Material Description	Location Description	Lead Result (wt %)	Additional Result (ppm)
Carpentry shop					
CSH-1-PB-8	11/27/2017	Cream color	First floor restroom	0.01	--
Mill H					
MLH-1-PB-4	12/06/2017	Light green color	First floor interior painted beams	0.0083	--
MLH-1-PB-10	12/04/2017	White color	Control room	<0.0049	--
Access Along Main Street					
AAM-1-PB-13	11/27/2017	Tan color	Storage cylinder	<0.0034	--
Other Buildings/Structures					
PM1-O-PB-3	12/06/2017	Tan color	Ceramic tiles from vessels in the basement of PM1	<0.0034	--
Power Station					
PWS-1-PB-8	12/06/2017	Gray color	First floor interior painted beams	0.11	--
High-Density Stock Cylinder #2					
HSC-1-PB-1	12/06/2017	Light gray color	Stock cylinder #2	<0.0051	< 7

NOTES:
< = less than reporting limit. Reporting limit represents lowest amount of analyte that laboratory can confidently detect in sample, and is not a regulatory level.
Samples were analyzed consistent with U.S. Environmental Protection Agency Method 3050B/7000B.
wt % = percent by weight.

FIGURES

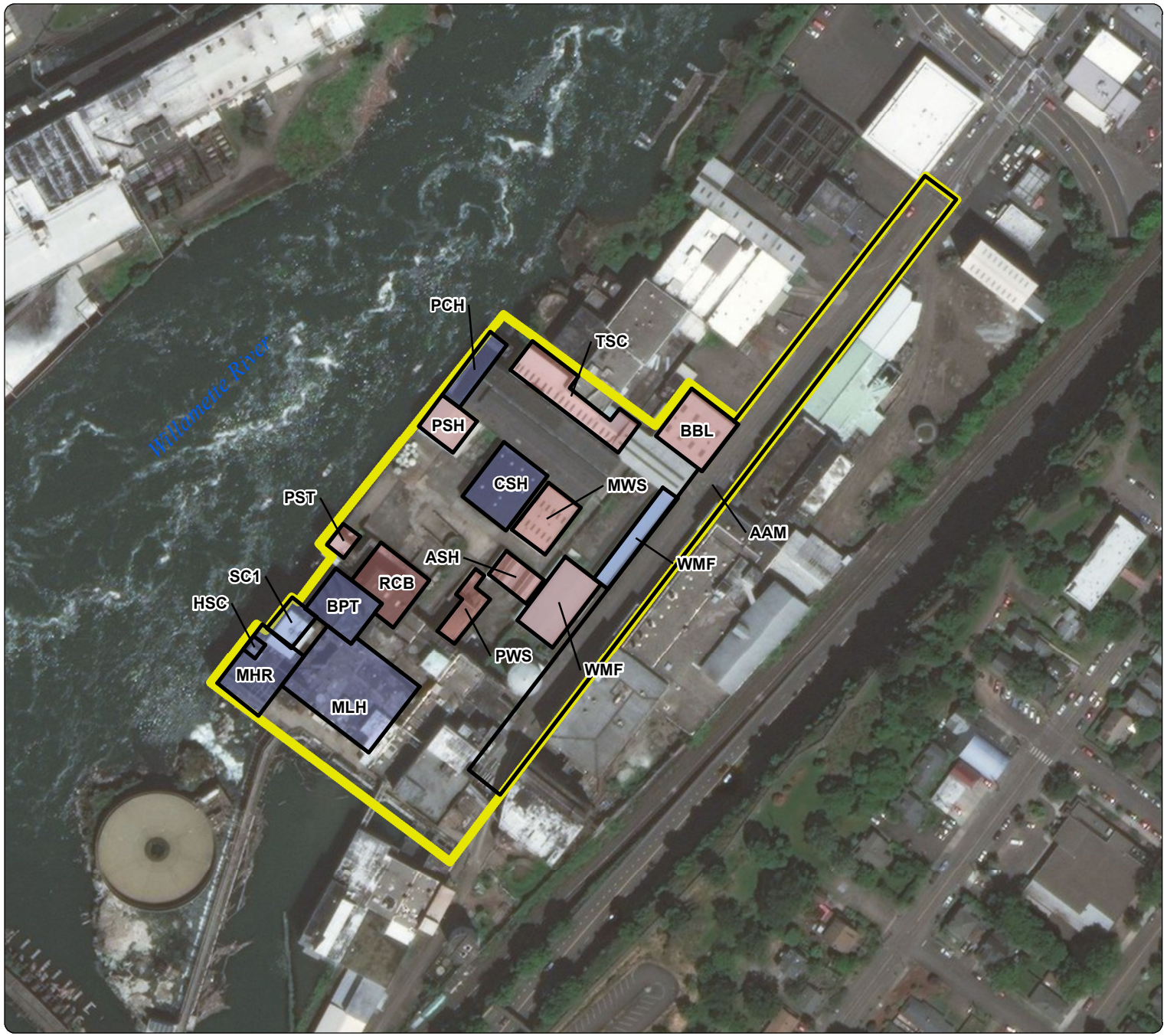

Figure 1-1
Hazardous Building Material Survey

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Project Area
- Building Footprint
- Buildings or structures for re-use
- Buildings to be demolished

AAM = Access Along Main Street
ASH = Auto Shop
BBL = Butler Building
BPT = Boiler Plant
CSH = Carpentry Shop
HSC = High-Density Stock Cylinder #2
MHR = Mill H Reject
MLH = Mill H
MWS = Millwright Shop
PCH = Pipe Chase
PSH = Pipe Shop
PST = Pump Station
PWS = Power Station
RCB = Recovery Boiler
SC1 = Stock Cylinder #1
TSC = Third Street Covered Areas
WMF = Woolen Mill Foundation and Covered Areas

0 100 200
Feet

Source: Background imagery obtained from Esri, ArcGIS Online.

MAUL FOSTER ALONGI
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Print Date: 3/26/2018
Approved By:
Produced By: mjosef
Project: P0075.06

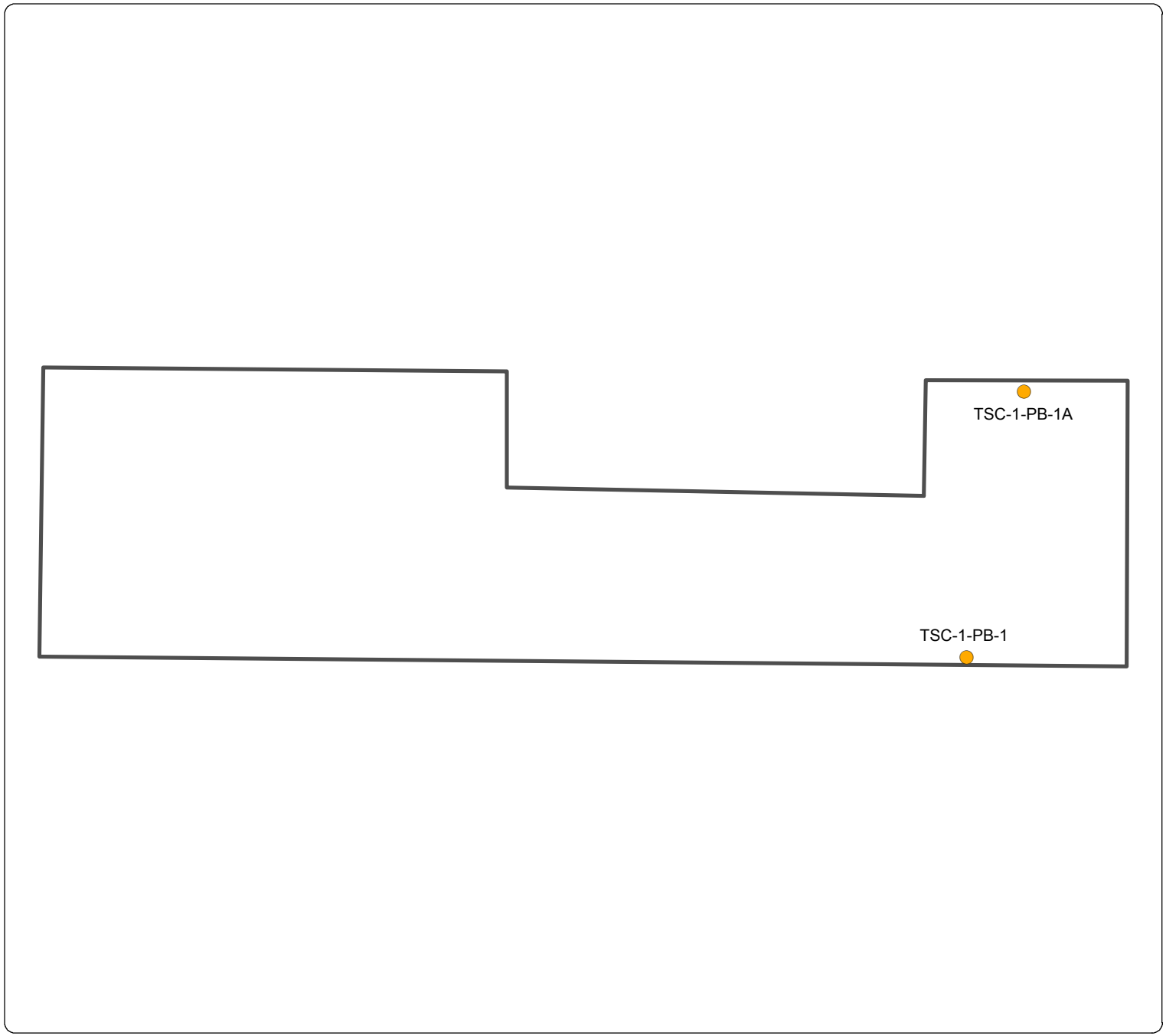

Figure 3-1
Third St. Covered Areas

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Lead

0 10 20
Feet

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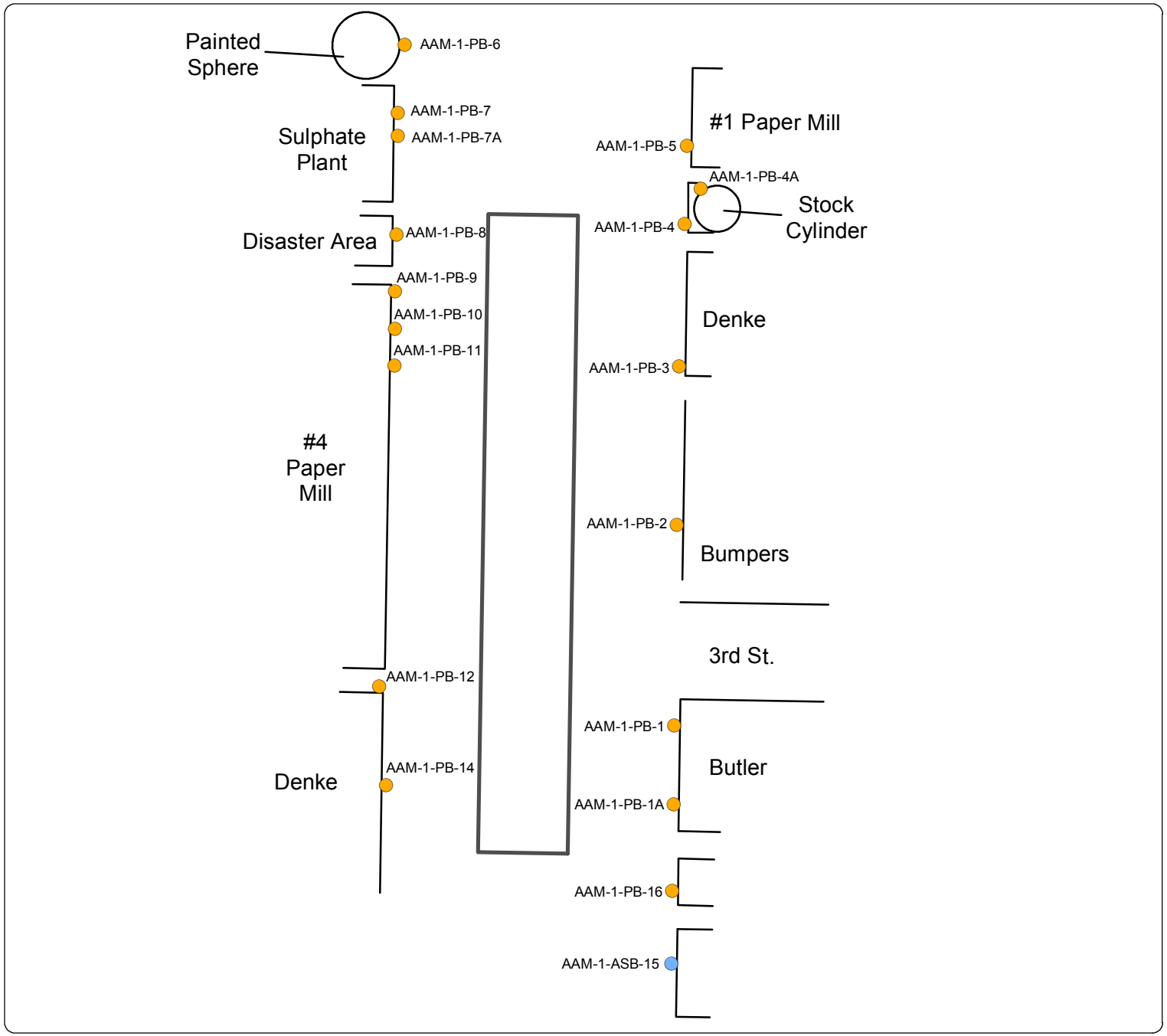

Figure 3-2
Access Along Main St.

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 10 20
Feet

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Approved By:
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Project: 0075.06

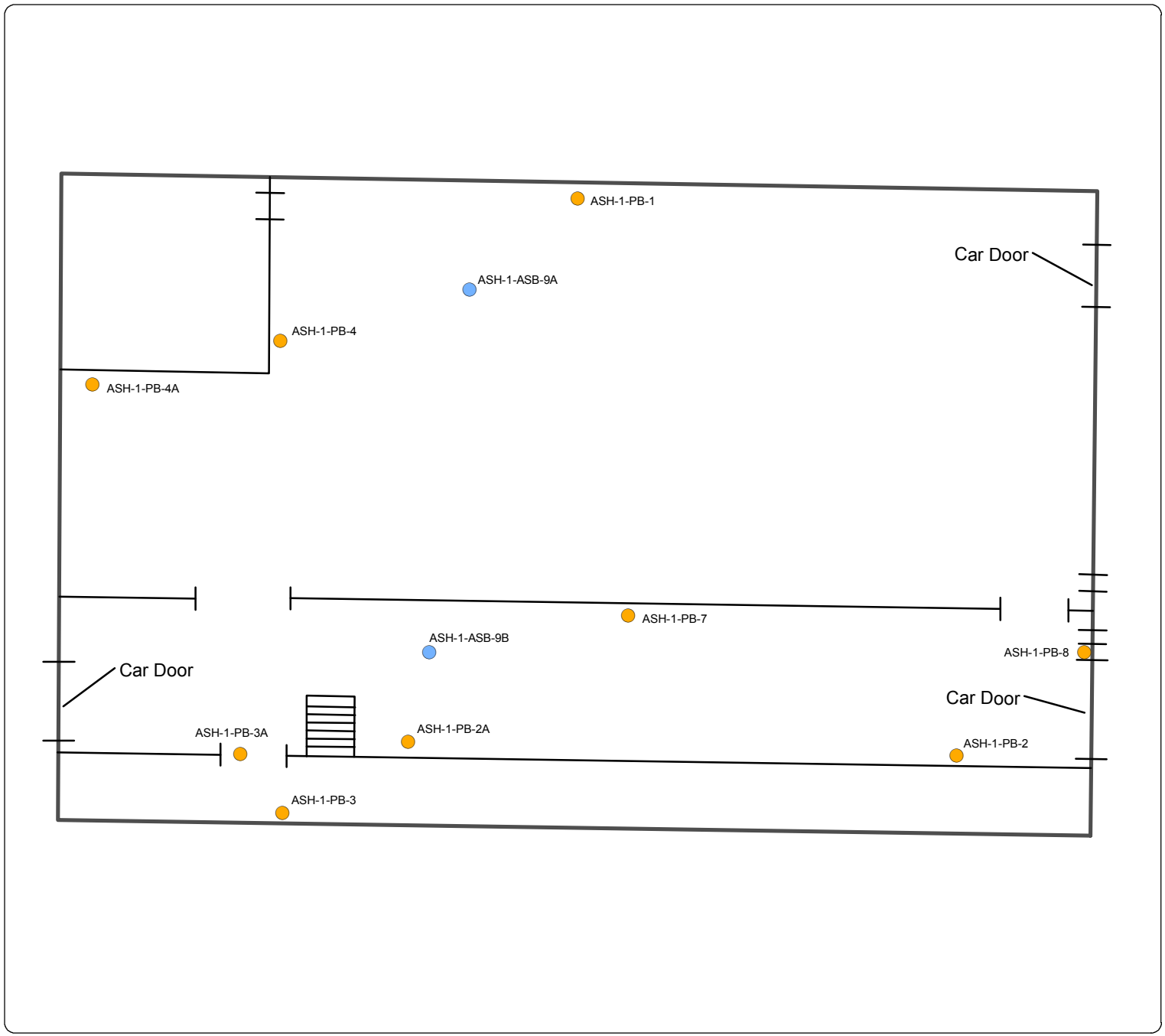

Figure 3-3
Auto Shop

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 4.5 9
Feet

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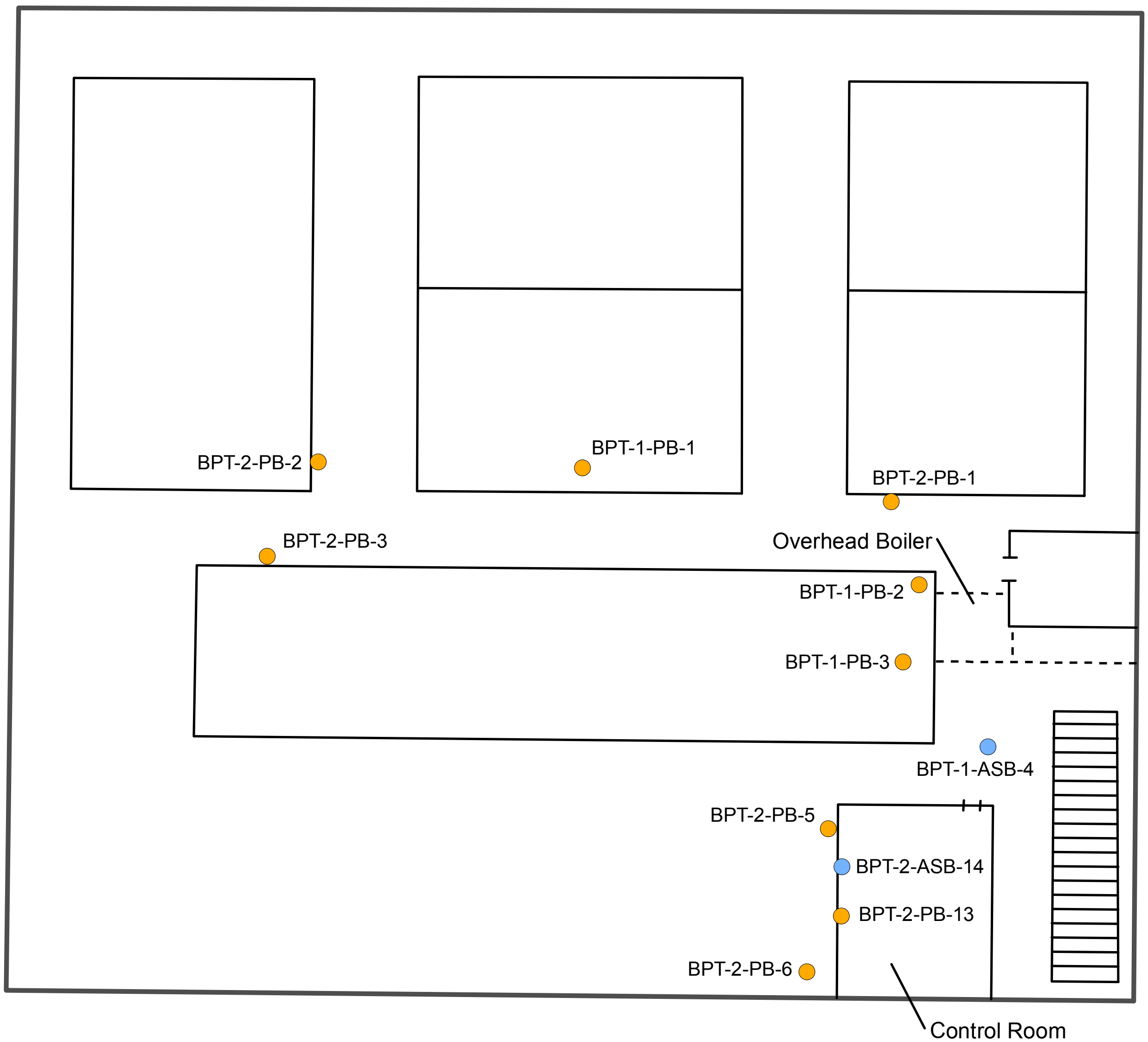
Path: X:\0075.06\03\Projects\Figure_Build_AutoShop.mxd
Print Date: 3/26/2018
Approved By:
Produced By: mjosef
Project: 0075.06

Figure 3-4
Boiler Plant
First Floor

Willamette Falls Legacy Project

Oregon City, Oregon



Legend

- Asbestos
- Lead

0 6 12

Feet

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Approved By:
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Project: 0075.06

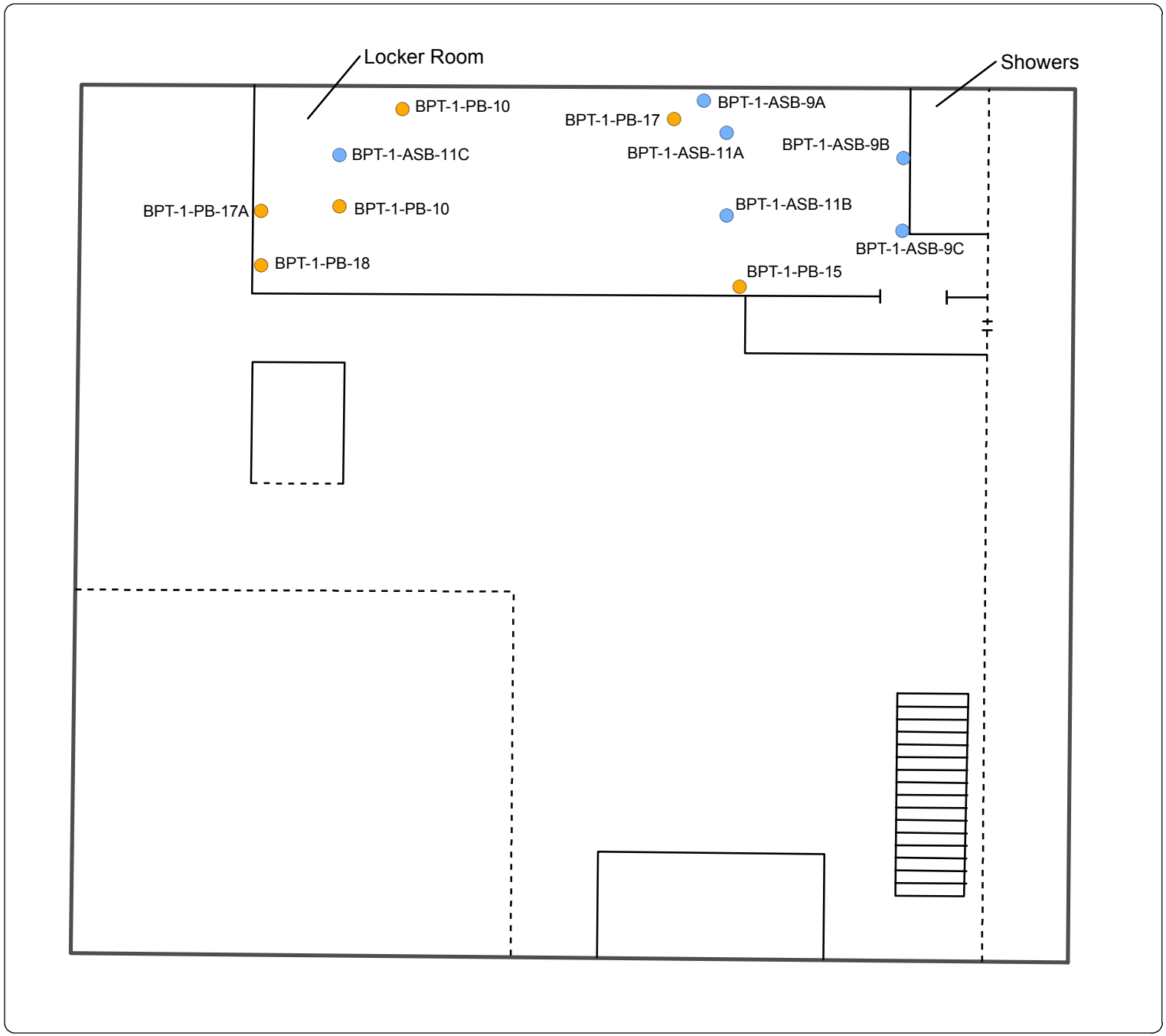

Figure 3-5
Boiler Plant Basement

Willamette Falls Legacy Project

Oregon City, Oregon

Legend

- Asbestos
- Lead

0 6 12

Feet

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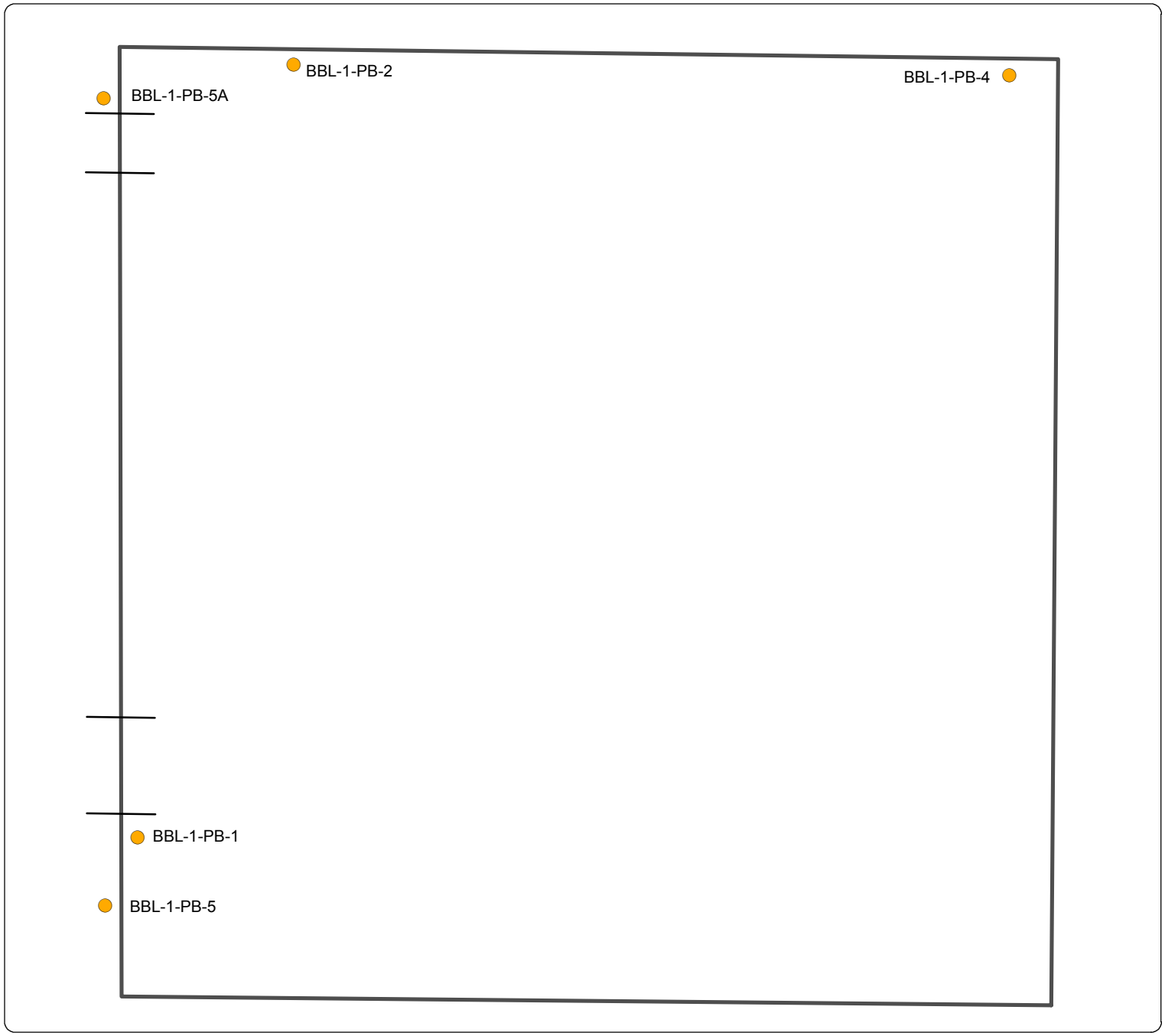

Figure 3-6
Butler Building

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Lead

0 6 12
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_Butler.mxd
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Project: 0075.06

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Print Date: 3/26/2018
Approved By:
Produced By: mjosef
Project: 0075.06

Figure 3-7
Carpentry Shop

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Lead

0 7.5 15
Feet

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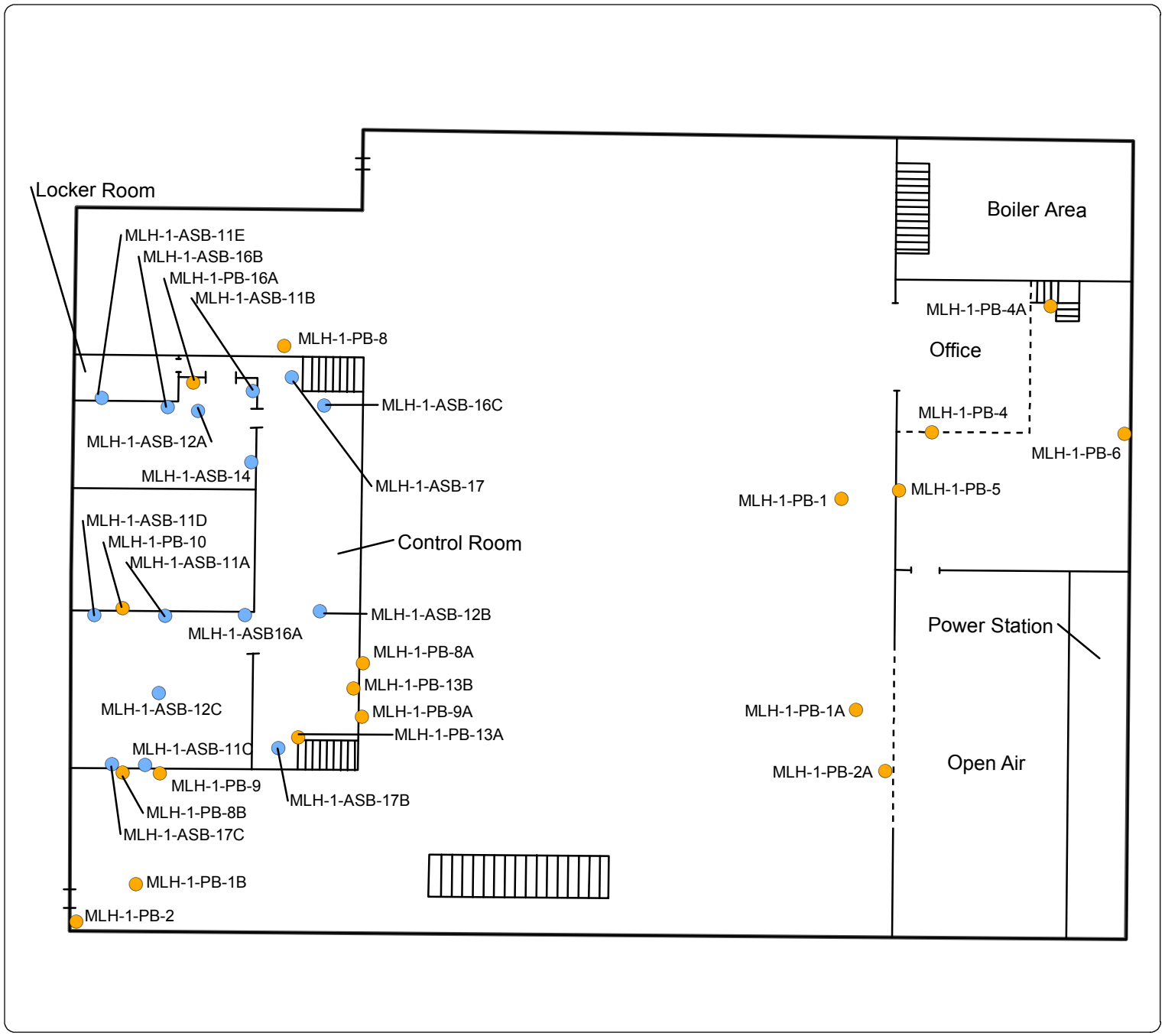

Figure 3-8
Sampling Locations
Mill H - First Floor

Willamette Falls Legacy Project

Oregon City, Oregon

Legend

- Asbestos
- Lead

0 10 20

Feet

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Path: X:\0075.06\03\Projects\Figure_Build_MillH_1st_floor.mxd
Print Date: 3/26/2018
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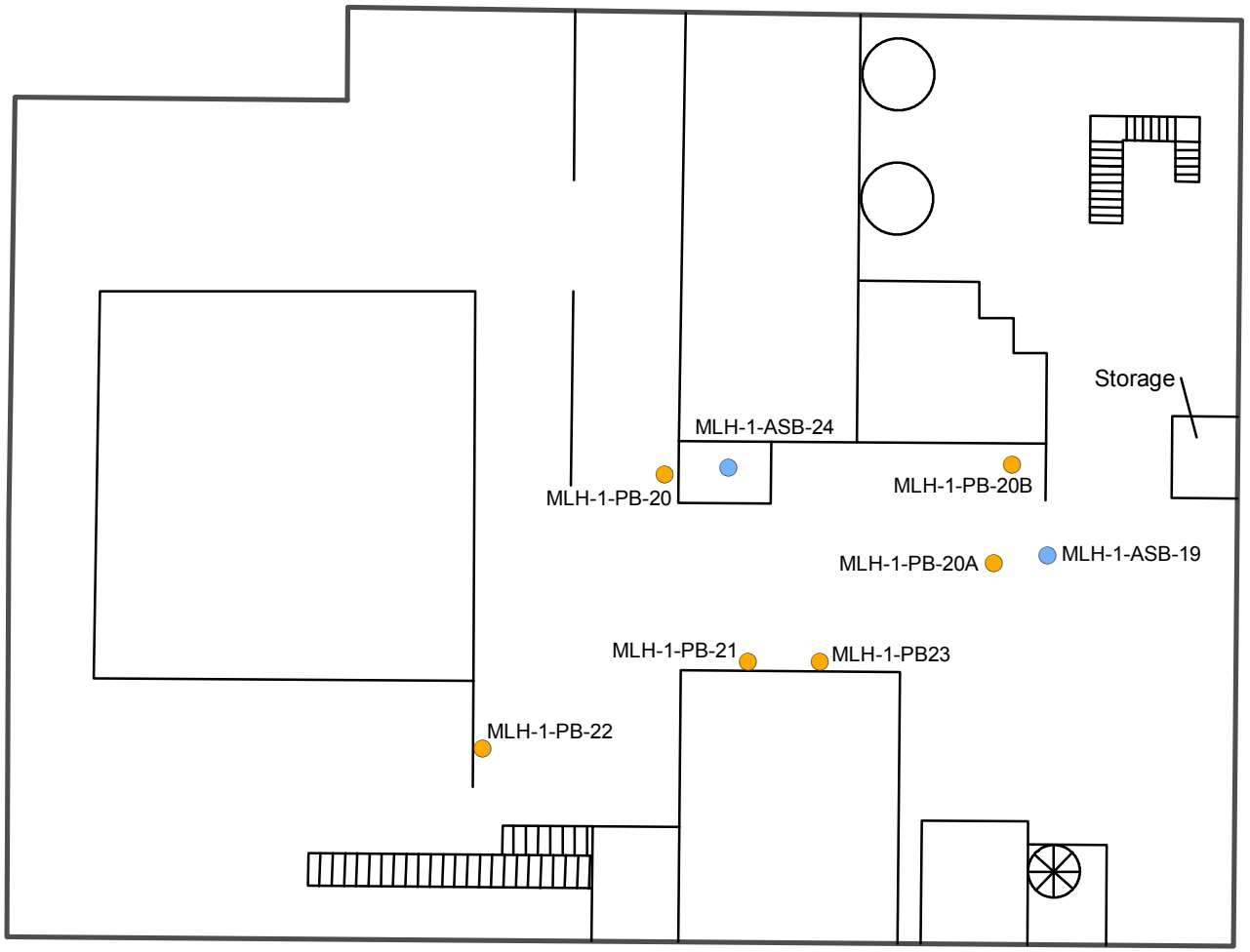
Produced By: mjosef
Project: 0075.06

Figure 3-9
Sampling Locations
Mill H - Basement

Willamette Falls Legacy Project

Oregon City, Oregon



Legend

- Asbestos
- Lead

0 10 20

Feet

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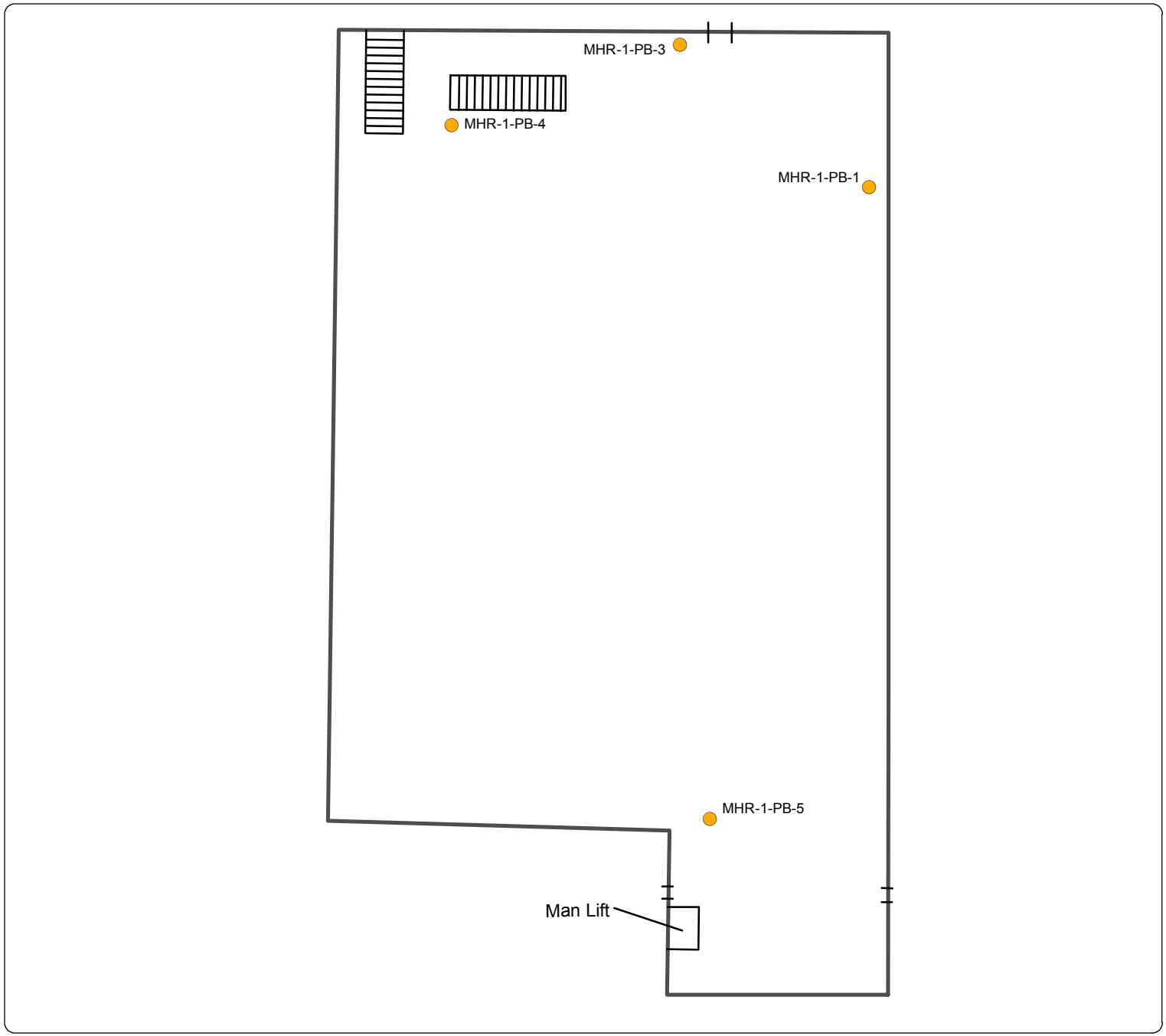

Figure 3-10
Sampling Locations
Mill H Reject - First Floor

Willamette Falls Legacy Project

Oregon City, Oregon

Legend

Lead

0 9.5 19

Feet

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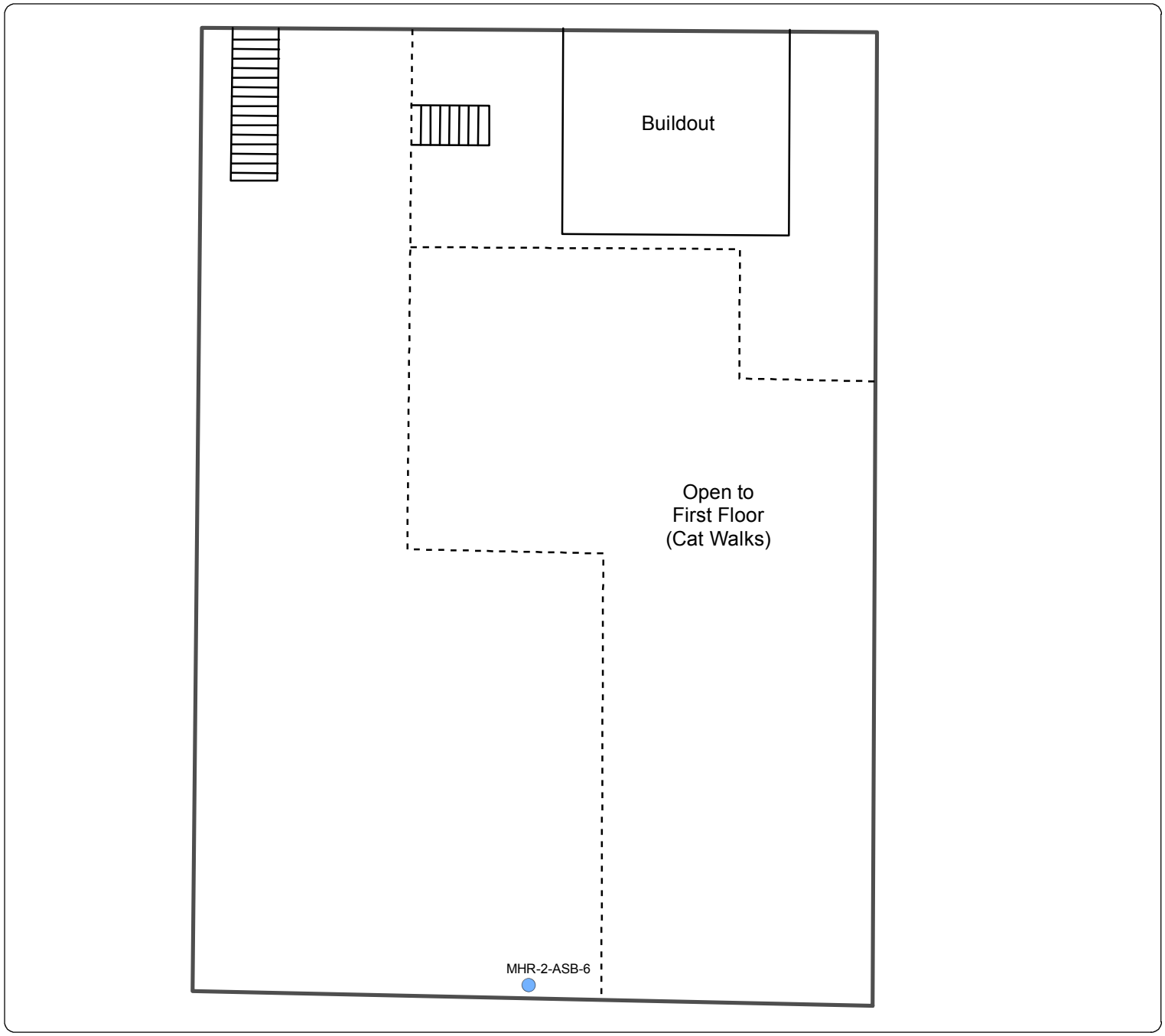

Figure 3-11
Sampling Locations
Mill H Reject -
Second Floor

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Asbestos

0 8 16
Feet

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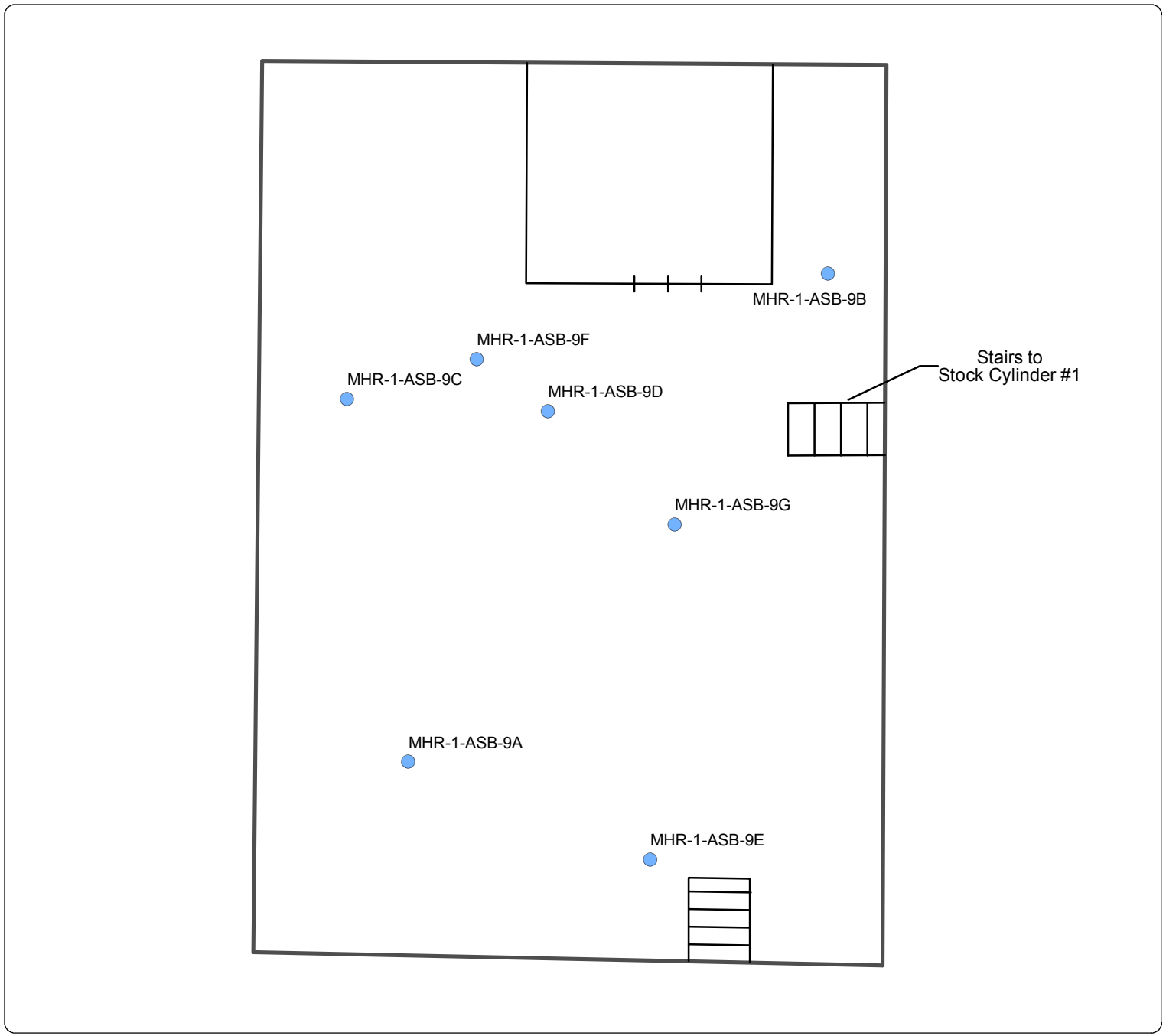

Figure 3-12
Sampling Locations
Mill H Reject - Roof

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos

0 8.5 17
Feet

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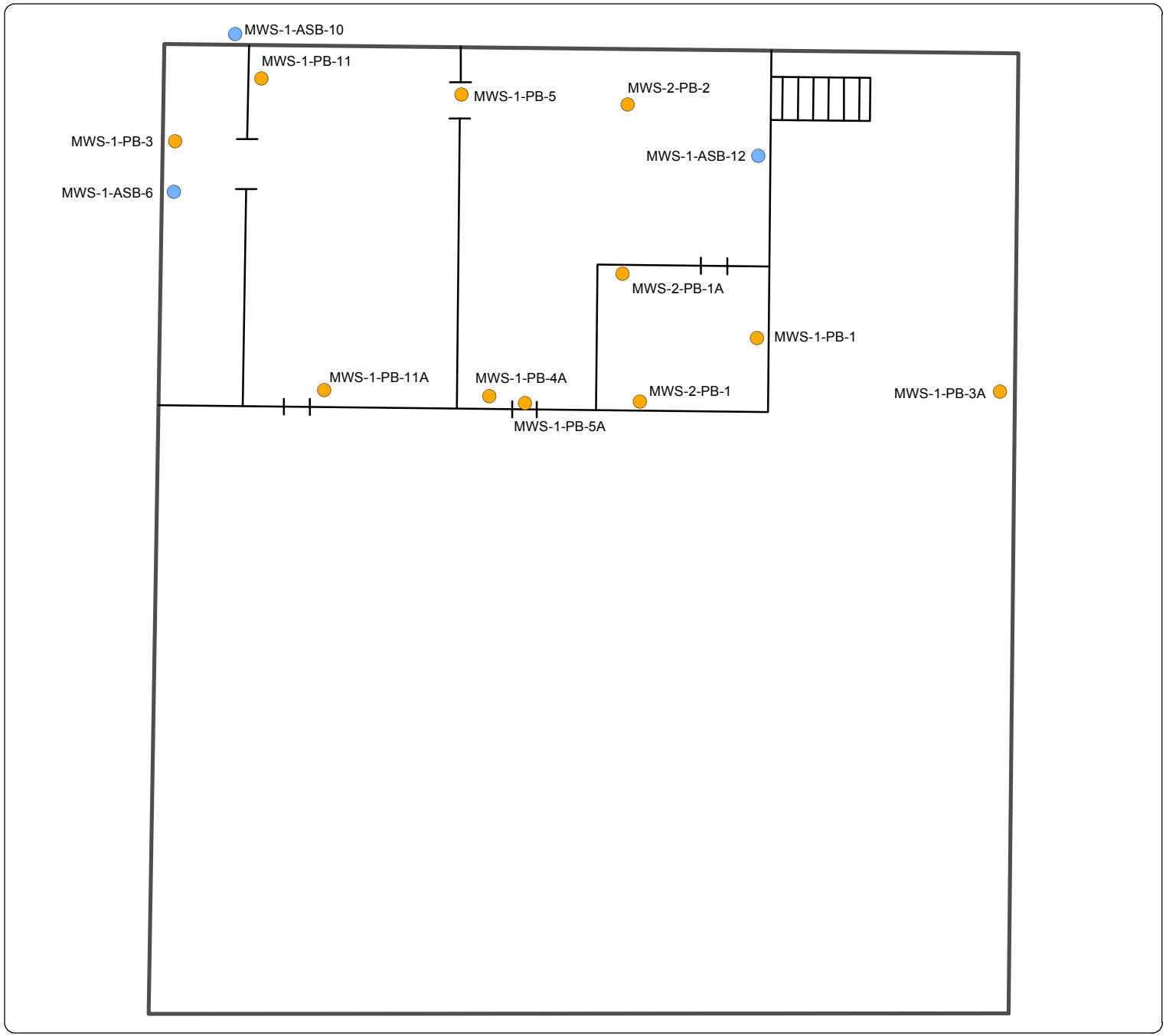

Figure 3-13
Millwright Shop

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 4.5 9
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_Millwright.mxd
Print Date: 3/26/2018
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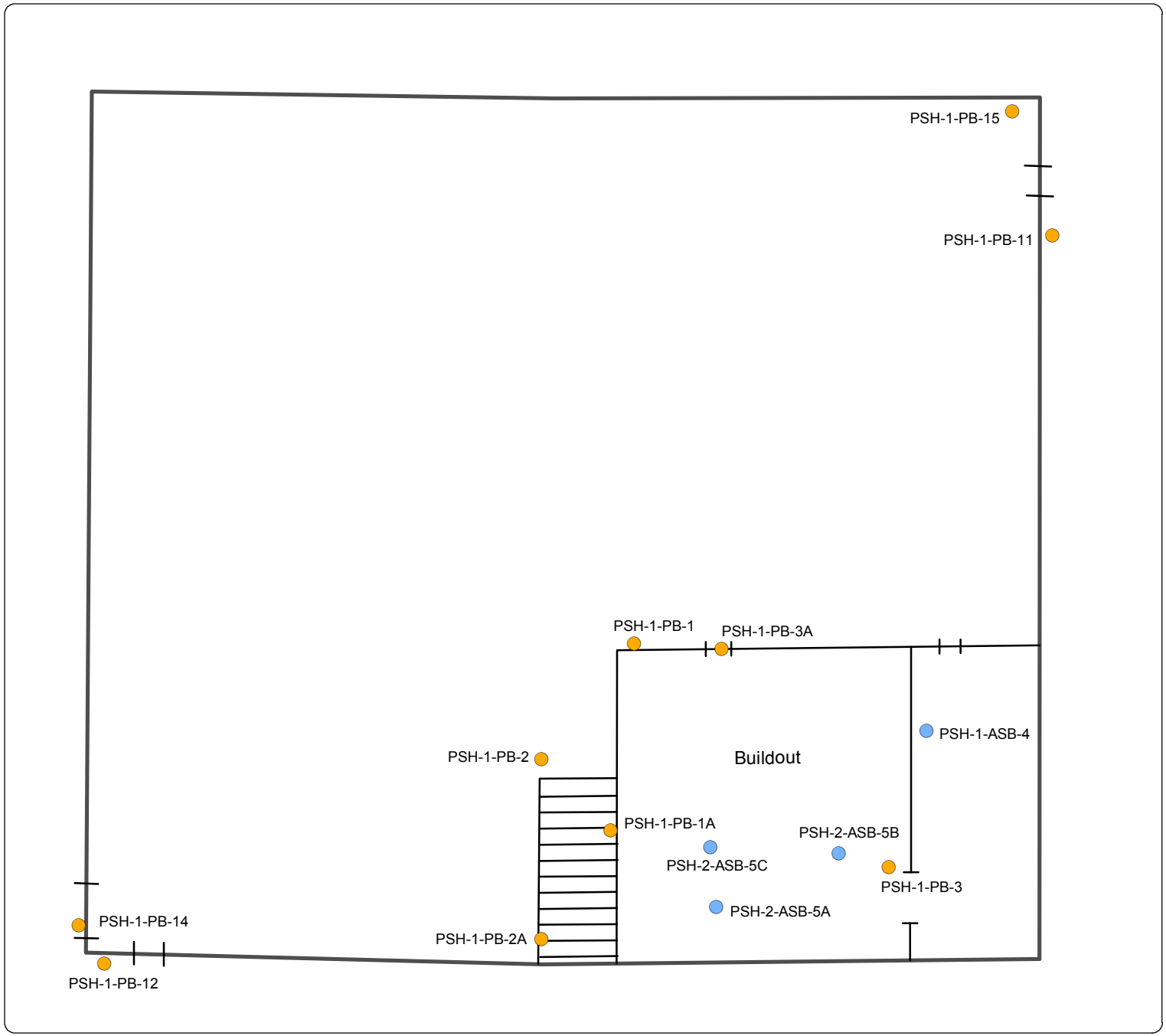
Produced By: mjosef
Project: 0075.06

Figure 3-14
Pipe Shop

Willamette Falls Legacy Project
Oregon City, Oregon



Legend

- Asbestos
- Lead

0 4.5 9
Feet

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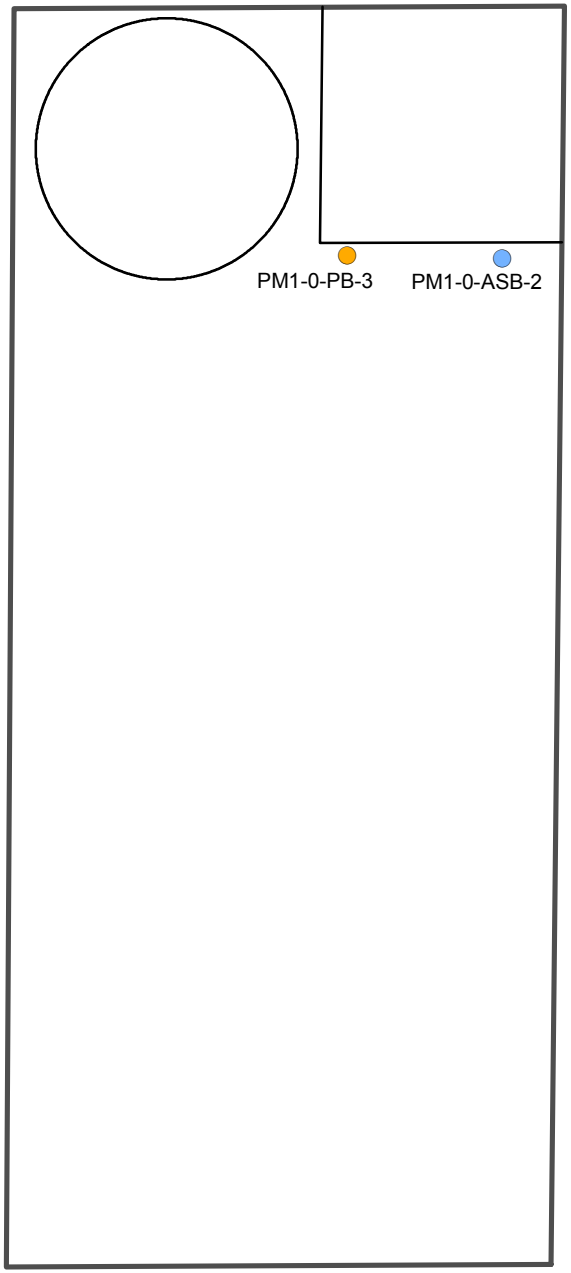

Figure 3-15
PM1 Basement

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 10 20
Feet

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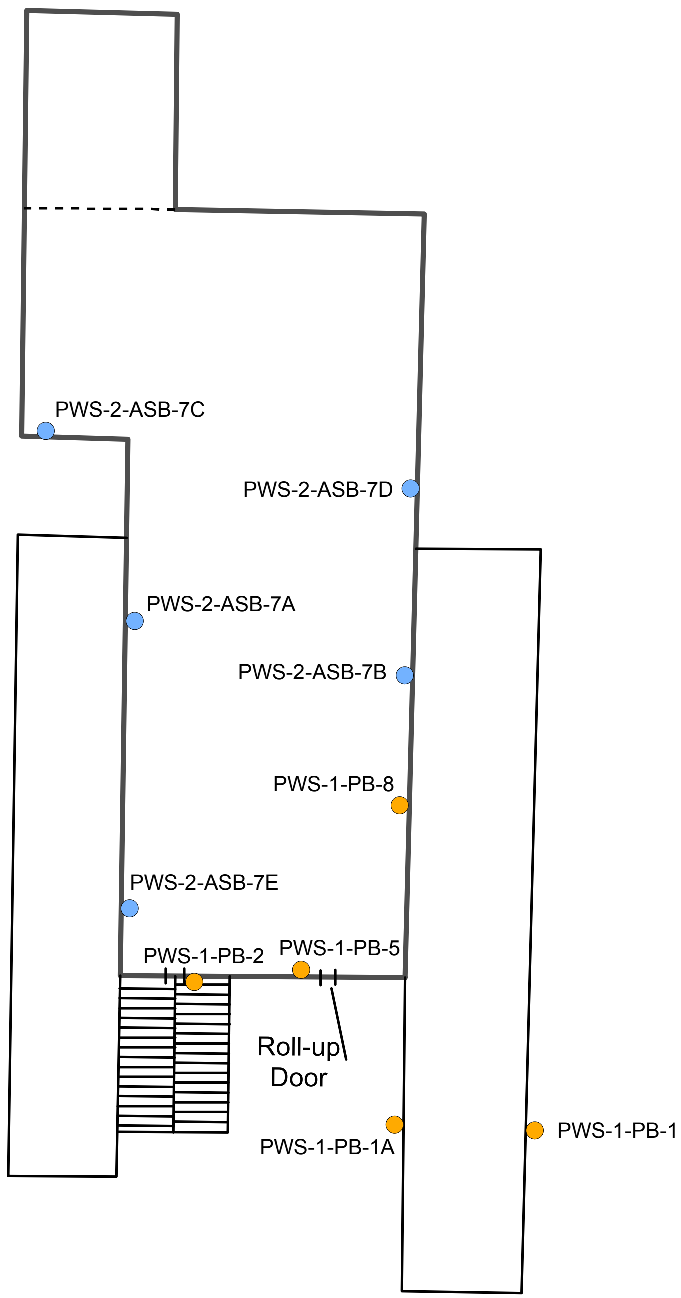
Path: X:\0075.06\03\Projects\Figure_Build_PM1Basement.mxd
Print Date: 3/26/2018
Approved By:
Produced By: mjosef
Project: 0075.06

Figure 3-16
Power Station

Willamette Falls Legacy Project
Oregon City, Oregon



Legend

Asbestos
Lead

0 10 20
Feet

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Print Date: 3/26/2018
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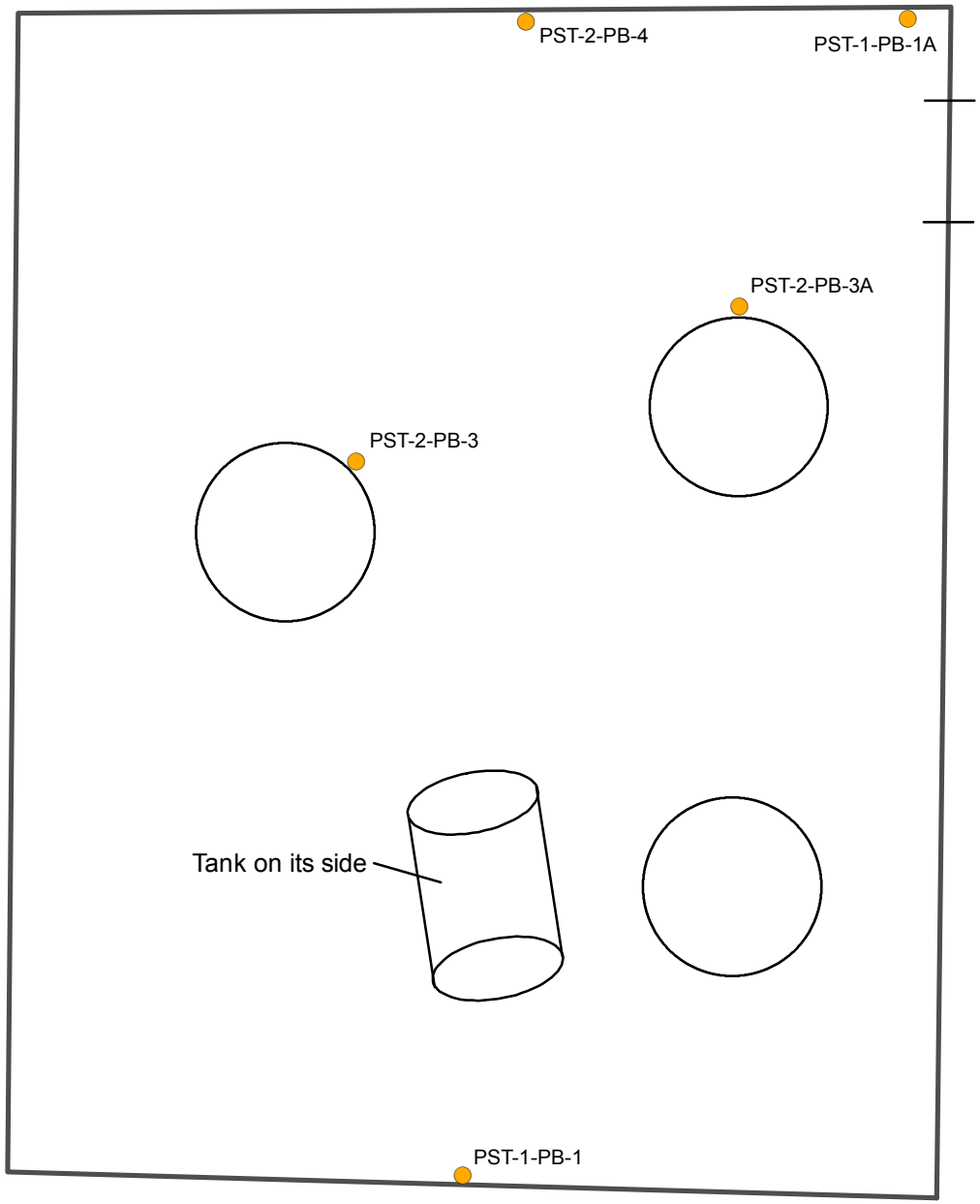

Figure 3-17
Pump Station

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Lead

0 3 6
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_PumpStation.mxd
Print Date: 3/26/2018
Approved By:
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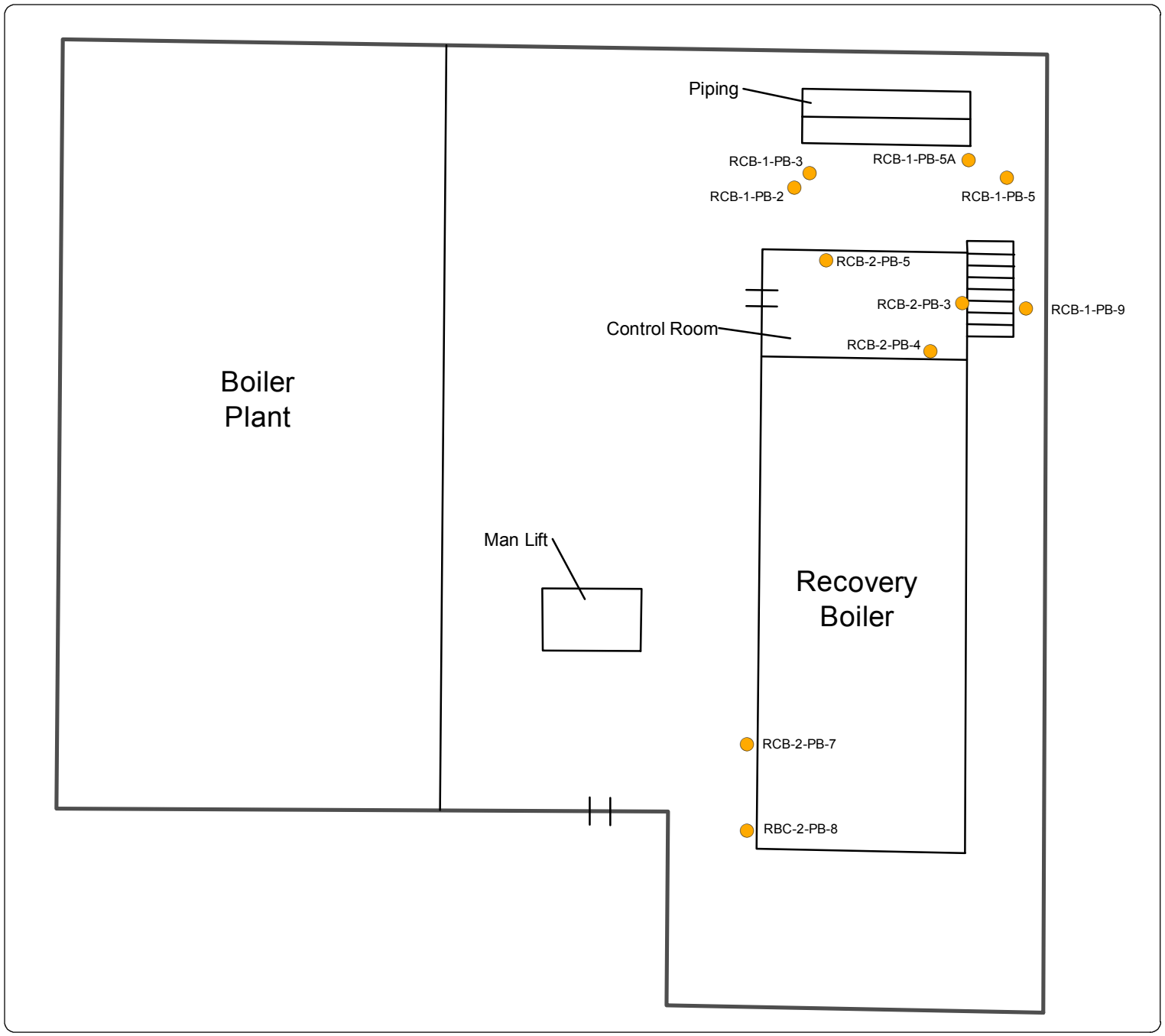

Figure 3-18
Sampling Locations
Recovery Boilers
Third Floor

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

Lead

0 6 12
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_RecoveryBoilers.mxd
Print Date: 3/26/2018
Approved By:
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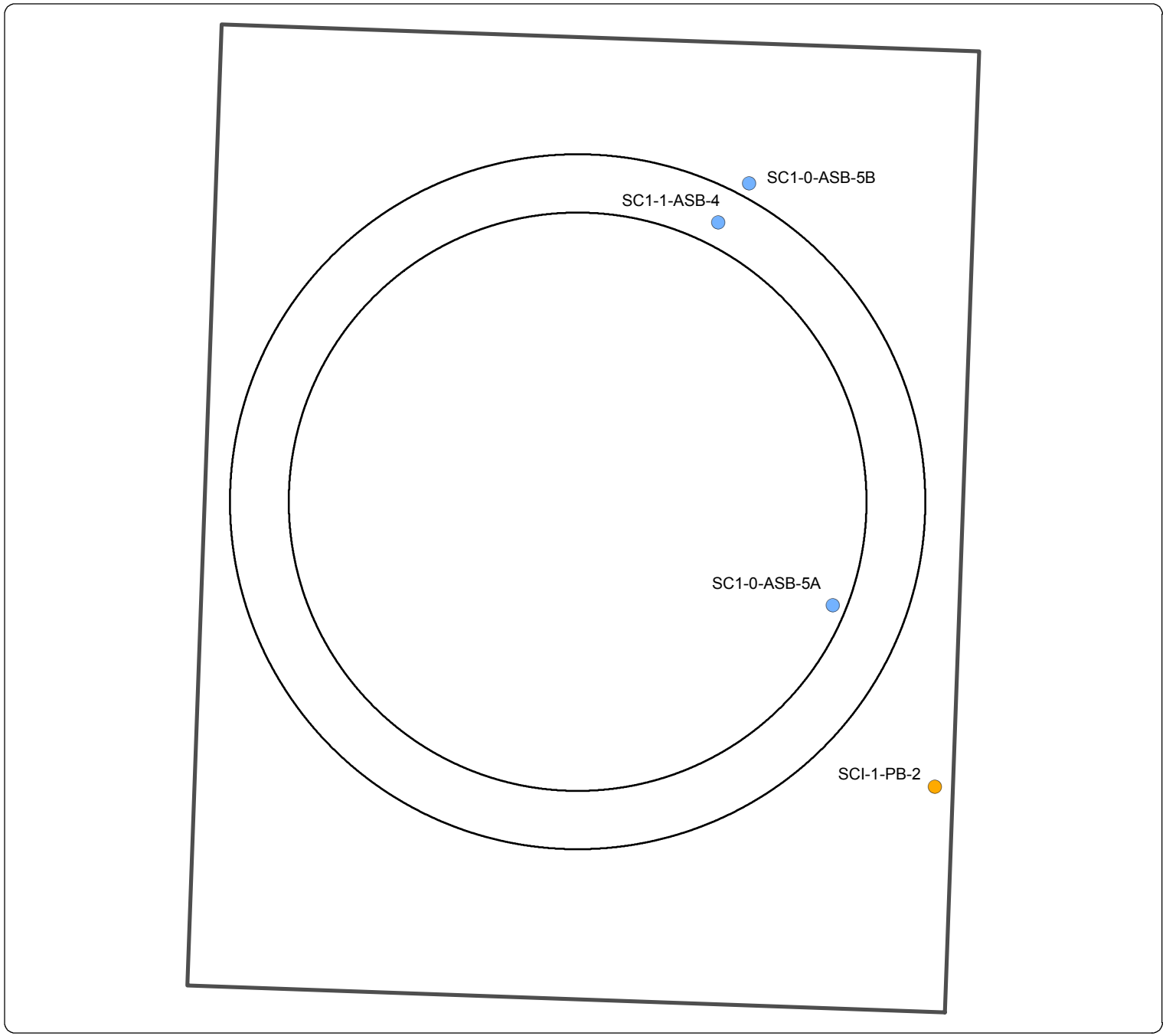

Figure 3-19
Stock Cylinder #1

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 4 8
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_StockCyl1.mxd
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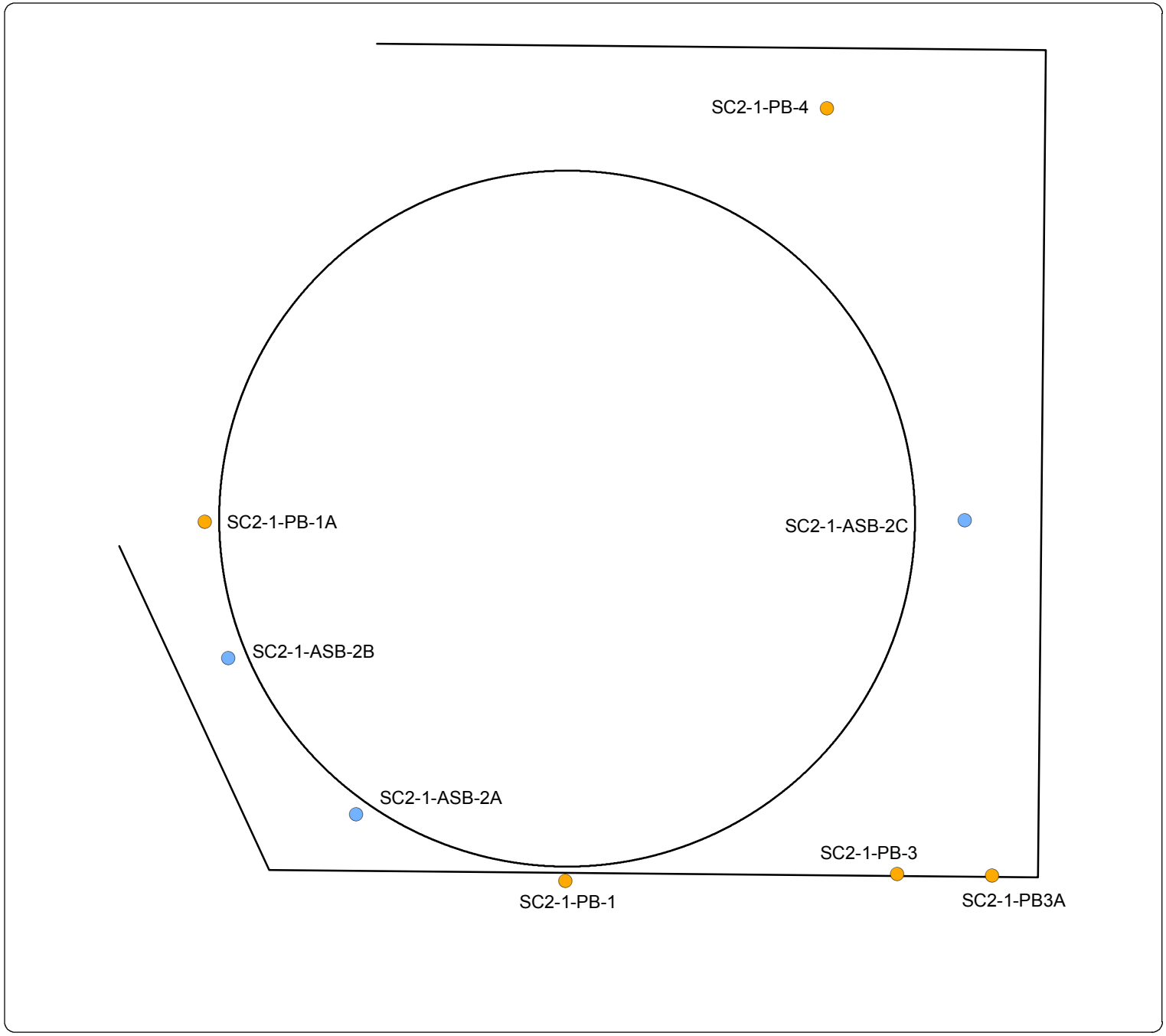

Figure 3-20
High-Density Stock Cylinder #2

Willamette Falls Legacy Project
Oregon City, Oregon

Legend

- Asbestos
- Lead

0 1.5 3
Feet

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Path: X:\0075.06\03\Projects\Figure_Build_StockCyl2.mxd
Print Date: 3/26/2018
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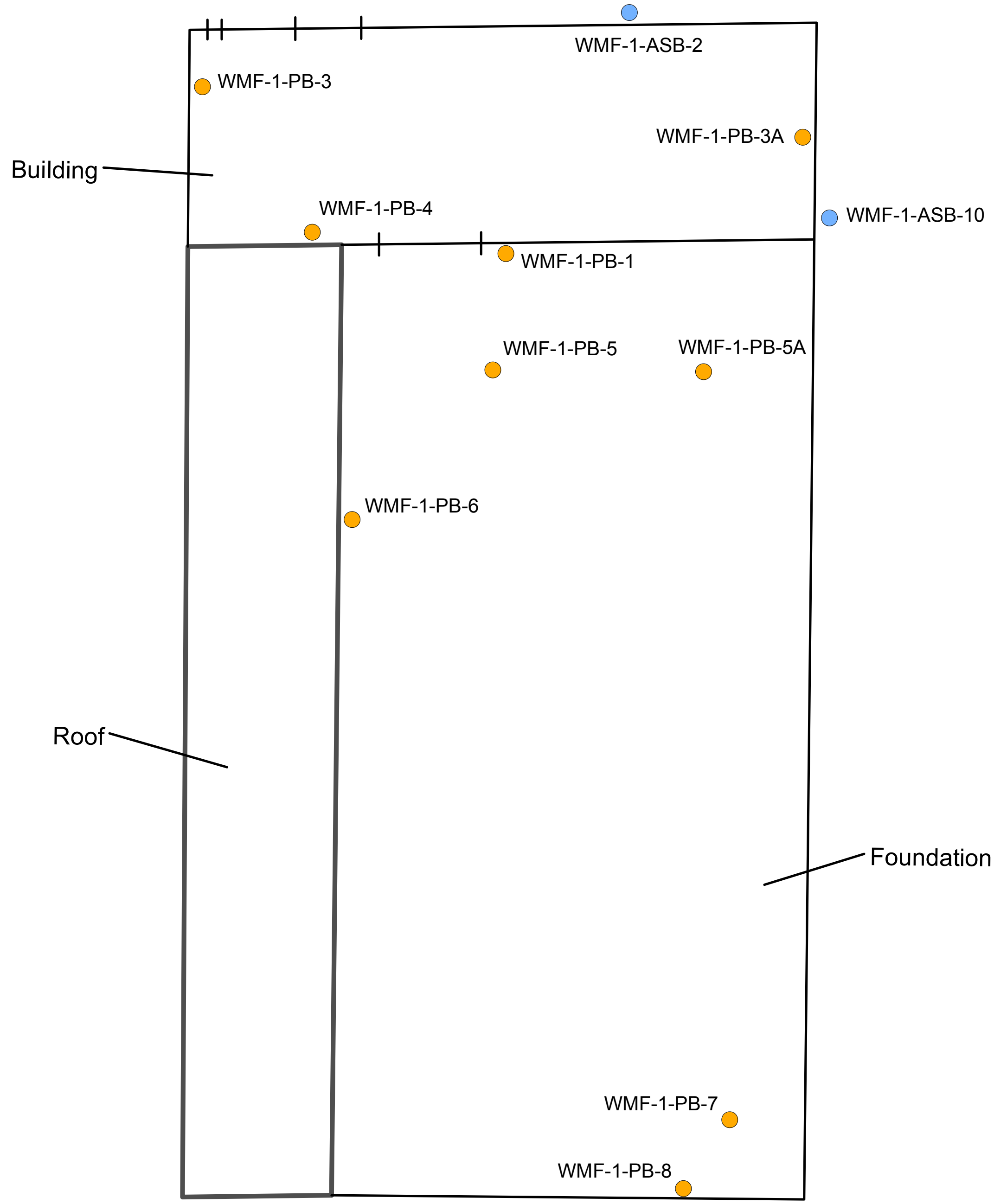
Project: 0075.06

Figure 3-21
Woolen Mill Foundation

Willamette Falls Legacy Project

Oregon City, Oregon



Legend

Asbestos

Lead

0 10 20
Feet

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p. 971 544 2139 | www.maulfoster.com

Project: 0075.06 Produced By: mjosef Approved By: Print Date: 3/26/2018 Path: X:\0075.06\03\Projects\Figure_Build_WoolenMillFound.mxd

APPENDIX A

AHERA CERTIFICATES

Certificate of Completion

This is to certify that

Emily Curtis

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

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

Certificate #
160944

Instructor
EPA Provider Certificate #1085

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Feb 1, 2017
Date(s) of Training
Exam Score: NA
Expiration Date: Feb 1, 2018

ARGUS PACIFIC, INC / 1900 WEST NICKERSON ST, SUITE 315 / SEATTLE, WASHINGTON 98119 / 206.285.3373 / ARGUSPACIFIC.COM

Certificate of Completion

This is to certify that

Kyle Roslund

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

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

Certificate #
160946

Instructor
EPA Provider Certificate #1085

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Feb 1, 2017
Date(s) of Training
Exam Score: NA
Expiration Date: Feb 1, 2018

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APPENDIX B

FIELD SAMPLING DATA SHEETS

Field Sampling Data Sheets

Project Name:	0075.06.03 - Willamette Falls
Client Name:	Metro Regional Government
Field Personnel:	Emily Curtis; Kyle Roslund

Observations: Access Along Main Street

Observation ID:	**Detailed Sample Location:**
HBM-AAM-1-PB-1	Exterior painted surfaces of butler building
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-2	Yellow bumpers and guardrails
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Yellow	2,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-3	Exterior painted surfaces of woolen mill
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	150 sq. ft.

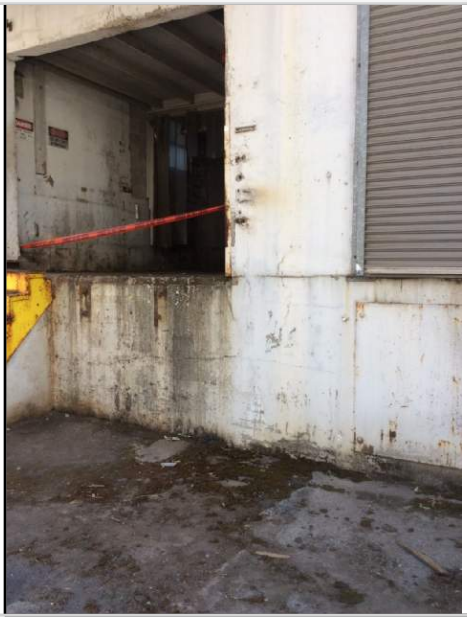
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-4	Painted stock cylinder concrete base
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	200 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-5	#1 paper mill painted exterior
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Off white	400 sq. ft.

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-6	Painted sphere
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	400 sq. ft.

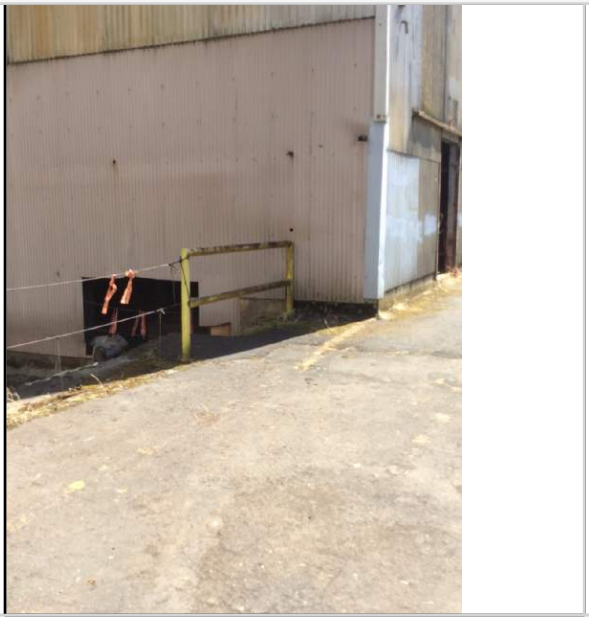
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-7	Painted surfaces and transite on sulfate plant
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Grey	Entire wall face on Main Street

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-8	Digester area yellow painted barriers
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Yellow	80 sq. ft.

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-9	White painted surfaces along number 4 paper mill
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	2,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-ASB-10	Transite on number 4 paper mill
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

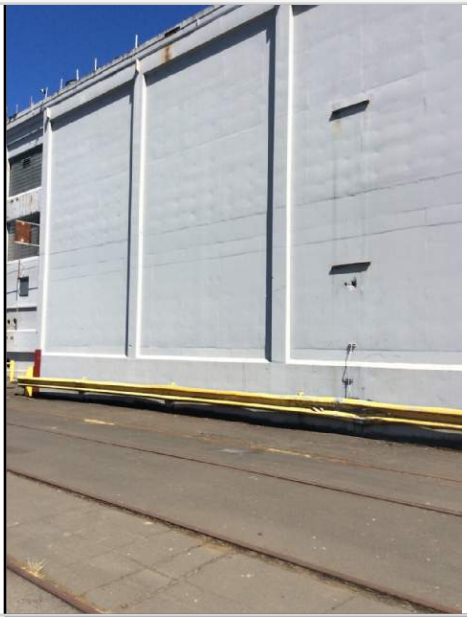
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	200 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-11	White painted surface of number 4 paper mill
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	2,000 sq. ft.

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-12	Exterior painted surfaces of Denke paper mill building
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	4,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-ASB-13	Storage cylinder
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	
Is the Sample Friable?:	**Sample Condition:**
No	Potential ACBM with potential for damage
Sample Color:	**Sample Quantity:**
	400 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-14	Painted surfaces of Denke repulper
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	2,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-ASB-15	Mill D warehouse exterior painted surfaces and transite
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	5,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-16	Painted surfaces of number 2 paper mill
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	1,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-AAM-1-PB-13	Storage cylinder
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Tan	400 sq. ft.

Sample Photo:

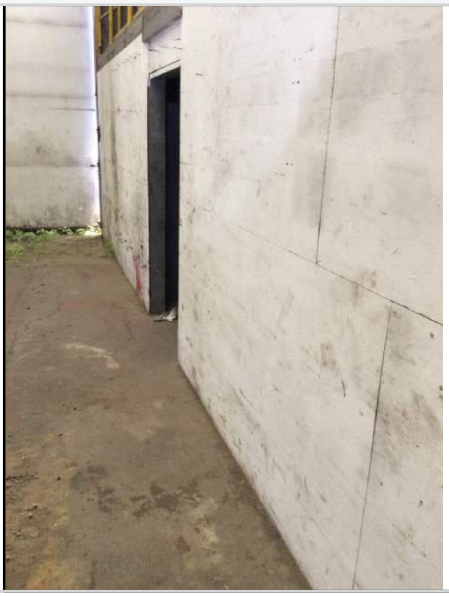
Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Auto Shop

Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-1	Gray painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Dark gray	800 sq. ft.
Sample Photo:	

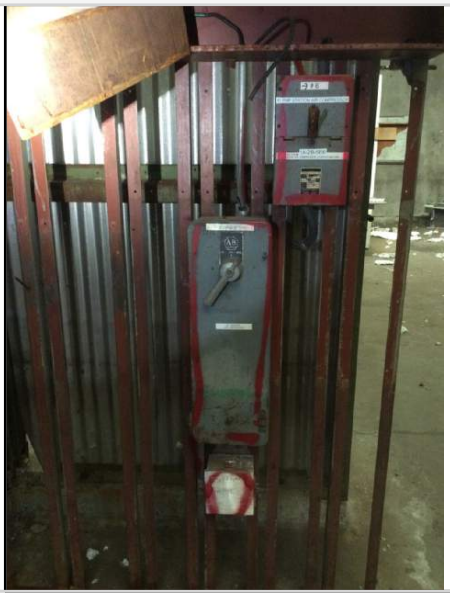
Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-2	White painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	350 sq. ft.
	Sample Photo:



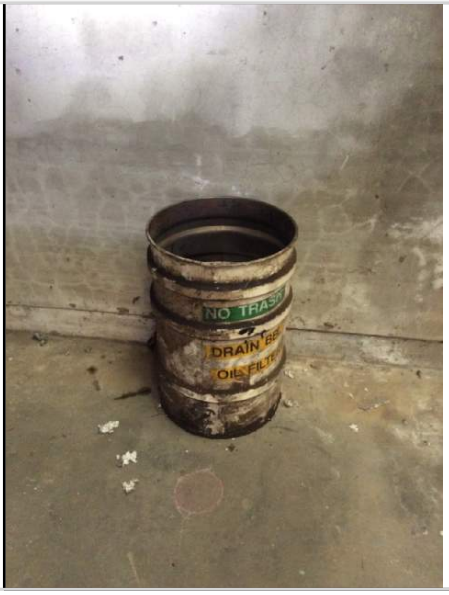
Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-3	Green painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Medium green	50 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-4	Glossy white painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Glossy white	300 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-ASH-1-MISC-5	Electrical components
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Electrical boxes
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	3
Sample Photo:	

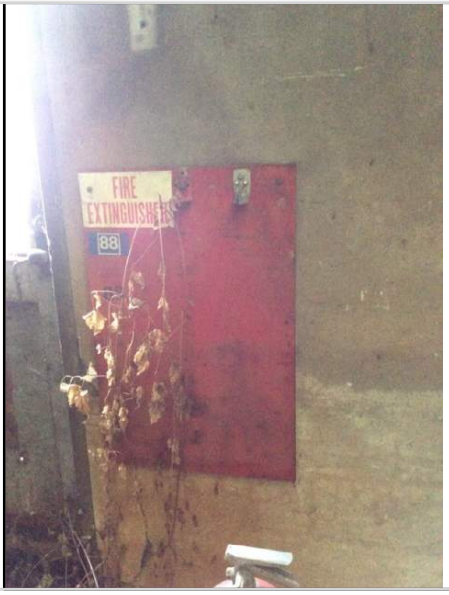


Observation ID:	Detailed Sample Location:
HBM-ASH-1-MISC-6	Drum
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	55 gallon drum
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-7	Dark green painted metal building framing
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Dark green	2,000 linear feet
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-ASH-1-PB-8	Red fire paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	200 sq. ft.
Sample Photo:	

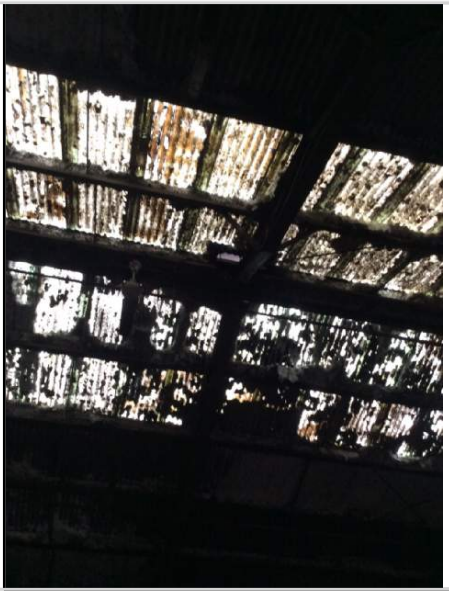


Observation ID:	Detailed Sample Location:
HBM-ASH-1-ASB-9	Cellulose insulation
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Damaged friable surfacing ACM

Sample Color:	Sample Quantity:
	3500 sq. ft.

Sample Photo:



Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Butler Building

Observation ID:	Detailed Sample Location:
HBM-BBL-1-PB-1	Red painted superstructure
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Dark red	5,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BBL-1-PB-2	Light green painted interior surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	300 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BBL-1-MISC-3	Sodium light fixtures
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	6
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BBL-1-PB-4	Bright red fire suppression painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Bright red	800 linear feet
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BBL-1-PB-5	Exterior painted surfaces, off white
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Off white	7,400 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Boiler Plant

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-1	Green painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	4,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-2	Gray painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	4,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-3	Silver boiler, may contain asbestos
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Silver	750 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-ASB-4	Silver coated brick
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

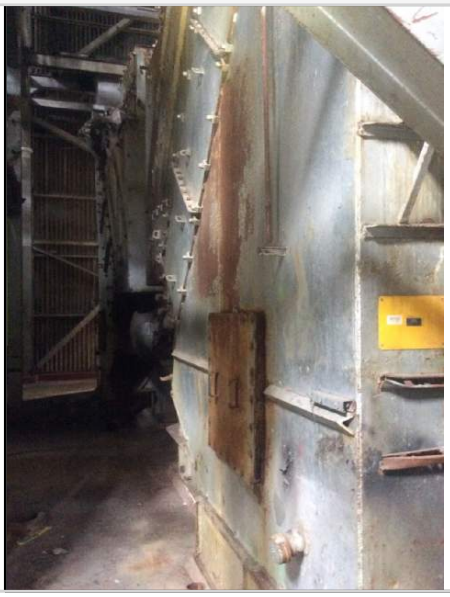
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	200 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-BPT-1-MISC-5	Man lift motor
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Motor
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-1	Boilers, 4
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	4,500 sq. ft. (asbestos containing)
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-2	Green boiler (asbestos containing)
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Green	1,600 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-3	Large silver boiler (asbestos containing)
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Silver	3,500 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-ASB-4	Transite siding and roofing
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

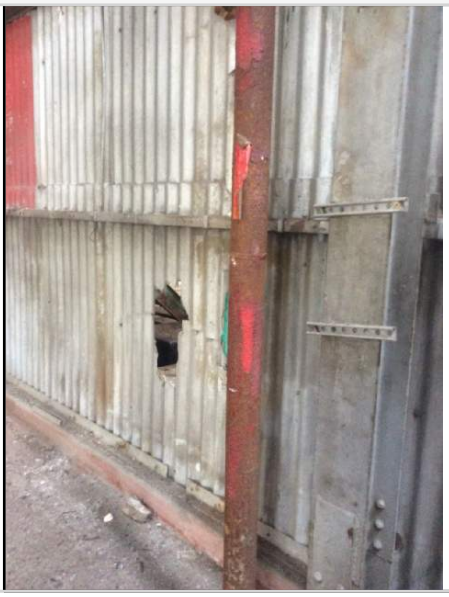
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	16,800 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-5	Gray interior painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray, rusty	20,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-6	Red rusty fire suppression
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red, rusty	3,000 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-BPT-2-ASB-7	Transite panels in small boiler room
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	160 sq. ft.

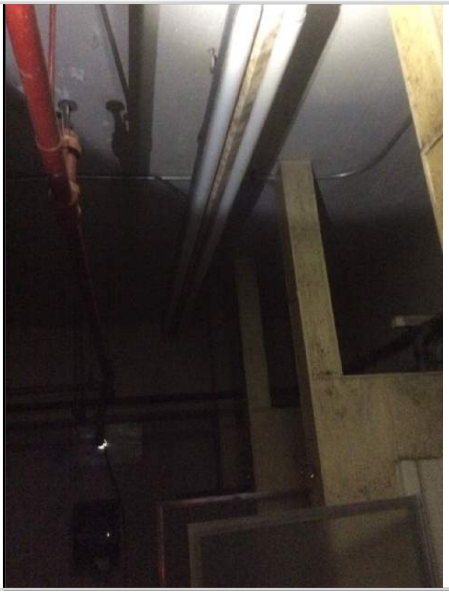
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-BPT-1-MISC-8	Fluorescent light fixtures, locker room
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	9

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-BPT-1-ASB-9	Vinyl wall coverings, locker room
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	300 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-10	Gray painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	2,000 sq .ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-ASB-11	HVAC compound
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	300 linear feet

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-BPT-1-HGF-12	Locker room, thermostat
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
HGF	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-PB-13	White walls in control room
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	300 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-2-ASB-14	Control room vinyl material on tin roof/overhang (black vinyl with silver coating on back)
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	
Is the Sample Friable?:	**Sample Condition:**
No	Potential ACBM with potential for damage
Sample Color:	**Sample Quantity:**
	30 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-15	White painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	1,500 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-16	Blue painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Bright blue	80 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-17	Gray lockers
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-BPT-1-PB-18	Green base on lockers
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Green	300 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Carpentry Shop

Observation ID:	Detailed Sample Location:
HBM-CSH-1-PB-1	Light green interior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-CSH-1-PB-2	Gray painted interior surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-CSH-1-PB-3	White interior painted surfaces, ceiling and beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	Building footprint
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-CSH-1-PB-4	Red painted interior surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	50 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-CSH-1-MISC-5	Fluorescent light fixtures and ballasts
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	11

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-CSH-1-MISC-6	Tote and 2 drums
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Tote and 2 drums
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	3
Sample Photo:	

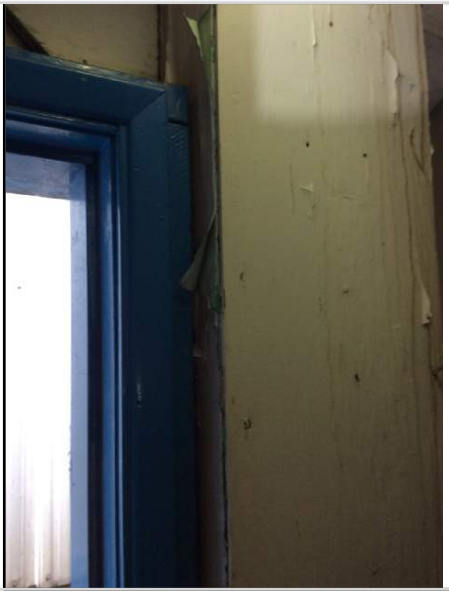
Observation ID:	Detailed Sample Location:
HBM-CSH-1-MISC-7	Exterior lights
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	3

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-CSH-1-PB-8	Cream paint in restroom
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Cream	100 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-CSH-2-PB-9	Tan paint in entryway
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Tan	5,000 sq. ft.
Sample Photo:	

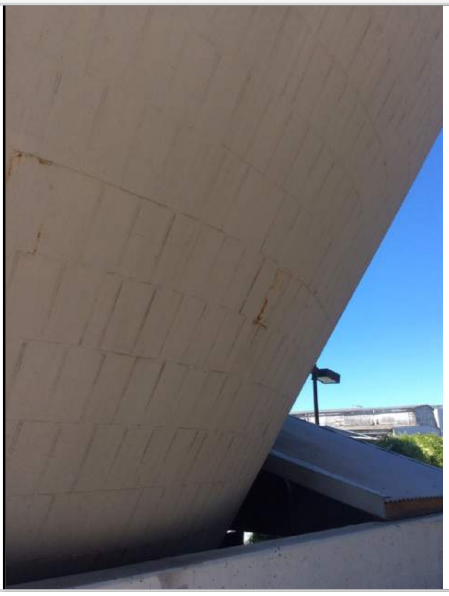
Observation ID:	Detailed Sample Location:
HBM-CSH-2-PB-10	Black paint in entryway
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Black	500 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: High-Density Stock Cylinder #2

Observation ID:	Detailed Sample Location:
HBM-HSC-1-PB-1	Stock cylinder 2 (no shed)
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	10,000 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-HSC-1-ASB-2	Concrete block
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	10,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-HSC-1-PB-3	Painted exterior roofing
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	100 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Mill H Reject

Observation ID:	Detailed Sample Location:
HBM-MHR-1-PB-1	Interior green painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	10,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MHR-1-ASB-2	Exterior transite siding
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

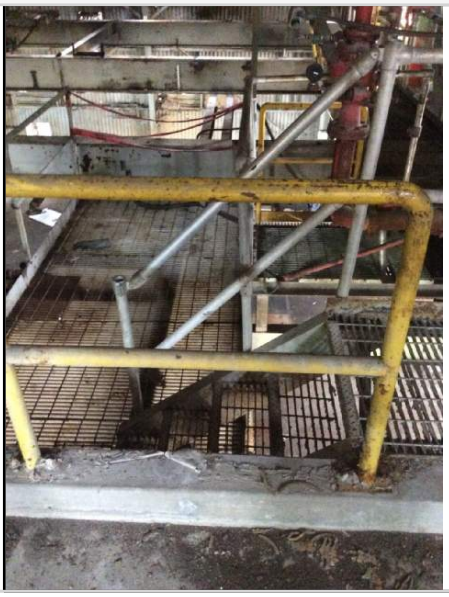
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	15,300 sq. ft.

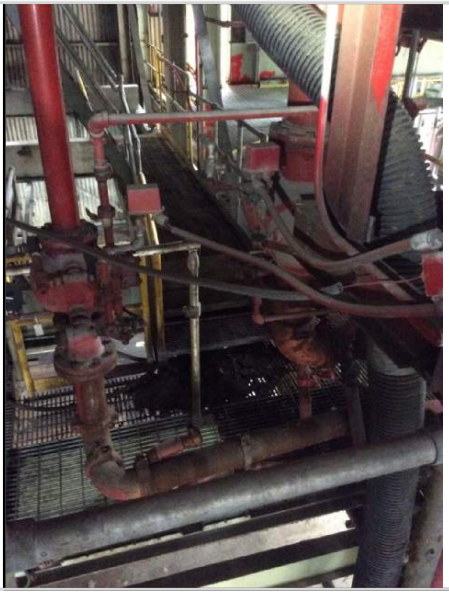
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MHR-1-PB-3	Interior gray painted beams, catwalks
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	20,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MHR-1-PB-4	Yellow interior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Yellow	5,000 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-MHR-1-PB-5	Red interior painted fire suppression
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	5,000 sq. ft.
Sample Photo:	

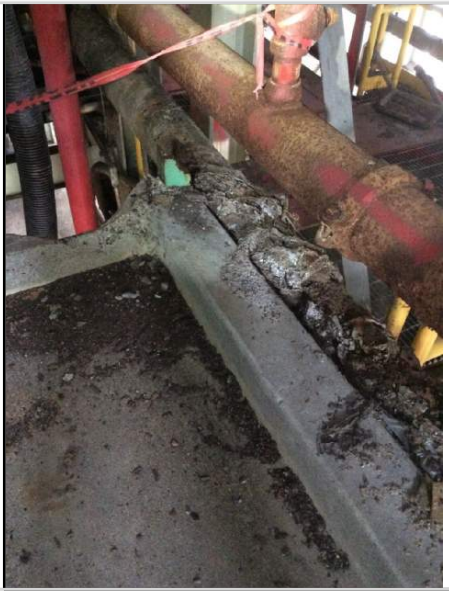


Observation ID:	Detailed Sample Location:
HBM-MHR-2-ASB-6	4" pipe insulation
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Damaged or significantly damaged

Sample Color:	Sample Quantity:
	24 linear feet

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-MHR-1-MISC-7	Man lift motor
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Motor with hydraulic fluid
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MHR-1-MISC-8	Exterior lighting
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	3
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MHR-1-ASB-9	Reject building asphaltic roofing
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	7,000 sq. ft.

Sample Photo:

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Mill H

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-1	Interior white painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	2,000 sq. ft. on walls and 9,000 sq. ft. on beams
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-2	Red fire suppression
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	1,200 sq. ft.
Sample Photo:	

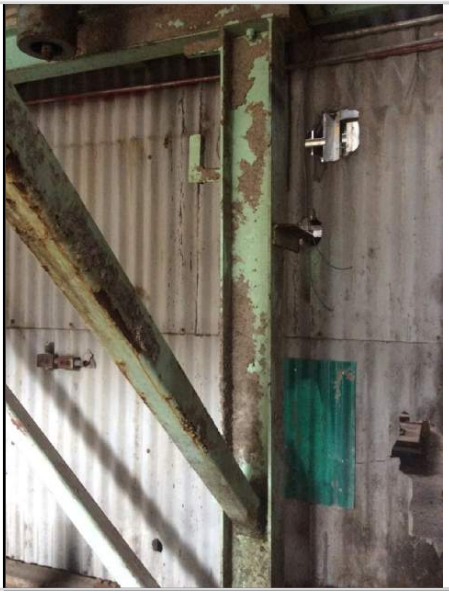
Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-3	Transite siding
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	10,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-4	Green painted interior beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	2,000 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-5	Gray interior painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-6	Red interior painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	120 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-7	Office transite panels
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	350 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-8	Control center exterior surfaces, white
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	400 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-9	Exterior control room painted surfaces, gray
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-10	Control room interior painted surfaces, white
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	3,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-11	Wallboard
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	3,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-12	Acoustic ceiling tiles
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	800 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-13	Blue interior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Blue	300 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-14	Light gray laminate counter top with yellow mastic
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	20 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-MISC-15	Fluorescent light fixtures
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	22

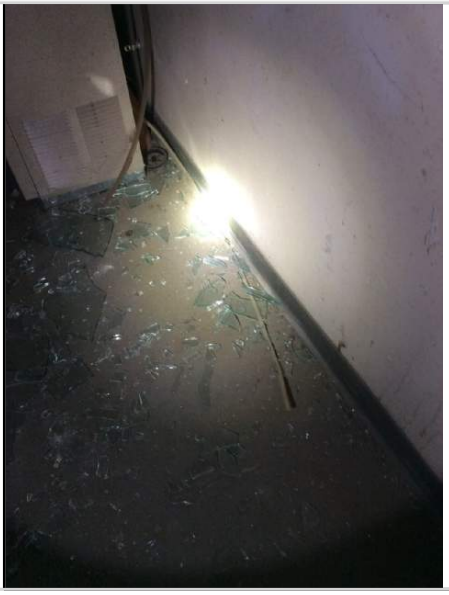
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-16	Gray base cove with dark brown mastic
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	400 linear feet

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-17	Blue poured flooring
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	300 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-18	6" pipe insulation
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Damaged or significantly damaged

Sample Color:	Sample Quantity:
	120 linear feet

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-19	Doorway vinyl seal
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	30 sq. ft.

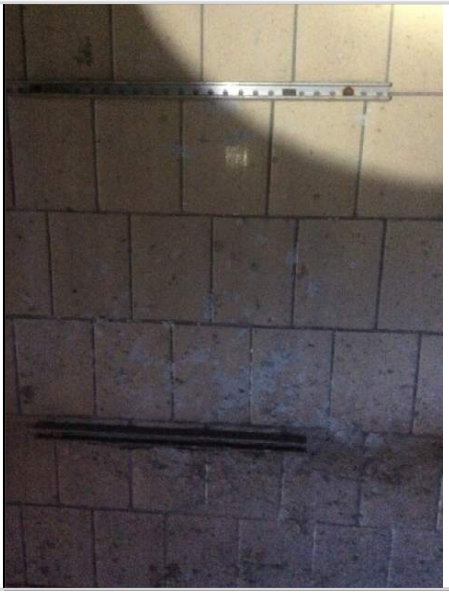
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-20	Interior green painted columns and beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light green	2,000 sq. ft.
	Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-21	Gray interior painted beams and columns
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	4,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-22	Red fire suppression painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	2,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MLH-1-PB-23	Light tan ceramic block and mortar, may contain asbestos
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light tan	6,000 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-MLH-1-ASB-24	Acoustic tile with glue dots
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	90 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-MISC-25	Small office light fixture
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixture

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	1

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-MISC-26	Storage tanks, V Brite
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Tanks

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	2

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MLH-1-MISC-27	Storage area universal waste
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Bulbs, solid waste
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	Unknown
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Millwright Shop

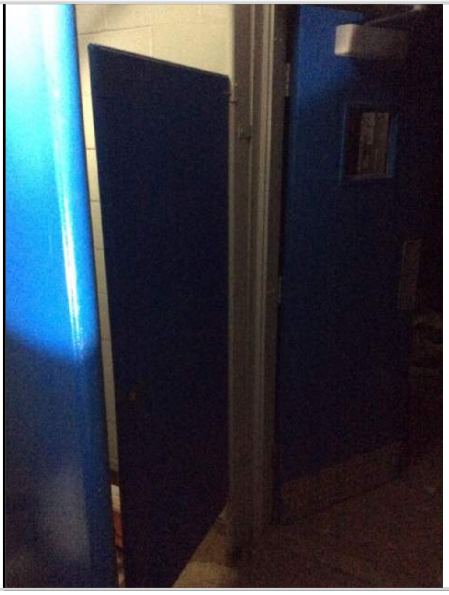
Observation ID:	Detailed Sample Location:
HBM-MWS-2-PB-1	2nd floor office white paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	700 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MWS-2-PB-2	Fire suppression red paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	400 linear feet of 4" pipe and 80 feet of 6" pipe
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MWS-1-PB-3	Dark red painted metal superstructure
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Dark red	3,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MWS-1-PB-4	Office and restroom glossy white painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Glossy white	2,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MWS-1-PB-5	Blue painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Bright blue	50 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-MWS-1-ASB-6	Restroom counter, light blue with yellow mastic
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	10 sq. ft.

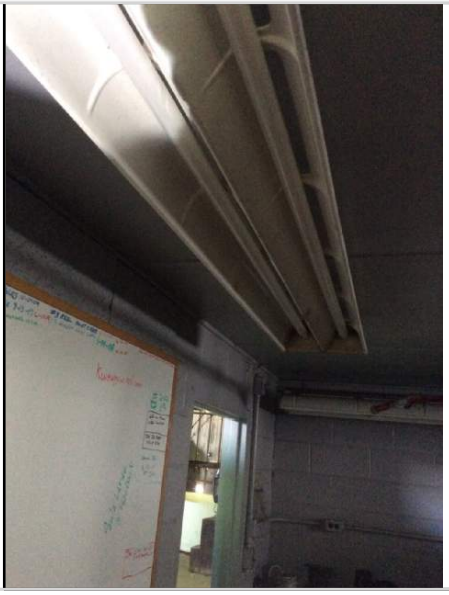
Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MWS-1-MISC-7	Office area fluorescent light fixtures
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	10 total

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-MWS-1-HGF-8	Thermostat
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
HGF	
Sample Color:	**Sample Quantity:**
	2
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-MWS-1-MISC-9	3 poly tanks
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Large poly tanks
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	3
Sample Photo:	

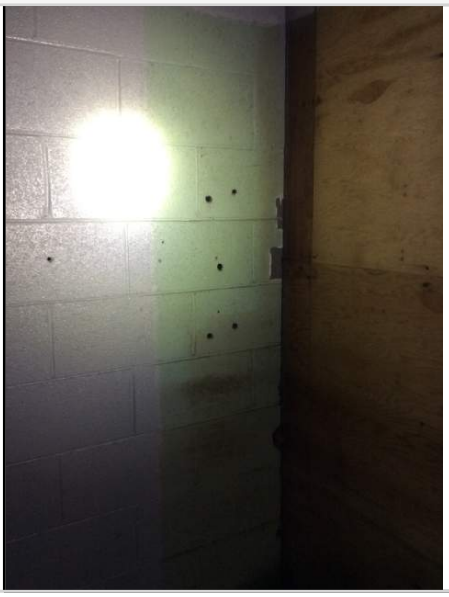
Observation ID:	Detailed Sample Location:
HBM-MWS-1-ASB-10	Shop exterior joint compound
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	20 linear feet

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-MWS-1-PB-11	Green paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Green	100 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-MWS-1-ASB-12	Acoustic tile with dark brown glue
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	100 sq. ft.

Sample Photo:

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Paper Mill 1

Observation ID:	Detailed Sample Location:
HBM-PM1-1-PB-4	Yellow exterior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light yellow	100 sq. ft.
	Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PM1-O-MISC-1	PM1 basement petroleum-coated columns
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Petroleum
Is the Sample Friable?:	**Sample Condition:**
No	Other
Sample Color:	**Sample Quantity:**
	Throughout
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PM1-O-ASB-2	PM1 basement ceramic tile vessels and mortar
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	2,500 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PM1-O-PB-3	PM1 basement tan ceramic tile vessels
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Tan	2,500 sq. ft.
Sample Photo:	

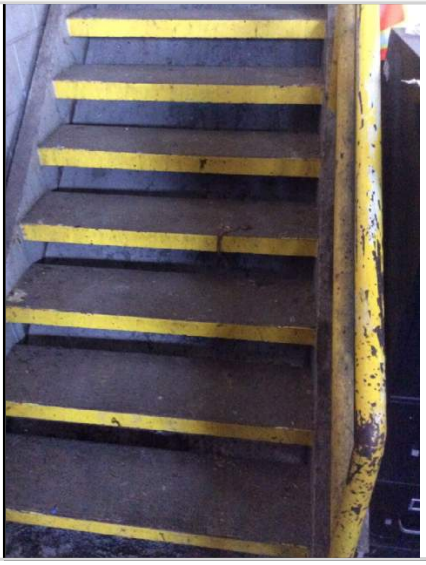
Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Pipe Shop

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-1	Throughout
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray interior painted surfaces	2,600 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-2	Yellow trim paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Yellow	100 sq. ft.
Sample Photo:	



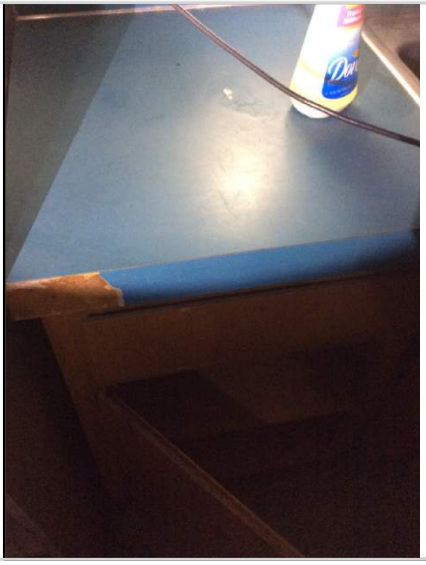
Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-3	Blue trim
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Blue	100 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-ASB-4	Blue laminate countertop with yellow mastic
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	40 sq. ft.

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-PSH-2-ASB-5	White wallboard
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	300 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PCF-6	Electrical panel north wall, smaller switches throughout
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PCF	
Sample Color:	**Sample Quantity:**
	1 large, 8 small
Sample Photo:	

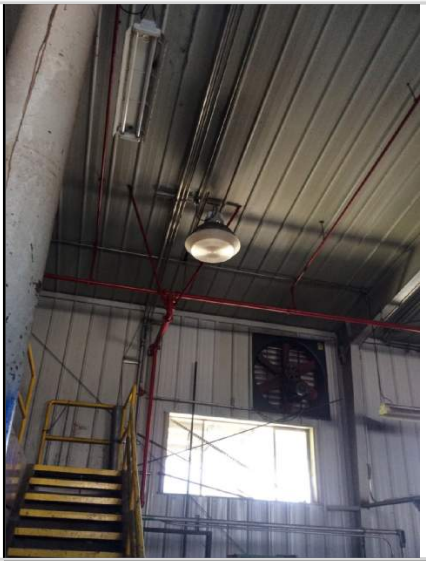
Observation ID:	Detailed Sample Location:
HBM-PSH-1-HGF-7	Mercury switch
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
HGF	
Sample Color:	**Sample Quantity:**
	2. One on 1st floor, one on 2nd floor
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-MISC-8	7 large sodium light fixtures
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixture

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	7

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-PSH-1-MISC-9	Fluorescent fixtures and ballasts
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixture
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	15
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-MISC-10	Antifreeze drum
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	55-gallon drum
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-11	Exterior painted surface
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Medium gray	
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-12	Exterior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Medium gray	
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-MISC-13	Exterior lighting
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures

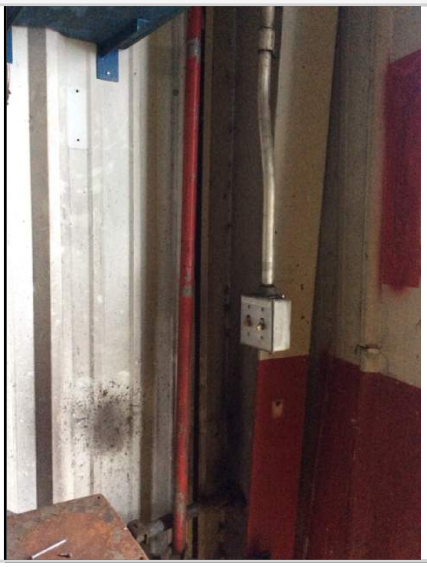
Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	6

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-14	White exterior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	200 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PSH-1-PB-15	Red fire suppression
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	100 sq. ft.
Sample Photo:	



Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Pump Station

Observation ID:	Detailed Sample Location:
HBM-PST-1-PB-1	Interior off-white painted surfaces
Type of Sample: PB	**Specify Miscellaneous Material (if applicable):**
Sample Color: Off-	
white, peeling	**Sample Quantity:**
	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PST-2-PB-3	Storage tanks
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Blue	800 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PST-2-ASB-2	Transite siding
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	1000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PST-2-PB-4	Green painted interior beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Green	1,000 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Power Station

Observation ID:	Detailed Sample Location:
HBM-PWS-1-PB-1	Exterior painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Off-white	1,200 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PWS-1-PB-2	Exterior painted transite
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Off-white	5,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PWS-1-ASB-3	Transite siding
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

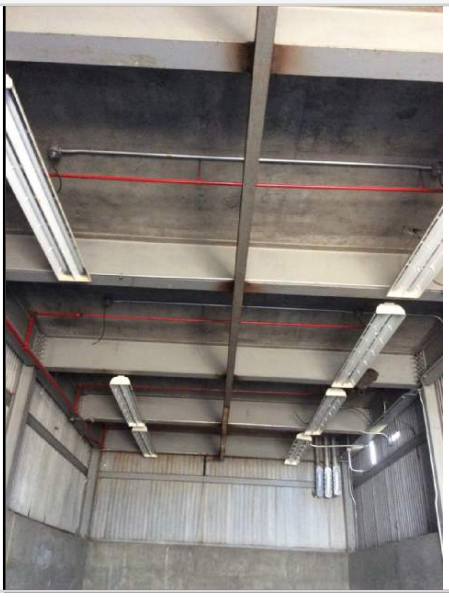
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	5,000 sq. ft.

Sample Photo:

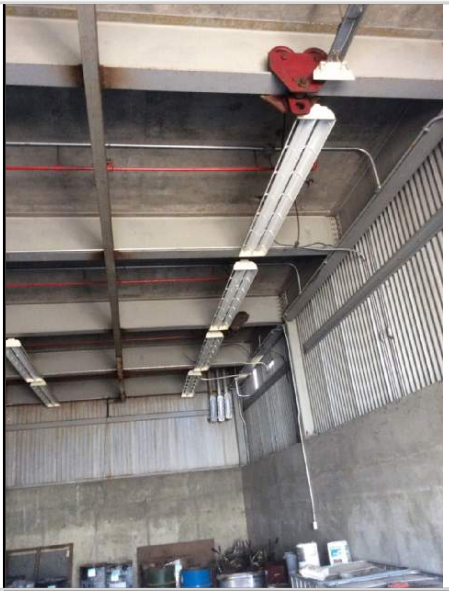
Observation ID:	Detailed Sample Location:
HBM-PWS-1-MISC-4	Miscellaneous material
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Oil and other material in first floor of power house
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	40 drums, 4 totes, and several buckets
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-PWS-1-PB-5	First floor roof beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	500 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-PWS-1-MISC-6	Fluorescent light fixtures and ballasts
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures
Is the Sample Friable?:	**Sample Condition:**
Sample Color:	**Sample Quantity:**
	11

Sample Photo:



Observation ID:	Detailed Sample Location:
HBM-PWS-2-ASB-7	Interior insulation backing and tape
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

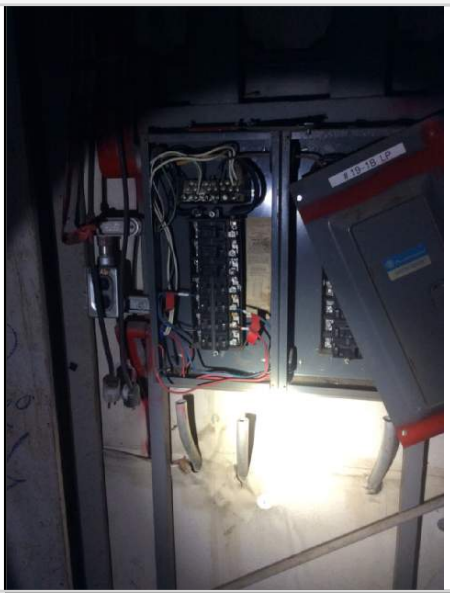
Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	1,500 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PWS-1-PB-8	Interior painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	900 sq. ft.
	Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-PWS-2-MISC-9	Electrical components
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Breaker boxes and transformer
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	2 boxes and 1 transformer
Sample Photo:	



Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Recovery Boilers

Observation ID:	Detailed Sample Location:
HBM-RCB-1-MISC-1	Poly storage tanks
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Poly tanks
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	2

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-RCB-1-PB-2	Yellow painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Yellow	200 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-1-PB-3	Gray painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	100 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-1-MISC-4	Electrical components
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Electrical switch boxes
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	2
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-1-PB-5	Blue painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Blue	40 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-1-ASB-1	Exterior transite siding
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for significant damage

Sample Color:	Sample Quantity:
	10,100 sq. ft.

Sample Photo:

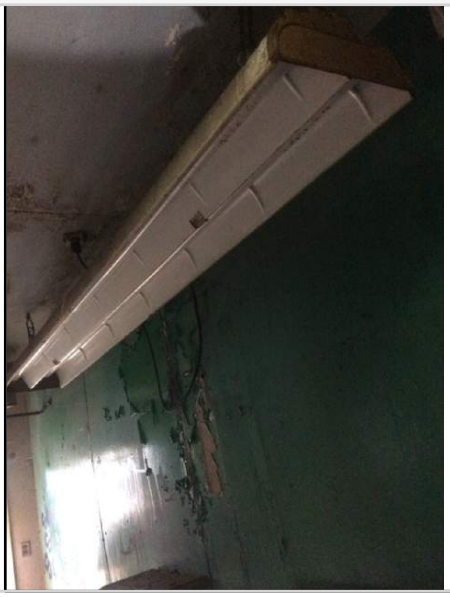
Observation ID:	Detailed Sample Location:
HBM-RCB-2-MISC-2	Exterior lighting
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixtures, north wall

Is the Sample Friable?:	Sample Condition:
No	

Sample Color:	Sample Quantity:
	6

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-RCB-2-MISC-6	Fluorescent light fixture
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
MISC	Light fixture
Is the Sample Friable?:	**Sample Condition:**
No	
Sample Color:	**Sample Quantity:**
	1
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-RCB-2-PB-3	Interior control room painted surfaces, gray
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	400 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-2-PB-4	Interior green painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Green	100 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-2-PB-5	Interior tan painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Tan	100 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-2-PB-7	Recovery boiler
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray, asbestos containing	4,500 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-2-PB-8	Interior gray painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Gray	10,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-RCB-1-PB-9	Red fire paint
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red	100 sq. ft.
Sample Photo:	

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Stock Cylinder #1

Observation ID:	Detailed Sample Location:
HBM-SC1-1-PB-2	Interior white painted beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	400 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-SC1-1-ASB-3	Roof penetration sealant
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	20 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-SC1-O-ASB-5	Stock cylinder base concrete block
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	10,000 sq. ft.

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-SC1-1-ASB-4	Ceiling pipe gasket
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	10 sq. ft.

Sample Photo:

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Third Street Covered Areas

Observation ID:	Detailed Sample Location:
HBM-TSC-1-PB-1	Exterior painted surfaces where flaking, beams
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light gray	4,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-TSC-1-ASB-2	Hard joints and TSI
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Damaged or significantly damaged

Sample Color:	Sample Quantity:
	80 linear feet

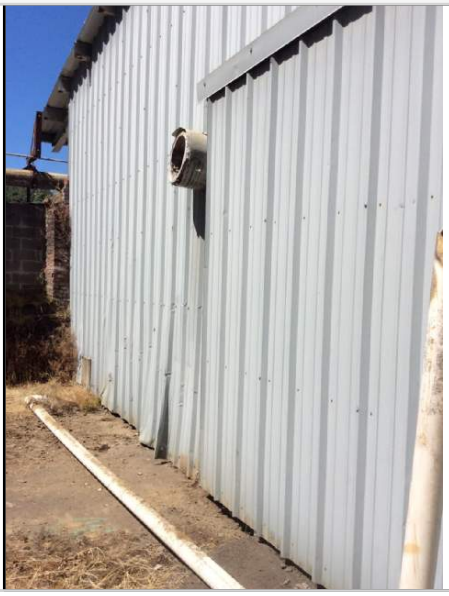
Sample Photo:

Field Sampling Data Sheets

MAUL FOSTER ALONGI

Observations: Woolen Mill Foundations / Covered Areas

Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-1	Exterior painted surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light blue	Building footprint
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-WMF-1-ASB-2	South exterior penetration and insulation
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	4 sq. ft.

Sample Photo:

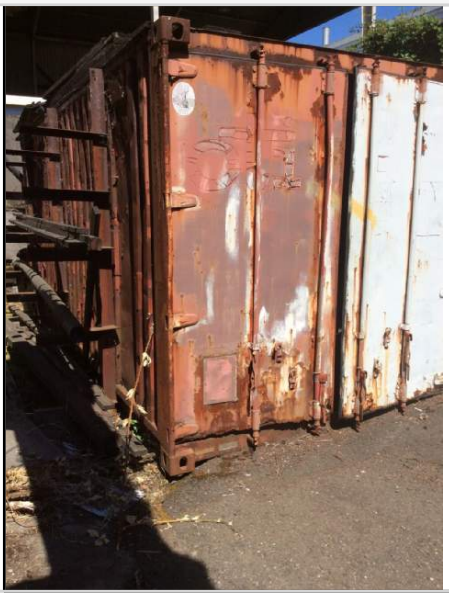
Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-3	Interior painted beam surfaces
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	3,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-4	Interior painted ceiling and walls
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	Building footprint (X1.5)
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-5	White painted lean-to structure
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
White	200 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-6	Red painted steel roofing beams (crossbeams and poles aren't painted)
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Dark red	1,000 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-7	Red and white shipping container
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Red and white	800 sq. ft.
Sample Photo:	



Observation ID:	Detailed Sample Location:
HBM-WMF-1-PB-8	Yellow painted railings
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
PB	
Sample Color:	**Sample Quantity:**
Light yellow	10 sq. ft.
Sample Photo:	

Observation ID:	Detailed Sample Location:
HBM-WMF-1-ASB-9	Exterior 12" pipe wrap
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
No	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	200 linear feet

Sample Photo:

Observation ID:	Detailed Sample Location:
HBM-WMF-1-ASB-10	Penetration mud
Type of Sample:	**Specify Miscellaneous Material (if applicable):**
ASB	

Is the Sample Friable?:	Sample Condition:
Yes	Potential ACBM with potential for damage

Sample Color:	Sample Quantity:
	4 sq. ft.

Sample Photo:

APPENDIX C

LABORATORY ANALYTICAL REPORTS

December 15, 2017

Kyle Roslund
Maul Foster & Alongi, Inc.
400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1722301.00

Client Project: 0075.06.02
Location: Oregon City, OR - Will Falls

Dear Mr. Roslund,

Enclosed please find test results for the 30 sample(s) submitted to our laboratory for analysis on 12/8/2017.

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

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

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

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

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

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

Sincerely,

Lori Tseng, Laboratory Analyst

Enc.: Sample Results

NVLAP Lab Code: 102063-0

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1.888.(685.5227)
www.nvllabs.com

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123929 **Client Sample #: PSH-1-ASB-4**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** Brown flat hard compressed fibrous material with blue surface			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Laminate/binder	Cellulose	57%	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	<1%	**None Detected ND**

Lab ID: 17123930 **Client Sample #: PSH-2-ASB-5A**
Location: Oregon City, OR - Will Falls

Layer 1 of 1	**Description:** White chalky material with paper and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler, Paint	Cellulose	20%	**None Detected ND**
		Glass fibers	6%	

Lab ID: 17123931 **Client Sample #: PSH-2-ASB-5B**
Location: Oregon City, OR - Will Falls

Layer 1 of 1	**Description:** White chalky material with paper and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler, Paint	Cellulose	23%	**None Detected ND**
		Glass fibers	5%	

Lab ID: 17123932 **Client Sample #: PSH-2-ASB-5C**
Location: Oregon City, OR - Will Falls

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 2 **Description:** White textured powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Paint	Cellulose <1%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Binder/Filler	Cellulose 21%	**None Detected ND**
	Glass fibers 6%	

Lab ID: 17123933 **Client Sample #: MWS-1-ASB-6**
Location: Oregon City, OR - Will Falls

Layer 1 of 2 **Description:** Brown flat hard compressed fibrous material with blue surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Laminate/binder	Cellulose 54%	**None Detected ND**

Layer 2 of 2 **Description:** Yellow soft mastic (on wood)

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder	Cellulose 3%	**None Detected ND**

Lab ID: 17123934 **Client Sample #: MWS-1-ASB-10**
Location: Oregon City, OR - Will Falls

Layer 1 of 1 **Description:** Clear soft material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Caulking compound, Paint	None Detected ND	**None Detected ND**

Lab ID: 17123935 **Client Sample #: MWS-1-ASB-12**
Location: Oregon City, OR - Will Falls

Layer 1 of 2 **Description:** Gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Glass beads	Cellulose 42%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

		Perlite, Paint	Glass fibers 31%	
Layer 2 of 2	**Description:**	Brown brittle mastic		
		Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
		Mastic/Binder	Cellulose <1%	**None Detected ND**

Lab ID: 17123936 **Client Sample #: ASH-1-ASB-9A**
Location: Oregon City, OR - Will Falls

Layer 1 of 1	**Description:**	White fibrous material		
		Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
		Binder/Filler, Fine particles	Glass fibers 89%	**None Detected ND**

Lab ID: 17123937 **Client Sample #: ASH-1-ASB-9B**
Location: Oregon City, OR - Will Falls

Layer 1 of 1	**Description:**	White/gray fibrous material with paint		
		Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
		Binder/Filler, Fine particles, Paint	Glass fibers 85%	**None Detected ND**

Lab ID: 17123938 **Client Sample #: BPT-1-ASB-4**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:**	Red brittle material		
		Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
		Binder/Filler, Mineral grains	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:**	Gray sandy brittle material		
		Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
		Binder/Filler, Fine particles, Sand	None Detected ND	**None Detected ND**
		Mica		

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123939 **Client Sample #: BPT-1-ASB-9A**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Glass fibers	34%	**None Detected ND**
Layer 2 of 2	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	<1%	**None Detected ND**

Lab ID: 17123940 **Client Sample #: BPT-1-ASB-9B**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Glass fibers	36%	**None Detected ND**
Layer 2 of 2	**Description:** Tan brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**

Lab ID: 17123941 **Client Sample #: BPT-1-ASB-9C**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Glass fibers	34%	**None Detected ND**
Layer 2 of 2	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123942 **Client Sample #: BPT-1-ASB-11A**
Location: Oregon City, OR - Will Falls
Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Caulking compound, Calcareous particles	None Detected ND	**None Detected ND**

Lab ID: 17123943 **Client Sample #: BPT-1-ASB-11B**
Location: Oregon City, OR - Will Falls
Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Caulking compound, Calcareous particles	Cellulose <1%	**None Detected ND**

Lab ID: 17123944 **Client Sample #: BPT-1-ASB-11C**
Location: Oregon City, OR - Will Falls
Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Caulking compound, Calcareous particles	None Detected ND	**None Detected ND**

Lab ID: 17123945 **Client Sample #: BPT-2-ASB-14**
Location: Oregon City, OR - Will Falls
Layer 1 of 1 **Description:** Black asphaltic material with plastic and metal foil

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Metal foil, Plastic	Cellulose <1%	**None Detected ND**

Lab ID: 17123946 **Client Sample #: WMF-1-ASB-2**
Location: Oregon City, OR - Will Falls
Layer 1 of 1 **Description:** Off-white/green fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Glass fibers 92%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123947 **Client Sample #: WMF-1-ASB-10**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** Light gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mineral grains	Cellulose <1%	**None Detected ND**
Layer 2 of 2	**Description:** Dark gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 17123948 **Client Sample #: AAM-1-ASB-13**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** Tan ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Tan brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains	None Detected ND	**None Detected ND**

Lab ID: 17123949 **Client Sample #: PSW-2-ASB-7A**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White woven fibrous material with white soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler	Glass fibers 68%	**None Detected ND**
Layer 2 of 2	**Description:** Yellow fibrous material with yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Glass fibers 86%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123950 **Client Sample #: PSW-2-ASB-7B**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White woven fibrous material with white soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Glass fibers	64%	**None Detected ND**
Layer 2 of 2	**Description:** Yellow fibrous material with yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Glass fibers	87%	**None Detected ND**

Lab ID: 17123951 **Client Sample #: PSW-2-ASB-7C**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White woven fibrous material with white soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Glass fibers	65%	**None Detected ND**
Layer 2 of 2	**Description:** Yellow fibrous material with yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Glass fibers	83%	**None Detected ND**

Lab ID: 17123952 **Client Sample #: PSW-2-ASB-7D**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White woven fibrous material with white soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler	Glass fibers	69%	**None Detected ND**
Layer 2 of 2	**Description:** Yellow fibrous material with yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder	Glass fibers	85%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123953 **Client Sample #: PSW-2-ASB-7E**
Location: Oregon City, OR - Will Falls

Layer 1 of 2 **Description:** White woven fibrous material with white soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Glass fibers 67%	**None Detected ND**

Layer 2 of 2 **Description:** Yellow fibrous material with yellow soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mastic/Binder	Glass fibers 90%	**None Detected ND**

Lab ID: 17123954 **Client Sample #: SCI-1-ASB-4**
Location: Oregon City, OR - Will Falls

Layer 1 of 1 **Description:** Tan fibrous material with black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Synthetic fibers 57%	**None Detected ND**

Lab ID: 17123955 **Client Sample #: SCI-1-ASB-5A**
Location: Oregon City, OR - Will Falls

Layer 1 of 3 **Description:** Gray fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 30%	**None Detected ND**
	Glass fibers 21%	
	Synthetic fibers 7%	

Layer 2 of 3 **Description:** Tan brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mineral grains	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 3 of 3	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	Cellulose	5%	**None Detected ND**

Lab ID: 17123956 **Client Sample #: SCI-1-ASB-5B**
Location: Oregon City, OR - Will Falls

Layer 1 of 1	**Description:** Gray brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Mineral grains	None Detected	ND	**None Detected ND**

Lab ID: 17123957 **Client Sample #: MLH-1-ASB-11A**
Location: Oregon City, OR - Will Falls

Layer 1 of 3	**Description:** White textured powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Binder/Filler	Cellulose	10%	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Paint	Cellulose	<1%	**None Detected ND**
Layer 3 of 3	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Binder/Filler	Cellulose	20%	**None Detected ND**
		Glass fibers	5%	

Lab ID: 17123958 **Client Sample #: MLH-1-ASB-11B**
Location: Oregon City, OR - Will Falls

Layer 1 of 2	**Description:** White textured powdery material with paper and mesh			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Calcareous binder	Cellulose	21%	**None Detected ND**

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: Oregon City, OR - Will Falls

Batch #: 1722301.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Glass fibers 10%

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials:% **Asbestos Type: %**

Gypsum/Binder, Binder/Filler Cellulose 24% **None Detected ND**

Glass fibers 5%

Sampled by: Client
Analyzed by: Welly Hsieh **Date:** 12/15/2017
Reviewed by: Lori Tseng **Date:** 12/15/2017

Lori Tseng, Laboratory Analyst

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

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ASBESTOS LABORATORY SERVICES

Company Maul Foster & Alongi, Inc.
Address 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660
Project Manager Mr. Kyle Roslund
Phone (971) 544-2139
Cell (503) 341-8112

NVL Batch Number **1722301.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 12/15/2017 **Time** 3:25 PM
Email krOslund@maulfoster.com
Fax

Project Name/Number: 0075.06.02 **Project Location:** Oregon City, OR - Will Falls

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 30 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17123929	PSH-1-ASB-4		A
2	17123930	PSH-2-ASB-5A		A
3	17123931	PSH-2-ASB-5B		A
4	17123932	PSH-2-ASB-5C		A
5	17123933	MWS-1-ASB-6		A
6	17123934	MWS-1-ASB-10		A
7	17123935	MWS-1-ASB-12		A
8	17123936	ASH-1-ASB-9A		A
9	17123937	ASH-1-ASB-9B		A
10	17123938	BPT-1-ASB-4		A
11	17123939	BPT-1-ASB-9A		A
12	17123940	BPT-1-ASB-9B		A
13	17123941	BPT-1-ASB-9C		A
14	17123942	BPT-1-ASB-11A		A
15	17123943	BPT-1-ASB-11B		A
16	17123944	BPT-1-ASB-11C		A
17	17123945	BPT-2-ASB-14		A
18	17123946	WMF-1-ASB-2		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Nicholas Dossegger		NVL	12/8/17	1525
Analyzed by	Welly Hsieh		NVL	12/15/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Please bring the report to front desk upon completion

Date: 12/8/2017
Time: 3:37 PM
Entered By: Nicholas Dossegger

NVL Laboratories, Inc.
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p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

ASBESTOS LABORATORY SERVICES

Company Maul Foster & Alongi, Inc.
Address 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660
Project Manager Mr. Kyle Roslund
Phone (971) 544-2139
Cell (503) 341-8112

NVL Batch Number **1722301.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 12/15/2017 **Time** 3:25 PM
Email krOslund@maulfoster.com
Fax

Project Name/Number: 0075.06.02 **Project Location:** Oregon City, OR - Will Falls

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 30 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	17123947	WMF-1-ASB-10		A
20	17123948	AAM-1-ASB-13		A
21	17123949	PSW-2-ASB-7A		A
22	17123950	PSW-2-ASB-7B		A
23	17123951	PSW-2-ASB-7C		A
24	17123952	PSW-2-ASB-7D		A
25	17123953	PSW-2-ASB-7E		A
26	17123954	SCI-1-ASB-4		A
27	17123955	SCI-1-ASB-5A		A
28	17123956	SCI-1-ASB-5B		A
29	17123957	MLH-1-ASB-11A		A
30	17123958	MLH-1-ASB-11B		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Nicholas Dossegger		NVL	12/8/17	1525
Analyzed by	Welly Hsieh		NVL	12/15/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Please bring the report to front desk upon completion

Date: 12/8/2017
Time: 3:37 PM
Entered By: Nicholas Dossegger

1722301

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INDUSTRIAL HYGIENE SERVICES
LABORATORY • MANAGEMENT • TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☐ 5 Days
- ☒ 10 Days

Please call for TAT less than 24 Hours

Company: Maul Foster + Alongi
Address: 400 E MILL PLAIN BLVD
VANCOUVER, WA 98660
Phone: 503-341-8112

Project Manager: Kyle Roslund
Cell: (503) 341-8112
Email: kroslund@maulfoster.com
Fax: ( ) -

Project Name/Number: 0075.06.02
Project Location: OREGON CITY, OR - WILLAMETTE FALLS

- ☐ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email kroslund@maulfoster.com
☐ Call ( ) - ☐ Fax ( ) - ☐ Email

Total Number of Samples 58

	Sample ID	Description	A/R
1	PSH-1-ASB-4	Blue laminate counter top w/ yellow mastic	
2	PSH-2-ASB-5A	White wall board	
3	PSH-2-ASB-5B	" " "	
4	PSH-2-ASB-5C	" " "	
5	MWS-1-ASB-6	light blue counter top w/ yellow mastic	
6	MWS-1-ASB-10	Joint compound (tan / light brown)	
7	MWS-1-ASB-12	Acoustic tile w/ dark brown glue	
8	ASH-1-ASB-9A	Cellulose insulation	
9	ASH-1-ASB-9B	" "	
10	BPT-1-ASB-4	Silver coated brick	
11	BPT-1-ASB-9A	White Vinyl wall covering w/ tan mastic	
12	BPT-1-ASB-9B	" " " " " "	
13	BPT-1-ASB-9C	" " " " " "	
14	BPT-1-ASB-11A	Joint Sealant - gray	
15	BPT-1-ASB-11B	" " "	

PAID CMT 12/18/17

	Print Name	Signature	Company	Date	Time
Sampled by	Kyle Roslund		MFA	12/7/17	1030
Relinquish by	Kyle Roslund		MFA	12/7/17	1230

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Nick Dressler		NVL	12/18/17	1525 Fedex
Analyzed by	Wendy Hsieh		NVL	12/15/17	1038
Called by					
Faxed/Email by					

1722301

NVL
INDUSTRIAL HYGIENE SERVICES
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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ❑ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ❑ 5 Days
- ☒ 10 Days

Please call for TAT less than 24 Hours

Company: Maul Foster + Alongi
Address: SAME
Phone:
Project Manager: SAME
Cell: ( ) -
Email:
Fax: ( ) -

Project Name/Number: 0075.06.02
Project Location: OREGON CITY, OR - WILL FALLS

- ❑ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email Krostlund@maulfoster.com
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples _____

	Sample ID	Description	A/R
1	BPT-1-ASB-11C	Joint Sealant - gray	
2	BPT-2-ASB-14	Black vinyl	
3	WMF-1-ASB-2	Pipe penetration insulation	
4	WMF-1-ASB-10	Penetration mud	
5	AAM-1-ASB-13	Tan ceramic tile	
6	PWS-2-ASB-7A	Insulation backing and tape	
7	PWS-2-ASB-7B	" " "	
8	PWS-2-ASB-7C	" " "	
9	PWS-2-ASB-7D	" " "	
10	PWS-2-ASB-7E	" " "	
11	SC1-1-ASB-4	Vinyl gasket	
12	SC1-0-ASB-5A	Interior cylinder concrete	
13	SC1-0-ASB-5B	Exterior cylinder concrete	
14	MLH-1-ASB-11A	Wall board	
15	MLH-1-ASB-11B	" "	

	Print Name	Signature	Company	Date	Time
Sampled by	Kyle Rostlund		MFA	12/7/17	1530
Relinquish by	Kyle Rostlund		MFA	12/7/17	1030

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Nick Dorsaye		NVL	12/8/17	1525 Fedex
Analyzed by	Willy Nsue			12/15/17	1035
Called by					
Faxed/Email by					

December 15, 2017

Kyle Roslund
Maul Foster & Alongi, Inc.
400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1722302.00

Client Project: 0075.06.02
Location: OR, Oregon City - Will Falls

Dear Mr. Roslund,

Enclosed please find test results for the 28 sample(s) submitted to our laboratory for analysis on 12/8/2017.

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

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

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

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

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

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

Sincerely,

Nick Ly, Technical Director

Enc.: Sample Results

NVLAP
Lab Code: 102063-0

1.888.NVL.LABS
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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: OR, Oregon City - Will Falls

Batch #: 1722302.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123959 **Client Sample #: MLH-1-ASB-11C**
Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** White chalky material with paper and paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder, Paint	Cellulose 23%	**None Detected ND**
	Glass fibers 4%	

Lab ID: 17123960 **Client Sample #: MLH-1-ASB-11D**
Location: OR, Oregon City - Will Falls

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint	Cellulose 3%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder	Cellulose 25%	**None Detected ND**
	Glass fibers 4%	

Lab ID: 17123961 **Client Sample #: MLH-1-ASB-11E**
Location: OR, Oregon City - Will Falls

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous particles, Paint	Cellulose 3%	**None Detected ND**

Layer 2 of 2 **Description:** Tan chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Gypsum/Binder	Cellulose 25%	**None Detected ND**
	Glass fibers 5%	

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Client Project #: 0075.06.02
Date Received: 12/8/2017
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Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123962 **Client Sample #: MLH-1-ASB-12A**
Location: OR, Oregon City - Will Falls
Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 35%	**None Detected ND**
Glass beads	Glass fibers 33%	

Lab ID: 17123963 **Client Sample #: MLH-1-ASB-12B**
Location: OR, Oregon City - Will Falls
Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Perlite	Cellulose 37%	**None Detected ND**
Glass beads	Glass fibers 34%	

Lab ID: 17123964 **Client Sample #: MLH-1-ASB-12C**
Location: OR, Oregon City - Will Falls
Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Paint, Glass beads	Cellulose 36%	**None Detected ND**
Perlite	Glass fibers 31%	

Lab ID: 17123965 **Client Sample #: MLH-1-ASB-14**
Location: OR, Oregon City - Will Falls
Layer 1 of 3 **Description:** Gray soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder	Cellulose 4%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 3	**Description:** Brown flat hard compressed fibrous material with gray surface			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Laminate/binder	Cellulose	33%	**None Detected ND**
Layer 3 of 3	**Description:** Clear soft mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Wood flakes	Wood fibers	3%	**None Detected ND**
		Cellulose	1%	

Lab ID: 17123966 **Client Sample #: MLH-1-ASB-16A**
Location: OR, Oregon City - Will Falls

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Dark brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder	Cellulose	6%	**None Detected ND**
Layer 3 of 3	**Description:** White compacted powdery material with paint and trace paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous particles, Paint, Binder/Filler	Cellulose	15%	**None Detected ND**

Lab ID: 17123967 **Client Sample #: MLH-1-ASB-16B**
Location: OR, Oregon City - Will Falls

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 3	**Description:** Dark brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	5%	**None Detected ND**
Layer 3 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Paint	Cellulose	3%	**None Detected ND**

Lab ID: 17123968 **Client Sample #: MLH-1-ASB-16C**
Location: OR, Oregon City - Will Falls

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Dark brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	4%	**None Detected ND**
Layer 3 of 3	**Description:** White trace compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	Cellulose	8%	**None Detected ND**

Lab ID: 17123969 **Client Sample #: MLH-1-ASB-17A**
Location: OR, Oregon City - Will Falls

Layer 1 of 1	**Description:** Blue brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler, Fine grains	Cellulose	2%	**None Detected ND**

Lab ID: 17123970 **Client Sample #: MLH-1-ASB-17B**
Location: OR, Oregon City - Will Falls

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 1	**Description:** Blue brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler, Fine grains	Cellulose <1%	**None Detected ND**

Lab ID: 17123971 **Client Sample #: MLH-1-ASB-17C**
Location: OR, Oregon City - Will Falls

Layer 1 of 2	**Description:** Blue brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler, Fine grains	Cellulose 1%	**None Detected ND**
Layer 2 of 2	**Description:** Gray sandy/brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Mineral grains	Cellulose 3%	**None Detected ND**

Lab ID: 17123972 **Client Sample #: MLH-1-ASB-18**
Location: OR, Oregon City - Will Falls

Layer 1 of 2	**Description:** White woven fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler	Glass fibers 65%	**None Detected ND**
Layer 2 of 2	**Description:** White powdery/fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Calcareous particles	Cellulose 11%	**None Detected ND**

Lab ID: 17123973 **Client Sample #: MLH-1-ASB-19**
Location: OR, Oregon City - Will Falls

Layer 1 of 1	**Description:** Black vinyl with interwoven fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Binder/Filler	Synthetic fibers 25%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Project Location: OR, Oregon City - Will Falls

Batch #: 1722302.00
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 17123974 **Client Sample #: MLH-1-ASB-24**
Location: OR, Oregon City - Will Falls

Layer 1 of 3	**Description:** Gray fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Glass beads	Glass fibers	67%	**None Detected ND**
Layer 2 of 3	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	3%	**None Detected ND**
Layer 3 of 3	**Description:** Brown wood debris with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Wood flakes, Paint	Wood fibers	19%	**None Detected ND**

Lab ID: 17123975 **Client Sample #: HSC-1-ASB-2A**
Location: OR, Oregon City - Will Falls

Layer 1 of 1	**Description:** Gray sandy/brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Sand, Mineral grains	Cellulose	3%	**None Detected ND**
	Paint			

Lab ID: 17123976 **Client Sample #: HSC-1-ASB-2B**
Location: OR, Oregon City - Will Falls

Layer 1 of 2	**Description:** Dark gray sandy/brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Sand, Paint	Cellulose	3%	**None Detected ND**
	Mineral grains			

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Layer 2 of 2 **Description:** Light gray sandy/brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Cellulose 2%	**None Detected ND**

Lab ID: 17123977 **Client Sample #: HSC-1-ASB-2C**

Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** Gray sandy/brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Paint Mineral grains	Cellulose 2%	**None Detected ND**

Lab ID: 17123978 **Client Sample #: MHR-2-ASB-6**

Location: OR, Oregon City - Will Falls

Comments: Sample was dried prior to analysis.

Layer 1 of 2 **Description:** White paper with foil and interwoven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Metal foil, Mastic/Binder	Cellulose 62%	**None Detected ND**
	Glass fibers 11%	

Layer 2 of 2 **Description:** Gray powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Calcareous particles	Glass fibers 33%	**None Detected ND**

Lab ID: 17123979 **Client Sample #: MHR-1-ASB-9A**

Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** Black asphaltic fibrous material with brown fibrous material and tar

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 11%	**Chrysotile 22%**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Method: EPA/600/R-93/116 & EPA/600/M4-82-020

		Cellulose 3%	

Lab ID: 17123980 **Client Sample #: MHR-1-ASB-9B**
Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** Black asphaltic fibrous material with tar

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 67%	**None Detected ND**

Lab ID: 17123981 **Client Sample #: MHR-1-ASB-9C**
Location: OR, Oregon City - Will Falls

Layer 1 of 2 **Description:** Black asphaltic fibrous material with brown fibrous material and granules

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler, Granules	Cellulose 15%	**Chrysotile 29%**

Layer 2 of 2 **Description:** Black asphaltic fibrous material with tar

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 69%	**None Detected ND**

Lab ID: 17123982 **Client Sample #: MHR-1-ASB-9D**
Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** Black asphaltic tar

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder	Glass fibers 4%	**None Detected ND**
	Cellulose 2%	

Lab ID: 17123983 **Client Sample #: MHR-1-ASB-9E**
Location: OR, Oregon City - Will Falls

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 1 **Description:** Black asphaltic tar with fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 11%	**None Detected ND**

Lab ID: 17123984 **Client Sample #: MHR-1-ASB-9F**
Location: OR, Oregon City - Will Falls

Layer 1 of 2 **Description:** Black asphaltic brittle material with interwoven fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler	Glass fibers 24%	**Chrysotile 7%**
	Cellulose 3%	

Layer 2 of 2 **Description:** Gray fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Cellulose 67%	**None Detected ND**

Lab ID: 17123985 **Client Sample #: MHR-1-ASB-9G**
Location: OR, Oregon City - Will Falls

Layer 1 of 1 **Description:** Black brittle material with asphaltic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Binder/Filler, Fine particles	Cellulose 10%	**None Detected ND**
Insect parts		

Lab ID: 17123986 **Client Sample #: PM1-0-ASB-2**
Location: OR, Oregon City - Will Falls

Layer 1 of 2 **Description:** Beige ceramic tile with orange surface

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Ceramic/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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Date Received: 12/8/2017
Samples Received: 28
Samples Analyzed: 28
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 2 **Description:** Gray sandy/brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Sand, Mineral grains	Cellulose 2%	**None Detected ND**

Sampled by: Client
Analyzed by: Lori Tseng **Date:** 12/14/2017
Reviewed by: Nick Ly **Date:** 12/15/2017

Nick Ly, Technical Director

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

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

ASBESTOS LABORATORY SERVICES

Company Maul Foster & Alongi, Inc.
Address 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660
Project Manager Mr. Kyle Roslund
Phone (971) 544-2139
Cell (503) 341-8112

NVL Batch Number **1722302.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 12/15/2017 **Time** 3:25 PM
Email krOslund@maulfoster.com
Fax

Project Name/Number: 0075.06.02 **Project Location:** OR, Oregon City - Will Falls

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 28 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17123959	MLH-1-ASB-11C		A
2	17123960	MLH-1-ASB-11D		A
3	17123961	MLH-1-ASB-11E		A
4	17123962	MLH-1-ASB-12A		A
5	17123963	MLH-1-ASB-12B		A
6	17123964	MLH-1-ASB-12C		A
7	17123965	MLH-1-ASB-14		A
8	17123966	MLH-1-ASB-16A		A
9	17123967	MLH-1-ASB-16B		A
10	17123968	MLH-1-ASB-16C		A
11	17123969	MLH-1-ASB-17A		A
12	17123970	MLH-1-ASB-17B		A
13	17123971	MLH-1-ASB-17C		A
14	17123972	MLH-1-ASB-18		A
15	17123973	MLH-1-ASB-19		A
16	17123974	MLH-1-ASB-24		A
17	17123975	HSC-1-ASB-2A		A
18	17123976	HSC-1-ASB-2B		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Nicholas Dossegger		NVL	12/8/17	1525
Analyzed by	Lori Tseng		NVL	12/14/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: please bring the report to the front desk after done for payment

Date: 12/8/2017
Time: 3:40 PM
Entered By: Mohammed Jamal

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ASBESTOS LABORATORY SERVICES

Company Maul Foster & Alongi, Inc.
Address 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660
Project Manager Mr. Kyle Roslund
Phone (971) 544-2139
Cell (503) 341-8112

NVL Batch Number **1722302.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 12/15/2017 **Time** 3:25 PM
Email krOslund@maulfoster.com
Fax

Project Name/Number: 0075.06.02 **Project Location:** OR, Oregon City - Will Falls

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 28 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	17123977	HSC-1-ASB-2C		A
20	17123978	MHR-2-ASB-6		A
21	17123979	MHR-1-ASB-9A		A
22	17123980	MHR-1-ASB-9B		A
23	17123981	MHR-1-ASB-9C		A
24	17123982	MHR-1-ASB-9D		A
25	17123983	MHR-1-ASB-9E		A
26	17123984	MHR-1-ASB-9F		A
27	17123985	MHR-1-ASB-9G		A
28	17123986	PM1-0-ASB-2		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Nicholas Dossegger		NVL	12/8/17	1525
Analyzed by	Lori Tseng		NVL	12/14/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: please bring the report to the front desk after done for payment

Date: 12/8/2017
Time: 3:40 PM
Entered By: Mohammed Jamal

1722302

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ❑ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ❑ 5 Days
- ☒ 10 Days

Please call for TAT less than 24 Hours

Company Maul Foster + Alongi
Address SAME
Phone
Project Manager SAME
Cell ( ) -
Email
Fax ( ) -

Project Name/Number 0575.06.02
Project Location OREGON CITY, OR - WILLAMETTE FALLS

- ❑ PCM Air (NIOSH 7400)
- ❑ TEM (NIOSH 7402)
- ❑ TEM (AHERA)
- ❑ TEM (EPA Level II Modified)
- ☒ PLM (EPA 600/R-93-116)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ Asbestos in Sediment (EPA 1900 Points)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ Other

Reporting Instructions email Krostvnd@mailfoster.com
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples ____

	Sample ID	Description	A/R
1	MLH-1-ASB-11C	Wallboard	
2	MLH-1-ASB-11D	" "	
3	MLH-1-ASB-11E	" "	
4	MLH-1-ASB-12A	Acoustic ceiling tile	
5	MLH-1-ASB-12B	" " "	
6	MLH-1-ASB-12C	" " "	
7	MLH-1-ASB-14	light gray laminate countertops w/ yellow mastic	
8	MLH-1-ASB-16A	Gray base cove w/ dark brown mastic	
9	MLH-1-ASB-16B	" " " "	
10	MLH-1-ASB-16C	" " " "	
11	MLH-1-ASB-17A	Blue poured flooring	
12	MLH-1-ASB-17B	" " "	
13	MLH-1-ASB-17C	" " "	
14	MLH-1-ASB-18	6" pipe insulation	
15	MLH-1-ASB-19	Vinyl door seal (black)	

PAID 12/15/17 C.C MJ

	Print Name	Signature	Company	Date	Time
Sampled by	Kyle Rostvold		MFA	12/7/17	1030
Relinquish by	Kyle Rostvold		MFA	12/7/17	1037

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Nick Dossegger		NVL	12/8/17	1525 Fedex 832
Analyzed by	Lori T.			12/19/17	
Called by					
Faxed/Email by					

1722302

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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
❑ 1 Hour ❑ 24 Hours ❑ 4 Days
❑ 2 Hours ❑ 2 Days ❑ 5 Days
❑ 4 Hours ❑ 3 Days ☑ 10 Days
Please call for TAT less than 24 Hours

Company: Maul Foster + Alongi
Address: SAME
Phone:
Project Manager: SAME
Cell: ( ) -
Email:
Fax: ( ) -

Project Name/Number: 0075.06.02 Project Location: OREGON CITY, OR - WILL FALLS

❑ PCM Air (NIOSH 7400) ❑ TEM (NIOSH 7402) ❑ TEM (AHERA) ❑ TEM (EPA Level II Modified)
☑ PLM (EPA 600/R-93-116) ❑ EPA 400 Points (600/R-93-116) ❑ EPA 1000Points (600/R-93-116)
❑ PLM Gravimetry (600/R-93-116) ❑ Asbestos in Vermiculite (EPA 600/R-04/004) ❑ Asbestos in Sediment (EPA 1900 Points)
❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116) ❑ Other

Reporting Instructions: email Kroslund@maulfoster.com
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples ______

	Sample ID	Description	A/R
1	MLH-1-ASB-24	Acoustic tile w/ tan glue dots	
2	HSC-1-ASB-2A	Concrete block	
3	HSC-1-ASB-2B	" "	
4	HSC-1-ASB-2C	" "	
5	MHR-2-ASB-6	6" pipe wrap	
6	MHR-1-ASB-9A	Asphaltic roofing	
7	MHR-1-ASB-9B	" "	
8	MHR-1-ASB-9C	" "	
9	MHR-1-ASB-9D	" "	
10	MHR-1-ASB-9E	" "	
11	MHR-1-ASB-9F	" "	
12	MHR-1-ASB-9G	" "	
13	PM1-0-ASB-2	Ceramic tile	
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Kyle Roslund	[signature]	MFA	12/7/17	1030
Relinquish by	Kyle Roslund	[signature]	MFA	12/7/17	1030

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Nick Dosseyer	[signature]	NVL	12/8/17	1535 FedEx
Analyzed by	LOUT.		NVL	12/14/17	832
Called by					
Faxed/Email by					

December 14, 2017

Kyle Roslund
Maul Foster & Alongi, Inc.
400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1722300.00

Dear Mr. Roslund,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm) , Percent (%) or mg/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and 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 details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. if you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

ilac-MRA

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 101861

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

Analysis Report

Total Lead (Pb)

Client: Maul Foster & Alongi, Inc.
Address: 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660

Attention: Mr. Kyle Roslund
Project Location: OR, Oregon City - Will Falls

Batch #: 1722300.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 0075.06.02
Date Received: 12/8/2017
Samples Received: 7
Samples Analyzed: 7

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
17123922	CSH-1-PB-8	0.1982	50	100	0.010
17123923	MLH-1-PB-10	0.2040	49	< 49	<0.0049
17123924	AAM-1-PB-13	0.2948	34	< 34	<0.0034
17123925	PMI-0-PB-3	0.2974	34	< 34	<0.0034
17123926	MLH-1-PB-4	0.1909	52	83	0.0083
17123927	PWS-1-PB-8	0.1926	52	1100	0.11
17123928	HSC-1-PB-1	0.1976	51	< 51	<0.0051

Sampled by: Client
Analyzed by: Aaron Brown
Reviewed by: Nick Ly

Date Analyzed: 12/13/2017
Date Issued: 12/14/2017

Nick Ly, Technical Director

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: 2017-1213-1

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

LEAD LABORATORY SERVICES

Company Maul Foster & Alongi, Inc.
Address 400 E. Mill Plain Blvd. Suite 400
Vancouver, WA 98660
Project Manager Mr. Kyle Roslund
Phone (971) 544-2139
Cell (503) 341-8112

NVL Batch Number **1722300.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 12/15/2017 **Time** 3:25 PM
Email krOslund@maulfoster.com
Fax

Project Name/Number: 0075.06.02 **Project Location:** OR, Oregon City - Will Falls

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

Total Number of Samples 7 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	17123922	CSH-1-PB-8		A
2	17123923	MLH-1-PB-10		A
3	17123924	AAM-1-PB-13		A
4	17123925	PMI-0-PB-3		A
5	17123926	MLH-1-PB-4		A
6	17123927	PWS-1-PB-8		A
7	17123928	HSC-1-PB-1		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Nicholas Dossegger		NVL	12/8/17	1525
Analyzed by	Aaron Brown		NVL	12/13/17	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Please bring the report to the front desk after done for payment

Date: 12/8/2017
Time: 3:32 PM
Entered By: Mohammed Jamal

1 of 1

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METALS CHAIN OF CUSTODY

1722300

Turn Around Time
- ❑ 2 Hour ❑ 4
- ❑ 2 Days ❑ 3 Days ❑ 4 Days
- ❑ 5 Days ☑ 6-10 Days

Please call for TAT less than 24 Hours

Company: Maul Foster + Alongi
Address: 400 E MILL PLAIN BLVD, VANCOUVER, WA 98660
Phone: 503-341-8112

Project Manager: Kyle Roslund
Cell: (503) 341 - 8112
Email: kroslund@maulfoster.com
Fax: ( ) -

Project Name/Number: 0075.06.02
Project Location: OR, OREGON CITY - WILL FALLS

- ❑ Total Metals ❑ TCLP
- ❑ FAA (ppm ❑ ICP (PPM ❑ GFAA (ppb) ❑ CVAA (ppb)
- ❑ Air Filter ❑ Paint Chips (cm) ❑ Drinking Water ❑ Other
- ☑ Paint Chips (%) ❑ Dust Wipes ❑ Waste Water
- ❑ Soil

RCRA 8: ❑ Barium ❑ Chromium ❑ Silver ❑ Arsenic ❑ Mercury ❑ Lead ❑ Selenium ❑ Cadmium

RCRA 11: ❑ Copper ❑ Zinc ❑ Other

Reporting Instructions: email kroslund@maulfoster.com
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples 2

	Sample ID	Description	A/R
1	CSH-1-PB-8	Cream colored paint chip w/ green under	
2	MLH-1-PB-10	White colored paint chip	
3	AAM-1-PB-13	Tan paint on ceramic tile	
4	PM1-0-PB-3	Tan paint on ceramic tile	
5	MLH-1-PB-4	Green colored paint chip	
6	PWS-1-PB-8	Gray colored paint chip	
7	HSC-1-PB-1	Gray paint on concrete block	
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Kyle Roslund	[signature]	MFA	12/7/2017	1030
Relinquish by	Kyle Roslund	[signature]	MFA	12/7/2017	1030

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Nick Dempsey	[signature]	NVL	12/8/17	1525 Fedex
Analyzed by					
Called by					
Faxed/Email by					