Removal Action Plan

Paper Machine Complex Demolition

Prepared for:

The Confederated Tribes of Grand Ronde

July 10, 2025

Project No. M0496.02.006

Prepared by:

Maul Foster & Alongi, Inc.
3140 NE Broadway, Portland, OR 97232

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MAUL FOSTER ALONGI

Removal Action Plan

Paper Machine Complex Demolition

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

Maul Foster & Alongi, Inc.

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Abbreviations

ACM	asbestos-containing materials
Apex	Apex Companies, LLC
BMP	best management practices
the City	City of Oregon City
CTGR	the Confederated Tribes of Grand Ronde
DEQ	the Oregon Department of Environmental Quality
HBM	hazardous building materials
LBP	lead-based paint
MFA	Maul Foster & Alongi, Inc.
PCB	polychlorinated biphenyl
the Property	the former Blue Heron paper mill site at 419 Main Street in Oregon City, Oregon
RAP	Removal Action Plan
TCLP	toxicity characteristics leaching procedure
Terracon	Terracon Consulting Engineers & Scientists

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1 Introduction

This Removal Action Plan (RAP) for the demolition of Buildings 42, 42a, 43, 44, 45, 46, and 47, collectively referred to as the Paper Machine Complex, located at the former Blue Heron paper mill site at 419 Main Street in Oregon City, Oregon (the Property) (Figure 1-1), was prepared by Maul Foster & Alongi, Inc. (MFA), for the owner of the Property, the Confederated Tribes of Grand Ronde (CTGR). The Paper Machine Complex is located in the southeastern portion of the Property (Figure 1-2).

1.1 Purpose

This RAP provides the framework for the removal action at the Property, including the structural demolition and hazardous building materials (HBM) management for the Paper Machine Complex. This demolition is part of site-wide environmental work being completed by CTGR pursuant to a 2019 consent order with the Oregon Department of Environmental Quality (DEQ), DEQ No. 19-12.

1.2 Scope of Work

This RAP will ensure the proper management and handling of demolition materials at the Property, including the following:

- Implementation of best management practices (BMPs) to contain debris, control fugitive dust, avoid track-off of solids or excess water applied during abatement and demolition activities, and manage stormwater or other water that may be generated (i.e., during wetting or misting).
- Removal and proper disposal of demolition material from the Paper Machine Complex per local, state, and federal guidelines.

2 Background

2.1 Property Description

The approximately 23-acre Property is located in section 31, township 2 south, range 2 east of the Willamette Meridian; the Property is located in tax lot 22E31BD00300.

The currently vacant Property was historically part of the site of the Blue Heron Paper Company, which ceased operations in 2011. Paper manufacturing began on the Property in 1888. Over time the Property has been used for industrial, commercial, and residential purposes.

Because of the unique topography of the area along the shores of the Willamette River, portions of the Property have been filled to extend the buildable land. The geology of the Property consists

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primarily of basalt bedrock. Soil largely consists of pockets of fill, which is present to varying depths across the Property. Perched groundwater, present in natural basalt depressions or constructed utility corridors and footings, is intermittent across the Property.

Approximately 30 structures associated with the former paper-manufacturing operations are present at the Property. Twenty-six structures were demolished between 2021 and 2024. Much of the Property is paved with concrete or asphalt for parking and walkways and is covered by existing structures.

2.2 Paper Machine Complex

The Paper Machine Complex encompasses approximately 60,000 square feet and is comprised of seven buildings, including the following:

- No. 4 Paper Machine (Buildings 42 and 43), constructed in 1919.
- No. 4 Paper Machine extension (Building 42a), constructed by 1930.
- No. 4 Finishing Room and Warehouse (Buildings 44, 45, and 46), constructed in 1919, it was later expanded to include Building 46 to the east and Building 44 to the west during the mid-1940s.
- Shipping Shed (Building 47), was a later addition constructed following the closure of an adjacent street and the extension of Paper Machine No. 4 Building shortly before 1930.

See Figure 1-2 for the Property layout. Photos of the Paper Machine Complex are included in Appendix A.

In 2002, the Willamette Falls Industrial Area submitted a request for determination[1] to the Oregon State Historic Preservation Office asking that the area be added to the National Register of Historic Places. The Paper Machine Complex buildings were determined to be historic contributing; however, they do not contain structures or elements that require preservation.

On January 30, 2025, a fire destroyed Buildings 45 and 46, severely damaged Buildings 42a, 44, and 47, and impacted Buildings 42 and 43. On February 3, 2025, the Clackamas Fire District issued a letter deeming all buildings associated with the Paper Machine Complex as unsafe. On February 6, 2025, the City of Oregon City (the City) approved demolition of the Paper Machine Complex. On February 13, 2025, the DEQ approved demolition of the Paper Machine Complex. On February 18, 2025, Elder Demolition began fire debris clean-up of Buildings 45, 46, and 47.

2.3 Previous Investigations

In 2018, Apex Companies, LLC (Apex) conducted a Pre-Demolition Asbestos and Lead Paint Survey for the entire Blue Heron Mill site (see Appendix B). In response to the January 2025 fire, Terracon Consulting Engineers & Scientists (Terracon) collected fire debris samples from the Paper Machine Complex for asbestos and toxicity characteristics leaching procedure (TCLP) lead analysis and conducted a Supplemental Asbestos Survey and polychlorinated biphenyl (PCB) and mercury-

[1] HRA. 2002. *Willamette Falls Industrial Area Request for Determination of eligibility for Portland General Electric & the Blue Heron Paper Company*. Heritage Research Associates, Inc.: Eugene, OR. May.

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containing light fixtures/bulbs survey that included the Paper Machine Complex (Appendix C). A summary of findings from the investigation is provided in Section 3.2.

3 Removal Action Activities

3.1 Project Team Organization and Responsibilities

This section provides the project team organization structure, lines of authority, and responsibilities. Project activities will be performed within the framework of the organization and functions presented in this section. The organizational structure is presented in Figure 3-1. Contact information for key project individuals is provided in Section 4.1.

3.1.1 Oregon Department of Environmental Quality

The DEQ will provide oversight of the demolition project through its Environmental Cleanup Program pursuant to the 2019 consent order.

3.1.2 City of Oregon City

The City has jurisdiction for construction and demolition activities within the city limits and will issue a demolition permit and any other applicable City permits for removal of the structures.

3.1.3 CTGR

CTGR is the owner of the Property. CTGR is responsible for fiduciary, overall program management and administration, and for contracting with a demolition contractor.

3.1.4 MFA

MFA is the environmental consulting firm representing CTGR. MFA is responsible for coordination with authorities that have jurisdiction, preparation of this revised RAP, demolition oversight, and preparation of a project completion report summarizing the completed removal action. MFA demolition oversight will consist of at least one routine site visit per week.

3.1.5 Demolition Contractor Responsibilities

CTGR hired Elder Demolition as the contractor for the Paper Machine Complex demolition. In this RAP, Elder Demolition will be referred to as the demolition contractor. The demolition contractor is responsible for installation and maintenance of demolition BMPs; fugitive dust control; and removal, management, and disposal of non-asbestos material. The demolition contractor will be required to warrant and guarantee that work was done in accordance with the contract documents in a manner consistent with the level of care and skill ordinarily exercised by members of the same industry and that the work is not defective. The contractor will have primary responsibility for the safety of its company personnel. It will maintain Property access and communications with CTGR and MFA throughout all phases of the project. During demolition, the demolition contractor will report to CTGR

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and MFA in cases of unexpected findings (items that potentially change the scope of work). MFA will communicate these findings to authorities having jurisdiction, as necessary.

3.1.6 Abatement Contractor Responsibilities

Abatement is an anticipated component of the demolition project. The demolition contractor has subcontracted with DEQ-licensed asbestos abatement contractor IRS Environmental, to provide abatement services, including assigning a DEQ-certified supervisor (abatement supervisor) for HBM identification, management, and disposal. In this RAP, IRS Environmental will be referred to as the abatement contractor. The abatement contractor will be responsible for regulated HBM work including, but not limited to, air monitoring, asbestos identification and abatement, and asbestos containment and disposal. The abatement contractor will have primary responsibility for sample collection (as needed), safety for its company personnel, and asbestos and lead abatement. The abatement contractor will coordinate with an analytical testing laboratory (if needed) and will report directly to the demolition contractor. The abatement contractor also will notify and communicate with CTGR, MFA, and DEQ about any unexpected findings.

3.1.7 Laboratory Responsibilities

If analytical testing of suspected HBM is required, the selected laboratory will be responsible for the following:

- Employing the methods and analytical procedures requested by the abatement contractor.
- Following the established laboratory-specific quality assurance and quality control requirements.

3.2 Hazardous Building Material Surveys

In 2018, Apex completed a pre-demolition asbestos and lead paint survey for the Property, including the Paper Machine Complex. The survey was limited to visual observation and partially destructive sampling and analysis of suspected asbestos-containing materials (ACM) and lead-based paint (LBP) in accessible portions of the Property. During the Apex assessment, a total of 38 bulk samples were collected in the Paper Machine Complex. The samples were submitted for asbestos analysis to EMSL Analytical, Inc., in Seattle, Washington. The following samples tested positive for asbestos:

- Transite siding in Building 42 (82,552 square feet)
- Built up roofing material in Building 42 (400 square feet)
- Yellow pebble patterned sheet vinyl in Building 42a (50 square feet)
- White sink undercoating in Building 42a (one sink)
- Gray window glazing in Building 42a (25 linear feet)
- Green 9 inch by 9 inch vinyl floor tile in Building 45 (100 square feet)
- Green 12 inch by 12 inch vinyl floor tile in Building 45 (100 square feet)
- Black mastic between Buildings 42 and 46 (110 square feet)

Six paint chip samples were collected from the Paper Machine Complex, including three samples from Building 42, one sample from Building 42a, one sample from Building 45, and one sample from

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Building 47. The samples were submitted for lead analysis to EMSL Analytical, Inc. The following samples tested positive for lead:

- Gray concrete wall in Building 42
- Yellow metal guardrail in Building 42
- Light green metal wall/beam in Building 42a
- Light green wood beam in Building 45

In response to the January 2025 fire, Terracon collected a total of 30 bulk samples of fire debris from the Paper Machine Complex, including 13 samples from Building 42, two samples from Building 43, five samples from Building 45, five samples from Building 46, and five samples from Building 47. The samples were submitted for asbestos analysis to Eurofins Built Environment Testing West, LLC in Portland, Oregon. All samples tested negative for asbestos with the exception of one sample of brown debris in Building 42 that contained less than 1 percent chrysotile.

In addition, Terracon collected one sample of fire debris from Buildings 45/46 and one sample of fire debris from Building 42. The samples were submitted for TCLP lead analysis to NVL Industrial Hygiene Services in Seattle, Washington. TCLP lead was not detected in the sample collected from Building 42. TCLP lead was detected in the sample collected from Buildings 45/46 at a concentration of 1.1 milligrams per liter, less than the hazardous waste threshold.

In February 2025, Terracon completed a supplemental asbestos survey that included the Paper Machine Complex. During the Terracon assessment, a total of 34 bulk samples were collected from the Paper Machine Complex. The samples were submitted for asbestos analysis to Eurofins Built Environment Testing West, LLC in Portland, Oregon. The following samples tested positive for asbestos:

- Black roof tar in Building 42 parapet
- Red and blue CAB exterior in Building 42 first and second floor maintenance
- Roof built up in Building 42a

Terracon also completed a PCB and mercury-containing light fixtures/bulbs survey. During the survey, visual observations were made for the presence of PCBs and mercury in light fixtures. Terracon identified three PCB ballasts, up to ten high-intensity discharge lights, and six fluorescent light tubes.

3.3 Utilities

All underground utilities that serve the Paper Machine Complex will be disconnected by CTGR prior to the start of demolition. The demolition contractor will cap utility lines and conduits per local codes and guidelines.

Roof drains currently discharge to aboveground biofilters that treat water before discharging to the paved surface adjacent to the Paper Machine Complex. The biofilters will be disconnected before demolition, and filtration media will be profiled for disposal (if requested by the landfill) and disposed of with demolition materials. Filter structures may be filled with clean filter media and reused on site or disposed of off site depending on their physical condition.

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3.4 Health and Safety Plan

The demolition contractor's health and safety plan, addressing health and safety related measures and air monitoring protocols, is provided in Appendix D.

3.5 Hours of Work

The demolition work will comply with the City's Municipal Code Section 9.12.023 that regulates construction, demolition, alteration, or repair of buildings and the excavation of streets and highways. Work hours are restricted to between 7:00 a.m. and 10:00 p.m. Monday through Saturday, and (if necessary) between 9:00 a.m. and 8:00 p.m. on Sunday. Work will typically be performed during daylight hours.

3.6 Stormwater and Sediment Control

The demolition contractor will be responsible for deployment and management of appropriate stormwater control measures, such as catch basin inserts, to prevent release of sediment or debris to stormwater facilities. The locations of stormwater inlets to be protected are shown in Figure 1-2. The demolition contractor will maintain and periodically sweep the paved construction entrance and work area to avoid sediment or debris track-off to the public roadways. A street sweeper may be employed to maintain roadways free of sediment and debris generated by the demolition work.

3.7 Debris Containment

The demolition contractor will be required to implement work procedures to safely demolish the buildings and prevent the unintended release of building debris to the surrounding area. Potentially hazardous areas will be marked and sealed off from the public or from the workers before demolition begins.

The demolition contractor's site superintendent will make sure the building footprints are evaluated after building demolition to ensure that all materials generated through demolition have been removed.

If materials containing suspected LBP are identifiable within the fire debris, they may be separated and tested at the request of the disposal facility. Separated materials will be stored in a designated location in the staging area until testing results are received, and disposal profiling is complete.

The demolition contractor's site superintendent will document the location and means of material storage and will verify compliance with the demolition plan.

3.8 Demolition and Removal Activities

The demolition contractor will be responsible for installing and maintaining BMPs for containment of debris consisting of non-asbestos-containing materials (ACM), fugitive dust control, sediment control, and stormwater management.

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3.8.1 Asbestos-Related Work

ACM, if identified during demolition, will be handled by the abatement contractor and/or a demolition contractor's certified supervisor. On March 17, 2025, the abatement contractor submitted a variance request letter to DEQ regarding abatement methods to seek approval for the proposed abatement approach of fire-impacted buildings (see Appendix E). On March 19, 2025, the DEQ approved the work practice variance request. Abatement of fire-impacted debris will be conducted as outlined in the variance request letter.

The following measures will be taken if the abatement/demolition contractor identifies suspect ACM through exploratory investigation during demolition activities:

- The abatement contractor will be responsible for following applicable asbestos work practices and procedures outlined in Oregon Administrative Rules 340-248-0270 and 1926.1101. The abatement contractor will provide the ten-day and five-day asbestos work notifications to the DEQ and conduct the compliance monitoring for ACM abatement.
- The abatement contractor or an accredited Asbestos Hazard Emergency Response Act inspector will collect samples of the suspect ACM and submit to a laboratory for testing or will assume that the suspect material is ACM and conduct abatement per DEQ rules and regulations.
- If the material is confirmed or assumed to be ACM, notification will be provided to the demolition contractor, CTGR, MFA, and DEQ.
- The abatement contractor will provide an abatement plan appropriate to the nature and extent of the material. The plan will specify the procedures for containment, worker protection, monitoring, abatement, post abatement quality assurance, and waste disposal.
- The abatement contractor will provide a closeout letter to the demolition contractor once abatement activities are complete. The closeout letter will be submitted to CTGR and MFA and will be attached to the project completion report. Once the closeout letter is issued, the demolition contractor can start to demolish the buildings. An abatement supervisor will be present during demolition to monitor for and identify suspect materials.

3.8.2 Lead-Based Paint Material Handling

Materials encountered with LBP will be disposed at a landfill with other demolition debris. LBP materials will be handled to minimize dust generation and separation of LBP coatings from surfaces. Testing is generally not required as demolition generates large quantities of mixed materials with a low risk of exposure;[2] however, toxicity characteristic leaching procedure or other testing may be performed at the request of the landfill accepting the waste.

3.8.3 PCB- and Mercury-Containing Material Handling

PCB- and mercury-containing light fixtures/bulbs and fluorescent lights will be disposed of or recycled at a permitted PCB and mercury disposal or recycling facility. PCB- and mercury-containing light fixtures/bulbs and fluorescent lights will be handled with care to prevent breakage.

[2]DEQ. 1997. *Management of Building Demolition Waste*. Guidance Number: 1997-PO-002A. Oregon Department of Environmental Quality Hazardous Waste: Portland, OR. November 21. Updated 2017.

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3.8.4 Building Demolition

CTGR will obtain a building demolition permit from the City to start the demolition work. The buildings will be removed down to the existing concrete pads. No ground disturbance is proposed under this scope.

Non-ACM will be handled by the demolition contractor. Non-ACM that can be reclaimed for reuse (e.g., wood) may be separated out of the waste stream. Other materials, such as steel or nonferrous metals, will be recycled. Non-ACM that is not reclaimed or recycled will be transported to a landfill or other approved location.

If other hazardous wastes or other wastes not suitable for disposal in a landfill are discovered during building demolition, the demolition contractor will coordinate with the abatement contractor to set the waste aside and notify CTGR and MFA. MFA will provide direction for management and disposal of the identified waste off site consistent with local, state, and federal guidelines.

Building 44 is built into a retaining wall that is adjacent to an abandoned Union Pacific Railroad track. Smith Monroe Gray Engineers, Inc., as a subcontractor to MFA, will prepare a structural bracing design to safely demolish Building 44 without damaging the structural integrity of the retaining wall. Smith Monroe Gray Engineers, Inc. will also conduct routine site visits during the demolition of Building 44 to confirm retaining wall integrity.

The contractor will cut and remove recyclable materials from the inside of the buildings before starting demolition. High-reach lifts or an excavator operated by the demolition contractor will be used to remove exterior panels of the building before cutting and removing structural steel elements. The demolition contractor will manage, haul, and dispose of the non-ACM demolition debris. The demolition contractor will identify a debris storage area and will stockpile demolition debris over a lined storage area.

3.8.5 Fugitive Dust Control BMPs

Water spraying will be employed as necessary to prevent fugitive dust emissions during abatement and demolition. Water is available from a fire hydrant adjacent to the site entrance. The demolition contractor's superintendent will evaluate the site conditions and arrange for water trucks if additional water is needed. Water applied for dust suppression will be contained and prevented from entering the site stormwater system.

Wind conditions will be monitored, and work will be stopped if the wind speeds are expected to exceed safe levels. For workers' safety and debris management the wind speed threshold is defined by Occupational Safety and Health Administration 1926.968 as corresponding to 30 miles per hour. All loose debris will be covered and secured after work stops.

3.8.6 Nonhazardous Waste Management

The demolition contractor will handle nonhazardous waste and contain the debris in drop boxes for disposal at a permitted landfill. Should nonhazardous (suspected ACM) waste that is different from the previously sampled or profiled material be encountered, the abatement contractor will analyze it for asbestos and will segregate, rinse, and remove the material to a drop box with a lid. CTGR, MFA, and the DEQ will be notified of this material immediately, and an appropriate sampling plan will be discussed.

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The material storage and staging area, shown in Figure 1-2, will be managed and modified by the demolition contractor as needed.

Waste-disposal documentation will be provided in the project completion report.

3.8.7 Site Restoration

The buildings will be removed to the existing concrete slabs, and any basement and/or subgrade pits will be partially backfilled with crushed demolition concrete debris, and adjacent paved areas will remain in place. Perimeter areas will be cleaned of debris and other materials, and equipment will be cleaned before demobilizing from the Property. The demolition and removal action will not change the impervious surface area on the Property.

3.9 Project Schedule

The anticipated project schedule is presented below.

Description	Date
Submit RAP	July 2025
DEQ approves RAP	July 2025
Community outreach	July 2025
Start demolition activities	February 2025
Complete demolition and abatement activities	August 2025
Project finalization and reporting	December 2025
NOTES DEQ = Oregon Department of Environmental Quality. RAP = removal action plan.	

4 Records and Reporting

4.1 Work Progress Communication

MFA and CTGR will routinely communicate with the project stakeholders during removal activities. A preconstruction meeting will be scheduled before major removal activities begin. Weekly progress reports and emails will be provided to the DEQ starting with the onset of removal activities for the duration of the removal work. Contacts for the project are as follows:

Organization	Name	Phone	Email
DEQ—Project Manager	Mark Pugh	(503) 229-5587	Mark.Pugh@deq.oregon.gov
City of Oregon City—Senior Planner	Christina Robertson-Gardiner, AICP	(503) 496-1564	crobertson@orcity.org
City of Oregon City—Building Official	James Sayers	(503) 496-1517	jsayers@orcity.org
CTGR—Project Manager	Ryan Webb, PE	(503) 879-2404	Ryan.Webb@grandronde.org
Elder Demolition—Contractor	Jason Samek	(503) 515-8326	JasonSamek@ElderDemolition.com

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Organization	Name	Phone	Email
IRS Environmental—Abatement Supervisor/ Subcontractor	Nancy Nguyen	(971) 470-5160	nancy@irsenvironmental.com
MFA—Environmental Consultant	Krysta Krippaehne-Stein, PE	(503) 828-8961	kstein@maulfoster.com
NOTES: AICP = American Institute of Certified Planners. CTGR = The Confederated Tribes of Grand Ronde. DEQ = Oregon Department of Environmental Quality. Elder = Elder Demolition. MFA = Maul Foster & Alongi, Inc. PE = Professional Engineer.			

4.2 Project Completion Report

Removal activities will be documented in a project completion report that will be prepared after the removal action is complete and subsequently submitted to the DEQ in electronic format for its records. The report will be signed by an Oregon-registered professional engineer and a project manager certifying that the removal action associated with the Paper Machine Complex has been completed consistent with this RAP. The report will summarize the work performed, including photo documentation and any abatement work, demolition materials management, transportation, and disposal, and include supporting documentation.

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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.

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Figures

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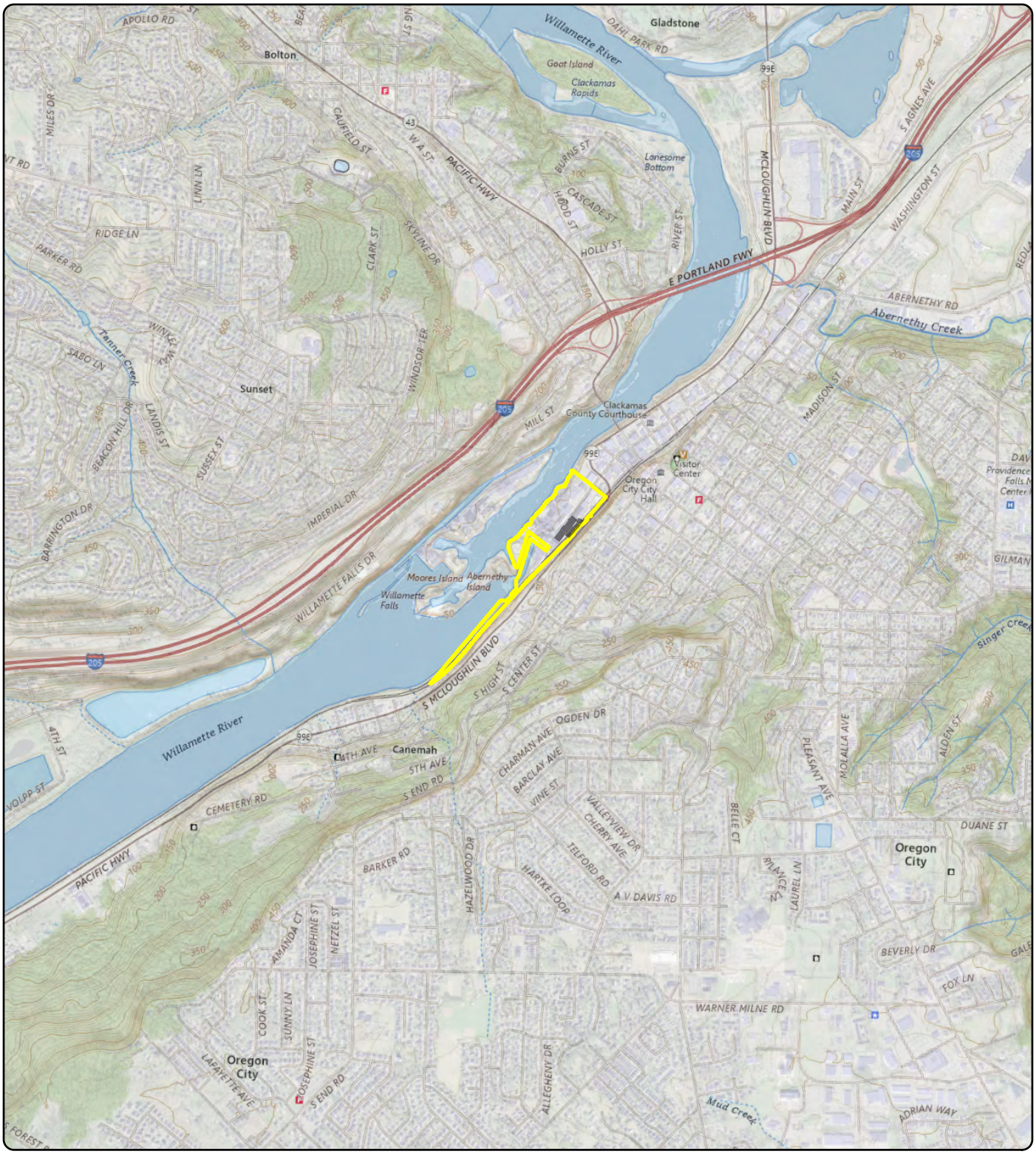

Notes
U.S. Geological Survey 7.5-minute topographic quadrangle (2020): Oregon City.
Township 2 south, range 2 east, section 31.

Data Source
Property tax lot obtained from Oregon Metro.

Legend

- Paper Machine Complex
- Property Tax Lot

Figure 1-1
Site Location

419 Main Street
Oregon City, OR

0 1,000 2,000
Feet

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Path: X:\0496.02\006\Pro\M0496_02_006_001.aprx\Fig 1-1 Site Location Paper Machine Complex
Print Date: 6/27/2025
Reviewed By: kstein
Produced By: sturner
Project: M0496.02.006

Figure 1-2
Property Layout

419 Main Street
Oregon City, OR

Tax Lot
22E31BD00300

Main St

4th St

99E

Building 42a
Paper Machine No. 4
(South Addition)

Building 42
Paper Machine
No. 4

Building
43
Paper
Machine
No. 4

Building 44
No. 4
Finishing Room

Building 45
No. 4
Finishing Room

Building 46
No. 4
Finishing Room

Building 47
Shipping Shed

CB-35 CB-43 CB-42 CB-38 CB-31 CB-29 CB-30 MH-3 MH-4 MH-5 MH-6 MH-7 MH-8 CB-27 CB-28 CB-32 DS-24 DS-23 DS-14 DS-11 DS-10 MH-11 CB-21 DS-9 CB-22 MH-12 MH-13 CB-16 CB-17 DS-8 CB-15 DS-7 CB-12 CO-3 CB-11 CB-10 CB-13 CB-52 CB-14 CB-23 CB-24 CB-SS-04 MH-9 MH-10 CB-50 CB-26 CB-48 CO-5 CO-4 CB-47 CB-46

Legend

- Trench Drain (inlet protection)
- Catch Basin (inlet protection)
- Cleanout (protect in place)
- Existing Gullywasher Downspout Treatment Unit (disconnect)
- Manhole (protect in place)
- Manhole (SS) (protect in place)
- Fire Hydrant (Water Source)
- Paper Machine Complex
- Storage and Staging Area
- Property Tax Lot
- Tax Lot

Notes
CB = catch basin.
DS = downspout.
MH = manhole.
SS = sanitary sewer.

0 40 80
Feet

Data Sources
Aerial photograph and tax lot boundary obtained from Oregon Metro. Site features obtained from Environmental Resources Management (ERM); stormwater features obtained from WSP USA Stormwater Site Plan dated January 2025.

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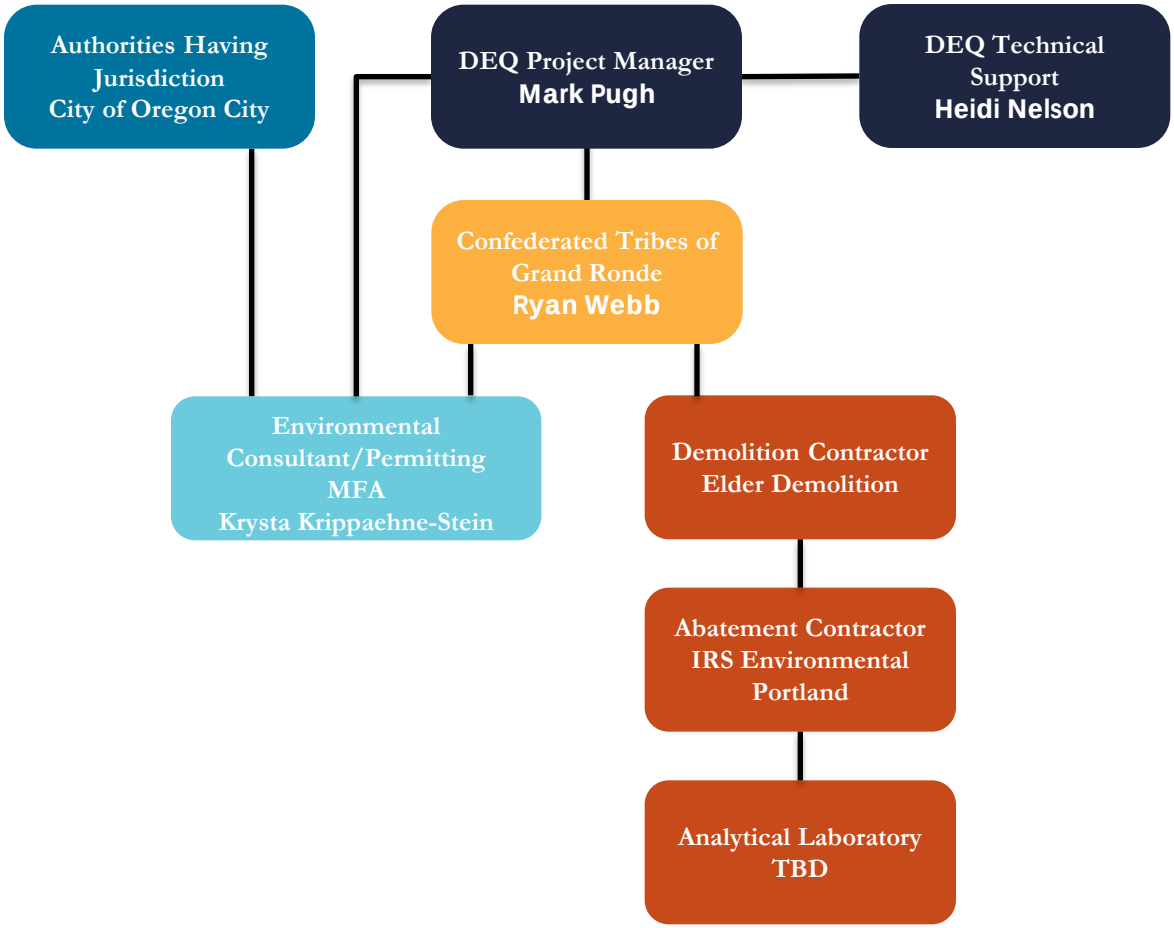
Path: X:\0496.02\006\Pro\M0496_02_006_001.aprx\Fig 1-2 Property Layout Paper Machine Complex
Print Date: 6/27/2025
Reviewed By: kstein
Produced By: stumer
Project: M0496.02.006

Figure 3-1
Blue Heron Paper Machine Complex Removal Action
Organization Chart



Legend

Regulatory agencies

DEQ/State of Oregon agency oversight

Confederated Tribes of Grand Ronde administration: program planning and tracking, agency interface, strategy

MFA-technical program administration: permitting, work plan preparation, agency coordination.

Contracted services

Notes

DEQ: Oregon Department of Environmental Quality.
MFA: Maul Foster & Alongi, Inc.
TBD: To be determined.

Appendix A

Photographic Log

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 1.

Description

Building 42a, looking northeast.

Photo No. 2.

Description

Building 42a, looking southwest.

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 3.

Description

Shipping Shed (Building 47), looking south

Photo No. 4.

Description

Building 46, looking north

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 5.

Description

Buildings 44 and 45, facing south

Photo No. 6.

Description

Buildings 45, 46, and 47, looking north

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 7.

Description

Buildings 42, looking northeast

Photo No. 8.

Description

Buildings 42, looking east

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 9.

Description

Buildings 42 and 43, looking east

Photo No. 10.

Description

Building 42, looking southeast

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 11.

Description

Building 43, looking east

Photo No. 12.

Description

Building 43, looking southeast

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Photographs

Project Name: Paper Machine Complex
Project Number: M0496.02.006
Location: Oregon City, Oregon

Photo No. 13.

Description

Building 43, looking east

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Appendix B

Apex Pre-Demolition Asbestos and Lead Paint Survey

MAUL FOSTER ALONGI

December 7, 2018

Mr. George Heidgerken
Falls Legacy, LLC
420 East 18th Street
Tacoma, Washington 98421

RE: PRE-DEMOLITION ASBESTOS AND LEAD PAINT SURVEY
FORMER BLUE HERON MILL
MAIN STREET
OREGON CITY, OREGON

Apex Project No.: 320002449

Dear Mr. Heidgerken:

At the request of Falls Legacy, LLC (client), Apex Companies, LLC (Apex) has prepared this Pre-Demolition Hazardous Building Materials Survey of the former Blue Heron Mill located on Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site).

The survey was performed to facilitate design development for the removal of suspect asbestos-containing materials (ACMs), lead-containing paints, and other suspect hazardous building materials, such as mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment.

Apex collected samples of interior and exterior building materials that were accessible at the time of the survey and would be disturbed during demolition-related activities. Apex conducted the inspection between October 15 and November 9, 2018, in accordance with our proposal, authorized on October 3, 2018.

Please do not hesitate to contact Apex with any questions related to this report.

Sincerely,
Apex Companies, LLC

Chris Clough
Staff Scientist

Dan Fitzgibbons
Division Practice Lead

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EXECUTIVE SUMMARY

Apex Companies, LLC (Apex) was retained by Falls Legacy, LLC to conduct a hazardous building materials survey for the former Blue Heron Mill located at Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site). The purpose of this survey was to identify suspect asbestos-containing materials (ACMs), lead-containing paints, mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment and other suspect hazardous building materials that may be impacted by the intended demolition of the Site.

ASBESTOS-CONTAINING MATERIALS

During the assessment, Apex collected 469 bulk samples for asbestos analysis (675 sample layers), which were analyzed by EMSL Analytical, Inc. (EMSL) in Seattle, Washington. The following ACMs were identified during Apex's asbestos survey:

- Corrugated cement asbestos board (transite) exterior siding;
- Cement asbestos board on interior walls;
- Asphaltic built-up roofing;
- Vinyl sheet flooring with yellow pebble pattern;
- White sink undercoating
- 9-inch by 9-inch green vinyl floor tile;
- 12-inch by 12-inch green vinyl floor tile;
- Black mastic associated with 12-inch by 12-inch gray vinyl floor tile;
- Brown mastic associated with 4-inch black vinyl cove base;
- Black mastic dots associated with 12-inch by 12-inch ceiling tiles;
- Black mastic associated with 12-inch by 12-inch brown vinyl floor tile;
- Black mastic associated with tan vinyl floor tile beneath gray carpet;
- Brown mastic associated with white fiber-reinforced wall panels;
- Red vinyl sheet flooring;
- 9-inch by 9-inch green vinyl floor tile with black mastic;
- Asphaltic stair tread on stairs;
- Multiple layers of asphaltic built-up roofing with non-asbestos silver paint;
- Black mastic associated with ceramic electric insulator on west exterior of Environmental Lab;
- 9-inch by 9-inch brown vinyl floor tile with black mastic;
- 2-foot by 4-foot acoustic ceiling panels;
- Black sink undercoating;
- Black laboratory countertop;
- Beige vinyl sheet flooring;
- Black mastic associated with non-asbestos pipe wrap insulation;
- Black vibration dampener/pads on curved concrete pipe supports (riverside).
- Joint compound associated with the drywall;
- Caulking behind transite on 2nd floor exterior of Water Filter Plant.
- Black asphaltic pipe coating (exposed pipe section located adjacent to HI-D tank);
- 9-inch by 9-inch white vinyl floor tile with black mastic;
- 12-inch by 12-inch beige vinyl floor tile with black mastic;
- Black mastic associated with gray vinyl sheet flooring;
- Knockdown wall texture on wood walls;
- 12-inch by 12-inch dark gray vinyl floor tile;
- Red boiler insulation in boilers A, B, C and D (Boiler Plant);
- Tank and/or pipe insulation debris (damaged) adjacent to the Recovery Boiler;
- White boiler insulation (TM Boiler, Recovery Boiler);
- Black mastic adhered to brown/black vapor barrier beneath wood siding (bridge between Paper Machine 4 & Finishing Room);
- Black pipe sealant adjacent to Paper Machine #3; under;
- Textured black coating (painted tan) on stack adjacent to Paper Machine #1;

In addition to the above-referenced ACMs, laboratory analytical results identified less than one-percent (trace) asbestos in the following building material:

- Window glazing compound;
- Skim coat on exterior concrete walls at the Paper Machine #1 building.

ACMs identified at the Site will be impacted by the intended demolition project and should be removed and disposed in accordance with federal, state and local regulations, prior to disturbance. Abatement of ACMs must be performed by a licensed asbestos-abatement contractor, prior to disturbance.

LEAD-CONTAINING PAINTS

During the survey, Apex collected 60 bulk paint chip samples for lead content, which were analyzed by EMSL in Seattle, Washington. The following lead-containing paints were identified during the survey:

- Gray paint on concrete wall of the 4th floor of Paper Machine #4.
- Light green paint on metal wall/beam on first floor of Paper Machine #4.
- Yellow paint on metal guardrail on northwest side of Paper Machine #4.
- Light green paint on wood beam of #4 Finishing Room.
- Beige paint on metal beam on southeast side of Sulphite Plant.
- Gray paint on metal tank of Sulphite Plant.
- White paint on concrete exterior wall of Chip Silo.
- Cream paint on metal sliding door on southern exterior of Weld Shop.
- Gray paint on concrete exterior wall of TMP Refiner Line.
- Gray paint on concrete masonry unit (CMU) block wall of east exterior TMP Refiner Lines.
- Yellow paint on metal bollard of Maintenance Shop.
- Green paint on wood wall of Maintenance Shop.
- White paint on metal beam on 2nd floor of TMP Refiner Lines.
- Dark blue paint on metal window of the control room of the TMP area.
- Red paint on metal beam on first floor of TMP area.
- Green paint on CMU wall of TMP area.
- Gray paint on concrete wall of Paper Machine #1.
- White paint on skim coat over CMU wall of Paper Machine #1.
- White paint on metal beam of TMP Reject Refining.
- Light gray paint on metal door of Boiler Plant basement.
- Silver paint on metal boiler of Boiler Plant basement.
- Orange paint on metal stairs of TMP HI-D tank stairs.
- Silver paint on brick wall in basement of Boiler Plant.
- White paint on metal door frame on exterior of Pipe Shop.
- White paint on concrete wall on exterior of Raw Material Storage.
- Gray paint on wood window frame on west exterior window of Carpenter Shop.
- White paint on CMU wall on north exterior in conference room of Mill O.
- White paint on concrete wall in basement of Paper Machine #3.
- White paint on wood wall of Mill D Warehouse.
- Green paint on concrete wall on 2nd floor landing of Mill D.
- White paint on concrete wall on 2nd floor landing of Mill D.
- White paint on wood beam on 2nd floor of Mill D.
- Red paint on metal fire system piping on first floor of Mill D.
- Gray paint on wood door on exterior barn door of Filter Plant.
- Green paint on concrete wall on exterior of Filter Plant.
- White paint on wood door frame of Filter Plant.
- Gray paint on metal beam of Filter Plant.

- White paint on metal light pole of Filter Plant.
- Gray paint on drywall wall on 3rd floor of Filter Plant.
- Blue paint on metal door of Guard Shack.
- Red paint on metal cabinet in Guard Shack.
- Gray paint on concrete wall in Guard Shack.
- Brown paint on concrete column in office parking area.

Necessary precautions must be taken to prevent or minimize worker exposure to lead during disturbance of lead-containing materials, as outlined in Oregon and OSHA regulations. Lead-containing materials may also require disposal classification in accordance with the federal and state regulations..

1.0 INTRODUCTION

Apex Companies, LLC (Apex) was retained by Falls Legacy, LLC to conduct a hazardous building materials survey for the former Blue Heron Mill located at Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site). The purpose of this survey was to identify suspect asbestos-containing materials (ACMs), lead-containing paints, mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment and other suspect hazardous building materials that may be impacted by the intended redevelopment of the Site.

1.1 Objective

Apex understands that the former mill property is scheduled for redevelopment, which may include the complete and/or partial demolition the Site-related structures. Prior to initiating construction-related activities, Falls Legacy, LLC retained Apex to identify potentially hazardous building materials at the Site. The objective of this survey was to identify accessible building materials that will require abatement, prior to renovations.

1.2 Scope of work

The scope of services for this hazardous building materials survey included, and was limited to, the following tasks:

- The asbestos survey was performed to identify and/or confirm the presence, location, and quantity of ACM and presumed ACM (PACM) present onsite. Materials identified as suspect ACM were sampled or presumed in accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling requirements, outlined in Chapter 40 of the Code of Federal Regulations (CFR), Part 763.86. Apex performed sampling in accordance with the Oregon Administrative Rule (OAR) 340-248-0270, as enforced by Oregon Department of Environmental Quality (DEQ) and Oregon Occupational Safety and Health Administrations (OR-OSHA) hazard communication regulations. Samples collected were analyzed for the presence of asbestos by a laboratory that is certified by the American Industrial Hygiene Association (AIHA) and the National Voluntary Lab Accreditation Participation program administered by the National Institute of Standards and Technology (NVLAP #200613-0). Samples were analyzed using polarized light microscopy (PLM) by U.S. Environmental Protection Agency (EPA) Method 600/R-93/116.
- Perform paint chip sampling on representative paints that would be disturbed during demolition-related activities. Samples collected were analyzed for total lead content by an AIHA-accredited laboratory using flame atomic absorption spectroscopy by EPA Method SW 846-3050B/7000B.
- Identify other suspect hazardous building materials, such as Polychlorinated Biphenyl (PCB)-containing ballasts and mercury-fluorescent light tubes
- Prepare tables indicating sample locations, sample types, analytical results, and/or quantities of ACM, PACM and lead-containing paints.
- Prepare figures indicating sample locations collected for analysis.
- Prepare a report that documents the findings of this survey and provides recommendations for handling the hazardous building materials identified.

1.3 Survey Limitations

The survey was completed by Apex between October 15 and November 9, 2018. The survey was limited to the observation, partially destructive sampling and analysis of suspect ACMs and LCPs in accessible portions of the Site. Common construction techniques may render portions of any building inaccessible. As a result, additional asbestos- and/or lead-containing building materials may be present in inaccessible areas (i.e., between walls, ceiling spaces enclosed by wallboard, boiler cavities, confined basement areas, etc.) of the Site that were not observed during the survey. Inaccessible areas should be presumed to contain asbestos and lead until destructive sampling is performed in those areas. Based on health and safety concerns or limited visibility, Apex did not access the following areas:

- Areas defined as confined spaces (tanks, sumps, stacks, the pipe tunnel),
- Tailraces
- The majority of the rooftops
- Basement areas;
- The upper floors of the Boiler Plant and the Raw Materials Storage building.

Additionally, some building materials may be hidden or inaccessible, due to overgrown vegetation or standing water (e.g. the filtration plant).

The findings, conclusions and recommendations discussed in this report are Apex's professional opinions, based solely upon site conditions during the survey, visual site observations and interpretations of laboratory analyses. Therefore, the opinions and recommendations present in this report may not apply to future conditions at the Site. All applicable federal, state and local regulations should be verified by building owners and contractors, prior to initiating any work that will disturb regulated building materials. This document is provided to meet regulatory requirements for the identification of asbestos and other hazardous materials and is for reporting purposes only.

This report should not be utilized as a bidding document or as a project specification document since it does not have all the components required to serve an as Abatement Project Design document or an Abatement Work Plan.

Contractors should use caution during construction-related activities as concealed hazardous building materials that were not previously analyzed may be encountered. If additional materials, not previously sampled, are later identified during demolition-related activities, then supplemental sampling should be performed. Materials identified to contain regulated quantities of asbestos or lead, must be removed and disposed in accordance with federal, state and local regulations, prior to disturbance. Abatement of regulated building materials must be performed by a licensed abatement contractor.

2.0 SITE DESCRIPTION

The Site consists of a former paper mill, encompassing approximately 23 acres of property, located directly below the Willamette Falls on the southeast side of the Willamette River. Apex was informed that the Site was originally developed in the 1800's as a woolen mill, before becoming a flour mill and a saw mill. The Site was redeveloped into a paper mill in the early 1900's and mill operations reportedly continued until February 2011, when the Blue Heron Paper Mill closed. The Site is currently vacant and during the survey, Apex observed evidence of vandalism, long-term trespassing and physical damage to a variety of building components.

The Site includes approximately 40 buildings that were associated with paper manufacturing and other historic mill-related uses. The buildings at the Site are primarily steel-framed or concrete-framed and include a boiler plant, maintenance shops, office space, a welding shop, an auto repair shop, a water filtration plant and an environmental laboratory. Other, smaller structures include silos, tanks, shelters, a security office and an electrical substation.

3.0 HAZARDOUS BUILDING MATERIALS SURVEY

Apex performed destructive sampling to investigate the interior and exterior surfaces, where accessible, due to the projected demolition of the Site. Access to some areas were limited due to accessibility or safety-related issues, including the majority of the rooftops, as well as the upper floors of the Boiler Plant and the Raw Materials Storage building. Since not all concealed areas with suspect ACMs or LCPs were surveyed, precautions may be necessary during the demolition procedures (see Limitations).

3.1 Asbestos Sampling and Analysis

The asbestos survey was performed generally following the sampling protocols as outlined under AHERA, 40 CFR 763; Oregon Administrative Rule (OAR) 340-248-0270 and Oregon Occupational Safety and Health Administrations (OR-OSHA) hazard communication regulations. Approximate quantities of suspect materials were estimated by field measurements. The condition (e.g., good, fair, poor) and friability (i.e., easily crumbled, pulverized, or reduced to powder by hand pressure) of suspect ACM was noted for each work area. Friability of each sampled material was determined by hand-touch.

Apex collected a total of 469 bulk samples (675 layers) between October 15 and November 9, 2018. Bulk asbestos samples were delivered to EMSL Analytical, Inc. (EMSL) for analysis using Polarized Light Microscopy (PLM) in accordance with the United States Environmental Protection Agency (EPA) "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116, July 1993). EMSL is located in Seattle, Washington and is accredited with the AIHA and the National Institute of Standards and Technology NVLAP (#200613-0).

3.2 Paint Chip Sampling and Analysis

Apex also collected sixty (60) bulk paint chip samples from the site to determine if the personnel performing demolition-related activities will require compliance with worker exposure regulations.

The paint chip samples and associated chain-of-custody sheets were delivered to EMSL for total lead content analysis. EMSL participates in the Environmental Lead Laboratory Accreditation Program (ELLAP) administered by the AIHA, which mandates proficiency testing, specific training and a quality assurance program. The samples were analyzed for total lead content using flame atomic absorption spectroscopy, in accordance with EPA Method SW 846-3050B/7000B. The limit of detection for this method varies by the volume of the sample, but in general, is approximately 0.010 percent by weight. Materials coated with paint identified to have detectable concentrations of lead are regulated by OR-OSHA.

4.0 FINDINGS

4.1 Asbestos-Containing Materials

Apex collected a total of four hundred and four hundred and sixty-nine (469) bulk samples (675 sample layers) of suspect ACMs between October 15 and November 9, 2018. The laboratory analytical results identified asbestos in the following samples.

- Corrugated cement asbestos board (transite) exterior siding;
- Cement asbestos board on interior walls;
- Asphaltic built-up roofing;
- Vinyl sheet flooring with yellow pebble pattern;
- White sink undercoating
- 9-inch by 9-inch green vinyl floor tile;
- 12-inch by 12-inch green vinyl floor tile;
- Black mastic associated with 12-inch by 12-inch gray vinyl floor tile;
- Brown mastic associated with 4-inch black vinyl cove base;
- Black mastic dots associated with 12-inch by 12-inch ceiling tiles;
- Black mastic associated with 12-inch by 12-inch brown vinyl floor tile;
- Black mastic associated with tan vinyl floor tile beneath gray carpet;
- Brown mastic associated with white fiber-reinforced wall panels;
- Red vinyl sheet flooring;
- 9-inch by 9-inch green vinyl floor tile with black mastic;
- Asphaltic stair tread on stairs;
- Multiple layers of asphaltic built-up roofing with non-asbestos silver paint;
- Black mastic associated with ceramic electric insulator on west exterior of Environmental Lab;
- 9-inch by 9-inch brown vinyl floor tile with black mastic;
- 2-foot by 4-foot acoustic ceiling panels;
- Black sink undercoating;
- Black laboratory countertop;
- Beige vinyl sheet flooring;
- Black mastic associated with non-asbestos pipe wrap insulation;
- Black vibration dampener/pads on curved concrete pipe supports (riverside).
- Joint compound associated with the drywall;
- Caulking behind transite on 2nd floor exterior of Water Filter Plant.
- Black asphaltic pipe coating (exposed pipe section located adjacent to HI-D tank);
- 9-inch by 9-inch white vinyl floor tile with black mastic;
- 12-inch by 12-inch beige vinyl floor tile with black mastic;
- Black mastic associated with gray vinyl sheet flooring;
- Knockdown wall texture on wood walls;
- 12-inch by 12-inch dark gray vinyl floor tile;
- Red boiler insulation in boilers A, B, C and D (Boiler Plant);
- Tank and/or pipe insulation debris (damaged) adjacent to the Recovery Boiler;
- White boiler insulation (TM Boiler, Recovery Boiler);
- Black mastic adhered to brown/black vapor barrier beneath wood siding (bridge between Paper Machine 4 & Finishing Room);
- Black pipe sealant adjacent to Paper Machine #3; under;
- Textured black coating (painted tan) on stack adjacent to Paper Machine #1;

In addition to the above-referenced ACMs, laboratory analytical results identified less than one-percent (trace) asbestos in the following building material:

- Window glazing compound;
- Skim coat on exterior concrete walls at the Paper Machine #1 building.

The materials identified above will be disturbed during the scheduled demolition of the Site. A summary of Apex's asbestos sampling, including analytical results, sample numbers, material descriptions, sample locations and quantities is provided in Table 1. Sample locations are shown on Figures 3 through 23. Supporting documentation for the sample analyses, including copies of laboratory analytical reports, chain-of-custody documents and laboratory certifications are provided in Appendix A. AHERA Building Inspector certifications are provided in Appendix C. Site photographs of sampled materials are provided in Appendix D.

4.2 Lead-Containing Paints

Apex collected sixty (60) bulk paint chip samples for lead analysis during the survey. Laboratory analytical results identified detectable lead concentrations in the following materials:

- Gray paint on concrete wall of the 4th floor of Paper Machine #4.
- Light green paint on metal wall/beam on first floor of Paper Machine #4.
- Yellow paint on metal guardrail on northwest side of Paper Machine #4.
- Light green paint on wood beam of #4 Finishing Room.
- Beige paint on metal beam on southeast side of Sulphite Plant.
- Gray paint on metal tank of Sulphite Plant.
- White paint on concrete exterior wall of Chip Silo.
- Cream paint on metal sliding door on southern exterior of Weld Shop.
- Gray paint on concrete exterior wall of TMP Refiner Line.
- Gray paint on concrete masonry unit (CMU) block wall of east exterior TMP Refiner Lines.
- Yellow paint on metal bollard of Maintenance Shop.
- Green paint on wood wall of Maintenance Shop.
- White paint on metal beam on 2nd floor of TMP Refiner Lines.
- Dark blue paint on metal window of the control room of the TMP area.
- Red paint on metal beam on first floor of TMP area.
- Green paint on CMU wall of TMP area.
- Gray paint on concrete wall of Paper Machine #1.
- White paint on skim coat over CMU wall of Paper Machine #1.
- White paint on metal beam of TMP Reject Refining.
- Light gray paint on metal door of Boiler Plant basement.
- Silver paint on metal boiler of Boiler Plant basement.
- Orange paint on metal stairs of TMP HI-D tank stairs.
- Silver paint on brick wall in basement of Boiler Plant.
- White paint on metal door frame on exterior of Pipe Shop.
- White paint on concrete wall on exterior of Raw Material Storage.
- Gray paint on wood window frame on west exterior window of Carpenter Shop.
- White paint on CMU wall on north exterior in conference room of Mill O.
- White paint on concrete wall in basement of Paper Machine #3.
- White paint on wood wall of Mill D Warehouse.
- Green paint on concrete wall on 2nd floor landing of Mill D.
- White paint on concrete wall on 2nd floor landing of Mill D.
- White paint on wood beam on 2nd floor of Mill D.
- Red paint on metal fire system piping on first floor of Mill D.
- Gray paint on wood door on exterior barn door of Filter Plant.
- Green paint on concrete wall on exterior of Filter Plant.
- White paint on wood door frame of Filter Plant.

- Gray paint on metal beam of Filter Plant.
- White paint on metal light pole of Filter Plant.
- Gray paint on drywall wall on 3rd floor of Filter Plant.
- Blue paint on metal door of Guard Shack.
- Red paint on metal cabinet in Guard Shack.
- Gray paint on concrete wall in Guard Shack.
- Brown paint on concrete column in office parking area.

A summary of Apex's paint chip sample results, including analytical results, sample numbers, material descriptions and sample locations is provided in Table 2. Sample locations are shown on Figures 3 through 23. Supporting documentation for the sample analyses, including copies of laboratory analytical reports, chain-of-custody documents and laboratory certifications are provided in Appendix B.

4.3 Other Suspect Hazardous Building Materials

During the hazardous building materials survey, Apex observed high-intensity discharge (HID) lamps, fixtures equipped with suspect PCB-containing ballasts and other fluorescent light tubes that may contain mercury-vapors. Apex identified approximately 160 HID lamps throughout the Site. Based on the Site conditions, limited access to specific interior areas and various basement levels, Apex could not provide an accurate count of light ballasts and tubes.

Apex recommends that all light fixtures be inspected for fluorescent light tubes, HID lamps and/or ballasts, prior to demolition. Each ballast should be inspected for "No PCBs" labeling. Ballasts without "No PCBs" labels should be considered PCB-containing. All fluorescent and HID lighting should be removed intact, staged and recycled or disposed, in accordance with local, state and federal regulations

5.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions of this report are Apex's professional opinions, based solely upon visual Site observations and interpretations of laboratory analyses, as described in this report. The survey was performed to evaluate the potential presence of ACMs and lead-containing paints that may be impacted during the on demolition of the Site.

5.1 Asbestos-Containing Materials

Federal, state, and local agencies regulate the condition, handling and disposal of ACM. Asbestos generally does not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled. Contractors must be informed of the type and location of ACM located within any working areas.

Laboratory analyses revealed friable and non-friable ACMs are present in specific portions of the Site (see Section 4.1, Table 1 and Figures). Apex performed destructive sampling throughout the Site; however, access to inaccessible, concealed spaces (e.g., enclosed wall spaces, confined spaces, subfloors, the majority of the rooftops, etc.) was generally limited to areas deemed safe for occupancy. The ACMs identified within the Site will reportedly be impacted by the intended demolition project. These ACMs should be removed and disposed of in accordance with OAR 340-248 and OR-OSHA regulations, prior to disturbance. Abatement of ACM and PACM must be performed by a licensed asbestos-abatement contractor. Prior to initiating an asbestos project involving more than 48 square feet or ten (10) linear feet of ACMs, written notification must be provided to DEQ. Notification must be provided no later than 10 calendar days prior to starting abatement.

Based on the presence and location of both friable and non-friable ACMs, Apex recommends developing specifications for the removal of these materials, prior to initiating construction-related activities. Apex also recommends collecting air samples prior, during and following all asbestos abatement procedures.

Disposal requirements for asbestos waste are defined in OAR 340-248-0280. All asbestos debris and other contaminated materials must be collected and disposed of in labeled, sealed impermeable bags, with a minimum of 6-mil. thickness, or other closed, impermeable containers.

Contractors should use caution during renovation, as concealed ACM that has not previously been analyzed for asbestos may be encountered. If suspect ACM located in accessible and/or inaccessible areas of the facility are encountered during demolition activities, further sampling will be required to characterize those materials.

5.2 Lead-Containing Paints

Laboratory analysis of the paint chips revealed that the painted coatings on the structures contain detectable lead concentrations.

The demolition project will impact materials identified to contain lead, which may result in worker exposure to lead. Activities that may result in worker exposure to lead include:

- Manual damage to and/or demolition of structures coated with lead-containing paints
- Manual scraping and/or sanding of lead-containing paints
- Heat gun applications on surfaces coated with lead-containing paints
- Power tool cleaning of surfaces coated with lead-containing paints (with or without dust collection systems)
- Any other task that may result in the release of lead in the form of dusts, fumes or mists from lead-containing building materials into the air or onto surrounding environments

For work on painted building components (which may result in personnel exposures), an exposure assessment must be conducted in accordance with OR-OSHA Chapter 437, Division 3 regulations (1926.62). Initial employee exposure monitoring must be conducted for each separate task involving the disturbance of building materials coated with lead-containing paints. If 8-hour time-weighted average (TWA) exposures exceed the action level of 30 micrograms of lead per cubic meter of air ($\mu g/m^3$), periodic air monitoring must be continued at specified intervals, and medical surveillance and comprehensive training programs must be instituted. If the 8-hour TWA permissible exposure limit (PEL) of 50 $\mu g/m^3$ for lead is exceeded, more stringent and additional requirements become effective, such as engineering controls, respiratory protection, regulated work areas and warning signs in lead work areas.

Based on the exposure assessment and previous similar work and exposure monitoring results, workers may have to be provided with any or all of the following:

- Respiratory protection
- Protective clothing
- Clean change areas
- Clean hand-washing facilities
- Biological monitoring (e.g., blood sampling and analysis for lead and zinc protoporphyrin levels)
- Hazard communication training

All workers and supervisory personnel who will be at the job site must be informed of the presence of lead in the building. These individuals should be provided additional training concerning the health effects associated with exposure to lead, proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing work practices where lead-containing materials are present.

During any renovation, repair or demolition activity, engineering controls such as barriers and water should be used to minimize dust levels. The public should be prevented from unauthorized access to the work area. Ambient air monitoring should be conducted to document engineering controls are adequate and that ambient airborne concentrations do not exceed permissible exposure levels.

All workers and supervisory personnel who will be at the Site must be informed of the presence of hazardous building materials. These individuals should be provided additional training concerning the health effects associated with exposure to lead, asbestos or other hazardous materials, such as proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing specific work practices.

5.3 Other Suspect Hazardous Building Materials

Apex identified approximately 160 HID lamps and evidence of light ballasts and fluorescent light tubes throughout the Site. HID lamps and fluorescent light tubes identified on Site are assumed to contain mercury vapors. Apex recommends that each fixture be inspected for suspect PCB's and mercury-containing light tubes.

Prior to demolition or renovations that impact the Site structures, Apex recommends that all light fixtures at the Site be removed using manual procedures and that all of the ballasts are inspected for "No PCBs" labeling. Ballasts with missing labels or not labeled with "No PCBs" should be considered to be PCB-containing. Handling and disposal of PCB-containing light ballasts must be in accordance with the EPA Toxic Substance Control Act (TSCA) PCB Regulations, 40 CFR 761. Apex recommends that all ballasts are disposed of as hazardous waste, including ballasts labeled "No PCBs."

Special precaution should be applied to prevent skin contact if leaking PCB ballasts are encountered during dismantling procedures. Leaking ballasts and the light fixtures affected by PCB-containing oils must be handled in accordance with EPA's PCB Regulations, 40 CFR 761. Workers with 40-hour hazardous waste training are required for removal or handling of leaking PCB ballasts.

Fluorescent light tubes and other non-candescent lighting are typically considered dangerous waste, due to their potential for containing mercury vapors. Apex recommends intact removal of all fluorescent light tubes, prior to demolition. Care should be taken to prevent breakage of the fluorescent light tubes during removal. EPA recommends recycling of fluorescent light tubes over the practice of disposal. Handling, storage, transportation and disposal of the lamps must be conducted in accordance with federal, state and local regulations.

All workers and supervisory personnel who will be at the job site must be informed of the presence of hazardous building materials in the portions of the building that they will access and possibly impacting. These individuals should be provided additional training concerning the health effects associated with exposure to lead, asbestos or other hazardous materials, such as proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing specific work practices.

6.0 REFERENCES

Asbestos Hazard Emergency Response Act (AHERA), Title 40 CFR, Part 763.

National Emission Standards for Hazardous Air Pollutants (NESHAPs); Asbestos, 40 CFR Part 61, November 20, 1990.

OSHA; Occupational Exposure to Asbestos; Final Rule, 29 CFR Parts 1910 and 1926 (August 10, 1994).

Oregon Occupational Safety and Health Division, Department of Consumer and Business Services, Program Directive A-208. Subject: Lead: Exposure in Construction, issued June 15, 1994, revised June 7, 2005.

Oregon Administrative Rule (OAR) 340, Division 248, Asbestos Requirements, as enforced by the Oregon Department of Environmental Quality.

OAR 437, Division 2, Subdivision Z – Toxic and Hazardous Substances.

OAR 437, Division 3/D – 1926.62, Lead.

TABLES

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
1	Brown/Gray Wall Mastic	Truck Dump, South Wall Beam	Poor	Mastic	ND		10 LF
2	Tan Fire Brick Debris	Truck Dump, South Wall	Poor	Fire Brick	ND		10 Bricks
3	**Cement Asbestos Board**	**Truck Dump, Electrical Room**	**Fair**	**Cement Asbestos Board**	**10%**	**Chrysotile**	**3,500 SF**
4	2'x4' Dot and Fissure Drop Ceiling Panel	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Ceiling Panel	ND		350 SF
5	Drywall with Joint Compound	Deink ONP Repulper, 2nd Floor, Control Room	Fair	Drywall Joint Compound	ND ND		500 SF
6	4" Gray Vinyl Vinyl Cove Base with Cream Mastic	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		250 SF
7	Pink Insulation with Paper & Foil Backing	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Insulation Paper Backing	ND ND		300 SF
8	**Asphaltic Roofing**	**Deink ONP Repulper, Roof**	**Fair**	**Asphaltic Roofing**	**8%**	**Chrysotile**	11,208 SF
9	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
10	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
11	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
12	Skim Coating over Concrete	Deink ONP Repulper, 4th Story	Fair	Skim Coating	ND		N/A
13	Skim Coating over Concrete	Deink ONP Repulper, 4th Story	Fair	Skim Coating	ND		N/A
14	Skim Coating over Concrete	Deink ONP Repulper, 1st Story	Fair	Skim Coating	ND		N/A
15	Skim Coating over Concrete	Deink ONP Repulper, 1st Floor	Poor	Skim Coating	ND		N/A
16	Brown Fibrous Debris	Deink ONP Repulper, 4th Floor	Poor	Debris	ND		80 SF
17	Gasket in Debris	Deink ONP Repulper, 4th Floor	Poor	Gasket	ND		2 Each
18	Asphalt Roofing	Deink ONP Repulper, 1st Floor	Poor	Asphaltic Roofing	ND		N/A
19	White Wall Mastic	Deink ONP Repulper, 1st Floor	Poor	Mastic	ND		5 LF
20	Grout Associated with Glass Blocks	Deink ONP Repulper, South Exterior	Fair	Grout	ND		50 LF
21	Tan Mastic Dots	Paper Machine #4, Basement	Fair	Mastic	ND		2 SF
22	12"x12" Blue Vinyl Floor Tile with Yellow Mastic and White Leveling Compound	Paper Machine #4, 1st Floor, North Control Room	Fair	Vinyl Floor Tile Mastic Leveler	ND ND ND		300 SF
23	4" Tan Cove with Tan Mastic	Paper Machine #4, 1st Floor, North Control Room	Fair	Vinyl Vinyl Cove Base with Mastic	ND		300 LF
24	12"x12" White Ceiling Tiles with Mastic Dots	Paper Machine #4, 1st Floor, North Control Room	Fair	Ceiling Tile Mastic	ND ND		70 SF
25	**Transite Siding**	**Paper Machine #4, 1st Floor, East Exterior**	**Fair**	**Transite**	**20%**	**Chrysotile**	82,552 SF
26	Tan Sheet Vinyl with Mastic	Paper Machine #4, 1st Floor, Men's Restroom	Fair	Sheet Vinyl Mastic	ND ND		100 LF
27	White Fiberglass Reinforced Plastic Panels with Tan Mastic	Paper Machine #4, 1st Floor, Men's Restroom	Fair	Fiberglass Reinforced Plastic Panels Mastic	ND ND		250 SF
28	12"x12" Gray Vinyl Floor Tile with Mastic	Paper Machine #4, 1st Floor, South Control Room	Fair	Vinyl Floor Tile Mastic	ND ND		250 SF
29	**Yellow Pebble Patterned Sheet Vinyl** with Mastic	**Paper Machine #4, 1st Floor, Computer Room**	**Fair**	**Sheet Vinyl** Mastic	**25%** ND	**Chrysotile**	**50 SF**
30	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Paper Machine #4, 1st Floor, Computer Room	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		80 LF

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Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
31	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Poor	Texture	ND		<1000 SF
				Texture	ND		
				CMU	ND		
32	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Poor	Texture	ND		RE: 31
				Texture	ND		
				CMU	ND		
33	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Fair	Texture	ND		RE: 31
				Texture	ND		
				CMU	ND		
34	Plaster over CMU Block Grout	Paper Machine #4, 1st Floor, Computer Room	Fair	Plaster	ND		N/A
				Grout	ND		
35	12"x12" White Ceiling Tiles with Mastic	Paper Machine #4, 1st Floor, Computer Room	Fair	Ceiling Tile/Mastic	ND		**150 SF**
36	Terracotta Tile with White Grout	Paper Machine #4, 1st Floor, Hatch	Fair	Terracotta Tile	ND		N/A
				Grout	ND		
37	4" Gray Cove with Mastic	Paper Machine #4, 1st Floor, Women's Restroom	Poor	Vinyl Vinyl Cove Base	ND		**75 SF**
				Mastic	ND		
38	Tan Wall Panel with Mastic	Paper Machine #4, 1st Floor, Women's Restroom	Fair	Wall Panel	ND		N/A
				Mastic	ND		
39	**White Sink Undercoating**	**Paper Machine #4, 1st Floor, Women's Restroom**	**Fair**	**Sink Undercoating**	**8%**	**Chrysotile**	**1 Sink**
40	**Gray Window Glazing**	**Paper Machine #4, 1st Floor, Exterior**	**Poor**	**Window Glazing**	**<1%**	**Chrysotile**	**25 LF**
41	Sink Undercoating	Paper Machine #4, 2nd Floor, Restroom	Fair	Sink Undercoating	ND		1 Sink
42	Blue Laminate Countertop with Mastic	Paper Machine #4, 2nd Floor, Restroom	Fair	Laminate	ND		25 SF
				Mastic	ND		
43	2'x4' Ceiling Panel	#4 Finishing, 2nd Floor, Bathroom	Fair	Ceiling Panel	ND		150 SF
44	Carpet over Fabric Flooring	#4 Finishing, 4th Floor	Poor	Carpet	ND		200 SF
45	**9"x9" Green Vinyl Floor Tile** with Yellow Mastic	**#4 Finishing, 4th Floor**	**Poor**	**Vinyl Floor Tile**	**5%**	**Chrysotile**	**100 SF**
				Mastic	ND		
46	**12"x12" Green Vinyl Floor Tile** with Yellow Mastic	**#4 Finishing, 4th Floor**	**Poor**	**Vinyl Floor Tile**	**5%**	**Chrysotile**	**100 SF**
				Mastic	ND		
47	2" Brown Vinyl Vinyl Cove Base with Brown Mastic	#4 Finishing, 4th Floor	Poor	Vinyl Vinyl Cove Base	ND		80 LF
				Mastic	ND		
48	Black Rubber Membrane with Mastic and Foam over Sheet Vinyl with Cream Mastic	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Rubber Membrane	ND		400 SF
				Mastic	ND		
				Sheet Vinyl	ND		
				Mastic	ND		
49	6" Brown Vinyl Vinyl Cove Base with Brown Mastic	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Fair	Vinyl Vinyl Cove Base	ND		75 SF
				Mastic	ND		
50	Black Fiberglass Insulation with Black Felt	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Insulation	ND		15 LF
51	Drywall with Joint Compound	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Drywall	ND		600 SF
				Joint Compound	ND		
52	**Built-up Roofing Material** with Built-up Roofing Material with Rubber Membrane	**Paper Machine #4, Roof**	**Fair**	**Built-up Roofing**	**10%**	**Chrysotile**	**400 SF**
				Built-up Roofing	ND		
				Rubber Membrane	ND		
53	Tan Roof Caulking with Silver Paint	Paper Machine #4, Roof	Fair	Caulking	ND		20 LF
54	2'x2' Patterned 4'x4' Drop Ceiling Panel	#4 Finishing, 1st Floor, Office	Fair	Ceiling Panel	ND		400 SF

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
55	Tan Sheet Vinyl Floor with Tan Mastic	#4 Finishing, 1st Floor, Office	Poor	Sheet Vinyl	ND		20 SF
				Mastic	ND		
56	Insulation with Paper Backing	#4 Finishing, 1st Floor, Office	Fair	Fiberglass Insulation	ND		1,000 SF
				Paper Backing	ND		
57	Felt Cloth	Dig, East Exterior	Poor	Felt Cloth	ND		200 SF
58	Terracotta Tile with White Grout	Former Tank East Of Dig	Poor	Terracotta Tile	ND		900 SF
				Grout	ND		
59	**Transite Siding**	**Sulphite Plant, East Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
60	Silver Paint	Sulphite Plant, Sphere Tank	Poor	Silver Paint	ND		N/A
61	Tan Sheet Vinyl Flooring with Cream Mastic	Weld Shop Office	Fair	Sheet Vinyl	ND		60 SF
				Mastic	ND		
62	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		350 SF
				Drywall	ND		
63	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		RE:62
				Drywall	ND		
64	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		RE:62
				Drywall	ND		
65	Drywall with Joint Compound	Weld Shop Office	Fair	Drywall	ND		350 SF
				Joint Compound	ND		
66	Insulation with Paper Wrap	Receiving & Store Room	Good	Fiberglass Insulation	ND		1,000 SF
				Paper Wrap	ND		
67	12"x12" Tan Vinyl Floor Tile with Orange Mastic	Receiving & Store Room Office	Poor	Vinyl Floor Tile	ND		300 SF
				Mastic	ND		
68	4" Gray Vinyl Vinyl Cove Base with Mastic	Receiving & Store Room Office	Poor	Vinyl Vinyl Cove Base	ND		70 SF
				Mastic	ND		
69	12"x12" White Dot Ceiling Tile with Tan Mastic Dots	Receiving & Store Room Office	Poor	Ceiling Tile	ND		300 SF
				Mastic	ND		
70	CMU Block with Grout	Receiving & Store Room	Fair	CMU	ND		N/A
				Grout	ND		
71	Ceiling Fireproofing Debris	Maintenance Shop	Poor	Fireproofing	ND		N/A
72	12"x12" Blue & White Vinyl Floor Tile with Tan Mastic	Mill Offices, 2nd Floor	Fair	Vinyl Floor Tile	ND		350 SF
				Mastic	ND		
73	4" Gray Cove with Cream Mastic	Mill Offices, 2nd Floor	Fair	Vinyl Vinyl Cove Base	ND		100 LF
				Mastic	ND		
74	2'x4' Dot and Fissure Ceiling Panel	Mill Offices, 2nd Floor	Poor	Ceiling Panel	ND		350 SF
75	12"x12" Gray Vinyl Floor Tile with **Mastic** & Black Backing	**Mill Offices, 2nd Floor**	**Poor**	Vinyl Floor Tile	ND		**350 SF**
				Mastic	**6%**	**Chrysotile**	
76	4" Black Vinyl Vinyl Cove Base with Brown Mastic	**Mill Offices, 2nd Floor**	**Fair**	Vinyl Vinyl Cove Base	ND		**100 LF**
				Mastic	**2%**	**Chrysotile**	
77	4" Tan Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		1,000 LF
				Mastic	ND		
78	4" Gray Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		800 LF
				Mastic	ND		
79	12"x12" Blue Vinyl Floor Tile with Yellow Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Floor Tile	ND		650 SF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
80	Blue Carpet with Cream Mastic with Gray Leveler	Mill Offices, 3rd Floor	Fair	Carpet	ND		1,200 SF
				Mastic	ND		
				Leveler	ND		
81	Drywall with Joint Compound	Mill Offices, 3rd Floor	Fair	Drywall	ND		N/A
				Joint Compound	ND		
82	2'x4' Dot and Fissure Drop Ceiling Panel	Mill Offices, 3rd Floor	Poor	Ceiling Panel	ND		1,500 SF
83	**White Cementitious Wall Panel with Brown Mastic**	**Mill Offices, Men's Restroom**	**Good**	**Wall Panel with Mastic**	**20%**	**Chrysotile**	**1,025 SF**
84	4" Black Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, Men's Restroom	Poor	Vinyl Vinyl Cove Base	ND		425 LF
				Mastic	ND		
85	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Mill Offices, 3rd Floor	Poor	Vinyl Vinyl Cove Base	ND		600 LF
				Mastic	ND		
86	4" Light Gray Vinyl Vinyl Cove Base with Tan Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		200 LF
				Mastic	ND		
87	12"x12" Dot Ceiling Tile with **Black Mastic Dots**	**Mill Offices, 3rd Floor**	**Fair**	**Ceiling Tile with Mastic**	**<1%**	**Chrysotile**	**350 SF**
88	2'x4' Yellow Fiberglass Ceiling Panel with White Layer	Mill Offices, 3rd Floor	Fair	Ceiling Panel	ND		800 SF
				White Layer	ND		
89	12"x12" Brown Vinyl Floor Tile with **Black Mastic**	**Mill Offices, 3rd Floor, Western Offices**	**Fair**	Vinyl Floor Tile	ND		**1,300 SF**
				Mastic	**7%**	**Chrysotile**	
90	Gray Carpet with Cream Mastic over Tan Vinyl Floor Tile with **Black Mastic**	**Mill Offices, 3rd Floor, North Offices**	**Fair**	Carpet	ND		**250 SF**
				Mastic	ND		
				Vinyl Floor Tile	ND		
				Mastic	**7%**	**Chrysotile**	
91	Dark Gray Carpet with Cream Mastic	Mill Offices, 3rd Floor, North Offices	Fair	Carpet	ND		160 SF
				Mastic	ND		
92	12"x12" Tan Vinyl Floor Tile with Black Mastic	Mill Offices, 3rd Floor, Eastern Offices	Fair	Vinyl Floor Tile	ND		720 SF
				Mastic	ND		
93	Red Epoxy Flooring with Cream Mastic	Mill Offices, 3rd Floor, Break Room	Fair	Epoxy Flooring	ND		800 SF
				Mastic	ND		
94	2"x2" Tan Ceramic Tile with Gray Grout and Leveling Compound	Mill Offices, 3rd Floor, Locker Room	Fair	Ceramic Tile	ND		150 SF
				Grout	ND		
				Leveler	ND		
95	White Ceramic Vinyl Vinyl Cove Base with Mortar	Mill Offices, 3rd Floor, Locker Room	Fair	Vinyl Vinyl Cove Base	ND		80 LF
				Mortar	ND		
96	Green Epoxy Flooring with Cream Mastic	Mill Offices, 3rd Floor, Store Room	Fair	Epoxy Flooring	ND		100 SF
				Mastic	ND		
97	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		<1,000 SF
				Drywall	ND		
98	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		RE: 97
				Drywall	ND		
99	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		RE: 97
				Drywall	ND		
100	**Built-up Asphaltic Roofing**	**Mill Offices, 5th Floor, Roof**	**Poor**	**Built-up Roofing**	**10%**	**Chrysotile**	2,355 SF
101	Textured Sheet Vinyl Flooring with Cream Mastic	Mill Offices, 5th Floor	Fair	Sheet Vinyl	ND		550 SF
				Mastic	ND		

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
102	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		5,250 SF
				Drywall	ND		
103	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
104	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
105	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
106	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
107	White Fiberglass Reinforced Plastic Panels with Mastic	Mill Offices, 5th Floor, Restroom	Good	Fiberglass Reinforced Plastic Panels	ND		150 SF
				Mastic	ND		
108	Laminate Countertop with Thin Tan Mastic	Mill Offices, 5th Floor, Break Area	Fair	Laminate	ND		20 SF
				Mastic	ND		
109	White Wall Panel with **Brown Mastic**	Mill Offices, 4th Floor	Fair	Wall Panel	ND		**480 SF**
				Mastic	**4%**	**Chrysotile**	
110	**Red Sheet Vinyl** with Cream Mastic	**Mill Offices, 4th Floor**	**Fair**	**Sheet Vinyl**	**20%**	**Chrysotile**	**275 SF**
				Mastic	ND		
111	12"x12" Gray Vinyl Floor Tile with Tan Mastic	TMP Refiner Lines, 2nd Story, Control Room	Fair	Vinyl Floor Tile with Mastic	ND		405 SF
112	4" Gray Cove with Cream Mastic	TMP Refiner Lines, 2nd Story, Control Room	Fair	Vinyl Vinyl Cove Base	ND		84 LF
				Mastic	ND		
113	Residual 12"x12" Dark Tan Vinyl Floor Tile with Black Mastic	TMP Refiner Lines, 2nd Story, Control Room	Poor	Vinyl Floor Tile	ND		20 SF
				Mastic	ND		
114	Yellow & Black Sealant	TMP Refiner Lines, Exterior - East	Poor	Sealant	ND		50 SF
115	**Transite Siding**	**TMP Reject Refining & Screening - Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
116	Black Fibrous Debris	TMP Reject, 2nd Floor	Poor	Debris	ND		5 SF
117	4" Gray Cove with Brown Mastic	TMP Area, 1st Floor, Control Room	Poor	Vinyl Vinyl Cove Base	ND		80 LF
				Mastic	ND		
118	4" Blue Cove with Brown Mastic	TMP Area, 1st Floor, Control Room	Poor	Vinyl Cove Base	ND		80 LF
				Mastic	ND		
119	2'x4' Dot and Fissure Drop Ceiling Panels	TMP Area, 1st Floor, Control Room	Poor	Ceiling Panel	ND		770 SF
120	Gray Floor Leveling Compound	TMP Area, 1st Floor, Control Room	Fair	Leveler	ND		770 SF
121	Gray Laminate Countertop with Mastic	TMP Lab, 1st Floor	Fair	Laminate	ND		40 SF
				Mastic	ND		
122	Drywall with Joint Compound	TMP Lab, 1st Floor	Fair	Drywall	ND		1,100 SF
				Joint Compound	ND		
123	Terracotta Tile	Paper Machine #1, 1st Floor, Tank Pit	Fair	Terracotta Tile	ND		N/A
124	Gray Wall Mastic with Concrete	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Poor	Mastic	ND		7 LF
				Concrete	ND		
125	12"x12" White Dot Ceiling Tile with Brown Mastic Dots	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Ceiling Tile	ND		125 SF
				Mastic	ND		
126	Yellow Insulation with and White Paper Wrap	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Fiberglass Insulation	ND		10 LF
				Paper Wrap	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
127	Pink Ceiling Insulation with Brown Paper	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Fiberglass Insulation	ND		125 SF
				Brown Paper	ND		
128	Gray Carpet with Tan Mastic	Paper Machine #1, 1st Floor, "Microwave" Room	Poor	Carpet	ND		250 SF
				Mastic	ND		
129	**Transite Siding**	**Paper Machine #1, South Exterior**	**Poor**	**Transite**	**17%**	**Chrysotile**	**RE: 25**
130	Black Dot Pattern Vinyl Floor Tile with White Mastic	Paper Machine #1, 1st Floor, Raised Office	Fair	Vinyl Floor Tile	ND		100 SF
				Mastic	ND		
131	4" Black Cove with White Mastic	Paper Machine #1, 1st Floor, Raised Office	Fair	Vinyl Cove Base	ND		44 LF
				Mastic	ND		
132	White Fiberglass Reinforced Plastic Panels with Cream Mastic	Paper Machine #1, 1st Floor, Raised Office	Poor	Fiberglass Reinforced Plastic Panels	ND		480 SF
				Mastic	ND		
133	2'x4' Dot Drop Ceiling Panel	Paper Machine #1, 1st Floor, Raised Office	Fair	Ceiling Panel	ND		100 SF
134	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
135	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
136	Skim Coat with Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
				CMU	ND		
137	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
138	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
139	Skim Coat with Backing over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
				Backing	ND		
140	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
141	Terracotta Tile with Grout	Paper Machine #1, 1st Floor, Filtrate Tank	Fair	Terracotta Tile	ND		N/A
				Grout	ND		
142	Carpet over Carpet	Paper Machine #1, Roof	Poor	Carpet	ND		200 SF
				Carpet	ND		
143	White Exterior Caulking	Paper Machine #1, Roof	Poor	Caulking	ND		250 LF
144	Built-up Roofing with Black Mastic with Insulation	Paper Machine #1, Roof	Poor	Built-up Roofing	ND		N/A
				Tar/Mastic	ND		
				Insulation	ND		
145	**9"x9" Green Vinyl Floor Tile with Black Mastic**	**Sulphite Plant, 3rd Story, Restroom**	**Poor**	**Vinyl Floor Tile**	**6%**	**Chrysotile**	**450 SF**
				Mastic	**8%**	**Chrysotile**	
146	Brown Mastic	Sulphite Plant, 3rd Story, Restroom	Poor	Mastic	ND		100 LF
147	CMU Block with Grout	Sulphite Plant, 3rd Story, Restroom	Fair	CMU	ND		N/A
				Grout	ND		
148	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		<1,000 SF
149	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		RE: 148
150	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		RE: 148
151	**Cement Asbestos Board**	**Sulphite Plant, 4th Floor**	**Poor**	**Cement Asbestos Board**	**18%**	**Chrysotile**	2,784 SF
152	**Fiber Wall Panel with Mastic**	**Sulphite Plant, 4th Floor**	**Fair**	**Wall Panel**	**15%**	**Chrysotile**	**200 SF**
				Mastic	**3%**	**Chrysotile**	
153	**Cement Asbestos Board Panel with Black Mastic**	**Sulphite Plant, 4th Floor**	**Poor**	**Cement Asbestos Board**	**18%**	**Chrysotile**	**RE: 151**
				Mastic	**10%**	**Chrysotile**	
154	**Asphaltic Stair Tread**	**Sulphite Plant, Stairs 4th Story To Roof**	**Poor**	**Stair Tread**	**40%**	**Chrysotile**	**28 SF**

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
155	Silver Paint with **Built-up Roofing** with Built-up Roofing with **Built-up Roofing** with Tar Felt with Black Mastic with Insulation	**Sulphite Plant, Roof**	**Poor**	Silver Paint	ND		6,550 SF
				Built-up Roofing	**55%**	**Chrysotile**	
				Built-up Roofing	ND		
				Built-up Roofing	**60%**	**Chrysotile**	
				Tar Felt	ND		
				Tar/Mastic	ND		
				Insulation	ND		
156	Concrete Block with Gray Grout	TMP Hi-D Tank	Fair	Concrete Block	ND		N/A
				Grout	ND		
157	Gray Sealant on HVAC Duct	Recovery Boiler, Basement, Men's Locker Room	Fair	Sealant	ND		195 LF
158	Fiberglass Reinforced Plastic Panels with Cream Mastic	Recovery Boiler, Basement, Men's Locker Room	Fair	Fiberglass Reinforced Plastic Panels	ND		800 SF
				Mastic	ND		
159	Blue Laminate Countertop with Mastic	Recovery Boiler, Basement, Men's Locker Room	Fair	Laminate	ND		45 SF
				Mastic	ND		
160	Yellow Fiber Insulation with Black "John-Manville" Paper	Boiler Plant, Basement, Adjacent To Sodium Hydrosulfide	Poor	Fiberglass Insulation	ND		350 SF
				Black Paper	ND		
161	Black Asphaltic Felt	Boiler Plant, Basement, Adjacent To Sodium Hydrosulfide	Poor	Felt	ND		350 SF
162	12"x12" White Dot and Fissure Ceiling Tiles with Tan Mastic Dots	Pipe Shop, 1st Floor	Poor	Ceiling Tiles	ND		100 SF
				Mastic	ND		
163	Blue Laminate Countertop with Mastic	Pipe Shop, 1st Floor	Fair	Laminate	ND		20 SF
				Mastic	ND		
164	CMU Block with Grout	Pipe Shop, 1st Floor	Fair	CMU	ND		N/A
				Grout	ND		
165	White Sink Undercoating	Pipe Shop, 2nd Floor	Fair	Sink Undercoating	ND		1 Sink
166	Ceramic Electric Insulator with **Black Mastic**	**Environmental Lab, Western Exterior**	**Poor**	Electric Insulator	ND		**1 Each**
				Mastic	**5%**	**Chrysotile**	
167	12"x12" Cream Vinyl Floor Tile with Brown Mastic	Mill O Conference Room, Nurse's Office	Poor	Vinyl Floor Tile	ND		2,200 SF
				Mastic	ND		
168	4" Brown Vinyl Cove Base with White Mastic	Mill O Conference Room, Nurse's Office	Poor	Vinyl Cove Base	ND		200 LF
				Mastic	ND		
169	Wood Wall Panel with Adhesive	Mill O Conference Room, 1st Floor	Fair	Wall Panel	ND		2,000 SF
170	White Laminate Countertop with Mastic	Mill O Conference Room, 1st Floor	Fair	Laminate	ND		20 SF
				Mastic	ND		
171	2'x4' Dot and Fissure Drop Ceiling Panel	Mill O Conference Room, 1st Floor	Poor	Ceiling Panel	ND		1,200 SF
172	**9"x9" Green Vinyl Floor Tile with Black Mastic**	**Environmental Lab, 1st Floor**	**Poor**	**Vinyl Floor Tile**	**8%**	**Chrysotile**	**250 SF**
				Mastic	**8%**	**Chrysotile**	
173	**9"x9" Brown Vinyl Floor Tile with Black Mastic**	**Environmental Lab, 1st Floor**	**Poor**	**Vinyl Floor Tile**	**4%**	**Chrysotile**	**50 SF**
				Mastic	**7%**	**Chrysotile**	
174	**2'x4' Dot Drop Ceiling Panel**	**Environmental Lab, 1st Floor**	**Poor**	**Ceiling Panel**	**3%**	**Chrysotile**	**150 SF**
175	12"x12" White Dot Ceiling Tiles with Gray Mastic Dots	Environmental Lab, 1st Floor	Fair	Ceiling Tiles	ND		400 SF
				Mastic	ND		
176	**Black Sink Undercoating**	**Environmental Lab, 1st Floor**	**Fair**	**Sink Undercoating**	**9%**	**Chrysotile**	**6 Sinks**
177	4" Black Vinyl Cove Base with Brown Mastic	Environmental Lab, 1st Floor	Fair	Vinyl Cove Base	ND		300 LF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
178	Blue Plastic Wall Panel with Brown Mastic	Environmental Lab, 1st Floor	Fair	Wall Panel	ND		1,100 SF
				Mastic	ND		
179	**Black Stone Countertop**	**Environmental Lab, 1st Floor**	**Poor**	**Stone**	**12%**	**Chrysotile**	**350 SF**
180	Green Sheet Vinyl with Tan Mastic	Raw Material Storage, 2nd Story	Poor	Sheet Vinyl	ND		100 SF
				Mastic	ND		
181	Black Fiber Panel Flooring	Raw Material Storage, 2nd Story	Poor	Fiber Panel	ND		275 SF
182	**Beige Sheet Vinyl Flooring with Mastic**	**Raw Material Storage, 2nd Story**	**Poor**	**Sheet Vinyl**	**20%**	**Chrysotile**	**2,250 SF**
183	4" Brown Vinyl Cove Base with Tan Mastic	Raw Material Storage, 2nd Floor	Poor	Vinyl Cove Base	ND		400 LF
				Mastic	ND		
184	Fibrous 24" Diameter Plastic Pipe	Raw Material Storage, 2nd Floor	Good	Pipe	ND		130 LF
185	Drywall with Joint Compound	Raw Material Storage, 2nd Floor	Fair	Drywall	ND		N/A
				Joint Compound	ND		
186	White Window Glazing	Raw Material Storage, 2nd Story, Exterior	Poor	Window Glazing	ND		4,800 LF
187	Pipe Wrap with **Mastic** with Insulation	**Sulphite Plant, Southeast Exterior**	**Poor**	Pipe Wrap	ND		**3 LF**
				Mastic	**9%**	**Chrysotile**	
				Insulation	ND		
188	12" Diameter Fiber Insulation with Paper	City Water Pipe, South Of Sulphite Plant	Poor	Insulation	ND		50 LF
				Paper	ND		
189	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		15 LF
190	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		RE: 189
191	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		RE: 189
192	White Fibrous Insulation	Auto Shop, Southern Wall	Poor	Insulation	ND		2,200 SF
193	White Fibrous Insulation	Auto Shop, Ceiling	Poor	Insulation	ND		RE: 192
194	White Fibrous Insulation	Auto Shop, Floor Debris	Poor	Insulation	ND		RE: 192
195	Black Fibrous Sheet Debris	Deink Hi-D Tank Area	Poor	Debris	ND		15 SF
196	Red Brick with Gray Mortar	Deink Hi-D Tank Area	Poor	Brick	ND		24 SF
				Mortar	ND		
197	Gray Grout Associated with Rock Wall	Deink Hi-D Tank Area	Poor	Grout	ND		N/A
198	Red 12"x12" Bricks with White Grout	Butler Building	Fair	Brick	ND		130 SF
				Grout	ND		
199	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		130 SF
200	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		RE: 199
201	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		RE: 199
202	Asphaltic Decking	Paper Machine #2 Deck	Poor	Decking	ND		900 SF
203	Gray Fibrous Cloth	Paper Machine #2	Poor	Fibrous Cloth	ND		50 SF
204	Yellow Wall Mastic	Paper Machine #2	Poor	Mastic	ND		10 LF
205	Blue Laminate Countertop with Mastic	Mill D Warehouse, 1st Floor, Restrooms	Fair	Laminate	ND		20 SF
				Mastic	ND		
206	White Sink Undercoating	Mill D Warehouse, 1st Floor, Restrooms	Fair	Sink Undercoating	ND		7 Sinks
207	White Fiberglass Reinforced Plastic Panels with Mastic	Mill D Warehouse, 1st Floor, Restrooms	Fair	Fiberglass Reinforced Plastic Panels	ND		360 SF
				Mastic	ND		
208	4x2 Dot and Fissure Drop Ceiling Panel	Mill D Warehouse, 1st Floor, Restrooms	Fair	Ceiling Panel	ND		84 SF
209	4" Cream Cove with Cream Mastic	Mill D Warehouse, 1st Floor, Restrooms	Poor	Vinyl Cove Base	ND		40 LF
				Mastic	ND		

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
210	Yellow Pipe Wrap with Paper	Mill D Warehouse, 1st Floor, Supply Room	Poor	Pipe Wrap	ND		1 LF
				Paper	ND		
211	White Cloth Gasket	Mill D Warehouse Supply Room	Fair	Gasket	ND		2 Each
212	**Green 9x9 Vinyl Floor Tile with Brown Mastic**	**Mill D, Paint Room**	**Poor**	**Vinyl Floor Tile**	**8%**	**Chrysotile**	**60 SF**
				Mastic	**9%**	**Chrysotile**	
213	White Fibrous Material with Adhesive	Mill D, Rail Car Loading Dock	Fair	Fibrous Material	ND		1 Pallet
				Adhesive	ND		
214	Brown Felt Paper	Mill D Warehouse	Poor	Paper	ND		N/A
215	White Window Glazing	Mill D Warehouse	Poor	Window Glazing	ND		84 LF
216	12"x12" Blue Vinyl Floor Tile with Cream Mastic	Paper Machine #3, Northern Control Room	Poor	Vinyl Floor Tile	ND		225 SF
				Mastic	ND		
217	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		144 SF
				Drywall	ND		
218	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		RE; 217
				Drywall	ND		
219	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		RE: 217
220	**Built-up Roofing** with Silver Paint and Tar Felt	**Mill D, Roof**	**Poor**	**Built-up Roofing**	**5%**	**Chrysotile**	16,975 SF
				Silver Paint	ND		
				Tar Felt	ND		
221	**Black Vibration Dampener**	**Paper Machine #3, Exterior, Riverside**	**Poor**	**Padding**	**80%**	**Chrysotile**	**5 Each**
222	Terracotta Tile with Black Grout Debris	Paper Machine #3, Exterior, Riverside	Poor	Terracotta Tile	ND		10 SF
				Grout	ND		
223	Black Mastic Dot Associated with Wall Mirrors	Fitness Center	Fair	Mastic	ND		70 SF
224	Blue Carpet with Tan Adhesive	Fitness Center	Fair	Carpet	ND		36 SF
				Adhesive	ND		
225	Joint Compound with Drywall	Fitness Center	Fair	Joint Compound	ND		N/A
				Drywall	ND		
226	Yellow Insulation with White Wrap	Water Filter Plant, 3rd Floor, Office	Fair	Insulation	ND		6,400 SF
				Wrap	ND		
227	**Transite Siding**	**Water Filter Plant, 3rd Floor, Office**	**Fair**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
228	Window Glazing	Water Filter Plant, 3rd Floor, Office	Fair	Window Glazing	ND		340 LF
229	**Joint Compound** with Drywall	**Water Filter Plant, 3rd Floor, Office**	**Fair**	**Joint Compound**	**3%**	**Chrysotile**	**3,030 SF**
				Drywall	ND		
230	Asphalt Paper	Water Filter Plant, 3rd Floor, Restroom	Fair	Paper	ND		10 LF
231	**Caulking Behind Transite**	**Water Filter Plant, 2nd Story, Exterior**	**Fair**	**Caulking**	**12%**		420 SF
232	Fibrous Pipe Elbow Wrap	Water Filter Plant, 2nd Story, Covered Exterior	Good	Pipe Elbow Wrap	ND		1 Elbow
233	CMU Block with Grout	Millwright Shop, Office	Good	CMU Block	ND		N/A
				Grout	ND		
234	Cementitious Vinyl Cove Base with Cream Mastic	Millwright Shop, Office	Fair	Vinyl Cove Base	ND		60 LF
				Mastic	ND		
235	Blue Laminate Countertop with Mastic	Millwright Shop, Restroom	Fair	Laminate	ND		25 SF
				Mastic	ND		
236	2'x4' Dot and Fissure Wall Panel with Brown Mastic	Millwright Shop, Office	Fair	Wall Panel	ND		80 SF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
237	**Transite Siding**	**Paper Machine #3, 1st Floor, Electrical Room**	**Fair**	**Transite**	**18%**		**RE: 25**
238	**Transite** with Foam	**Paper Machine #3, 1st Floor, Electrical Room**	**Fair**	**Transite**	**17%**	**Chrysotile**	**RE: 25**
				Foam	ND		N/A
239	Drywall with Brown Joint Compound	TMP Refiner Lines, 4th Story Annex	Poor	Drywall	ND		900 SF
				Joint Compound	ND		
240	Tan Drywall with Joint Compound	TMP Refiner Lines, 4th Story Annex	Fair	Drywall	ND		300 SF
				Joint Compound	ND		
241	Orange Mastic	TMP Refiner Lines, 4th Story Annex on Door	Poor	Mastic	ND		4 SF
242	Orange Foam Insulation with Foil Backer	TMP Refiner Lines, 4th Story Annex	Fair	Foam	ND		1,480 SF
				Backing	ND		
243	White Gasket Debris	TMP Refiner Lines, Ext. Dock - East	Poor	Gasket	ND		1 Broken Piece
244	Black Seal	TMP Refiner Lines, Ext. Dock - East	Poor	Sealant	ND		25 LF
245	**Black Asphaltic Pipe Coating**	**Adjacent to Hi-D Tank**	**Poor**	**Coating**	**25%**	**Chrysotile**	**8 SF**
246	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
247	White Coating with Black Wall Mastic	Adjacent to Hi-D Tank	Poor	Coating	ND		2 SF
				Sealant	ND		
248	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
249	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
250	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
251	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
252	White/Gray Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Fair	Fire Brick	ND		N/A
253	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
254	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
255	Gray Metallic Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
256	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
257	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
258	Tan-Red Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
259	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
260	Gray Metallic Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
261	Tan-Red Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
262	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
263	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
264	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
265	Brown Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
266	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
267	Cream Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
268	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
269	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
270	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
271	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
272	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
273	Orange Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
274	Gray Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
275	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
276	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
277	Orange Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
278	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
279	**Transite Siding**	**Garage Adjacent To Guard Shack**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
280	4" Green Vinyl Cove Base with Brown Mastic	Garage Adjacent To Guard Shack	Poor	Vinyl Cove Base Mastic	ND ND		N/A
281	4" Gray Vinyl Cove Base with Tan Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		350 LF
282	4" Black Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		200 LF
283	6" Gray Vinyl Vinyl Cove Base with White Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		180 LF
284	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		50 LF
285	4" Tan Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		50 LF
286	12"X12" White Dot Ceiling Tile	Office Adjacent To Guard Shack	Poor	Ceiling Tile	ND		N/A
287	2'x4' White Dot and Fissure Drop Ceiling Panel	Office Adjacent To Guard Shack	Poor	Ceiling Panel	ND		N/A
288	**9"X9" White Vinyl Floor Tile with Black Mastic**	**Office Adjacent To Guard Shack**	**Fair**	**Floor Tile** **Mastic**	**2%** **8%**	**Chrysotile** **Chrysotile**	**1,050 SF**
289	**12"X12" Beige Vinyl Floor Tile with Black Mastic**	**Office Adjacent To Guard Shack**	**Poor**	**Floor Tile** **Mastic**	**3%** **6%**	**Chrysotile** **Chrysotile**	200 SF
290	Gray Sheet Vinyl with **Black Mastic**	**Office Adjacent To Guard Shack**	**Poor**	Sheet Vinyl **Mastic**	ND **4%**	 **Chrysotile**	**85 SF**
291	Blue Carpet with Yellow Mastic	Office Adjacent To Guard Shack	Poor	Carpet Mastic	ND ND		N/A
292	Brown Wall Mastic with Cork Board	Office Adjacent To Guard Shack	Poor	Fiberboard Mastic	ND ND		36 Dots
293	Drywall with Joint Compound	Office Adjacent To Guard Shack	Poor	Drywall Joint Compound	ND ND		N/A
294	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
295	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
296	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
297	**Knockdown Wall Texture** with Tape with **Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture** Tape **Texture**	**2%** ND **2%**	**Chrysotile** **Chrysotile**	**200 SF**

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
298	**Knockdown Wall Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture**	**2%**	**Chrysotile**	**RE: 297**
299	**Knockdown Wall Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture**	**2%**	**Chrysotile**	**RE: 297**
300	Pink Insulation with Black Paper Backing	Office Adjacent To Guard Shack	Fair	Insulation	ND		N/A
				Backing	ND		
301	Beige Sheet Vinyl with Yellow Mastic	Guard Shack	Fair	Sheet Vinyl	ND		N/A
				Mastic	ND		
302	White Ceiling Panel	Guard Shack	Fair	Ceiling Panel	ND		N/A
303	12"X12" White Vinyl Floor Tile with Brown Mastic	Portable Office (North Of Guard Shack)	Poor	Floor Tile	ND		50 SF
				Mastic	ND		
304	12"X12" Dark Gray Vinyl Floor Tile with Tan Mastic	**Portable Office (North Of Guard Shack)**	**Poor**	**Floor Tile**	**2%**	**Chrysotile**	**50 SF**
				Mastic	ND		
305	White Window Caulking	Portable Office (North Of Guard Shack)	Poor	Caulking	ND		98 LF
306	Gray Stair Tread with Cream Mastic	Mill Offices, Stairs	Poor	Stair Tread	ND		21 Stairs
				Mastic	ND		
307	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, West Side	Poor	Paint	ND		N/A
308	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, North Side	Poor	Paint	ND		N/A
309	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, East Side	Poor	Paint	ND		N/A
310	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, West Side	Poor	Paint	ND		N/A
311	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, North Side	Poor	Paint	ND		N/A
312	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, East Side	Poor	Paint	ND		N/A
313	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Paint	ND		N/A
314	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, South Side	Poor	Paint	ND		N/A
315	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, West Side	Poor	Paint	ND		N/A
316	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, North Side	Poor	Paint	ND		N/A
317	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, West Side	Poor	Paint	ND		N/A
318	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, East Side	Poor	Paint	ND		N/A
319	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, West Side	Poor	Paint	ND		N/A
320	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Paint	ND		N/A
321	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Paint	ND		N/A
					ND		
322	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Boiler, East Side	Poor	Paint	ND		N/A
323	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Boiler, West Side	Poor	Paint	ND		N/A
324	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Paint, North Side	Poor	Paint	ND		N/A
325	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, A Boiler, South Side	Poor	Sealant	ND		40 LF
326	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, B Boiler, South Side	Poor	Sealant	ND		RE: 325
327	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, C Boiler, North Side	Poor	Sealant	ND		RE: 325
328	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, A Boiler, West Side	Poor	Sealant	ND		32 LF
329	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, D Boiler, West Side	Poor	Sealant	ND		RE: 328
330	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Sealant	ND		RE: 328
331	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		1 Gasket
332	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		RE: 331
333	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		RE: 331
334	White Caulking with Insulation	Boiler Plant, 1st Floor, A Boiler, South Side	Fair	Caulking	ND		N/A

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
335	White Caulking with Insulation	Boiler Plant, 1st Floor, C Boiler, South Side	Fair	Caulking	ND		N/A
				Caulking	ND		
336	White Caulking with Insulation	Boiler Plant, 1st Floor, D Boiler, North Side	Fair	Caulking	ND		N/A
				Insulation	ND		
337	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, A Boiler, North Side**	**Poor**	**Insulation**	**10%**	**Chrysotile**	4,208 SF
338	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, B Boiler, North Side**	**Poor**	**Insulation**	**8%**	**Chrysotile**	**RE: 337**
339	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, D Boiler, South Side**	**Poor**	**Insulation**	**10%**	**Chrysotile**	**RE: 337**
340	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
341	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
342	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
343	TSI Pipe Insulation Debris (Spill On Ground)	Boiler Plant, Adjacent To South Side Of Green Boiler	Poor	Insulation	ND		N/A
344	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**35%**	**Amosite**	**600 SF**
345	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**35%**	**Amosite**	**RE: 344**
346	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**30%**	**Amosite**	**RE: 344**
347	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
348	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
349	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
350	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Silver Boiler, East Side	Poor	Insulation	ND		N/A
351	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Insulation	ND		N/A
352	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Insulation	ND		N/A
353	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**50%**	**Chrysotile**	3,605 SF
354	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**60%**	**Chrysotile**	**RE: 353**
355	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**60%**	**Chrysotile**	**RE: 353**
356	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
357	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
358	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
359	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
360	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
361	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
362	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**820 SF**
363	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 362**
364	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 362**
365	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
366	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
367	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
368	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	4,131 SF
369	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 368**
370	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 368**
371	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**6%**	**Chrysotile**	3,605 SF
372	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**8%**	**Chrysotile**	**RE: 371**
373	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**15%**	**Chrysotile**	**RE: 371**

APEX

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
374	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
375	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
376	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
377	**Transite Siding**	**Maintenance Shop - Southern Exterior**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
378	**Transite Siding**	**Boiler Plant, 1st Floor**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
379	**Transite Siding**	**South Substation, 2nd Floor, Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
380	**Transite Siding**	**Paper Machine #3, 1st Floor, West - Exterior**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
381	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
382	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
383	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
384	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
385	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
386	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
387	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
388	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
389	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
390	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Box D	Poor	Insulation	ND		N/A
391	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Pipe Run	Poor	Insulation	ND		N/A
392	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Box E	Poor	Insulation	ND		N/A
393	Block Insulation	Carpenter Shop, Box F	Fair	Insulation	ND		8 Boxes
394	Block Insulation	Carpenter Shop, Box G	Fair	Insulation	ND		RE: 393
395	Block Insulation	Carpenter Shop, Box H	Fair	Insulation	ND		RE: 393
396	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		1 Box
397	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		RE: 396
398	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		RE: 396
399	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		1 Box
400	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		RE: 399
401	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		RE: 399
402	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		1 Box
403	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		RE: 402
404	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		RE: 402
405	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		1 Box
406	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		RE: 405
407	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		RE: 405
408	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		1 Box
409	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		RE: 408
410	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		RE: 408
411	12" 1/2 Pipe Insulation	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
412	12" Full Pipe Insulation with Fiber Wrap	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
				Wrap	ND		
413	4" Pipe Insulation with Metal Wrap	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
				Wrap	ND		
414	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		1 Box
415	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		RE: 414

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
416	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		RE: 414
417	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		1 Box
418	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		RE: 417
419	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		RE: 417
420	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		1 Box
421	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		RE: 420
422	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		RE: 420
423	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		1 Box
424	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		RE: 424
425	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		RE: 424
426	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		1 Box
427	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		RE: 426
428	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		RE: 426
429	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		1 Box
				Wrap	ND		
430	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		RE: 429
				Wrap	ND		
431	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		RE: 429
				Wrap	ND		
432	White Powder In 5 Gallon Bucket	Carpenter Shop	Poor	Powder	ND		5 Gallons
433	Finishing Concrete Powder Spill	Carpenter Shop	Poor	Concrete	ND		50 lbs
434	White Insulation Spill	Carpenter Shop	Poor	Insulation	ND		2 SF
435	12" Pipe Insulation	Carpenter Shop, 1st Floor	Poor	Insulation	ND		1 Box
436	12" Pipe Insulation	Carpenter Shop, 1st Floor	Poor	Insulation	ND		RE: 435
437	12" Pipe Insulation	Carpenter Shop, 1st Floor, Spill On Floor	Poor	Insulation	ND		RE: 435
438	White Rope Gasket	Carpenter Shop, 1st Floor	Poor	Gasket	ND		1 Spool
439	Light Gray Window Glazing	North Side of Bridge between Paper Machine 4 and No. 4 Finishing Room Warehouse	Poor	Window Glazing	ND		N/A
440	Black Fiber Paper with **Black Mastic**	**South Side of Bridge between Paper Machine 4 and No. 4 Finishing Room Warehouse**	**Fair**	Tar Paper	ND		N/A
				Tar/Mastic	**5%**	**Chrysotile**	**110 SF**
~~441~~	~~Black Pipe Vibration Dampener~~	~~Adjacent to Paper Machine #3; River Side~~	~~Poor~~	~~Vibration Dampener~~	~~65%~~	~~Chrysotile~~	~~RE: 221~~
442	Black Sealant	Adjacent to Paper Machine #3; Tank Foundation	Fair	Sealant	ND		N/A
443	Black Gasket	Adjacent to Paper Machine #3; Tank Foundation	Fair	Gasket	ND		N/A
				Mastic	ND		N/A
444	**Black Pipe Sealant**	**Adjacent to Paper Machine #3; Under**	**Fair**	Sealant	ND		N/A
				Backing	**60**	**Chrysotile**	**2,000 LF**
445	Gray paint on CMU blocks	Office Adjacent to Guard Shack; East Exterior	Fair	CMU	ND		N/A
446	Fiber Pipe Wrap	Woolen Mill West Exterior	Good	Fiber Wrap	ND		N/A
447	Tank Material	Deink-H1-D-tank	Fair	Tank Material	ND		N/A
448	Tank Material	Deink-H1-D-tank	Fair	Tank Material	ND		N/A

APEX

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
449	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**1,260 SF**
450	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
451	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
452	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
453	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
454	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		N/A
455	**Skim Coat on Concrete**	**Paper Machine #1**	**Fair**	**Skim Coating**	**0.5%**	**Chrysotile**	**42,000 SF**
456	**Skim Coat on Concrete**	**Paper Machine #1**	**Fair**	**Skim Coating**	**0.5%**	**Chrysotile**	
457	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
458	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
459	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
460	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
461	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
462	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
463	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
464	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
465	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
466	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
467	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
468	Black Felt Paper	Weld Shop-Under Transite	Poor	Black felt	ND		N/A
469	Concrete Tile over Blue Foam over Rubber with Sealant over Built-up Asphalt Roofing	Paper Machine #1 - Roof	Poor	Concrete	ND		N/A
				Foam	ND		N/A
				Rubber Membrane	ND		N/A
				Sealant	ND		N/A
				Built-up Roofing	ND		N/A

Notes:

PLM - Polarized Light Microscopy
% by volume refers to the analytical method of Polar Light Microscopy, EPA Method 600/R-93/116, July 1993
ND = No Asbestos Detected
SF = Square Feet
LF = Linear Feet
EA = Each or Individual Unit
RE: = Reference Sample A-XX
N/A = Not Applicable
Bold type indicates at least one sample layer contains regulated quantities of asbestos.
Chrysotile = Chrysotile Asbestos
Amosite = Amosite Asbestos
Crocidolite = Crocidolite Asbestos

APEX

Table 2: Summary of Paint Chip Sampling and Analytical Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample ID	*Location*	*Color*	*Substrate*	*Component*	*Lead Concentration*
L-01	Truck Dump, SW Exterior	White	Metal	Beam	<0.0098 % wt
L-02	Paper Machine #4, 4th Floor	Gray	Concrete	Wall	0.70 % wt
L-03	Sulphite Tank	Silver	Metal	Tank	<0.010 % wt
L-04	Paper Machine #4 , 1st Floor	Light Green	Metal	Wall / Beam	0.088 % wt
L-05	Ext Body Color Of Paper Machine #4	Light Gray	Concrete	Exterior Wall Beam	<0.010 % wt
L-06	Ext Guardrail; NW Side Of Paper Machine #4	Yellow	Metal	Guardrail	2.7 % wt
L-07	Paper Machine #4; Shipping Shed Control Room	Light Gray	Wood	Wall	<0.0099 % wt
L-08	Paper Machine #4 Finishing Room	Light Green	Wood	Beam	0.033 % wt
L-09	Exterior Beam Of Sulphite Plant	Beige	Metal	Beam	0.028 % wt
L-10	Sulphite Plant Eastern Tank	Gray	Metal	Tank	2.8 % wt
L-11	Fire Control Room 2nd Floor Of Sulphite Plant	Red	Wood	Door	<0.010 % wt
L-12	Chip Silo	White	Concrete	Wall	6.0 % wt
L-13	Weld Shop	Cream	Metal	Sliding Door	0.19 % wt
L-14	Weld Shop	Gray	Metal	Beam	<0.012 % wt
L-15	TMP Refiner Lines Exterior	Gray	Concrete	Wall	0.012 % wt
L-16	TMP Refiner Lines 2nd Floor	Gray	CMU	Wall	0.19 % wt
L-17	Mill Offices 2nd Floor	White	Drywall	Wall	<0.0098 % wt
L-18	Mill Offices Southern Stairwell	White	Wood	Wall	<0.0099 % wt
L-19	Maintenance Shop	Yellow	Metal	Bollard	4.0 % wt
L-20	Maintenance Shop	Light Green	Wood	Wall	<0.0099 % wt
L-21	Maintenance Shop	Green	Wood	Wall	0.045 % wt
L-22	TMP Area 2nd Floor Refiner Lines	Gray	Metal	Beam	0.031 % wt
L-23	TMP Area 4th Floor Refiner Lines	Gray	Drywall	Wall	<0.0098 % wt
L-24	TMP Area 1st Floor Control Room	Light Blue	Drywall	Wall	<0.010 % wt
L-25	TMP Area 1st Floor Control Room	Dark Blue	Metal	Window	0.039 % wt
L-26	TMP Area 1st Floor	Red	Metal	Beam	0.50 % wt
L-27	TMP Area 1st Floor	Green	CMU	Wall	0.012 % wt
L-28	Paper Machine #1	Gray	Concrete	Wall	1.7 % wt
L-29	Paper Machine #1 South Control Room	Yellow	Metal	Wall	<0.0098 % wt
L-30	Paper Machine #1	White	CMU	Wall	0.055 % wt
L-31	TMP Reject Refining	White	Metal	Beam	4.2 % wt
L-32	Boiler Plant Basement	Dark Gray	Metal	Door	0.030 % wt
L-33	Boiler Plant Basement	Silver	Metal	Boiler	0.46 % wt
L-34	TMP Hi D Stairs	Orange	Metal	Stairs	17 % wt
L-35	Boiler Plant Basement	Silver	Brick	Wall	0.021 % wt
L-36	Pipe Shop	White	Metal	Door Frame	0.029 % wt
L-37	Carpenter Shop	Light Gray	Metal	Wall	<0.10 % wt
L-38	Raw Material Storage - Exterior	White	Concrete	Wall	0.051 % wt
L-39	Deink Hi-D Tank Exterior	White	White Blocks	Tank Exterior	<0.0099 % wt
L-40	Mill 0 Covered Storage	Gray	Metal	Beam	<0.013 % wt
L-41	Auto Shop	White	Wood	Wall	<0.012 % wt
L-42	Carpenter Shop - West Exterior Window	Gray	Wood	Window Frame	2.7 % wt
L-43	Mill 0 Conference Room - North Exterior	White	CMU	Wall	0.61 % wt
L-44	Paper Machine #3 Basement	White	Metal	Beam	<0.0097 % wt
L-45	Paper Machine #3 Basement	White	Concrete	Wall	0.073 % wt
L-46	Mill D Warehouse	White	Wood	Wall	0.083 % wt

APEX

Table 2: Summary of Paint Chip Sampling and Analytical Results Former Blue Heron Mill Main Street Oregon City, Oregon					
Sample ID	*Location*	*Color*	*Substrate*	*Component*	*Lead Concentration*
L-47	Mill D; 2nd Floor Landing	Green	Concrete	Wall	0.19 % wt
L-48	Mill D; 2nd Floor Landing	White	Concrete	Wall	0.11 % wt
L-49	Mill D; 2nd Floor	White	Wood	Beam	0.097 % wt
L-50	Mill D; 1st Floor	Red	Metal	Fire System Piping	6.8 % wt
L-51	Filter Plant Exterior Barn Door	Gray	Wood	Door	0.30 % wt
L-52	Filter Plant Exterior	Green	Concrete	Wall	0.17 % wt
L-53	Filter Plant - WND Floor	White	Wood	Door Frame	0.19 % wt
L-54	Filter Plant - WND Floor	Gray	Metal	Beam	0.59 % wt
L-55	Filter Plant - WND Floor	White	Metal	Light Pole	0.39 % wt
L-56	Filter Plant; 3Rd Floor	Gray	Drywall	Wall	0.31 % wt
L-57	Guard Shack	Blue	Metal	Door	0.027 % wt
L-58	Guard Shack	Red	Metal	Cabinet	0.17 % wt
L-59	Guard Shack	Gray	Concrete	Wall	0.10 % wt
L-60	Office; Parking Area	Brown	Concrete	Column	0.045 % wt

Notes:

% = Percent lead as determined by flame atomic absorption spectroscopy (EPA Method SW 846-7420).
< = Less than the Lower Detection Limit of flame atomic absorption spectroscopy (EPA Method SW 846-7420).
Bold type indicates that at least one paint layer was identified to have detectable lead concentrations.
OAR 437, Division 2/Z - 1910.1200 addresses hazardous communication requirements for employees.
OAR 437, Division 3/D - 1926.62, Lead addresses compliance associated with worker protection standards for lead referenced.
Painted materials encountered during demolition (that were not accessible for sampling during this survey) should be assumed to contain detectable concentrations of lead and are, therefore, regulated.

APEX

FIGURES

Note: Base map prepared from USGS 7.5-minute quadrangles of Canby and Oregon City, OR, dated 2017 as provided by USGS.gov.

0 2,000 4,000

Approximate Scale in Feet

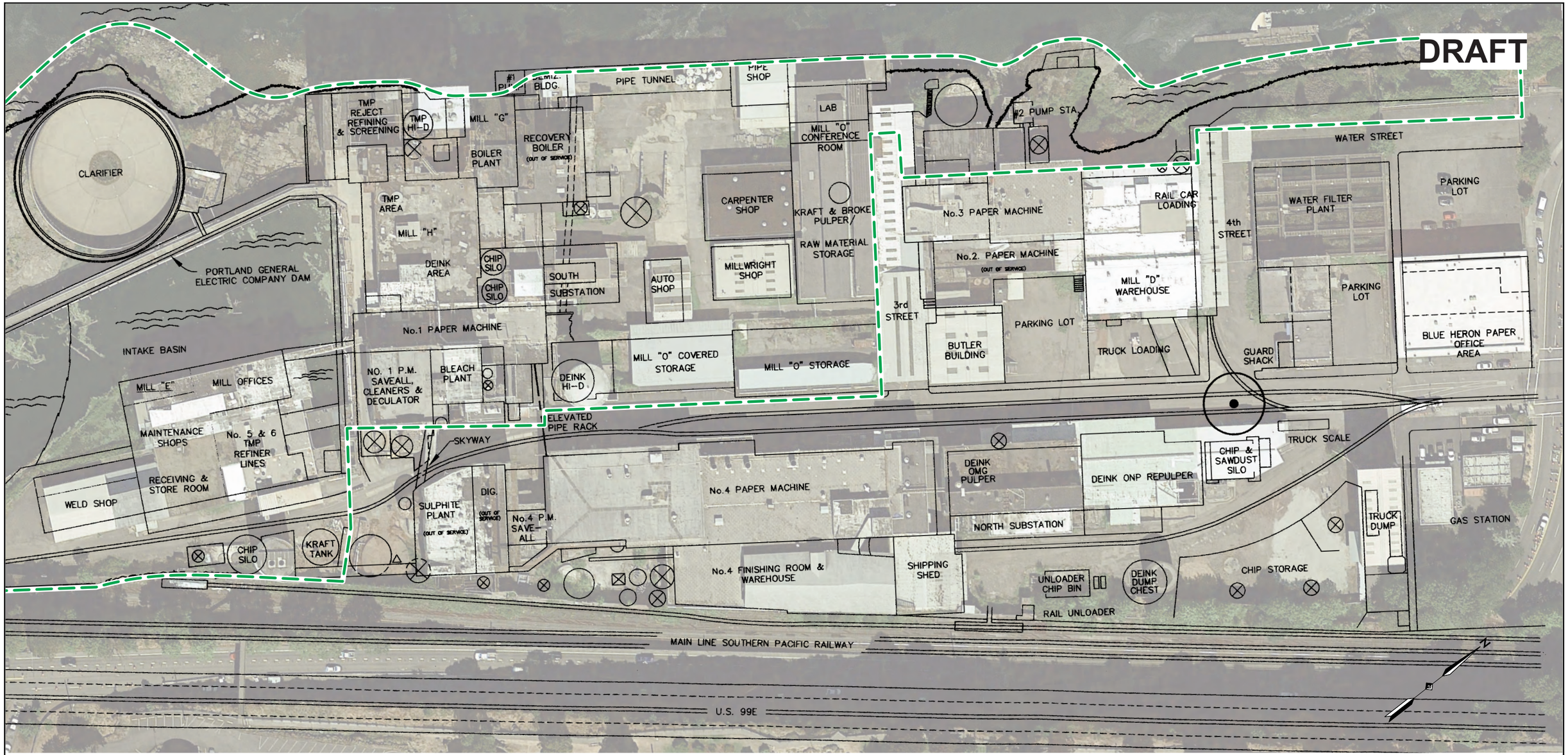
Site Location Map

Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		1

DRAFT



Legend:

Metro Project Boundary (Approximate)

0 100 200

Approximate Scale in Feet

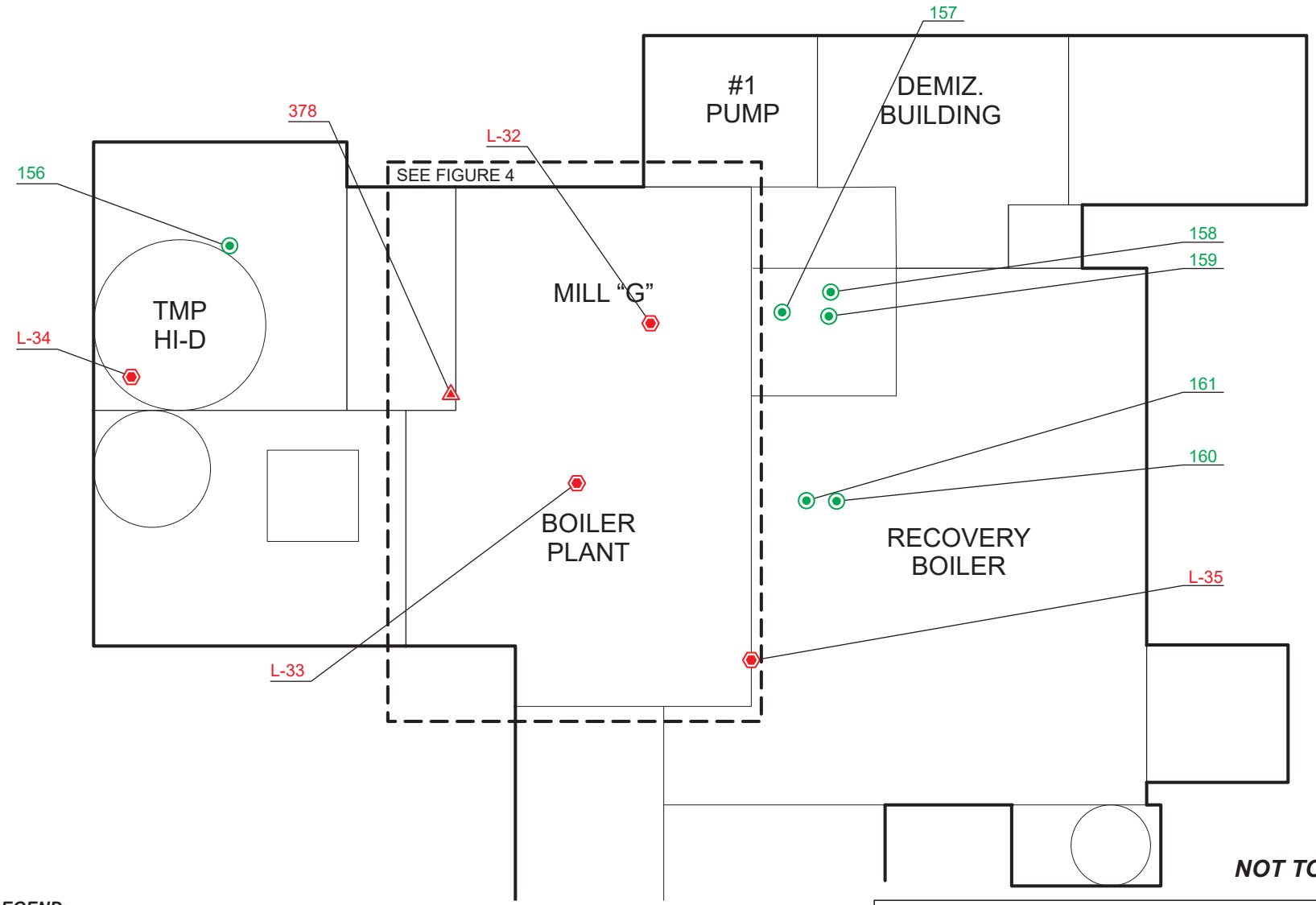
NOTE: Base map prepared from a Mill Map provided by Blue Heron Paper Company (1996) and Google Earth Pro Imagery. Aerial dated July 16, 2018.

Site Plan

Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		2



LEGEND:

157 Negative Asbestos Sample Location

378 Positive Asbestos Sample Location

L-33 Positive Lead Paint Sample Location

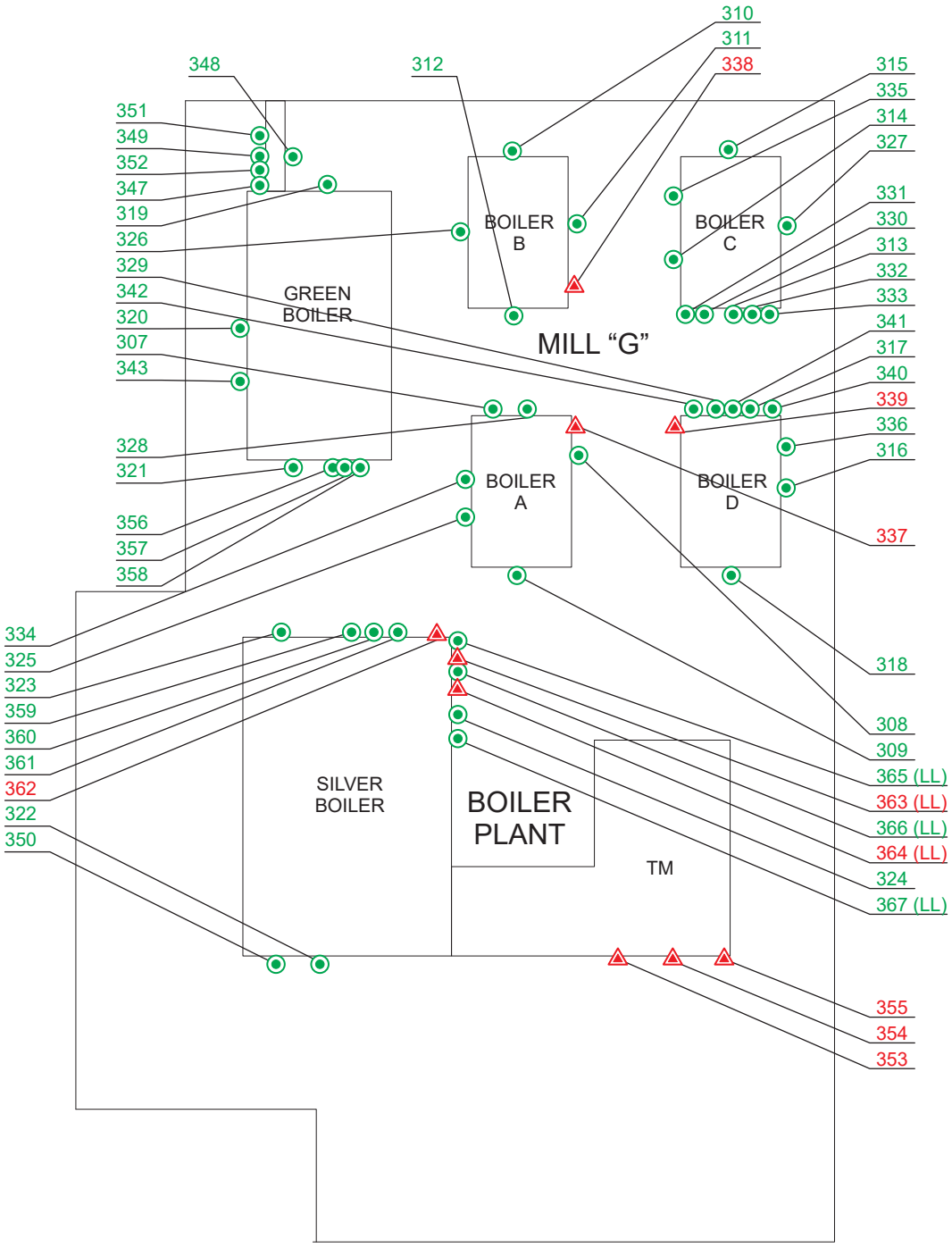
N

Sample Locations

Mill "G" Area, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		3



NOT TO SCALE

LEGEND:

350 ◉ Negative Asbestos Sample Location

353 ▲ Positive Asbestos Sample Location

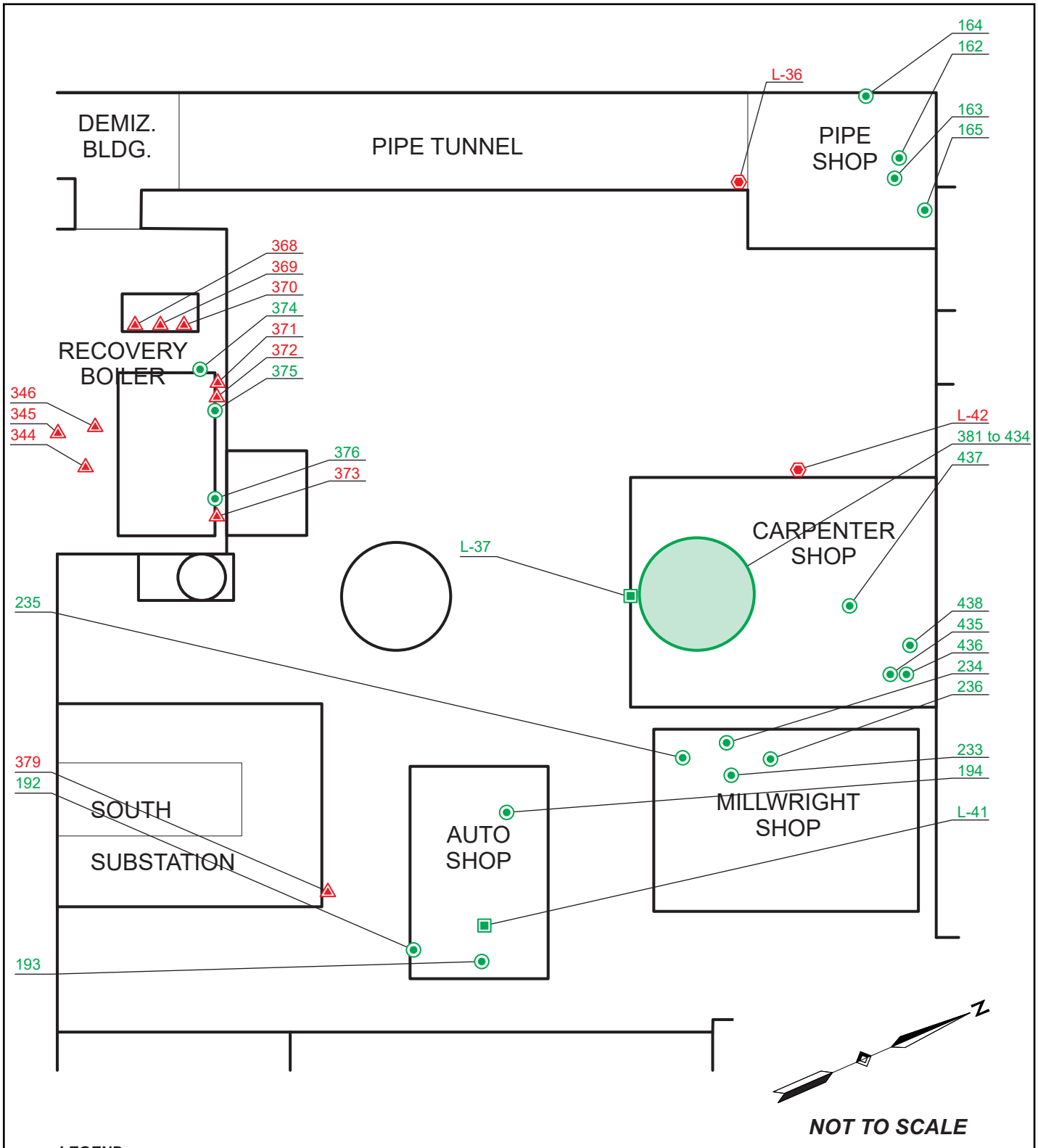
(LL) Lower Level

Sample Locations

Mill "G" Area
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		4



LEGEND:

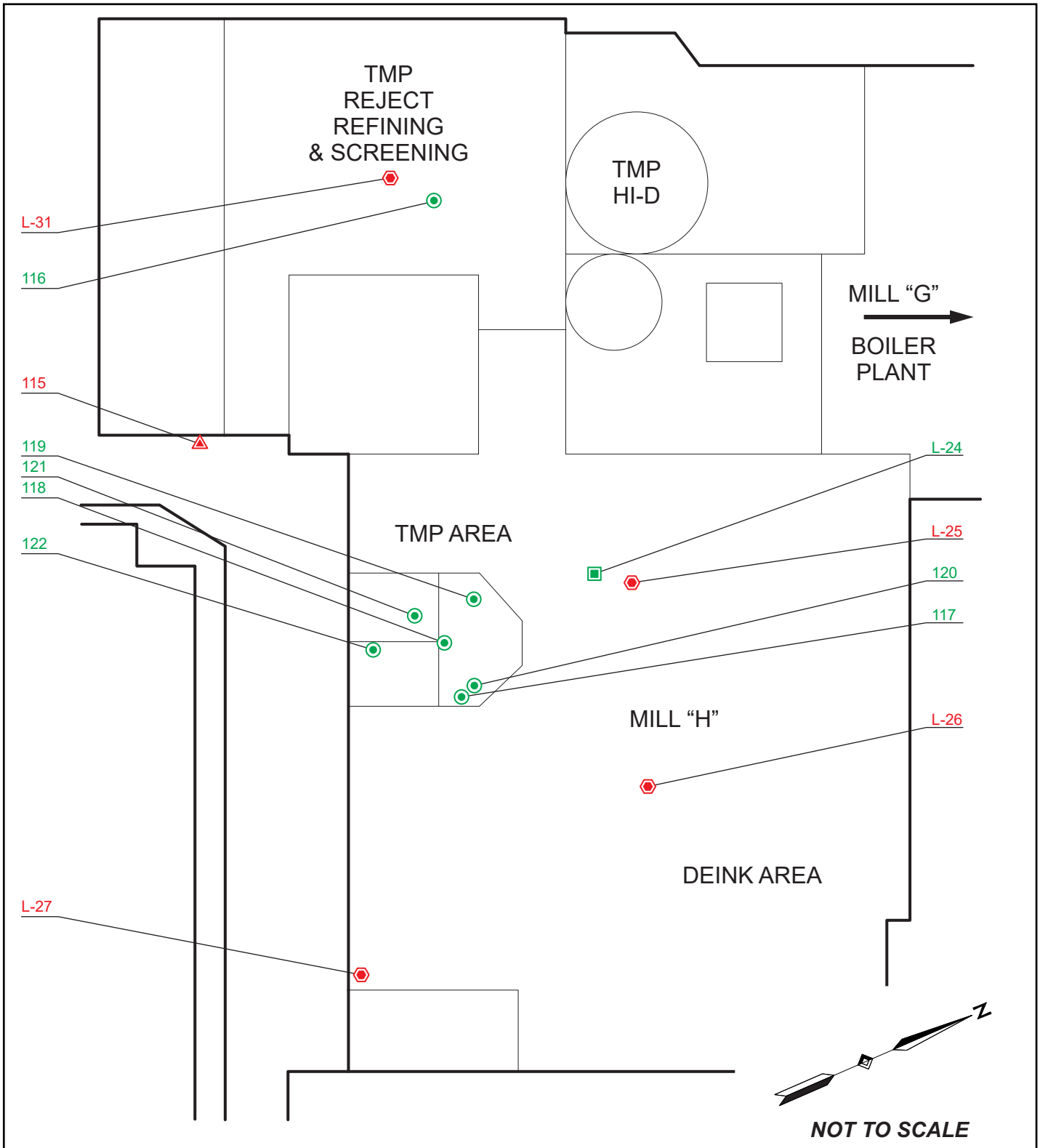
193 ◉	Negative Asbestos Sample Location
379 ▲	Positive Asbestos Sample Location
L-37 ▣	Negative Lead Paint Sample Location
L-36 ⬢	Positive Lead Paint Sample Location
●	Area of Negative Asbestos Sample Locations

Sample Locations

Carpenter, Millwright, Auto, and Pipe Shop
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		5



LEGEND:

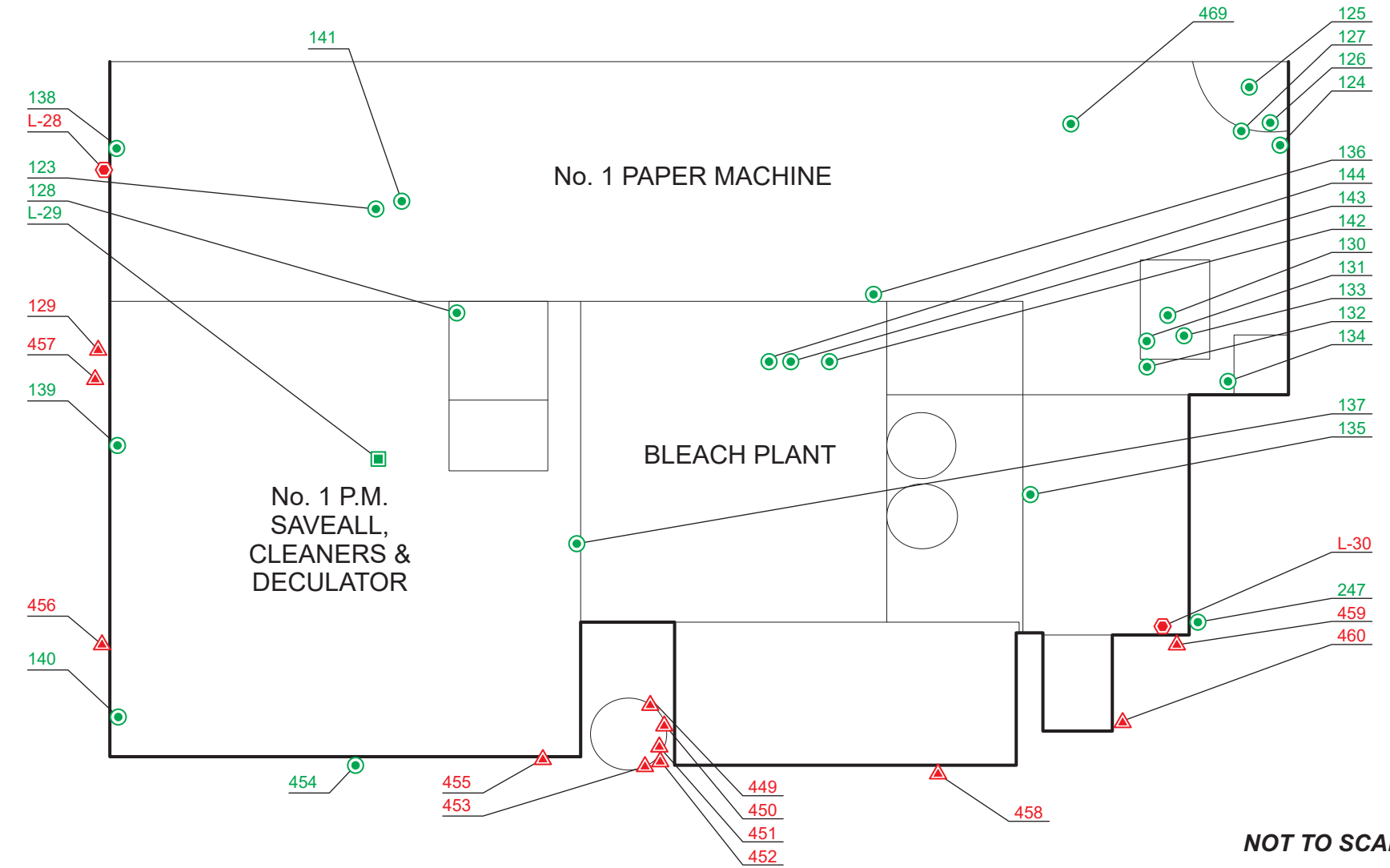
122 ◉	Negative Asbestos Sample Location
115 ▲	Positive Asbestos Sample Location
L-24 ▣	Negative Lead Paint Sample Location
L-27 ⬢	Positive Lead Paint Sample Location

Sample Locations

Mill "H" Area, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		6



NOT TO SCALE

LEGEND:

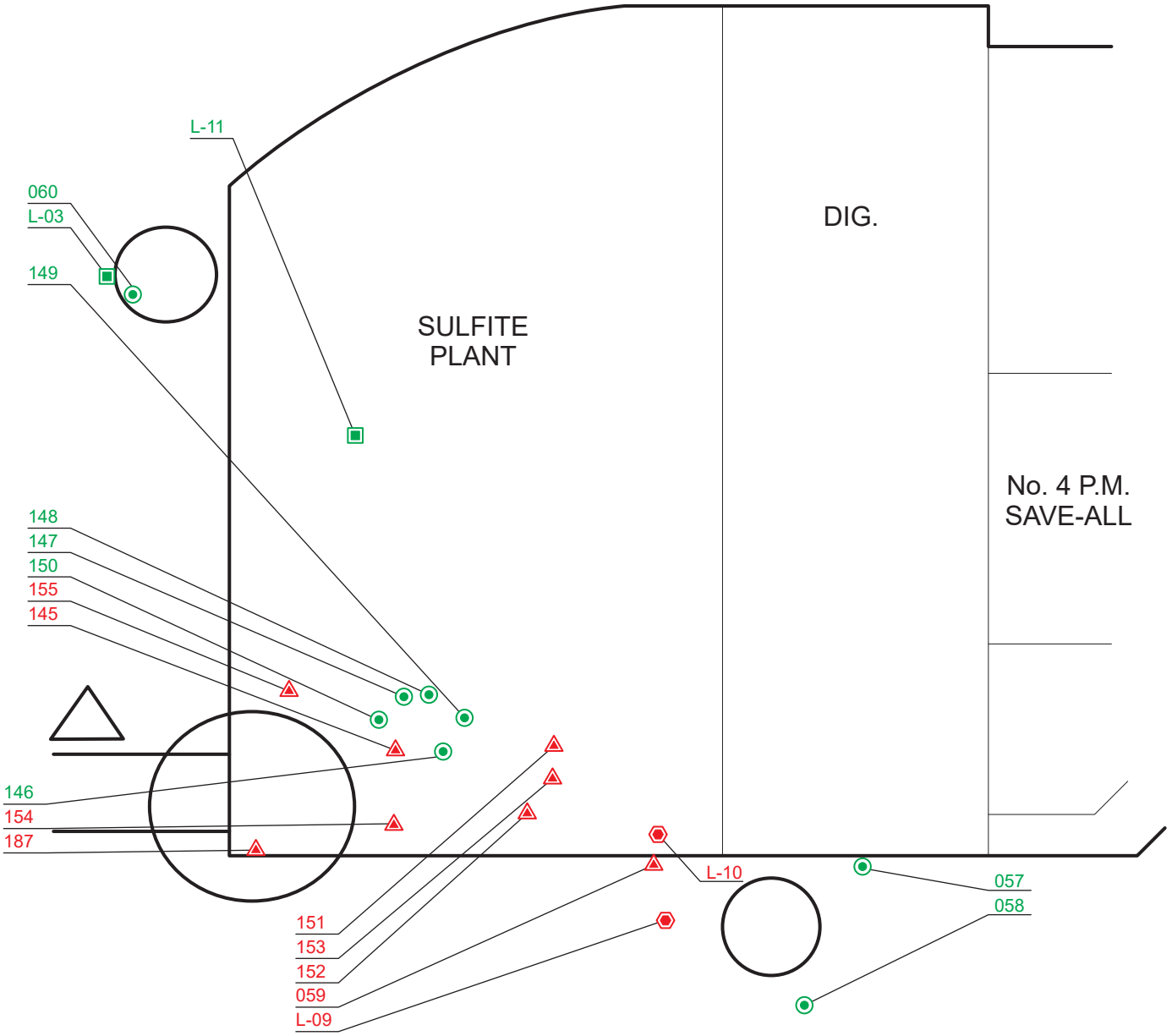
140 ◉	Negative Asbestos Sample Location
129 ▲	Positive Asbestos Sample Location
L-29 ▣	Negative Lead Paint Sample Location
L-28 ⬢	Positive Lead Paint Sample Location

Sample Locations

No. 1 Paper Machine, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		7



LEGEND:

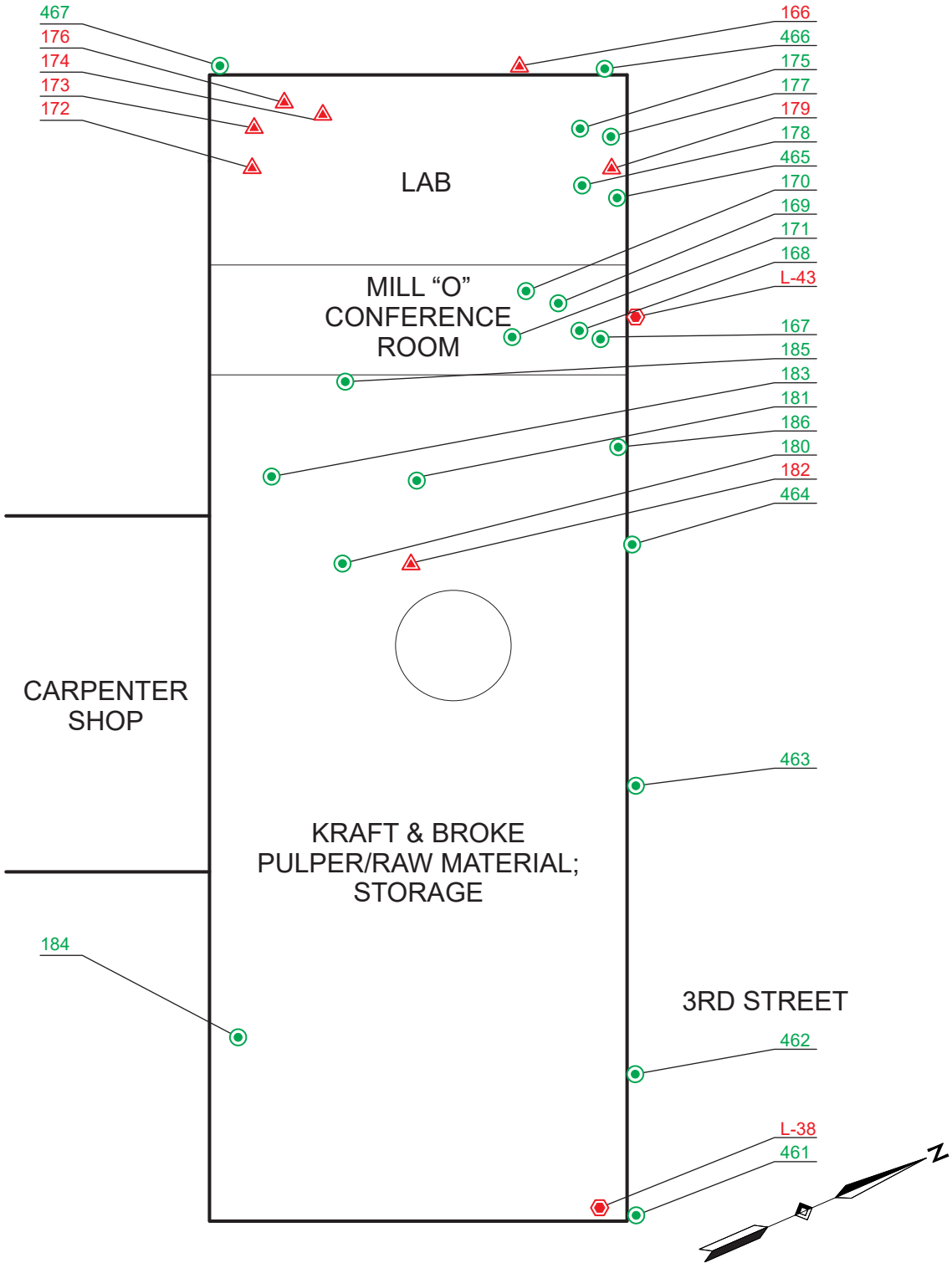
059 ◉	Negative Asbestos Sample Location
187 ▲	Positive Asbestos Sample Location
L-11 ▣	Negative Lead Paint Sample Location
L-09 ⬢	Positive Lead Paint Sample Location

Sample Locations

Sulfite Plant
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		8



NOT TO SCALE

LEGEND:

184 Negative Asbestos Sample Location

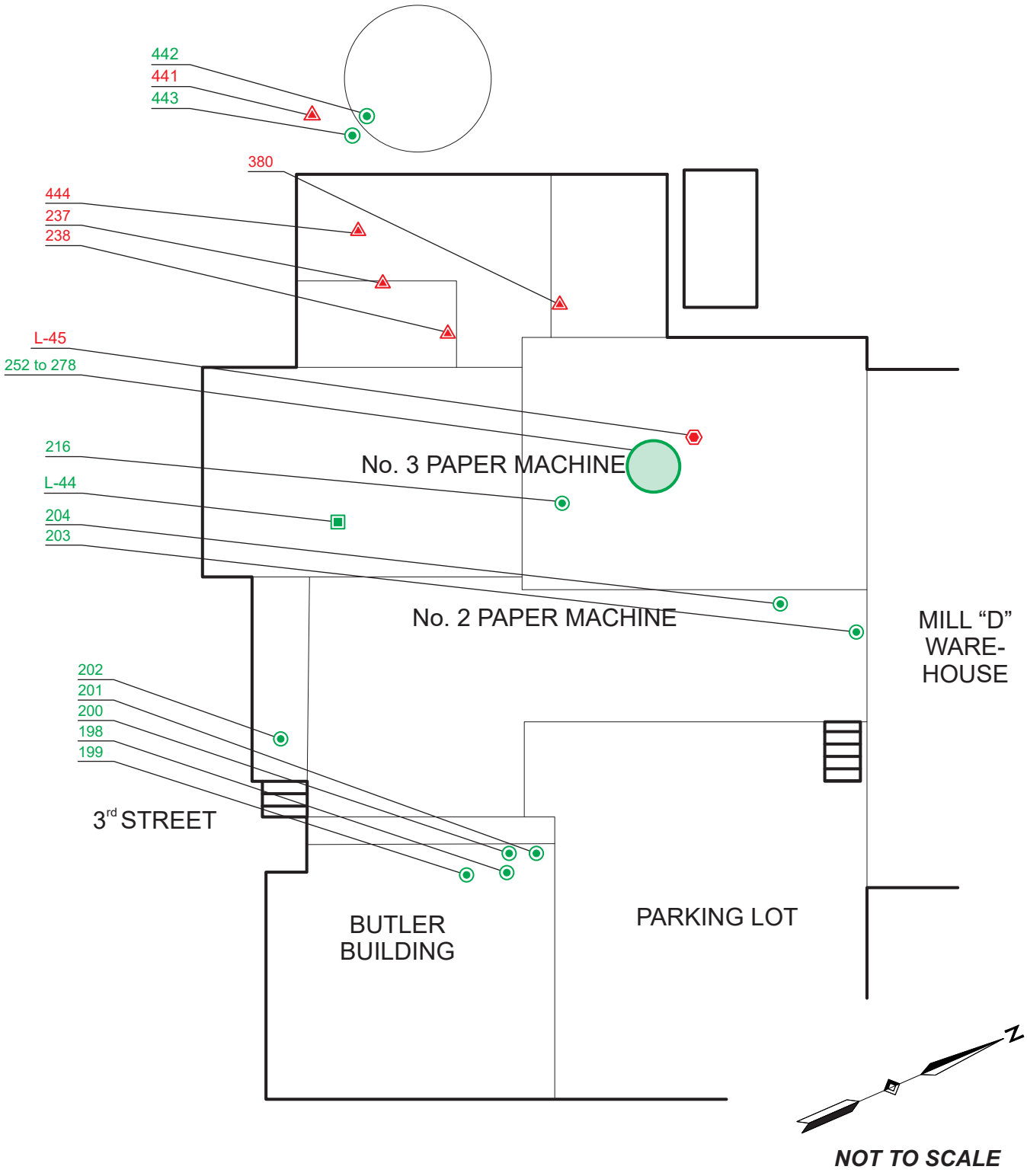
182 Positive Asbestos Sample Location

L-38 Positive Lead Paint Sample Location

Sample Locations

Lab, Mill "O" Conference Room, Pulper and Raw Material Storage
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	2449-00	Figure 9
	December 2018		



LEGEND:

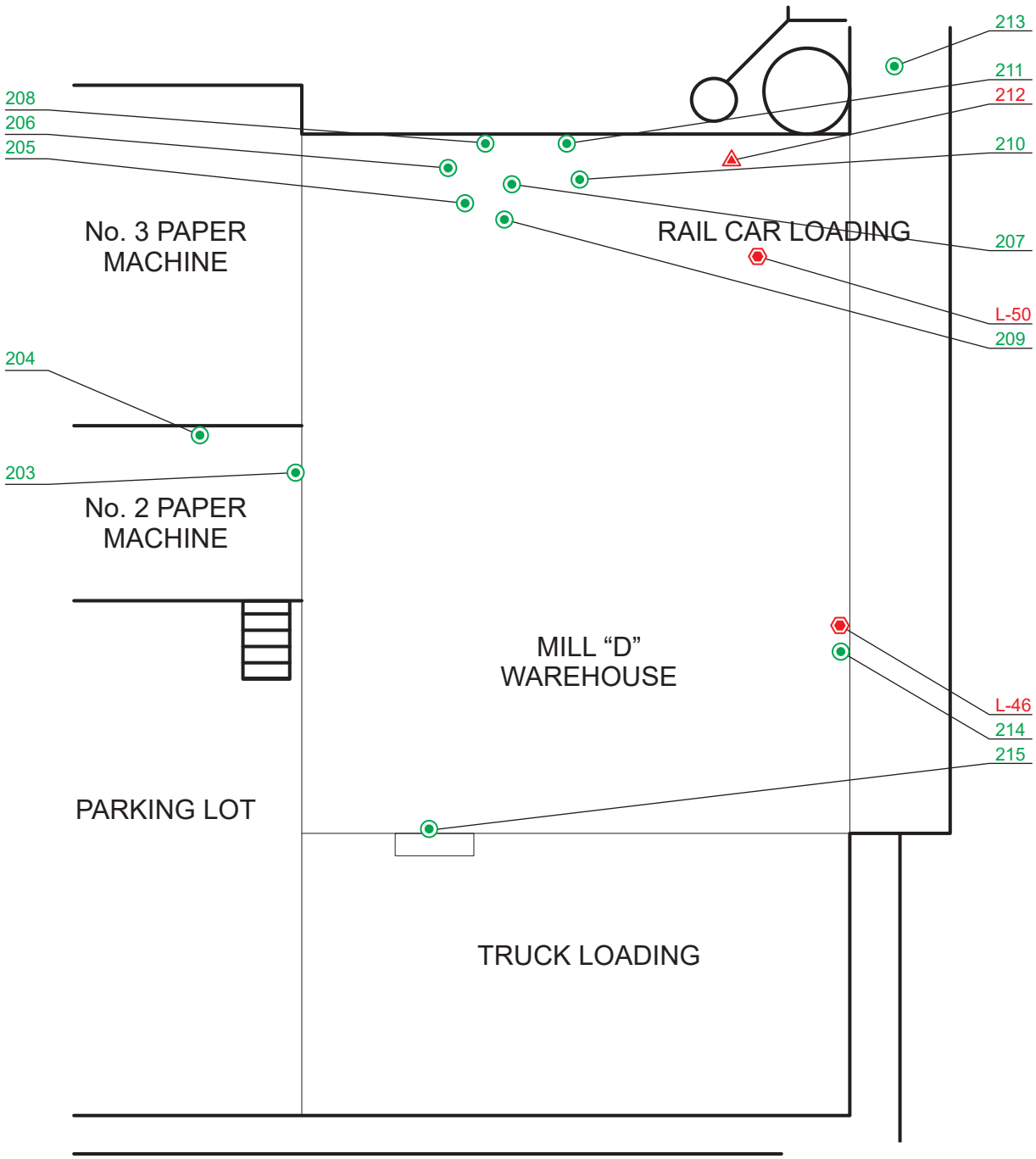
199 ◉	Negative Asbestos Sample Location
237 ▲	Positive Asbestos Sample Location
L-44 ▣	Negative Lead Paint Sample Location
L-45 ⬢	Positive Lead Paint Sample Location
●	Area of Negative Asbestos Sample Locations

Sample Locations

No. 3 and No. 2 Paper Machine, Butler Building
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		10



NOT TO SCALE

LEGEND:

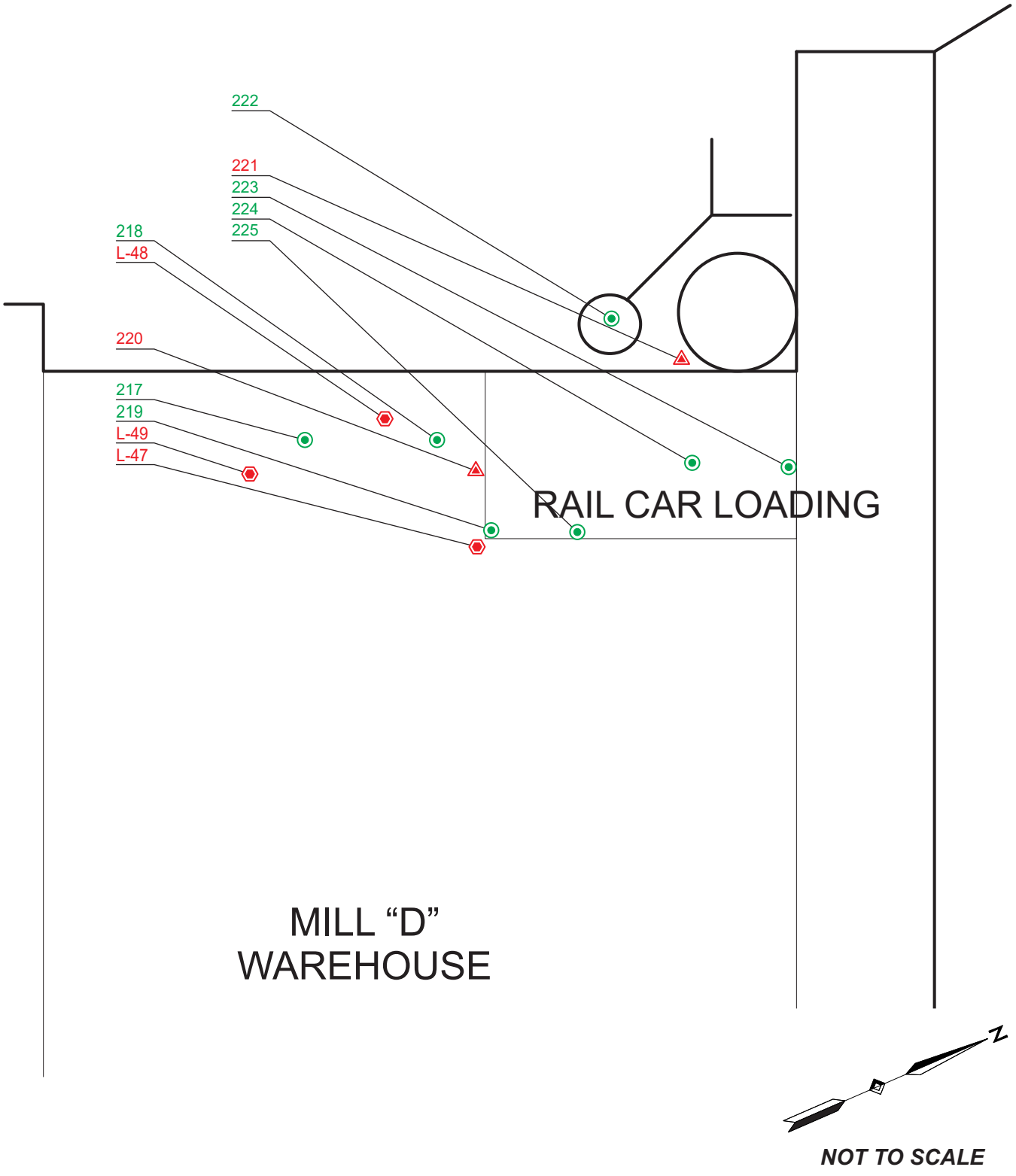
203 ◉	Negative Asbestos Sample Location
215 ▲	Positive Asbestos Sample Location
L-46 ⬢	Positive Lead Paint Sample Location

Sample Locations

Mill "D" Warehouse, 1st Floor and Basement
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		11



NOT TO SCALE

LEGEND:

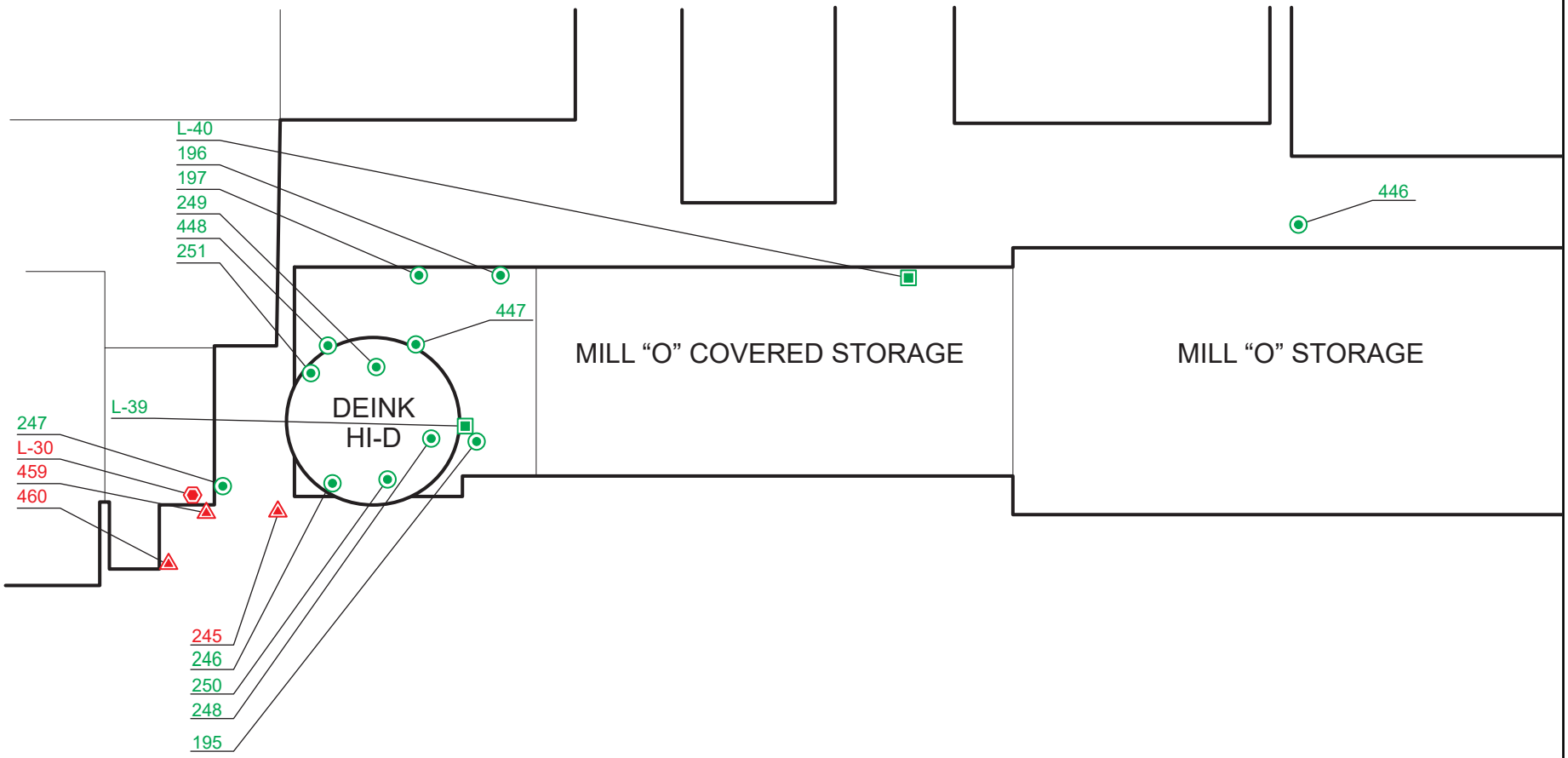
217 ◉	Negative Asbestos Sample Location
221 ▲	Positive Asbestos Sample Location
L-48 ⬢	Positive Lead Paint Sample Location

Sample Locations

Mill "D" Warehouse, 2nd Floor and Roof
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		12



NOT TO SCALE

LEGEND:

246 Negative Asbestos Sample Location

245 Positive Asbestos Sample Location

L-39 Negative Lead Paint Sample Location

L-30 Positive Lead Sample Location

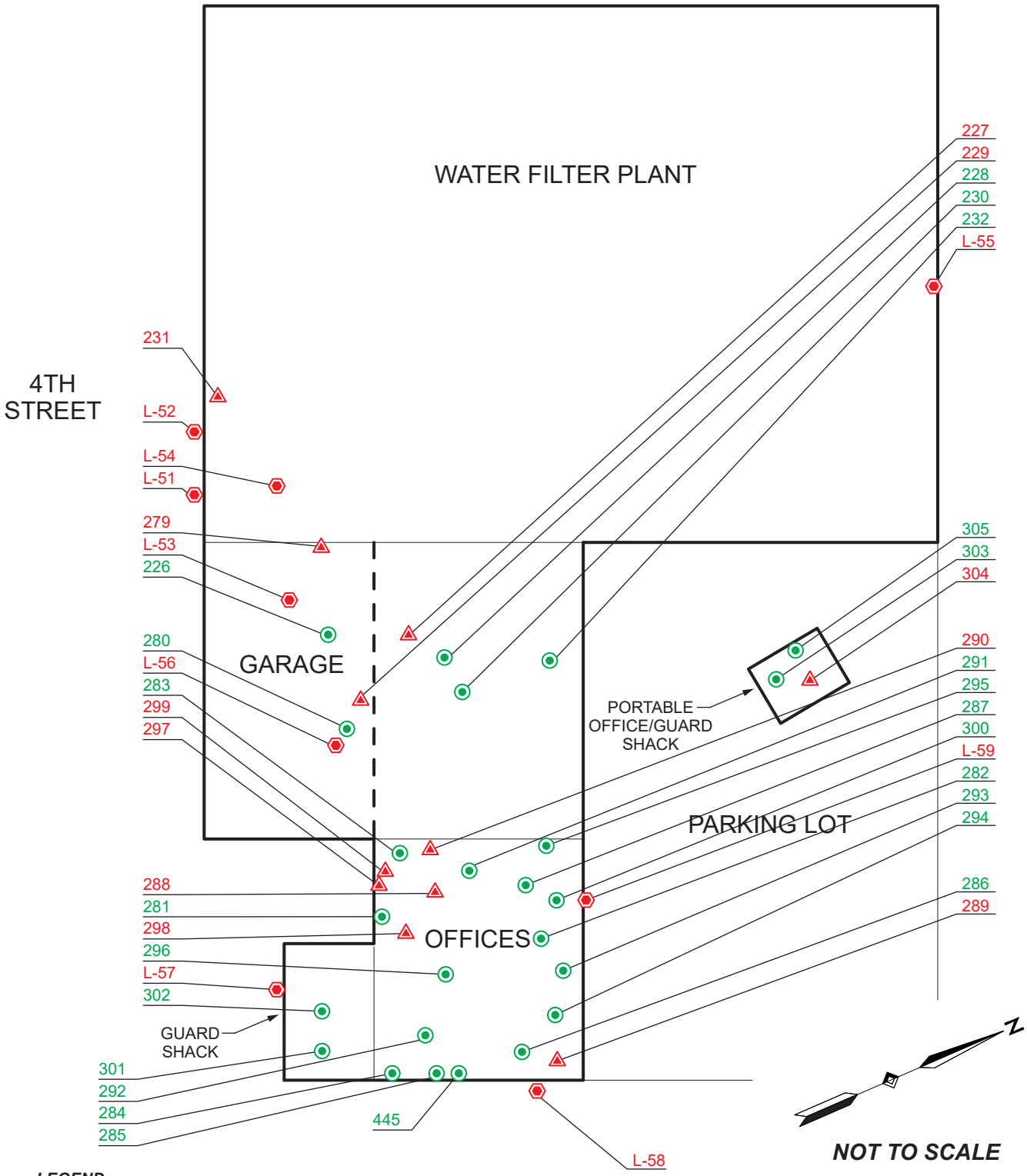
N

Sample Locations

Mill "O" Storage and De-Ink HI-D
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		13



LEGEND:

285 Negative Asbestos Sample Location

298 Positive Asbestos Sample Location

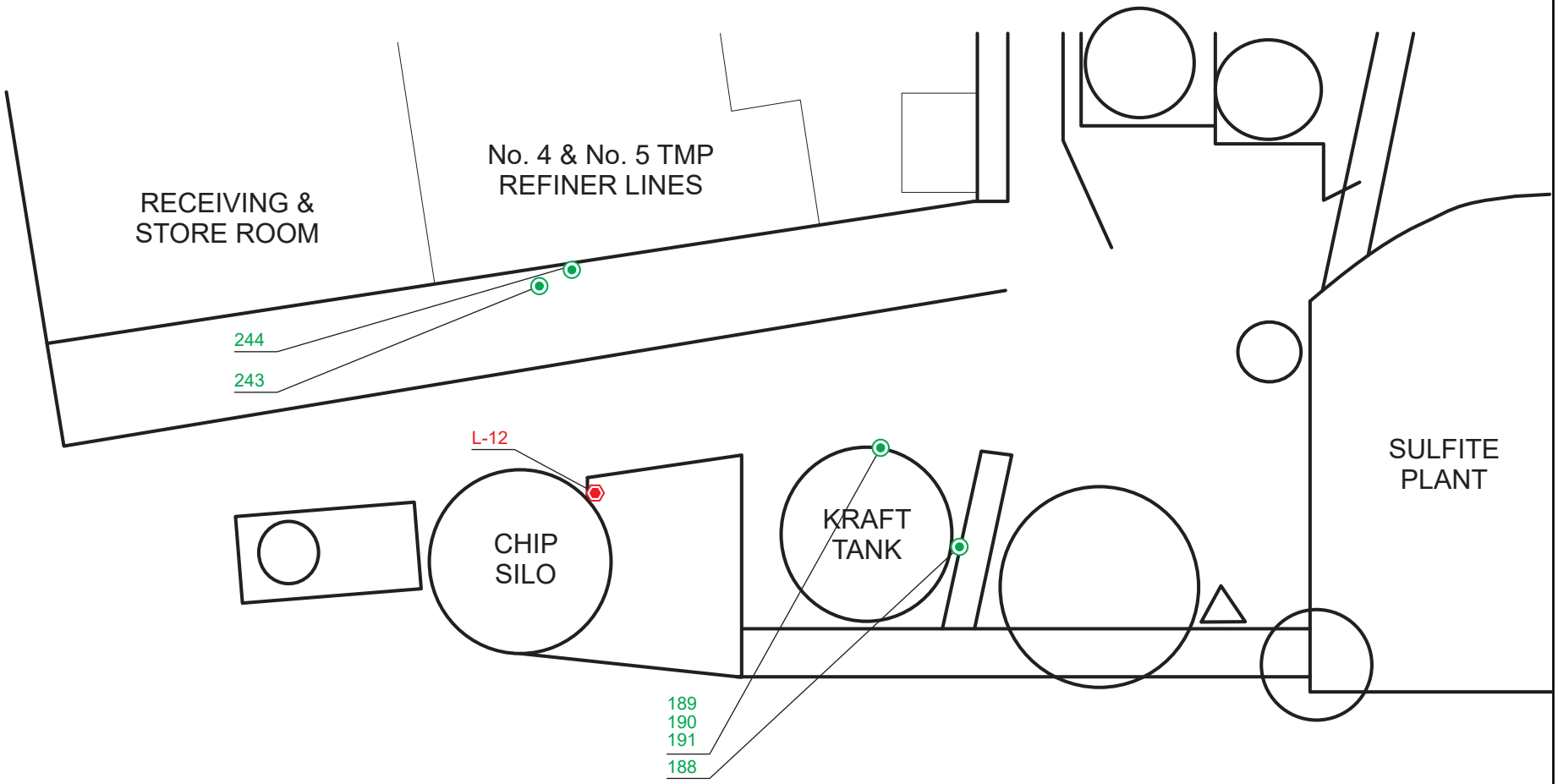
L-58 Positive Lead Paint Sample Location

Sample Locations

Water Filter Plant and Offices
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		14



NOT TO SCALE

LEGEND:

188 Negative Asbestos Sample Location

L-12 Positive Lead Paint Sample Location

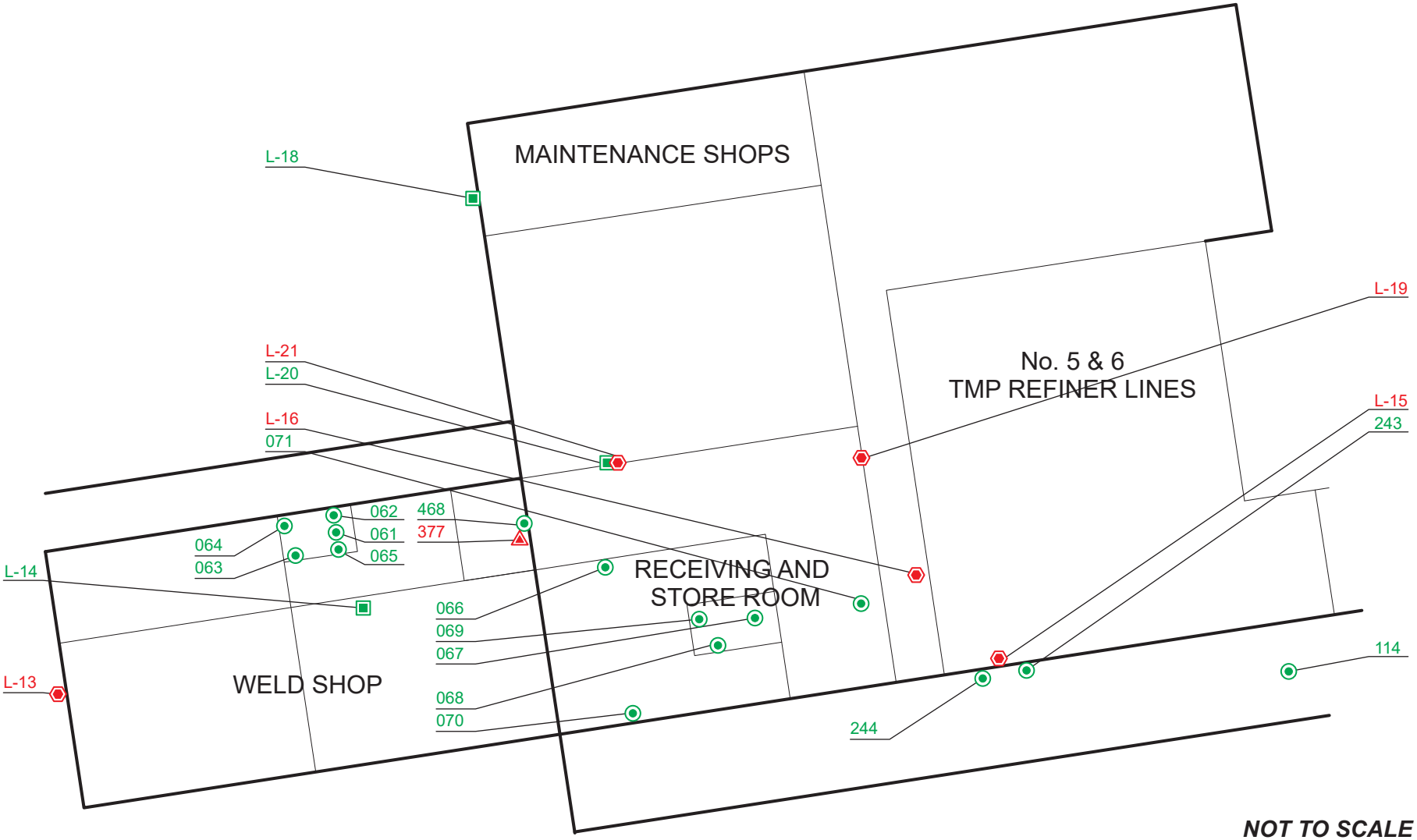
N

Sample Locations

Kraft Tank and TMP Refiner Lines
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		15



LEGEND:

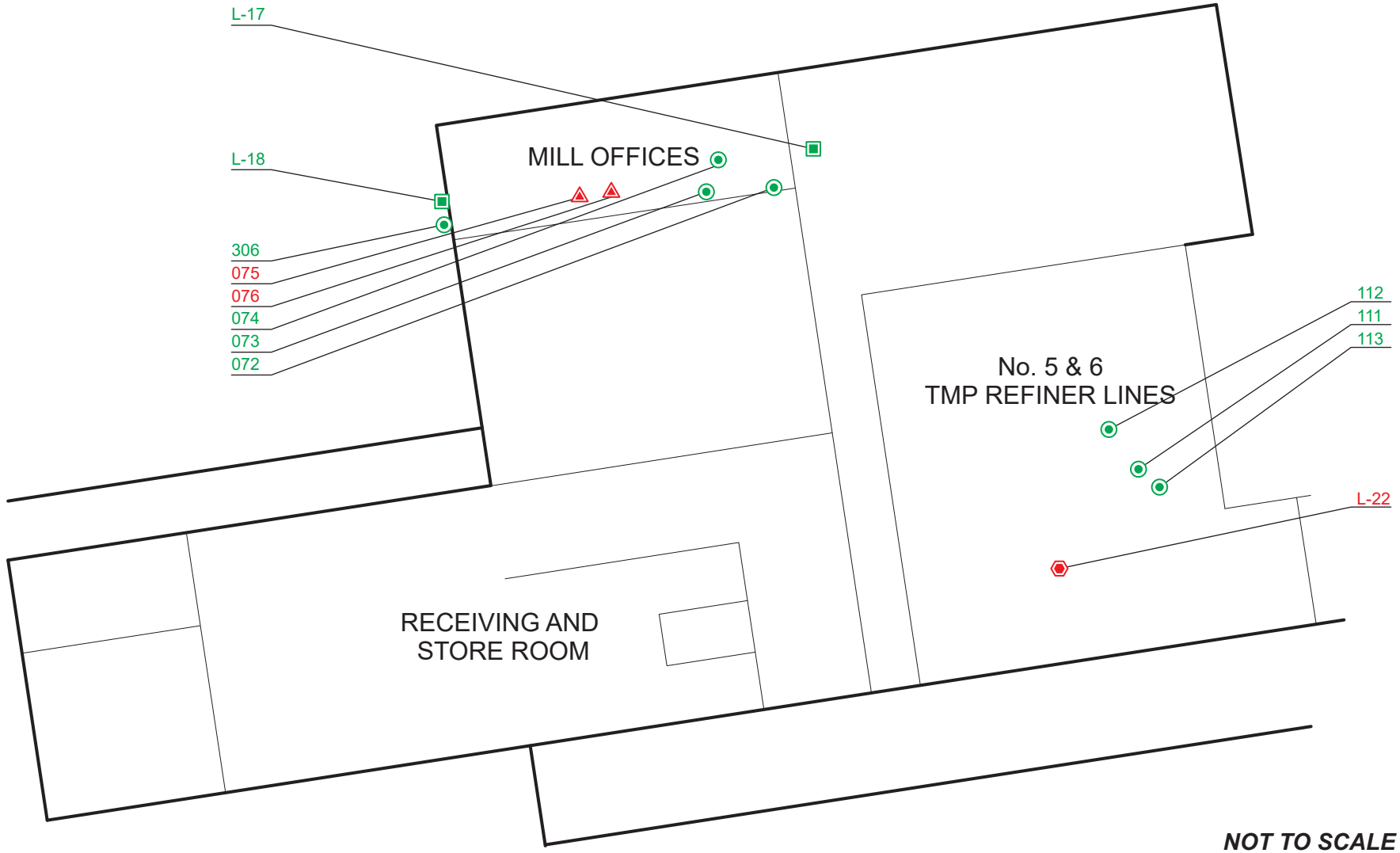
070 ◉	Negative Asbestos Sample Location
377 ▲	Positive Asbestos Sample Location
L-14 ▣	Negative Lead Paint Sample Location
L-13 ⬢	Positive Lead Paint Sample Location

Sample Locations

Maintenance Shops, Weld Shop, Refining and Store Room,
No. 5 & 6 Refiner Lines - 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		16



NOT TO SCALE

LEGEND:

072 ◉	Negative Asbestos Sample Location
075 ▲	Positive Asbestos Sample Location
L-17 ▣	Negative Lead Paint Sample Location
L-22 ⬢	Positive Lead Paint Sample Location

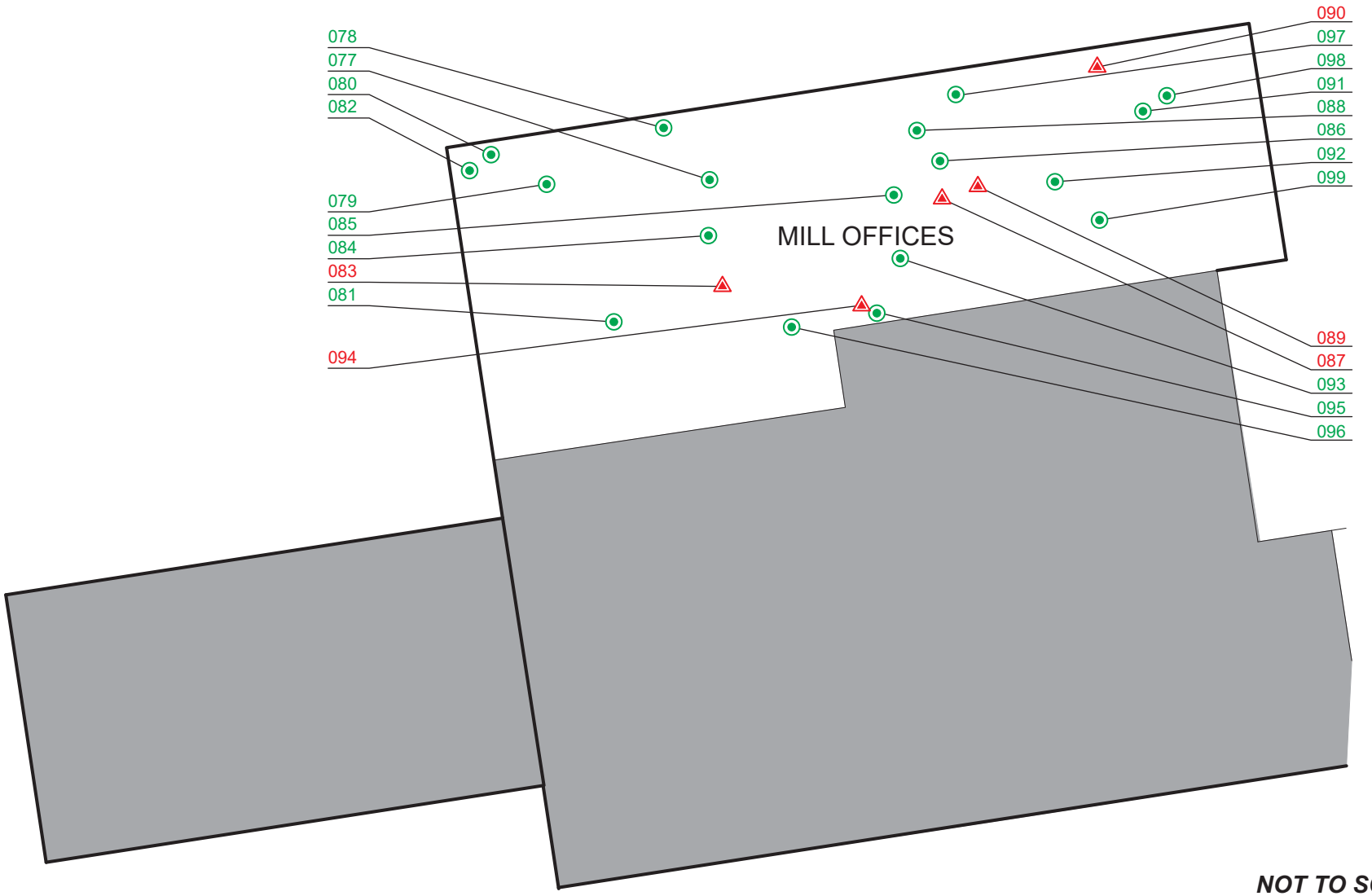
N

Sample Locations

Mill Offices, Receiving and Store Room, and No. 5 & 6 Refiner - 2nd Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		17



NOT TO SCALE

LEGEND:

079 ◉ Negative Asbestos Sample Location

083 ▲ Positive Asbestos Sample Location

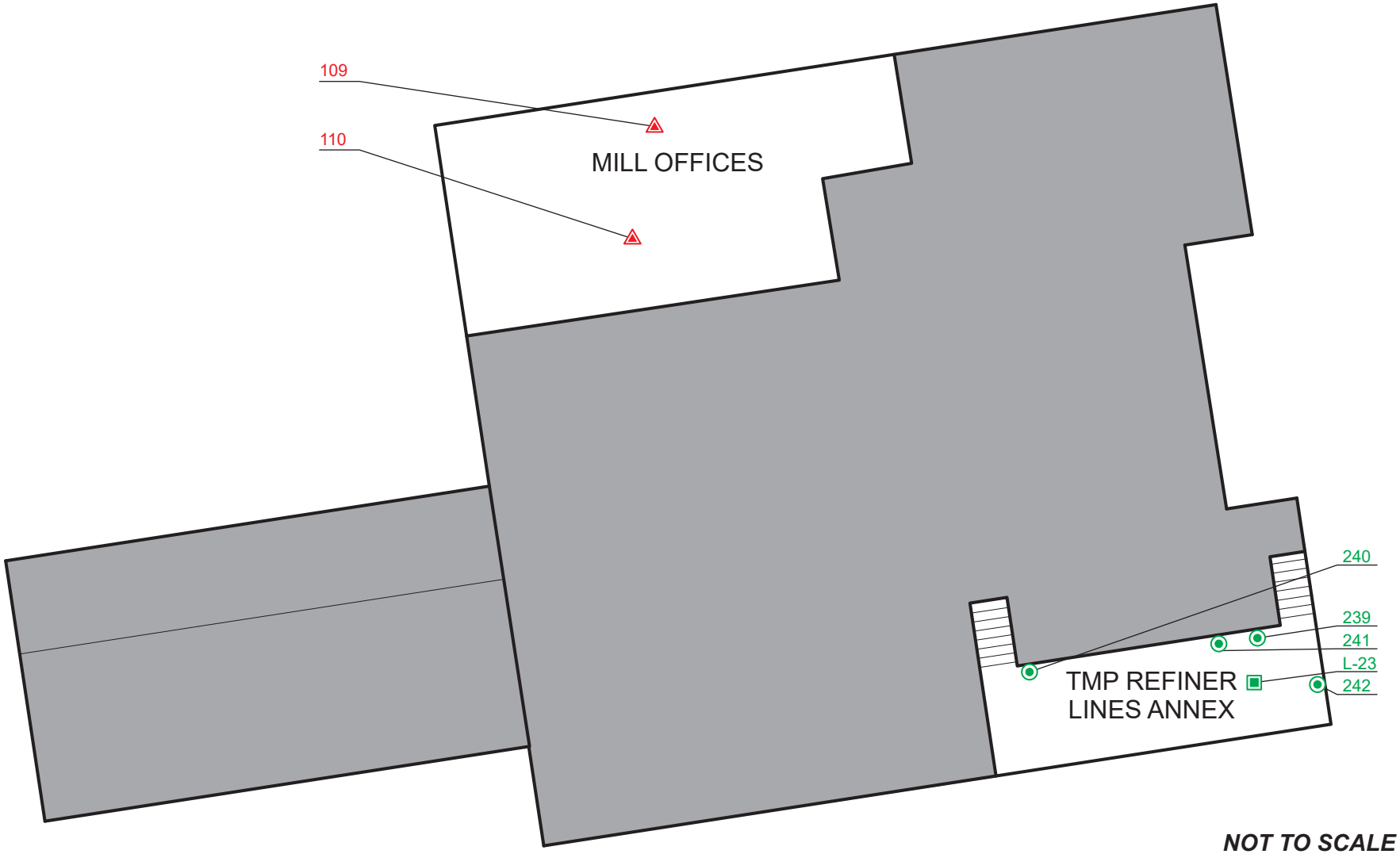
N

Sample Locations

Mill Offices - 3rd Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		18



NOT TO SCALE

LEGEND:

242 Negative Asbestos Sample Location

109 Positive Asbestos Sample Location

L-23 Negative Lead Paint Sample Location

N

Sample Locations

Mill Offices and TMP Refiner Lines Annex - 4th Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		19

NOT TO SCALE

LEGEND:

101 Negative Asbestos Sample Location

100 Positive Asbestos Sample Location

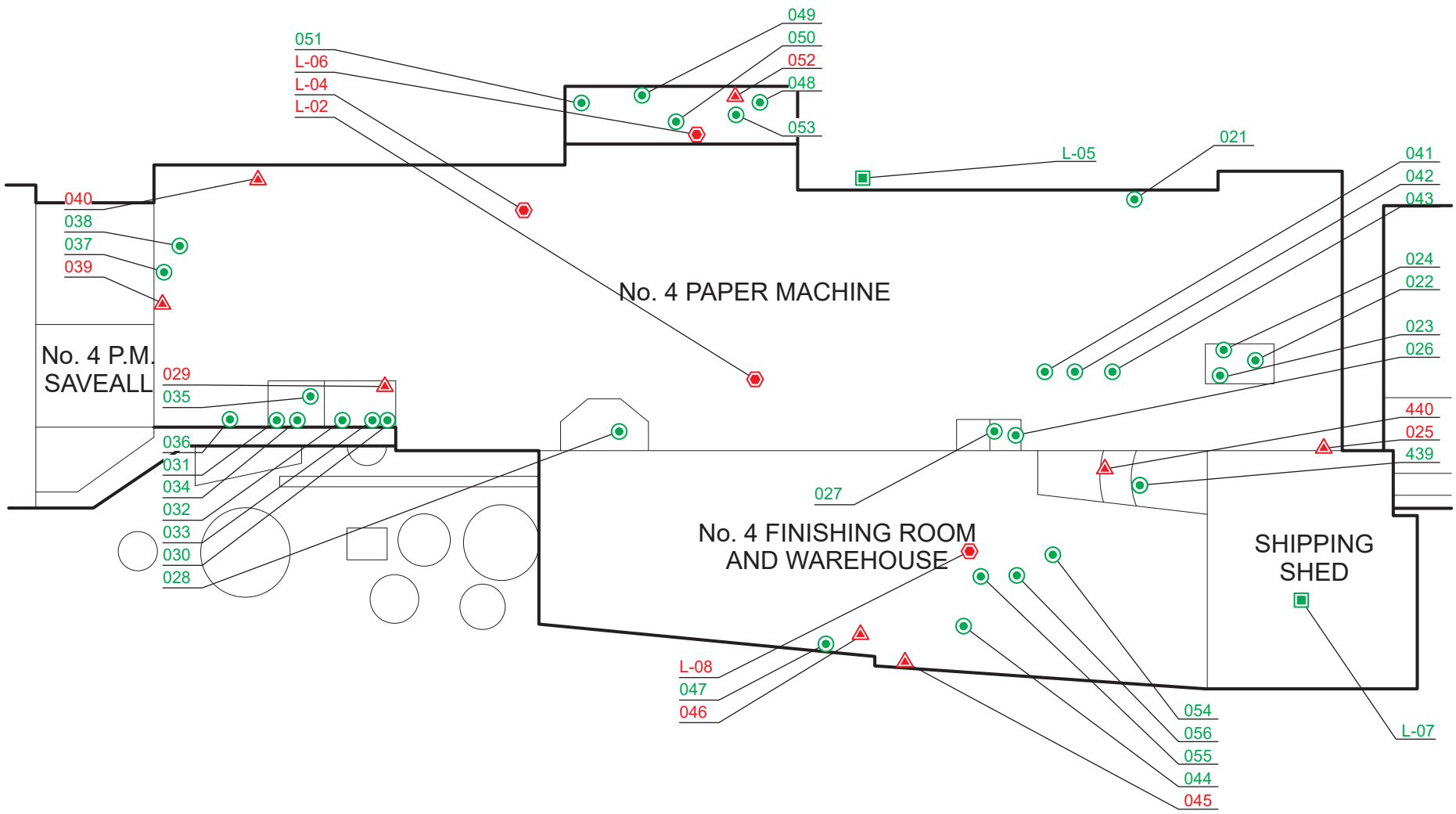
N

Sample Locations

Mill Offices and TMP Refiner Lines Annex - 5th Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		20



NOT TO SCALE

LEGEND:

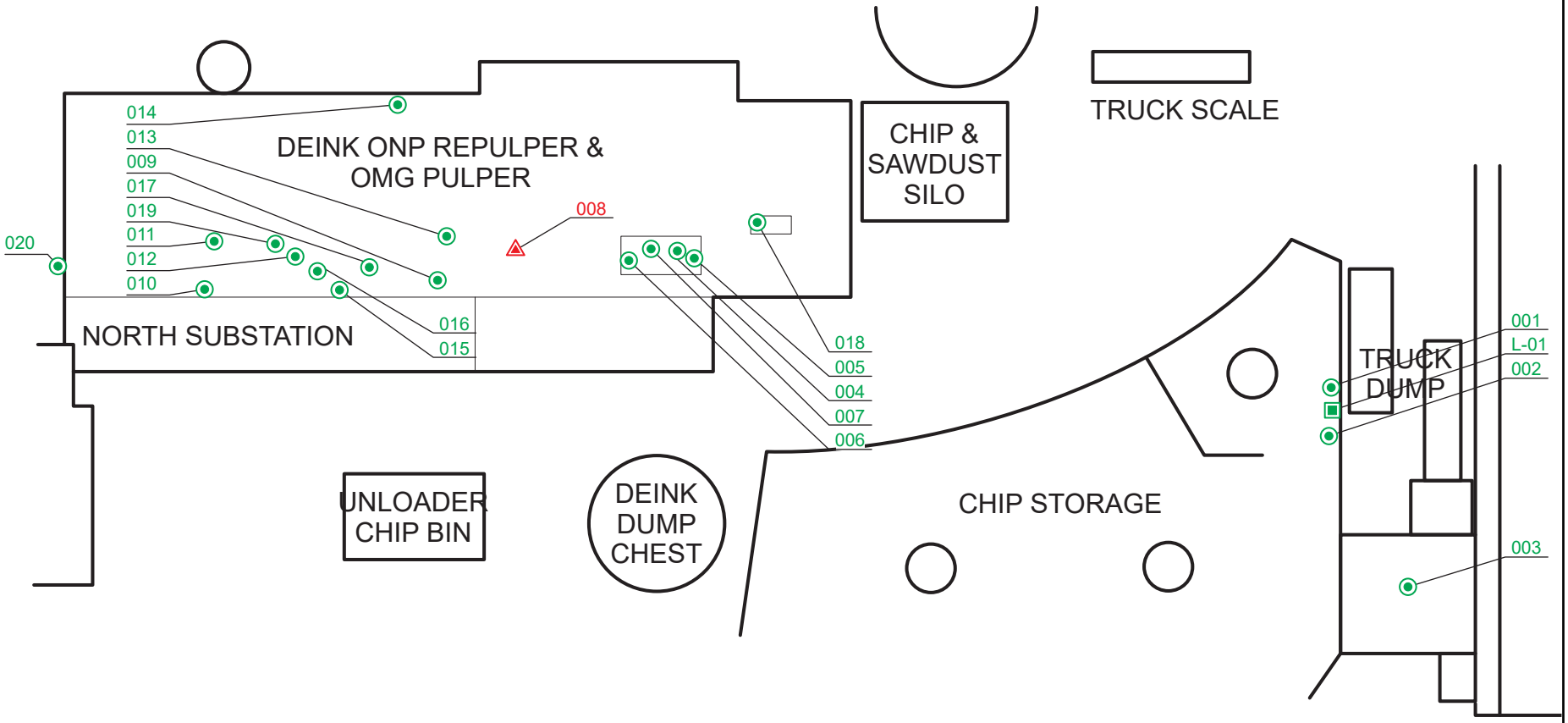
028 ◉	Negative Asbestos Sample Location
046 ▲	Positive Asbestos Sample Location
L-07 ▣	Negative Lead Paint Sample Location
L-08 ⬢	Positive Lead Paint Sample Location

Sample Locations

No. 4 Paper Machine, Finishing Room and Warehouse
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		21



NOT TO SCALE

LEGEND:

010 ◉ Negative Asbestos Sample Location

008 ▲ Positive Asbestos Sample Location

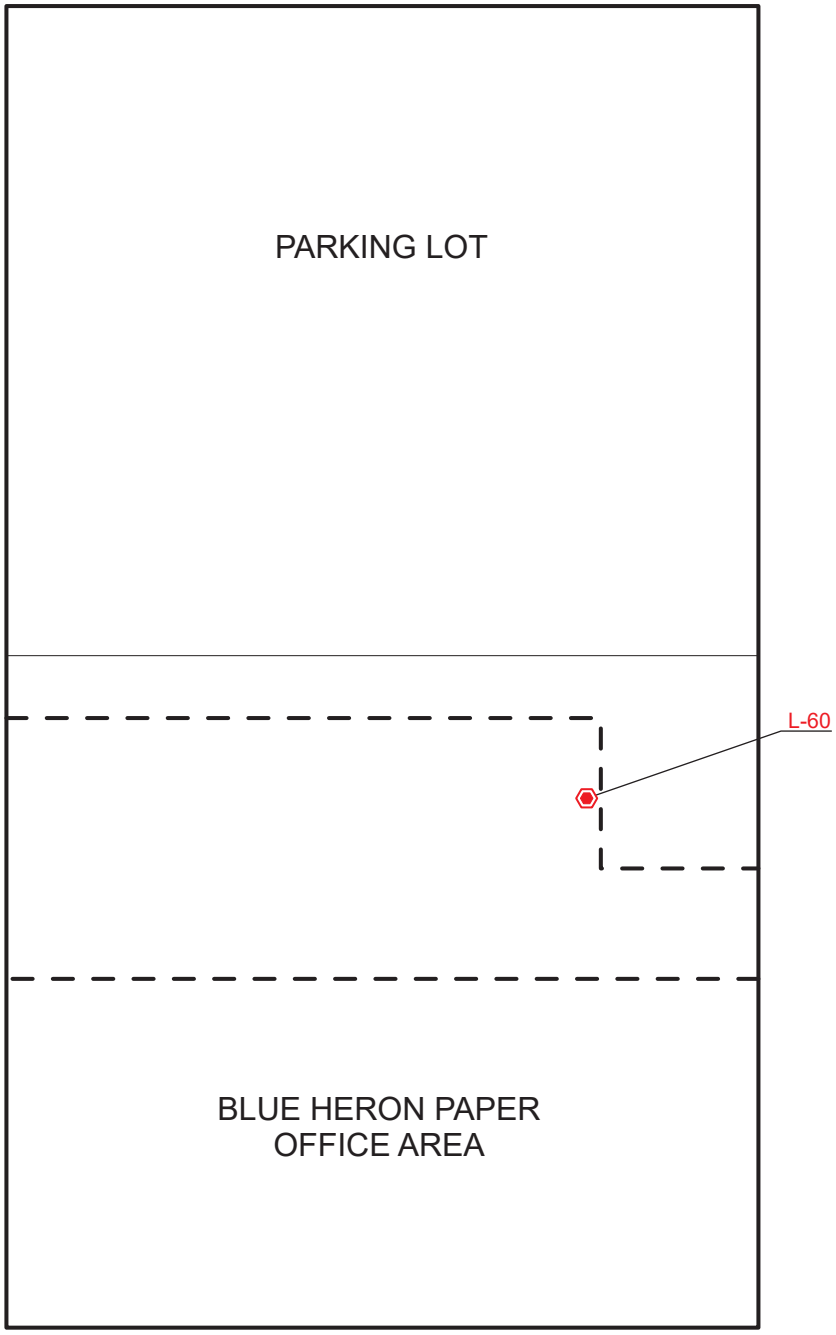
L-01 ▣ Negative Lead Paint Sample Location

N

Sample Locations

Chip Storage and Truck Dump
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	2449-00	Figure 22
	December 2018		



N

NOT TO SCALE

LEGEND:

L-60 Positive Lead Paint Sample Location

Sample Locations

North Parking Lot and Office Area
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		23

APPENDIX A

ASBESTOS LABORATORY ANALYTICAL RESULTS, ASSOCIATED CHAIN-OF-CUSTODY DOCUMENTS & LABORATORY CERTIFICATIONS

EMSL Analytical, Inc.

3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134

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

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

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

Attention: Dan Fitzgibbons
Apex Companies, LLC
3015 SW First Ave
Portland, OR 97201

Project: 2449-00.003

Phone: (503) 924-4704
Fax:
Received Date: 10/19/2018 8:50 AM
Analysis Date: 10/22/2018 - 10/25/2018
Collected Date:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
001 *511803160-0001*	Truck dump - south wall beam - Brown/gray wall mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
002 *511803160-0002*	Truck dump - south wall - Tan fire brick debris	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
003 *511803160-0003*	Truck dump - elect. Room - CAB	Gray Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
004 *511803160-0004*	Deink ONP Repulper; 2nd floor; control room - 4'x2' D&F Drop ceiling panel	White/Beige Fibrous Homogeneous	75% Cellulose	10% Perlite 15% Non-fibrous (Other)	None Detected
005-Drywall *511803160-0005*	Deink ONP Repulper; 2nd floor; control room - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose 3% Glass	70% Gypsum 17% Non-fibrous (Other)	None Detected
005-Joint Compound *511803160-0005A*	Deink ONP Repulper; 2nd floor; control room - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
006-Cove Base *511803160-0006*	Deink ONP Repulper; 2nd floor; control room - 4" Gray cove with cream mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
006-Mastic *511803160-0006A*	Deink ONP Repulper; 2nd floor; control room - 4" Gray cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
007-Insulation *511803160-0007*	Deink ONP Repulper; 2nd floor; control room - Pink insulation with paper & foil backing	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
007-Backing *511803160-0007A*	Deink ONP Repulper; 2nd floor; control room - Pink insulation with paper & foil backing	Tan/Silver Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected
008 *511803160-0008*	Deink ONP Repulper; roof - Roofing (asphaltic)	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
009 *511803160-0009*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray/Tan/White Non-Fibrous Homogeneous	5% Cellulose	20% Quartz 75% Non-fibrous (Other)	None Detected

Inseparable paint / coating layer included in analysis

HA: 1

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
010 *511803160-0010* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray/White Non-Fibrous Homogeneous	5% Cellulose HA: 1	25% Quartz 70% Non-fibrous (Other)	None Detected
011 *511803160-0011*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	4% Cellulose HA: 1	20% Quartz 76% Non-fibrous (Other)	None Detected
012 *511803160-0012*	Deink ONP Repulper; 4th story - Skim coating over concrete	Gray/Green Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
013 *511803160-0013*	Deink ONP Repulper; 4th story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	HA: 1	20% Quartz <1% Mica 80% Non-fibrous (Other)	None Detected
014 *511803160-0014* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 1st story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
015 *511803160-0015* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 1st floor - Skim coating over concrete	Gray/Blue Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
016 *511803160-0016*	Deink ONP Repulper; 4th floor - Brown fiber debris	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
017 *511803160-0017*	Deink ONP Repulper; 4th floor - Gasket in debris	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
018 *511803160-0018*	Deink ONP Repulper; 1st floor - Asphalt roofing	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
019 *511803160-0019*	Deink ONP Repulper; 1st floor - White wall mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
020 *511803160-0020*	Deink ONP Repulper; exterior - south - Grout - associated with glass blocks	Gray Non-Fibrous Homogeneous	3% Cellulose	20% Quartz <1% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
021 *511803160-0021*	Paper machine #4; basement - Tan mastic dots	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022-Floor Tile *511803160-0022*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022-Mastic *511803160-0022A*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
022-Leveler *511803160-0022B*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
023 *511803160-0023*	Paper machine #4; 1st floor; north control room - 4" Tan cove with tan mastic	Gray/White Non-Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
024-Cove Base *511803160-0024*	Paper machine #4; 1st floor; north control room - 12"x12" White ceiling tiles with mastic dots	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
024-Mastic *511803160-0024A*	Paper machine #4; 1st floor; north control room - 12"x12" White ceiling tiles with mastic dots	White Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
025 *511803160-0025*	Paper machine #4; 1st floor; east exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
026-Vinyl Sheet Flooring *511803160-0026*	Paper machine #4; 1st floor; men's restroom - Tan sheet vinyl with mastic	Gray/Tan Fibrous Heterogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
026-Mastic *511803160-0026A*	Paper machine #4; 1st floor; men's restroom - Tan sheet vinyl with mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
027-Paneling *511803160-0027*	Paper machine #4; 1st floor; men's restroom - White FRP with tan mastic	White Fibrous Homogeneous	45% Glass	55% Non-fibrous (Other)	None Detected
027-Mastic *511803160-0027A*	Paper machine #4; 1st floor; men's restroom - White FRP with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
028-Floor Tile *511803160-0028*	Paper machine #4; 1st floor; south control room - 12"x12" Gray vinyl floor tile with mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
028-Mastic *511803160-0028A*	Paper machine #4; 1st floor; south control room - 12"x12" Gray vinyl floor tile with mastic	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
029-Vinyl Sheet Flooring *511803160-0029*	Paper machine #4; 1st floor; computer room - Yellow pebble patterned sheet vinyl	Gray Fibrous Heterogeneous		75% Non-fibrous (Other)	25% Chrysotile
029-Mastic *511803160-0029A*	Paper machine #4; 1st floor; computer room - Yellow pebble patterned sheet vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
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http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
030-Cove Base *511803160-0030*	Paper machine #4; 1st floor; computer room - 4" Brown cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
030-Mastic *511803160-0030A*	Paper machine #4; 1st floor; computer room - 4" Brown cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
031-Texture *511803160-0031*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
031-Texture *511803160-0031A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
031-Concrete *511803160-0031B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	20% Quartz 80% Non-fibrous (Other)	None Detected
032-Texture *511803160-0032*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
032-Texture *511803160-0032A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
032-Concrete *511803160-0032B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	15% Quartz 85% Non-fibrous (Other)	None Detected
033-Texture *511803160-0033*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
033-Texture *511803160-0033A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
033-Concrete *511803160-0033B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	20% Quartz 80% Non-fibrous (Other)	None Detected
034-Concrete *511803160-0034*	Paper machine #4; 1st floor; computer room - CMU block grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
034-Plaster *511803160-0034A*	Paper machine #4; 1st floor; computer room - CMU block grout	Gray/White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
035 *511803160-0035*	Paper machine #4; 1st floor; computer room - 12"x12" White ceiling tiles with mastic	Tan/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
036-Tile *511803160-0036*	Paper machine #4; 1st floor; hatch - Terracotta tile with white grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
036-Grout *511803160-0036A*	Paper machine #4; 1st floor; hatch - Terracotta tile with white grout	Black Non-Fibrous Homogeneous	3% Cellulose	25% Quartz 72% Non-fibrous (Other)	None Detected
037-Cove Base *511803160-0037*	Paper machine #4; 1st floor; women's restroom - 4" Gray cove with mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
037-Mastic *511803160-0037A*	Paper machine #4; 1st floor; women's restroom - 4" Gray cove with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
038-Paneling *511803160-0038*	Paper machine #4; 1st floor; women's restroom - Tan wall panel	Tan/White Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
038-Mastic *511803160-0038A*	Paper machine #4; 1st floor; women's restroom - Tan wall panel	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
039 *511803160-0039*	Paper machine #4; 1st floor; women's restroom - White sink undercoating	Gray Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
040 *511803160-0040*	Paper machine #4; 1st floor; exterior - Window glazing	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
041 *511803160-0041*	Paper machine #4; 2nd floor; restroom - Sink undercoating	White Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
042-Counter Top *511803160-0042*	Paper machine #4; 2nd floor; restroom - Blue laminate countertop	Brown/Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
042-Mastic *511803160-0042A*	Paper machine #4; 2nd floor; restroom - Blue laminate countertop	Tan Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
043 *511803160-0043*	#4 Finishing; 2nd floor; bathroom - 4'x2' Ceiling panel	Gray/White Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
044 *511803160-0044*	#4 Finishing; 4th floor - Carpet over fabric flooring	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
045-Floor Tile *511803160-0045*	#4 Finishing; 4th floor - 9"x9" Green VFT with yellow mastic	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
045-Mastic *511803160-0045A*	#4 Finishing; 4th floor - 9"x9" Green VFT with yellow mastic	Beige Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
046-Floor Tile *511803160-0046*	#4 Finishing; 4th floor - 12"x12" Green VFT with yellow mastic	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
046-Mastic *511803160-0046A*	#4 Finishing; 4th floor - 12"x12" Green VFT with yellow mastic	Beige Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
047-Cove Base *511803160-0047*	#4 Finishing; 4th floor - 2" Brown cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
047-Mastic *511803160-0047A*	#4 Finishing; 4th floor - 2" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Rubber Membrane *511803160-0048*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Foam *511803160-0048A*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Vinyl Sheet Flooring *511803160-0048B*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	Brown/Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
048-Mastic *511803160-0048C*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
049-Cove Base *511803160-0049*	Paper machine #4; 2nd floor; NW exterior lab - 6" Brown coe with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
049-Mastic *511803160-0049A*	Paper machine #4; 2nd floor; NW exterior lab - 6" Brown coe with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
050 *511803160-0050*	Paper machine #4; 2nd floor; NW exterior lab - Black fiber insulation with black felt	Black Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
051-Drywall *511803160-0051*	Paper machine #4; 2nd floor; NW exterior lab - Drywall with joint compound	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
051-Joint Compound *511803160-0051A*	Paper machine #4; 2nd floor; NW exterior lab - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
052-Roofing (Top) *511803160-0052*	Paper machine #4; roof - Built-up roofing material	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
052-Built Up Roofing *511803160-0052A*	Paper machine #4; roof - Built-up roofing material	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
052-Rubber Membrane *511803160-0052B*	Paper machine #4; roof - Built-up roofing material	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
053 *511803160-0053* *Inseparable paint / coating layer included in analysis*	Paper machine #4; roof - Tan roofing caulk with silver paint	Tan/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
054 *511803160-0054*	#4 Finishing; 1st floor; office - 2x2 Patterned 4'x4' drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	5% Perlite 15% Non-fibrous (Other)	None Detected
055-Vinyl Sheet Flooring *511803160-0055*	#4 Finishing; 1st floor; office - Tan sheet vinyl floor with tan mastic	Gray/Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
055-Mastic *511803160-0055A*	#4 Finishing; 1st floor; office - Tan sheet vinyl floor with tan mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
056-Insulation *511803160-0056*	#4 Finishing; 1st floor; office - Insulation with paper backing	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
056-Backing *511803160-0056A*	#4 Finishing; 1st floor; office - Insulation with paper backing	Tan/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
057 *511803160-0057*	Dig - exterior (east) - Felt cloth	Gray Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
058-Tile *511803160-0058*	Former tank east of dig - Terrcotta tile with white grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
058-Grout *511803160-0058A*	Former tank east of dig - Terrcotta tile with white grout	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
059 *511803160-0059*	Sulphite plant; east exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
060 *511803160-0060*	Sulphite plant; sphere tank - Silver paint	Brown/Red/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
061-Vinyl Sheet Flooring *511803160-0061*	Weld shop office - Tan sheet vinyl flooring with cream mastic	Tan Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
061-Mastic *511803160-0061A*	Weld shop office - Tan sheet vinyl flooring with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
062-Drywall *511803160-0062*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 3	70% Gypsum 20% Non-fibrous (Other)	None Detected
062-Texture *511803160-0062A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	White Non-Fibrous Homogeneous	HA: 3	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
063-Drywall *511803160-0063*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 3	65% Gypsum 20% Non-fibrous (Other)	None Detected
063-Texture *511803160-0063A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	Gray/White Non-Fibrous Homogeneous	HA: 3	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
064-Drywall *511803160-0064*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 3	70% Gypsum 15% Non-fibrous (Other)	None Detected
064-Texture *511803160-0064A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	Gray/White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
065-Drywall *511803160-0065*	Weld shop office - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose	70% Gypsum 20% Non-fibrous (Other)	None Detected
065-Joint Compound *511803160-0065A*	Weld shop office - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
066-Insulation *511803160-0066*	Receiving & store room - Insulation with paper	Gray Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
066-Wrap *511803160-0066A*	Receiving & store room - Insulation with paper	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
067-Floor Tile *511803160-0067*	Receiving & store room office - 12"x12" tan VFT with orange mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
067-Mastic *511803160-0067A*	Receiving & store room office - 12"x12" tan VFT with orange mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
068-Cove Base *511803160-0068*	Receiving & store room office - 4" Gray cove base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
068-Mastic *511803160-0068A*	Receiving & store room office - 4" Gray cove base	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
069-Ceiling Tile *511803160-0069*	Receiving & store room office - 12"x12" White dot ceiling tile with tan dots	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
069-Mastic *511803160-0069A*	Receiving & store room office - 12"x12" White dot ceiling tile with tan dots	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
070-Concrete *511803160-0070*	Receiving & store room - CMU block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
070-Grout *511803160-0070A*	Receiving & store room - CMU block grout	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
071 *511803160-0071*	Maintenance shop - Ceiling fireproofing debris	Various Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
072-Floor Tile *511803160-0072*	Mill offices; 2nd floor - 12"x12" Blue & white VFT with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
072-Mastic *511803160-0072A*	Mill offices; 2nd floor - 12"x12" Blue & white VFT with tan mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
073-Cove Base *511803160-0073*	Mill offices; 2nd floor - 4" Gray cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
073-Mastic *511803160-0073A*	Mill offices; 2nd floor - 4" Gray cove with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
074 *511803160-0074*	Mill offices; 2nd floor - 4'x2' D&F Ceiling panel	White/Beige Fibrous Homogeneous	75% Cellulose	10% Perlite 15% Non-fibrous (Other)	None Detected
075-Floor Tile *511803160-0075*	Mill offices; 2nd floor - 12"x12" Gray VFT with mastic & black backing	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
075-Mastic *511803160-0075A*	Mill offices; 2nd floor - 12"x12" Gray VFT with mastic & black backing	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
076-Cove Base *511803160-0076*	Mill offices; 2nd floor - 4" Black cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
076-Mastic *511803160-0076A*	Mill offices; 2nd floor - 4" Black cove with brown mastic	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
077-Cove Base *511803160-0077*	Mill offices; 3rd floor - 4" Tan cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
077-Mastic *511803160-0077A*	Mill offices; 3rd floor - 4" Tan cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
078-Cove Base *511803160-0078*	Mill offices; 3rd floor - 4" Gray cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
078-Mastic *511803160-0078A*	Mill offices; 3rd floor - 4" Gray cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
079-Floor Tile *511803160-0079*	Mill offices; 3rd floor - 12"x12" Blue VFT with yellow mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
079-Mastic *511803160-0079A*	Mill offices; 3rd floor - 12"x12" Blue VFT with yellow mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
080-Carpet *511803160-0080*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Various Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
080-Mastic *511803160-0080A*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
080-Leveler *511803160-0080B*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
081-Drywall *511803160-0081*	Mill offices; 3rd floor - Drywall with joint compound	Brown Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
081-Joint Compound *511803160-0081A*	Mill offices; 3rd floor - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
082 *511803160-0082*	Mill offices; 3rd floor - 4'x2' D&F Drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
083 *511803160-0083*	Mill offices; men's restroom - White cementitious wall panel with brown mastic	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
084-Cove Base *511803160-0084*	Mill offices; men's restroom - 4" Black cove with cream mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
084-Mastic *511803160-0084A*	Mill offices; men's restroom - 4" Black cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
085-Cove Base *511803160-0085*	Mill offices; 3rd floor - 4" Brown cove with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
085-Mastic *511803160-0085A*	Mill offices; 3rd floor - 4" Brown cove with brown mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
086-Cove Base *511803160-0086*	Mill offices; 3rd floor - 4" Light gray cove with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
086-Mastic *511803160-0086A*	Mill offices; 3rd floor - 4" Light gray cove with tan mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
087 *511803160-0087*	Mill offices; 3rd floor - 12"x12" Dot ceiling tile with black mastic dots	Brown/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	<1% Chrysotile
088-Coating *511803160-0088*	Mill offices; 3rd floor - 4'x2' Ceiling panel yellow with white layer	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
088-Ceiling Tile *511803160-0088A*	Mill offices; 3rd floor - 4'x2' Ceiling panel yellow with white layer	Yellow Non-Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
089-Floor Tile *511803160-0089*	Mill offices; 3rd floor; western offices - 12"x12" Brown VFT with black mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
089-Mastic *511803160-0089A*	Mill offices; 3rd floor; western offices - 12"x12" Brown VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
090-Carpet *511803160-0090*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Gray Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
090-Mastic *511803160-0090A*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
090-Floor Tile *511803160-0090B*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
090-Mastic *511803160-0090C*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
091-Carpet *511803160-0091*	Mill offices; 3rd floor; north offices - Dark gray carpet with cream mastic	Various Fibrous Heterogeneous	85% Synthetic	15% Non-fibrous (Other)	None Detected
091-Mastic *511803160-0091A*	Mill offices; 3rd floor; north offices - Dark gray carpet with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
092-Floor Tile *511803160-0092*	Mill offices; 3rd floor; eastern offices - 12"x12" Tan VFT with black mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
092-Mastic *511803160-0092A*	Mill offices; 3rd floor; eastern offices - 12"x12" Tan VFT with black mastic	Black Non-Fibrous Homogeneous	6% Synthetic	94% Non-fibrous (Other)	None Detected
093-Flooring *511803160-0093*	Mill offices; 3rd floor; break room - Red epoxy flooring with cream mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
093-Mastic *511803160-0093A*	Mill offices; 3rd floor; break room - Red epoxy flooring with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
094-Ceramic Tile *511803160-0094*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
094-Grout *511803160-0094A*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
094-Leveler *511803160-0094B*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
095-Ceramic Tile *511803160-0095*	Mill offices; 3rd floor; locker room - White ceramic cove base	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
095-Mortar *511803160-0095A*	Mill offices; 3rd floor; locker room - White ceramic cove base	White Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
096-Flooring *511803160-0096*	Mill offices; 3rd floor; store room - Green epoxy flooring with cream mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
096-Mastic *511803160-0096A*	Mill offices; 3rd floor; store room - Green epoxy flooring with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
097-Drywall *511803160-0097*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	75% Gypsum 15% Non-fibrous (Other)	None Detected
097-Texture *511803160-0097A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
098-Drywall *511803160-0098*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	70% Gypsum 20% Non-fibrous (Other)	None Detected
098-Texture *511803160-0098A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
099-Drywall *511803160-0099*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	65% Gypsum 25% Non-fibrous (Other)	None Detected
099-Texture *511803160-0099A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
100 *511803160-0100*	Mill offices; 5th floor; roof - Built-up roofing	Black Fibrous Heterogeneous	25% Cellulose 15% Glass	50% Non-fibrous (Other)	10% Chrysotile
101-Vinyl Sheet Flooring *511803160-0101*	Mill offices; 5th floor - Textured vinyl sheet flooring with cream mastic	Gray Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
101-Mastic *511803160-0101A*	Mill offices; 5th floor - Textured vinyl sheet flooring with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
102-Drywall *511803160-0102*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
102-Texture *511803160-0102A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
103-Drywall *511803160-0103*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
103-Texture *511803160-0103A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
104-Drywall *511803160-0104*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
104-Texture *511803160-0104A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
105-Drywall *511803160-0105*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	20% Cellulose HA: 5	65% Gypsum 15% Non-fibrous (Other)	None Detected
105-Texture *511803160-0105A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
106-Drywall *511803160-0106*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
106-Texture *511803160-0106A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
107-Paneling *511803160-0107*	Mill offices; 5th floor; restroom - White FRP with mastic	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
107-Mastic *511803160-0107A*	Mill offices; 5th floor; restroom - White FRP with mastic	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
108-Laminate *511803160-0108*	Mill offices; 5th floor; break area - Laminate countertop	Brown/White Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
108-Mastic *511803160-0108A*	Mill offices; 5th floor; break area - Laminate countertop	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
109-Paneling *511803160-0109*	Mill offices; 4th floor - White wall panel with brown mastic	Brown/White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
109-Mastic *511803160-0109A*	Mill offices; 4th floor - White wall panel with brown mastic	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
110-Vinyl Sheet Flooring *511803160-0110*	Mill offices; 4th floor - Red sheet vinyl with cream mastic	Gray/Red Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
110-Mastic *511803160-0110A*	Mill offices; 4th floor - Red sheet vinyl with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111 *511803160-0111*	TMP refiner lines; 2nd story; control room - 12"x12" Gray VFT with tan mastic	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
112-Cove Base *511803160-0112*	TMP refiner lines; 2nd story; control room - 4" Gray cove with cream	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
112-Mastic *511803160-0112A*	TMP refiner lines; 2nd story; control room - 4" Gray cove with cream	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
113-Vinyl Floor Tile *511803160-0113*	TMP refiner lines; 2nd story; control room - Residual 12"x12" dark tan VFT with black mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
113-Mastic *511803160-0113A*	TMP refiner lines; 2nd story; control room - Residual 12"x12" dark tan VFT with black mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
114 *511803160-0114*	TMP refiner lines; exterior - east - Yellow & black sealant on ext. metal plates	Black/Yellow Non-Fibrous Homogeneous	2% Wollastonite	5% Quartz 93% Non-fibrous (Other)	None Detected
115 *511803160-0115*	TMP reject refining & screening - exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
116 *511803160-0116*	TMP reject; 2nd floor - Black fibrous debris	Brown/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
117-Cove Base *511803160-0117*	TMP area; 1st floor; control room - 4" Gray cove with brown mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
117-Mastic *511803160-0117A*	TMP area; 1st floor; control room - 4" Gray cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
118-Cove Base *511803160-0118*	TMP area; 1st floor; control room - 4" Blue cove with brown mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
118-Mastic *511803160-0118A*	TMP area; 1st floor; control room - 4" Blue cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
119 *511803160-0119*	TMP area; 1st floor; control room - 4'x2' D&F Drop ceiling panels	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
120 *511803160-0120*	TMP area; 1st floor; control room - Gray floor leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
121-Laminate *511803160-0121*	TMP lab; 1st floor - Gray laminate countertop	Brown/Gray Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
121-Mastic *511803160-0121A*	TMP lab; 1st floor - Gray laminate countertop	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
122-Drywall *511803160-0122*	TMP lab; 1st floor - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
122-Joint Compound *511803160-0122A*	TMP lab; 1st floor - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
123 *511803160-0123*	Paper machine #1; 1st floor; tank pit - Terracotta tile	Tan/Beige Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
124-Mastic *511803160-0124*	Paper machine #1; 1st floor; ext of N. control room - Gray wall mastic	Blue/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
124-Concrete *511803160-0124A*	Paper machine #1; 1st floor; ext of N. control room - Gray wall mastic	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
125-Ceiling Tile *511803160-0125*	Paper machine #1; 1st floor; ext of N. control room - 12"x12" White dot ceiling tile with brown mastic dots	Tan Fibrous Homogeneous	70% Cellulose	5% Perlite 25% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
125-Mastic *511803160-0125A*	Paper machine #1; 1st floor; ext of N. control room - 12"x12" White dot ceiling tile with brown mastic dots	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
126-Insulation *511803160-0126*	Paper machine #1; 1st floor; ext of N. control room - Yellow with white paper insulation	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
126-Wrap *511803160-0126A*	Paper machine #1; 1st floor; ext of N. control room - Yellow with white paper insulation	White/Silver Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material *Inseparable paint / coating layer included in analysis*					
127-Insulation *511803160-0127*	Paper machine #1; 1st floor; ext of northern control room - Pink ceiling insulation with brown paper	Pink Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
127-Paper *511803160-0127A*	Paper machine #1; 1st floor; ext of northern control room - Pink ceiling insulation with brown paper	Brown/Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
128-Carpet *511803160-0128*	Paper machine #1; 1st floor; "microwave" room - Gray carpet with tan mastic	Gray/Tan/Black Non-Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
128-Mastic *511803160-0128A*	Paper machine #1; 1st floor; "microwave" room - Gray carpet with tan mastic	Gray/Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
129 *511803160-0129*	Paper machine #2; exterior -south - Transite siding	Gray Non-Fibrous Homogeneous		83% Non-fibrous (Other)	17% Chrysotile
130-Cove Base *511803160-0130*	Paper machine #1; 1st floor; raised office - Black dot pattern VFT with white mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
130-Mastic *511803160-0130A*	Paper machine #1; 1st floor; raised office - Black dot pattern VFT with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Cove Base *511803160-0131*	Paper machine #1; 1st floor; raised office - 4" Black cove with white mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Mastic *511803160-0131A*	Paper machine #1; 1st floor; raised office - 4" Black cove with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
132-FRP *511803160-0132*	Paper machine #1; 1st floor; raised office - White FRP with cream mastic	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
132-Mastic *511803160-0132A*	Paper machine #1; 1st floor; raised office - White FRP with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
133 *511803160-0133*	Paper machine #1; 1st floor; raised office - 4'x2' Dot drop ceiling panel	Gray Fibrous Homogeneous	45% Cellulose 25% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
134 *511803160-0134*	Paper machine #1; 1st floor - Skim coat over CMU	Gray/Green Non-Fibrous Homogeneous	5% Cellulose	15% Quartz 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis *Result includes a small amount of inseparable attached material*			HA: 6		
135 *511803160-0135*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
			HA: 6		
136-Coating *511803160-0136*	Paper machine #1; 1st floor - Skim coat over CMU	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis			HA: 6		
136-Skim Coat *511803160-0136A*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 6		
137 *511803160-0137*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous	3% Cellulose	10% Quartz 87% Non-fibrous (Other)	None Detected
			HA: 6		
138 *511803160-0138*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
			HA: 6		
139-Skim Coat *511803160-0139*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
			HA: 6		
139-Backing *511803160-0139A*	Paper machine #1; 1st floor - Skim coat over CMU	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
			HA: 6		
140 *511803160-0140*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
			HA: 6		
141-Ceramic Tile *511803160-0141*	Paper machine #1; 1st floor; filtrative tank - Terracotta tile	Tan Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
141-Grout *511803160-0141A*	Paper machine #1; 1st floor; filtrative tank - Terracotta tile	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
142-Carpet 1 *511803160-0142*	Paper machine #1; roof - Carpet over carpet	Brown/Tan Fibrous Homogeneous	25% Cellulose 60% Synthetic	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
142-Carpet 2 *511803160-0142A*	Paper machine #1; roof - Carpet over carpet	Brown Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
143 *511803160-0143*	Paper machine #1; roof - White exterior caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Built Up Roofing *511803160-0144*	Paper machine #1; roof - Built-up roofing	Tan/Black Fibrous Homogeneous	60% Synthetic	3% Quartz 37% Non-fibrous (Other)	None Detected
144-Tar *511803160-0144A*	Paper machine #1; roof - Built-up roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Insulation *511803160-0144B*	Paper machine #1; roof - Built-up roofing	Tan Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
145-Vinyl Floor Tile *511803160-0145*	Sulphite plant; 3rd story; restroom - 9"x9" Green VFT with black mastic	Green Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
145-Mastic *511803160-0145A*	Sulphite plant; 3rd story; restroom - 9"x9" Green VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
146 *511803160-0146*	Sulphite plant; 3rd story; restroom - Brown mastic on wall from remove cove	Brown Non-Fibrous Homogeneous	8% Fibrous (Other)	92% Non-fibrous (Other)	None Detected
147-CMU *511803160-0147*	Sulphite plant; 3rd story; restroom - CMU block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
147-Grout *511803160-0147A*	Sulphite plant; 3rd story; restroom - CMU block grout	Gray Non-Fibrous Homogeneous		15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
148 *511803160-0148*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
149 *511803160-0149*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
150 *511803160-0150*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
151 *511803160-0151*	Sulphite plant; 4th floor - CAB	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
152-Wall Panel *511803160-0152*	Sulphite plant; 4th floor - Fiber wall panel	Gray Non-Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile

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EMSL Order: 511803160
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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
152-Mastic *511803160-0152A*	Sulphite plant; 4th floor - Fiber wall panel	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
153-C.A.B. *511803160-0153* *Result includes a small amount of inseparable attached material*	Sulphite plant; 4th floor - CAB Panel with black mastic	Gray/Tan Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
153-Mastic *511803160-0153A*	Sulphite plant; 4th floor - CAB Panel with black mastic	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
154 *511803160-0154*	Sulphite plant; stairs 4th story to roof - Asphaltic stair tread	Brown/Gray/Black Fibrous Homogeneous	30% Cellulose 15% Glass	5% Quartz 10% Non-fibrous (Other)	40% Chrysotile
155-Silver Paint *511803160-0155*	Sulphite plant; roof - Built-up silver roofing	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
155-Built Up Roofing *511803160-0155A*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	25% Cellulose	20% Non-fibrous (Other)	55% Chrysotile
155-Built Up Roofing *511803160-0155B*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	65% Glass	35% Non-fibrous (Other)	None Detected
155-Built Up Roofing *511803160-0155C*	Sulphite plant; roof - Built-up silver roofing	Brown/Black Fibrous Homogeneous	20% Cellulose	20% Non-fibrous (Other)	60% Chrysotile
155-Tar Felt *511803160-0155D*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
155-Tar *511803160-0155E*	Sulphite plant; roof - Built-up silver roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
155-Insulation *511803160-0155F*	Sulphite plant; roof - Built-up silver roofing	Yellow Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
156-Concrete *511803160-0156*	TMP Hi-D tank - Concrete block with gray grout	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
156-Grout *511803160-0156A*	TMP Hi-D tank - Concrete block with gray grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
157 *511803160-0157*	Recovery boiler; basement; men's locker room - Gray sealant on HVAC duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
158-FRP *511803160-0158*	Recovery boiler; basement; men's locker room - FRP with cream mastic	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
158-Mastic *511803160-0158A*	Recovery boiler; basement; men's locker room - FRP with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
159-Laminate *511803160-0159*	Recovery boiler; basement; men's locker room - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
159-Mastic *511803160-0159A*	Recovery boiler; basement; men's locker room - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
160-Insulation *511803160-0160*	Boiler plant; basement; adj. to sodium hydrosulfide - Yellow fiber insulation with black "John-Manville" paper	Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
160-Paper *511803160-0160A*	Boiler plant; basement; adj. to sodium hydrosulfide - Yellow fiber insulation with black "John-Manville" paper	Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
161 *511803160-0161*	Boiler plant; basement; adj. to sodium hydrosulfide - Black asphaltic felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
162-Ceiling Tile *511803160-0162*	Pipe shop; 1st floor - 12"x12" White D&F ceiling tiles with tan mastic dots	Gray Fibrous Homogeneous	30% Cellulose 45% Min. Wool	25% Non-fibrous (Other)	None Detected
162-Mastic *511803160-0162A*	Pipe shop; 1st floor - 12"x12" White D&F ceiling tiles with tan mastic dots	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
163-Laminate *511803160-0163*	Pipe shop; 1st floor - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
163-Mastic *511803160-0163A*	Pipe shop; 1st floor - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
164-CMU *511803160-0164*	Pipe shop; 1st floor - CMU Block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
164-Grout *511803160-0164A*	Pipe shop; 1st floor - CMU Block grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
165 *511803160-0165*	Pipe shop; 2nd floor - White sink undercoating	Brown/White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
166-Ceramic Tile *511803160-0166*	Environmental lab; western exterior - Ceramic elect. insulator	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
166-Mastic *511803160-0166A*	Environmental lab; western exterior - Ceramic elect. insulator	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
167-Vinyl Floor Tile *511803160-0167*	Mill 0 conference room; nurse's office - 12"x12" Cream VFT with brown mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
167-Mastic *511803160-0167A*	Mill 0 conference room; nurse's office - 12"x12" Cream VFT with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Cove Base *511803160-0168*	Mill 0 conference room; nurse's office - 4" Brown cove base with white mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Mastic *511803160-0168A*	Mill 0 conference room; nurse's office - 4" Brown cove base with white mastic	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
169 *511803160-0169*	Mill 0 conference room; 1st floor - Wood wall panel with adhesive	Gray/Tan Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
170-Laminate *511803160-0170*	Mill 0 conference room; 1st floor - White laminate countertop	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
170-Mastic *511803160-0170A*	Mill 0 conference room; 1st floor - White laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
171 *511803160-0171*	Mill 0 conference room; 1st floor - 4'x2' D&F Drop ceiling panel	Gray Fibrous Homogeneous	45% Cellulose 30% Min. Wool	10% Perlite 15% Non-fibrous (Other)	None Detected
172-Vinyl Floor Tile *511803160-0172*	Environmental lab; 1st floor - 9"x9" Green VFT with black mastic	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
172-Mastic *511803160-0172A*	Environmental lab; 1st floor - 9"x9" Green VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
173-Vinyl Floor Tile *511803160-0173*	Environmental lab; 1st floor - 9"x9" Brown VFT with black mastic	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
173-Mastic *511803160-0173A*	Environmental lab; 1st floor - 9"x9" Brown VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
174 *511803160-0174*	Environmental lab; 1st floor - 4'x2' Dot drop ceiling panel	Gray Fibrous Homogeneous	25% Cellulose 45% Min. Wool	27% Non-fibrous (Other)	3% Chrysotile
175-Ceiling Tile *511803160-0175*	Environmental lab; 1st floor - 12"x12" White dot ceiling tiles with gray mastic dots	Gray/White Fibrous Homogeneous	45% Cellulose 50% Min. Wool	5% Non-fibrous (Other)	None Detected
175-Mastic *511803160-0175A*	Environmental lab; 1st floor - 12"x12" White dot ceiling tiles with gray mastic dots	Brown Non-Fibrous Homogeneous	5% Fibrous (Other)	95% Non-fibrous (Other)	None Detected
176 *511803160-0176*	Environmental lab; 1st floor - Black sink undercoating	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
177-Cove Base *511803160-0177*	Environmental lab; 1st floor - 4" Black cove base with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
177-Mastic *511803160-0177A*	Environmental lab; 1st floor - 4" Black cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
178-Wall Panel *511803160-0178*	Environmental lab; 1st floor - Blue plastic wall panel with brown mastic	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
178-Mastic *511803160-0178A*	Environmental lab; 1st floor - Blue plastic wall panel with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
179 *511803160-0179*	Environmental lab; 1st floor - Black countertop	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
180-Vinyl Sheet Flooring *511803160-0180*	Raw material storage; 2nd story - Green sheet vinyl with mastic	Tan/Green Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
180-Mastic *511803160-0180A*	Raw material storage; 2nd story - Green sheet vinyl with mastic	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
181 *511803160-0181*	Raw material storage; 2nd story - Black fiber panel flooring	Brown/Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
182 *511803160-0182*	Raw material storage; 2nd story - Beige sheet vinyl flooring with mastic	Tan/Beige Fibrous Homogeneous	35% Cellulose	45% Non-fibrous (Other)	20% Chrysotile
Result includes a small amount of inseparable attached material					
183-Cove Base *511803160-0183*	Raw material storage; 2nd floor - 4" Brown cove with tan mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
183-Mastic *511803160-0183A*	Raw material storage; 2nd floor - 4" Brown cove with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
184 *511803160-0184*	Raw material storage; 2nd floor - Fibrous 24" dia. plastic pipe	Gray Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
185-Drywall *511803160-0185*	Raw material storage; 2nd floor - Dyrwall with joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass	60% Gypsum 10% Non-fibrous (Other)	None Detected
185-Joint Compound *511803160-0185A*	Raw material storage; 2nd floor - Dyrwall with joint compound	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
186 *511803160-0186*	Raw material storage; 2nd story - exterior - White window glazing	White/Beige Non-Fibrous Homogeneous		65% Ca Carbonate 35% Non-fibrous (Other)	None Detected
187-Wrap *511803160-0187*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	White Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
187-Mastic *511803160-0187A*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
187-Insulation *511803160-0187B*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
188-Insulation *511803160-0188*	City water pipe - south of sulphite plant - 12" Dia. fiber insulation with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
188-Paper *511803160-0188A*	City water pipe - south of sulphite plant - 12" Dia. fiber insulation with paper	White/Silver Fibrous Homogeneous	15% Cellulose 35% Glass	50% Non-fibrous (Other)	None Detected
189 *511803160-0189*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	5% Cellulose 8% Glass HA: 8	87% Non-fibrous (Other)	None Detected
190 *511803160-0190*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	5% Cellulose 8% Glass HA: 8	87% Non-fibrous (Other)	None Detected
191 *511803160-0191*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	3% Cellulose 10% Glass HA: 8	87% Non-fibrous (Other)	None Detected
192 *511803160-0192*	Auto shop - southern wall - White fiber insulation	Gray/White Fibrous Homogeneous	97% Min. Wool HA: 9	3% Non-fibrous (Other)	None Detected
193 *511803160-0193*	Auto shop - ceiling - White fiber insulation	Gray/White Fibrous Homogeneous	97% Min. Wool HA: 9	3% Non-fibrous (Other)	None Detected
194 *511803160-0194*	Auto shop - floor debris - White fiber insulation *Result includes a small amount of inseparable attached material*	Gray/White Fibrous Homogeneous	5% Synthetic 90% Min. Wool HA: 9	5% Non-fibrous (Other)	None Detected
195 *511803160-0195*	Deink Hi-D tank area - Black fibrous sheet debris	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
196-Brick *511803160-0196*	Deink Hi-D tank area - Red brick with gray mortar	Red Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
196-Mortar *511803160-0196A*	Deink Hi-D tank area - Red brick with gray mortar	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
197 *511803160-0197*	Deink Hi-D tank area - Gray grout associated with rock wall	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
198-Brick *511803160-0198*	Butler building - Red 12"x12" bricks with white grout	Red Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
198-Grout *511803160-0198A*	Butler building - Red 12"x12" bricks with white grout	White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
199 *511803160-0199*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
200 *511803160-0200*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
201 *511803160-0201*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
202 *511803160-0202*	Paper machine #2 deck - Asphaltic decking	White/Black Fibrous Homogeneous	40% Glass	2% Quartz 58% Non-fibrous (Other)	None Detected
203 *511803160-0203*	Paper machine #2 - Gray fibrous cloth	Gray/White Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
204 *511803160-0204*	Paper machine #2 - Yellow wall mastic	Gray/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
205-Laminate *511803160-0205*	Mill D warehouse; 1st floor; restrooms - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
205-Mastic *511803160-0205A*	Mill D warehouse; 1st floor; restrooms - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
206 *511803160-0206*	Mill D warehouse; 1st floor; restrooms - White sink undercoating	White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
207-FRP *511803160-0207*	Mill D warehouse; 1st floor; restrooms - White FRP	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
207-Mastic *511803160-0207A*	Mill D warehouse; 1st floor; restrooms - White FRP	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
208 *511803160-0208*	Mill D warehouse; 1st floor; restrooms - 4x2 D&F Drop ceiling panel	Gray Fibrous Homogeneous	25% Min. Wool 40% Glass	35% Non-fibrous (Other)	None Detected
209-Cove Base *511803160-0209*	Mill D warehouse; 1st floor; restrooms - 4" Cream cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
209-Mastic *511803160-0209A*	Mill D warehouse; 1st floor; restrooms - 4" Cream cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
210-Wrap *511803160-0210*	Mill D warehouse; 1st floor; supply room - Yellow pipe wrap with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
210-Paper *511803160-0210A*	Mill D warehouse; 1st floor; supply room - Yellow pipe wrap with paper	White/Silver Fibrous Homogeneous	55% Cellulose 20% Glass	25% Non-fibrous (Other)	None Detected
211 *511803160-0211*	Mill D warehouse supply room - White cloth gasket	White Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
212-Vinyl Floor Tile *511803160-0212*	Mill D; paint room - Green 9x9 VFT w/brown mastic	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
212-Mastic *511803160-0212A*	Mill D; paint room - Green 9x9 VFT w/brown mastic	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
213-Wrap *511803160-0213*	Mill D; rail car loading doc - White fibrous material w/adhesive	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
213-Mastic *511803160-0213A*	Mill D; rail car loading doc - White fibrous material w/adhesive	Yellow/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
214 *511803160-0214*	Mill D warehouse - Brown felt paper	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
215 *511803160-0215*	Mill D warehouse - White window glazing	White/Beige Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected
216-Vinyl Floor Tile *511803160-0216*	Paper machine #3, northern control room - 12"x12" blue VFT w/cream mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
216-Mastic *511803160-0216A*	Paper machine #3, northern control room - 12"x12" blue VFT w/cream mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
217-Texture *511803160-0217*	Mill D; 2nd floor landing - White knock down texture over drywall	White Non-Fibrous Homogeneous	HA: 11	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
217-Drywall *511803160-0217A*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass HA: 11	60% Gypsum 10% Non-fibrous (Other)	None Detected
218-Texture *511803160-0218*	Mill D; 2nd floor landing - White knock down texture over drywall	White Non-Fibrous Homogeneous	HA: 11	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
218-Drywall *511803160-0218A*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 8% Glass HA: 11	60% Gypsum 12% Non-fibrous (Other)	None Detected
219 *511803160-0219*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass HA: 11	55% Gypsum 15% Non-fibrous (Other)	None Detected
220-Built Up Roofing *511803160-0220*	Mill D; roof - Built-up roofing w/silver paint	Black Fibrous Heterogeneous	20% Synthetic 20% Glass	55% Non-fibrous (Other)	5% Chrysotile
220-Silver Paint *511803160-0220A*	Mill D; roof - Built-up roofing w/silver paint	Silver Non-Fibrous Homogeneous	5% Wollastonite	95% Non-fibrous (Other)	None Detected

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Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
220-Tar Felt *511803160-0220B*	Mill D; roof - Built-up roofing w/silver paint	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
221 *511803160-0221*	Paper machine #3; exterior - riverside - Black fiber padding	Black Fibrous Homogeneous		20% Non-fibrous (Other)	80% Chrysotile
222-Ceramic Tile *511803160-0222*	Paper machine #3; exterior - riverside - Terracotta tile w/black grout debris	Beige/Orange Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
222-Grout *511803160-0222A*	Paper machine #3; exterior - riverside - Terracotta tile w/black grout debris	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
223 *511803160-0223*	Fitness center - Black mastic dot associated with wall mirrors	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
224-Carpet *511803160-0224*	Fitness center - Blue carpet w/wall (tan) adhesive	White/Black/Blue Fibrous Homogeneous	20% Cellulose 80% Synthetic		None Detected
224-Mastic *511803160-0224A*	Fitness center - Blue carpet w/wall (tan) adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
225-Joint Compound *511803160-0225*	Fitness center - Joint compound	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
225-Drywall *511803160-0225A*	Fitness center - Joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 7% Glass	60% Gypsum 13% Non-fibrous (Other)	None Detected
226-Insulation *511803160-0226*	Water filter plant, 3rd floor; office - Yellow insulation with white layer	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
226-Wrap *511803160-0226A*	Water filter plant, 3rd floor; office - Yellow insulation with white layer	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
227 *511803160-0227*	Water filter plant, 3rd floor; office - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile <1% Crocidolite
228 *511803160-0228*	Water filter plant, 3rd floor; office - Window glazing	White/Beige Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
229-Joint Compound *511803160-0229*	Water filter plant, 3rd floor; office - Drywall with joint compound	Gray/White Non-Fibrous Homogeneous		35% Ca Carbonate 62% Non-fibrous (Other)	3% Chrysotile
229-Drywall *511803160-0229A*	Water filter plant, 3rd floor; office - Drywall with joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass	65% Gypsum 5% Non-fibrous (Other)	None Detected
230 *511803160-0230* *Result includes a small amount of inseparable attached material*	Water filter plant; 3rd floor; restroom - Asphalt paper	Brown/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
231 *511803160-0231*	Water filter plant; 2nd story - exterior - Caulking behind transite	Tan Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
232 *511803160-0232*	Water filter plant; 2nd story - covered exterior - Fibrous pipe elbow wrap	White/Silver Fibrous Homogeneous	80% Glass	2% Quartz 18% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
233-CMU *511803160-0233*	Millwright shop; office - CMU Block & grout	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
233-Grout *511803160-0233A*	Millwright shop; office - CMU Block & grout	White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
234-Cementitious Cove *511803160-0234*	Millwright shop; office - Cementitious cove with cream mastic	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
234-Mastic *511803160-0234A*	Millwright shop; office - Cementitious cove with cream mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
235-Laminate *511803160-0235*	Millwright shop; restroom - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
235-Mastic *511803160-0235A*	Millwright shop; restroom - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
236-Ceiling Tile *511803160-0236*	Millwright shop; office - 4'x2' D&F Wall panel with brown mastic	Gray Fibrous Homogeneous	45% Cellulose 30% Min. Wool	10% Perlite 15% Non-fibrous (Other)	None Detected
236-Mastic *511803160-0236A*	Millwright shop; office - 4'x2' D&F Wall panel with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
237 *511803160-0237*	Paper machine #3; 1st floor; electrical room - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
238-Transite *511803160-0238*	Paper machine #3; 1st floor; electrical room - CAB	Gray Non-Fibrous Homogeneous		83% Non-fibrous (Other)	17% Chrysotile <1% Crocidolite
238-Foam *511803160-0238A*	Paper machine #3; 1st floor; electrical room - CAB	Yellow/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Ehrin Baul (185)
Jason Stuhr (211)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

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EMSL Order:	511803234
Customer ID:	APXW42
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons	**Phone:**	(206) 399-5267
	Apex Companies, LLC	**Fax:**	
	600 Stewart Street	**Received Date:**	10/25/2018 8:00 AM
	Suite 400	**Analysis Date:**	10/26/2018 - 10/29/2018
	Seattle, WA 98101	**Collected Date:**	
Project:	320002449-00, Task 003		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
239-Drywall *511803234-0001*	TMP refiner lines; 4th story annex - Drywall with joint compound (brown)	Brown/Tan Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
239-Joint Compound *511803234-0001A*	TMP refiner lines; 4th story annex - Drywall with joint compound (brown)	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
240-Drywall *511803234-0002*	TMP refiner lines; 4th story annex - Tan drywall with joint compound	Brown/Tan Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 18% Non-fibrous (Other)	None Detected
240-Joint Compound *511803234-0002A*	TMP refiner lines; 4th story annex - Tan drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
241 *511803234-0003*	TMP refiner lines; 4th story annex - Orange door/sign mastic	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Foam *511803234-0004*	TMP refiner lines; 4th story annex - Orange foam insulation with foiler backer	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Backing *511803234-0004A*	TMP refiner lines; 4th story annex - Orange foam insulation with foiler backer	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
243 *511803234-0005*	TMP refiner lines; ext. dock - east - White gasket debris	Gray/Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
244 *511803234-0006*	TMP refiner lines; ext. dock - east - Black seal	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
245 *511803234-0007*	Adj. to HI-D tank - Black asphaltic paper coating	Brown/Black Fibrous Homogeneous	30% Cellulose	45% Non-fibrous (Other)	25% Chrysotile
246-Finish Coat *511803234-0008*	HI-D tank - Texture on cementitious blcoks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
246-Base Coat *511803234-0008A*	HI-D tank - Texture on cementitious blcoks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Coating *511803234-0009*	Adj. to HI-D Tank - White with black wall mastic	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Sealant *511803234-0009A*	Adj. to HI-D Tank - White with black wall mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
248-Finish Coat *511803234-0010*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
248-Base Coat *511803234-0010A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Finish Coat *511803234-0011*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Base Coat *511803234-0011A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Finish Coat *511803234-0012*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Base Coat *511803234-0012A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Finish Coat *511803234-0013*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Base Coat *511803234-0013A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
252 *511803234-0014*	Paper machine #3; basement - White/gray fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
253 *511803234-0015*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
254 *511803234-0016*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
255 *511803234-0017*	Paper machine #3; basement - Gray metallic brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
256 *511803234-0018*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
257 *511803234-0019*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
258 *511803234-0020*	Paper machine #3; basement - Tan-red fire brick	Tan/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
259 *511803234-0021*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
260 *511803234-0022*	Paper machine #3; basement - Gray metallic brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
261 *511803234-0023*	Paper machine #3; basement - Tan-red fire brick	Tan/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
262 *511803234-0024*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
263 *511803234-0025*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
264 *511803234-0026*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
265 *511803234-0027*	Paper machine #3; basement - Brown fire brick	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
266 *511803234-0028*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
267 *511803234-0029*	Paper machine #3; basement - Cream fire brick	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
268 *511803234-0030*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
269 *511803234-0031*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
270 *511803234-0032*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
271 *511803234-0033*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
272 *511803234-0034*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
273 *511803234-0035*	Paper machine #3; basement - Orange fire brick	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
274 *511803234-0036*	Paper machine #3; basement - Gray fire brick	Gray Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
275 *511803234-0037*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
276 *511803234-0038*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
277 *511803234-0039*	Paper machine #3; basement - Orange fire brick	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
278 *511803234-0040*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
279 *511803234-0041*	Garage adj. to guard shack - Transite siding	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
280-Cove Base *511803234-0042*	Garage adj. to guard shack - 4" Green cove with brown mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
280-Mastic *511803234-0042A*	Garage adj. to guard shack - 4" Green cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
281-Cove Base *511803234-0043*	Office adj to guard shack; 1st floor: entry - 4" Gray cove with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
281-Mastic *511803234-0043A*	Office adj to guard shack; 1st floor: entry - 4" Gray cove with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282-Cove Base *511803234-0044*	Office adj to guard shack; 1st floor; hallway - 4" Black cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282-Mastic *511803234-0044A*	Office adj to guard shack; 1st floor; hallway - 4" Black cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283-Cove Base *511803234-0045*	Office adj to guard shack; 1st floor; restroom - 6" Gray cove with white mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283-Mastic *511803234-0045A*	Office adj to guard shack; 1st floor; restroom - 6" Gray cove with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
284-Cove Base *511803234-0046*	Office adj to guard shack; 1st floor; side room - 4" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
284-Mastic *511803234-0046A*	Office adj to guard shack; 1st floor; side room - 4" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
285-Cove Base *511803234-0047*	Office adj to guard shack; 1st floor; side room - 4" Tan cove with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
285-Mastic *511803234-0047A*	Office adj to guard shack; 1st floor; side room - 4" Tan cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
286 *511803234-0048*	Office adj to guard shack - 12"x12" White dot ceiling tile	Brown/White Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
287 *511803234-0049*	Office adj to guard shack - 4'x2' White D&F drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
288-Floor Tile *511803234-0050*	Office adj to guard shack - 9"x9" White VFT with black mastic	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
288-Mastic *511803234-0050A*	Office adj to guard shack - 9"x9" White VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
289-Floor Tile *511803234-0051*	Office adj to guard shack - 12"x12" Beige VFT with black mastic	Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
289-Mastic *511803234-0051A*	Office adj to guard shack - 12"x12" Beige VFT with black mastic	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
290-Flooring *511803234-0052*	Office adj to guard shack - Gray sheet vinyl with black mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
290-Mastic *511803234-0052A*	Office adj to guard shack - Gray sheet vinyl with black mastic	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
291-Carpet *511803234-0053*	Office adj to guard shack - Blue carpet with yellow mastic	Gray Fibrous Homogeneous	85% Synthetic	15% Non-fibrous (Other)	None Detected
291-Mastic *511803234-0053A*	Office adj to guard shack - Blue carpet with yellow mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
292-Fiberboard *511803234-0054*	Office adj to guard shack - Brown wall mastic with cork board	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
292-Mastic *511803234-0054A*	Office adj to guard shack - Brown wall mastic with cork board	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
293-Drywall *511803234-0055*	Office adj to guard shack - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 2% Micaceous Flakes 16% Non-fibrous (Other)	None Detected
293-Joint Compound *511803234-0055A* *Inseparable paint / coating layer included in analysis*	Office adj to guard shack - Drywall with joint compound	White Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
294-Drywall *511803234-0056*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 18% Non-fibrous (Other)	None Detected
294-Texture *511803234-0056A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
295-Drywall *511803234-0057*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
295-Texture *511803234-0057A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
296-Drywall *511803234-0058*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
296-Texture *511803234-0058A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
297-Texture *511803234-0059*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
297-Tape *511803234-0059A*	Office adj to guard shack - Knockdown wall texture on wood	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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EMSL Order: 511803234
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
297-Texture *511803234-0059B*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
298 *511803234-0060*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
299 *511803234-0061*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		55% Ca Carbonate 43% Non-fibrous (Other)	2% Chrysotile
300-Insulation *511803234-0062*	Office adj to guard shack - Pink insulation with black paper backing	Pink Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
300-Backing *511803234-0062A*	Office adj to guard shack - Pink insulation with black paper backing	Brown/Black/Silver Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
301-Vinyl Sheet Flooring *511803234-0063*	Guard shack - Beige sheet vinyl with yellow mastic	Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
301-Mastic *511803234-0063A*	Guard shack - Beige sheet vinyl with yellow mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
302 *511803234-0064*	Guard shack - White ceiling panel	Tan/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
303-Floor Tile *511803234-0065*	Portable office (north of guard shack) - 12"x12" White VFT with brown	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
303-Mastic *511803234-0065A*	Portable office (north of guard shack) - 12"x12" White VFT with brown	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
304-Floor Tile *511803234-0066*	Portable office (north of guard shack) - 12"x12" Dark gray VFT with tan mastic	Gray/Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
304-Mastic *511803234-0066A*	Portable office (north of guard shack) - 12"x12" Dark gray VFT with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
305 *511803234-0067*	Portable office (north of guard shack) - White window caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
306-Stair Tread *511803234-0068*	Mill offices; stairs - Gray stair tread with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
306-Mastic *511803234-0068A*	Mill offices; stairs - Gray stair tread with cream mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
307 *511803234-0069*	Boiler plant; 1st floor; A boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
308 *511803234-0070*	Boiler plant; 1st floor; A boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
309 *511803234-0071*	Boiler plant; 1st floor; A boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
310 *511803234-0072*	Boiler plant; 1st floor; B boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
311 *511803234-0073*	Boiler plant; 1st floor; B boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
312 *511803234-0074*	Boiler plant; 1st floor; B boiler; east side - Silver paint on metal boiler	Silver/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
313 *511803234-0075*	Boiler plant; 1st floor; C boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
314 *511803234-0076*	Boiler plant; 1st floor; C boiler; south side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
315 *511803234-0077*	Boiler plant; 1st floor; C boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
316 *511803234-0078*	Boiler plant; 1st floor; D boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
317 *511803234-0079*	Boiler plant; 1st floor; D boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
318 *511803234-0080*	Boiler plant; 1st floor; D boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
319 *511803234-0081*	Boiler plant; 1st floor; green boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
320 *511803234-0082*	Boiler plant; 1st floor; green boiler; south side - Silver paint on metal boiler	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
321-Silver Paint *511803234-0083*	Boiler plant; 1st floor; green boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
321-Paint *511803234-0083A*	Boiler plant; 1st floor; green boiler; east side - Silver paint on metal boiler	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322 *511803234-0084*	Boiler plant; 1st floor; silver boiler; east side - Silver paint on metal boiler	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
323 *511803234-0085*	Boiler plant; 1st floor; silver boiler; west side - Silver paint on metal boiler	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
324 *511803234-0086*	Boiler plant; 1st floor; silver paint; north side - Silver paint on metal boiler	Brown/Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
325 *511803234-0087*	Boiler plant; 1st floor; A boiler; south side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
326 *511803234-0088*	Boiler plant; 1st floor; B boiler; south side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 15% Glass	80% Non-fibrous (Other)	None Detected
327 *511803234-0089*	Boiler plant; 1st floor; C boiler; north side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
328 *511803234-0090*	Boiler plant; 1st floor; A boiler; west side - Black sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected
329 *511803234-0091*	Boiler plant; 1st floor; D boiler; west side - Black sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected
330 *511803234-0092*	Boiler plant; 1st floor; C boiler; east side - Black sealant @ boiler hatch	Gray/Black Non-Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
331 *511803234-0093*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	10% Cellulose 80% Glass	10% Non-fibrous (Other)	None Detected
332 *511803234-0094*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
333 *511803234-0095*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
334 *511803234-0096*	Boiler plant; 1st floor; A boiler; south side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
335-Caulk *511803234-0097*	Boiler plant; 1st floor; C boiler; south side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
335-Caulk *511803234-0097A*	Boiler plant; 1st floor; C boiler; south side - White caulking with insulation	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Caulk *511803234-0098*	Boiler plant; 1st floor; D boiler; north side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Insulation *511803234-0098A*	Boiler plant; 1st floor; D boiler; north side - White caulking with insulation	Gray Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
337 *511803234-0099*	Boiler plant; 1st floor; A boiler; north side - Red boiler insulation	Red Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	10% Chrysotile
338 *511803234-0100*	Boiler plant; 1st floor; B boiler; north side - Red boiler insulation	Brown/Red Non-Fibrous Homogeneous	60% Min. Wool	32% Non-fibrous (Other)	8% Chrysotile
339 *511803234-0101*	Boiler plant; 1st floor; D boiler; south side - Red boiler insulation	Red Non-Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	10% Chrysotile
340 *511803234-0102*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	White Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
341 *511803234-0103*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	Tan/White Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
342 *511803234-0104*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	Tan/White Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
343 *511803234-0105*	Boiler plant; adj. to south side of green boiler - TSI pipe insulation debris (spill on ground)	White Fibrous Homogeneous	35% Synthetic	2% Mica 63% Non-fibrous (Other)	None Detected
344 *511803234-0106* *The sample group is not homogeneous*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Non-Fibrous Homogeneous		65% Non-fibrous (Other)	35% Amosite
345 *511803234-0107*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Fibrous Homogeneous		65% Non-fibrous (Other)	35% Amosite
346 *511803234-0108*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Fibrous Homogeneous		70% Non-fibrous (Other)	30% Amosite
347-Insulation *511803234-0109*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
347-Insulation *511803234-0109A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
348-Insulation *511803234-0110*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
348-Insulation *511803234-0110A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
349-Insulation *511803234-0111*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
349-Insulation *511803234-0111A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
350 *511803234-0112*	Boiler plant; 1st floor; silver boiler; east side - Pipe insulaiton hard; off-white	Beige Non-Fibrous Homogeneous	3% Glass	97% Non-fibrous (Other)	None Detected
351 *511803234-0113*	Boiler plant; 1st floor; green boiler; south side - Pipe insulation (hard; off-white)	Beige Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
352 *511803234-0114*	Boiler plant; 1st floor; green boiler; south side - Pipe insulation (hard; off-white)	Beige Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
353 *511803234-0115*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		50% Non-fibrous (Other)	10% Amosite 40% Chrysotile
354 *511803234-0116*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	15% Amosite 45% Chrysotile
355 *511803234-0117*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	15% Amosite 45% Chrysotile
356 *511803234-0118*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
357 *511803234-0119*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
358 *511803234-0120*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
359 *511803234-0121*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
360 *511803234-0122*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected

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361 *511803234-0123*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray/White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
362 *511803234-0124*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
363 *511803234-0125*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
364 *511803234-0126*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
365 *511803234-0127*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
366 *511803234-0128*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
367 *511803234-0129*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
368 *511803234-0130*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
369 *511803234-0131*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
370 *511803234-0132*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
371 *511803234-0133*	Recoever boiler; 1st floor - Boiler insualtion	Gray Fibrous Homogeneous	45% Min. Wool	49% Non-fibrous (Other)	6% Chrysotile
372 *511803234-0134*	Recoever boiler; 1st floor - Boiler insualtion	Gray Fibrous Homogeneous	50% Min. Wool	42% Non-fibrous (Other)	8% Chrysotile
373 *511803234-0135* *Result includes a small amount of inseparable attached material*	Recoever boiler; 1st floor - Boiler insualtion	Gray/White Fibrous Homogeneous	55% Min. Wool	30% Non-fibrous (Other)	7% Amosite 8% Chrysotile
374 *511803234-0136*	Recoever boiler; 1st floor - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
375 *511803234-0137*	Recoever boiler; 1st floor - Silver paint on metal boiler	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
376 *511803234-0138*	Recoever boiler; 1st floor - Silver paint on metal boiler	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
377 *511803234-0139*	Maintenance shop - southern exterior - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
378 *511803234-0140* *Inseparable paint / coating layer included in analysis*	Boiler plant; 1st floor - Transite siding	Gray/Silver Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
379 *511803234-0141*	South substation; 2nd floor; exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile <1% Crocidolite
380 *511803234-0142*	Paper machine #3; 1st floor; west - exterior - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
381 *511803234-0143*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
382 *511803234-0144*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	17% Synthetic 10% Glass	73% Non-fibrous (Other)	None Detected
383 *511803234-0145*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	17% Synthetic 10% Glass	73% Non-fibrous (Other)	None Detected
384 *511803234-0146*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
385 *511803234-0147*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
386 *511803234-0148*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
387 *511803234-0149*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
388 *511803234-0150*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	15% Synthetic 5% Glass	80% Non-fibrous (Other)	None Detected
389 *511803234-0151*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
390 *511803234-0152*	Carpenter shop; box D - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
391 *511803234-0153*	Carpenter shop; lone pipe run - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
392 *511803234-0154*	Carpenter shop; box E - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
393 *511803234-0155*	Carpenter shop; box F - Block insulation	Gray Fibrous Homogeneous	5% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 20% Non-fibrous (Other)	None Detected
394 *511803234-0156*	Carpenter shop; box G - Block insulation	Gray Fibrous Homogeneous	15% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 10% Non-fibrous (Other)	None Detected

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395 *511803234-0157*	Carpenter shop; box H - Block insulation	Gray Fibrous Homogeneous	15% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 10% Non-fibrous (Other)	None Detected
396 *511803234-0158*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
397 *511803234-0159*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
398 *511803234-0160*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 5% Glass 3% Wollastonite	62% Non-fibrous (Other)	None Detected
399 *511803234-0161*	Carpenter shop; box J - 4" Pipe insul	White Fibrous Homogeneous	25% Cellulose 20% Synthetic 10% Glass	45% Non-fibrous (Other)	None Detected
400 *511803234-0162*	Carpenter shop; box J - 4" Pipe insul	White/Green Fibrous Homogeneous	25% Cellulose 15% Synthetic 5% Glass	55% Non-fibrous (Other)	None Detected
401 *511803234-0163*	Carpenter shop; box J - 4" Pipe insul	White/Green Fibrous Homogeneous	30% Cellulose 10% Synthetic 3% Glass	57% Non-fibrous (Other)	None Detected
402 *511803234-0164*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	30% Cellulose 5% Synthetic	65% Non-fibrous (Other)	None Detected
403 *511803234-0165*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	35% Cellulose 5% Synthetic	60% Non-fibrous (Other)	None Detected
404 *511803234-0166*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	35% Cellulose 5% Synthetic	60% Non-fibrous (Other)	None Detected
405 *511803234-0167*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	25% Cellulose 15% Synthetic 3% Glass	57% Non-fibrous (Other)	None Detected
406 *511803234-0168*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	25% Cellulose 15% Synthetic 2% Glass	58% Non-fibrous (Other)	None Detected
407 *511803234-0169*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	30% Cellulose 20% Synthetic	50% Non-fibrous (Other)	None Detected
408 *511803234-0170*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	20% Synthetic	3% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
409 *511803234-0171*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
410 *511803234-0172*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
411 *511803234-0173*	Carpenter shop; box N - 12" 1/2 Pipe insul	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
412-Pipe Insulation *511803234-0174*	Carpenter shop; box N - 12" (Full) pipe insul with fiber wrap	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
412-Wrap *511803234-0174A*	Carpenter shop; box N - 12" (Full) pipe insul with fiber wrap	Gray/Beige Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected

Initial report from: 10/30/2018 11:15:54

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EMSL Order: 511803234
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
413-Pipe Insulation *511803234-0175*	Carpenter shop; box N - 4.5" Pipe with metal wrap	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
413-Wrap *511803234-0175A*	Carpenter shop; box N - 4.5" Pipe with metal wrap	Beige Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
414 *511803234-0176*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
415 *511803234-0177*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	25% Synthetic 5% Glass	70% Non-fibrous (Other)	None Detected
416 *511803234-0178*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
417 *511803234-0179*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
418 *511803234-0180*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
419 *511803234-0181*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
420 *511803234-0182*	Carpenter shop; box Q - 12" Pipe insul (broken)	White Fibrous Homogeneous	20% Synthetic 10% Glass	70% Non-fibrous (Other)	None Detected
421 *511803234-0183* *Result includes a small amount of inseparable attached material*	Carpenter shop; box Q - 12" Pipe insul (broken)	Gray/White Fibrous Homogeneous	15% Cellulose 25% Synthetic 5% Glass	55% Non-fibrous (Other)	None Detected
422 *511803234-0184*	Carpenter shop; box Q - 12" Pipe insul (broken)	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
423 *511803234-0185*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
424 *511803234-0186*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	25% Synthetic 5% Glass	70% Non-fibrous (Other)	None Detected
425 *511803234-0187*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
426 *511803234-0188*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	20% Synthetic	3% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
427 *511803234-0189*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
428 *511803234-0190*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
429-Pipe Insulation *511803234-0191*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Peach Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected

Initial report from: 10/30/2018 11:15:54

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EMSL Order:	511803234
Customer ID:	APXW42
Customer PO:	
Project ID:	

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
429-Wrap *511803234-0191A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
430-Pipe Insulation *511803234-0192*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	White Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
430-Wrap *511803234-0192A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
431-Pipe Insulation *511803234-0193*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
431-Wrap *511803234-0193A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
432 *511803234-0194*	Carpenter shop - White powder in SGAL bucket	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
433 *511803234-0195*	Carpenter shop - Finishing concrete powder spill	Gray Fibrous Homogeneous	10% Cellulose 70% Glass	20% Non-fibrous (Other)	None Detected
434 *511803234-0196*	Carpenter shop - White insulation spill	White Fibrous Homogeneous	3% Cellulose 60% Glass	37% Non-fibrous (Other)	None Detected
435 *511803234-0197*	Carpenter shop; 1st floor - 12" Pipe insulation	White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
436 *511803234-0198*	Carpenter shop; 1st floor - 12" Pipe insulation	White Fibrous Homogeneous	20% Cellulose 3% Glass	77% Non-fibrous (Other)	None Detected
437 *511803234-0199*	Carpenter shop; 1st floor; spill on floor - 12" Pipe insulation	White Fibrous Homogeneous	25% Cellulose 5% Glass	70% Non-fibrous (Other)	None Detected
438 *511803234-0200*	Carpenter shop; 1st floor - White rope gasket	White Fibrous Homogeneous	75% Synthetic	25% Non-fibrous (Other)	None Detected

Analyst(s)

Ehrin Baul (67)
Jason Stuhr (142)
Rudy Baum (33)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

Initial report from: 10/30/2018 11:15:54

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EMSL Order:	511803406
Customer ID:	APXW42
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons	**Phone:**	(206) 399-5267
	Apex Companies, LLC	**Fax:**	
	600 Stewart Street	**Received Date:**	11/12/2018 8:23 AM
	Suite 400	**Analysis Date:**	11/13/2018 - 11/14/2018
	Seattle, WA 98101	**Collected Date:**	
Project:	2449-00.002		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
439 *511803406-0001*	Light gray window glazing	Gray/Beige Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
440-Tar Paper *511803406-0002*	Black fiber paper	Gray/Black Fibrous Homogeneous	30% Glass	10% Quartz 60% Non-fibrous (Other)	None Detected
440-Tar *511803406-0002A*	Black fiber paper	Brown/Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
441 *511803406-0003*	Adj. to paper machine #3, river side - Pipe vib. Pad (black)	Black Fibrous Homogeneous		35% Non-fibrous (Other)	65% Chrysotile
442 *511803406-0004*	Adj. to paper machine #3; tank foundation - Black sealant	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
443-Gasket *511803406-0005*	Adj. to paper machine #3; tank foundation - Black gasket	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
443-Mastic *511803406-0005A*	Adj. to paper machine #3; tank foundation - Black gasket	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
444-Sealant *511803406-0006*	Adj. to paper machine #3; under - Black pipe sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
444-Backing *511803406-0006A*	Adj. to paper machine #3; under - Black pipe sealant	Brown/Black Fibrous Homogeneous	5% Synthetic	35% Non-fibrous (Other)	60% Chrysotile
445 *511803406-0007*	Office adj to guard shack; ext-East - Gray paint on CMU blocks	Gray/Green/Beige Non-Fibrous Homogeneous		3% Quartz 97% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
446 *511803406-0008*	Woolen mill ext-West - Fiber pipe wrap	White/Yellow Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
447 *511803406-0009*	Deink-H1-D-tank - Tank material	Gray/Green Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
448 *511803406-0010*	Deink-H1-D-tank - Tank material	White/Green Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
449 *511803406-0011*	Tank adj to P.M. #1 - Textured coating on tank	Black Non-Fibrous Homogeneous		3% Quartz 87% Non-fibrous (Other)	10% Chrysotile
450 *511803406-0012*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)

Initial report from: 11/13/2018 16:26:51

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EMSL Order: 511803406
Customer ID: APXW42
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Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
451 *511803406-0013*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
452 *511803406-0014*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
453 *511803406-0015*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
454 *511803406-0016* *Inseparable paint / coating layer included in analysis* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
455 *511803406-0017* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
456-Skim Coat 1 *511803406-0018* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
456-Skim Coat 2 *511803406-0018A* *Inseparable paint / coating layer included in analysis* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
457 *511803406-0019* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
458 *511803406-0020* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
460 *511803406-0022* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
461 *511803406-0023*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
462 *511803406-0024*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
463 *511803406-0025*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
464 *511803406-0026*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
465 *511803406-0027*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
466 *511803406-0028*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

Initial report from: 11/13/2018 16:26:51

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EMSL Order: 511803406
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
467 *511803406-0029*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
468 *511803406-0030*	Weld shop-under transite - Black felt paper	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
469-Concrete *511803406-0031*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
469-Foam *511803406-0031A*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
469-Rubber Membrane *511803406-0031B*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Tan/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
469-Sealant *511803406-0031C*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
469-Built Up Roofing *511803406-0031D*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Black Non-Fibrous Homogeneous	10% Glass	3% Quartz 87% Non-fibrous (Other)	None Detected
459 *511803406-0032*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

The sample group is not homogeneous

Analyst(s)
Ehrin Baul (36)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

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

Initial report from: 11/13/2018 16:26:51

EMSL Analytical, Inc.

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EMSL Order:	511803406
Customer ID:	APXW42
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons Apex Companies, LLC 600 Stewart Street Suite 400 Seattle, WA 98101	**Phone:**	(206) 399-5267
		Fax:	
		Received:	11/12/2018 8:23 AM
		Analysis Date:	11/30/2018
		Collected:	
Project:	2449-00.002		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
455 *511803406-0017*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
456-Skim Coat 2 *511803406-0018A*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**

Analyst(s)

Jason Stuhr (2)

Lauren Kerber, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from: 12/03/2018 09:24:51

OrderID: 511803160

EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*:

#511803160

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: APEX COMPANIES	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 3015 SW FIRST AVE	
City: PORTLAND **State/Province:** OR	**Zip/Postal Code:** 97201 **Country:** USA
Report To (Name): DAN FITZGIBBONS	**Telephone #:**
Email Address: dan.fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 2449-00.003	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: OR	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
☒ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

SOME

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 10/15 to 10/18

Samplers Name: JOHN HATHAWAY & CHRIS CLOUGH **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description

SEE ATTACHED PAGES

Client Sample # (s): 001 to 238 **Total # of Samples:** 238

Relinquished (Client): **Date:** 10/18/18 **Time:** 1600

Received (Lab): **Date:** 10/19/18 **Time:** 8:30AM

Comments/Special Instructions:
POSITIVE STOP REQUESTED ON HIGHLIGHTED SAMPLES. PCM EA

Controlled Document – Asbestos COC – R6 – 11/29/2012

Page 1 of _____ pages

APEX

ASBESTOS INSPECTIC ORM #511803160

Page 1 of

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
001		BROWN/GRAY WALL MASTIC	TRUCK DUMP – SOUTH WALL BEAM	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	10	LF
002		TAN FIRE BRICK DEBRIS	TRUCK DUMP – SOUTH WALL	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	10 BRICKS	
003		C.A.B	TRUCK DUMP – ELECT. ROOM	Surf. / (Misc.) / TSI	(Y) / N	G / (F) / P	3,500	SF
004		4'x2 D&F DROP CEILING PANEL	DEINK ONP REPULPER; 2ND FLOOR; CONTROL ROOM	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	350	SF
005		DRYWALL WITH JOINT COMPOUND		Surf. / (Misc.) / TSI	Y / (N)	G / (F) / P	500	SF
006		4" GRAY COVE WITH CREAM MASTIC		Surf. / (Misc.) / TSI	Y / (N)	G / (F) / (P)	250	SF
007		PINK INSULATION W/TH PAPER & FOIL BACKING		Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	300	SF
008		ROOFING (ASPHALTIC)	; ROOF	Surf. / (Misc.) / TSI	Y / (N)	G / (F) / P		
009	1	SKIM COATING OVER CONCRETE	; 3RD STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
010	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
011	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
012	1		; 4TH STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
013	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
014	1		; 1ST STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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015	1	SKIM COATING OVER CONCRETE	DE-INK-ON-P-- DEFIBER; 1ST FLOOR	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		
016		BROWN FIBER DEBRIS	; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	80	SF
017		GASKET IN DEBRIS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	2 EACH	
018		ASPHALT ROOFING	; 1ST FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
019		WHITE WALL MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	<5	LF
020		GROUT - ASSOCIATED WITH GLASS BLOCKS	; EXTERIOR-SOUTH	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	50	LF
021		TAN ~~MASTIC~~ MASTIC DOTS	PAPER MACHINE #4; BASEMENT	Surf. | Misc. | TSI	Y | N	G | F | P	2	SF
022		12" x 12" BLUE VFT WITH YELLOW MASTIC & WHITE LEVELING	; 1ST FLOOR; NORTH CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	300	SF
024		4" TAN COVE WITH TAN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	~~300~~ 70	SF
023		12" x 12" WHITE CEILING TILES WITH MASTIC DOTS		Surf. | Misc. | TSI	Y | N	G | F | P	~~200~~ 300	LF
025		TRANSITE SIDING	; EAST EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
026		TAN SHEET VINYL WITH MASTIC	; MEN'S RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	100	LF
027		WHITE FRP WITH TAN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	250	SF
028		12" x 12" GRAY VINYL FLOOR TILE WITH MASTIC	; SOUTH CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	250	SF

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029		YELLOW PEBBLE PATTERNED SHEET VINYL	PAPER MACHINE #4; 1ST FLOOR; COMPUTER ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	50	SF
030		4" BROWN COVE BASE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
031	2	WALL TEXTURE OVER SPECKLED TEXTURE OVER CMU BLOCK		(Surf.) | Misc. | TSI	Y | N	G | F | (P)	<1,000	SF
032	2			(Surf.) | Misc. | TSI	Y | N	G | F | (P)	RE:31	
033	2			(Surf.) | Misc. | TSI	Y | N	G | (F) | P	RE:31	
034		CMU BLOCK GROUT		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
035		12" X 12" WHITE CEILING TILES WITH MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | P	150	SF
036		TERRACOTTA TILE WITH WHITE GROUT	; HATCH	Surf. | (Misc.) | TSI	Y | (N)	G | F | P		
037		4" GRAY COVE WITH MASTIC	; WOMEN'S RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	75	LF
038		TAN WALL PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
039		WHITE SINK UNDERCOATING		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1 SINK	
040		WINDOW GLAZING	; EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	25	LF
041		SINK UNDERCOATING	; 2ND FLOOR; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1 SINK	
042		BLUE LAMINATE COUNTERTOP		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	25	SF

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043		4'X2 CEILING PANEL	#4 FINISHING; 2ND FLOOR; BATHROOM	Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	150	SF
044		CARPET OVER FABRIC FLOORING	#4 FINISHING; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	200	SF
045		9"x9" GREEN VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	100	SF
046		12"x12" GREEN VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	100	SF
047		2" BROWN COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
048		BLACK RUBBER WITH MASTIC & FOAM OVER SHEET VINYL WITH CREAM MASTIC	PAPER MACHINE #4; 2ND FLOOR; NW EXTERIOR LAB	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	400	SF
049		6" BROWN COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	~~75~~	LF
050		BLACK FIBER INSULATION WITH BLACK FELT		Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	15	LF
051		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	600	SF
052		BUILT-UP ROOFING MATERIAL	; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	400	SF
053		TAN ROOFING CAULK WITH SILVER PAINT		Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	20	LF
054		2x2-PATTERNED 4'x2' DROP CEILING PANEL	#4 FINISHING; 1ST FLOOR; OFFICE	Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	400	SF
055		TAN SHEET VINYL FLOOR WITH TAN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	20	SF
056		INSULATION WITH PAPER BACKING		Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	1,000	SF

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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057		FELT CLOTH	DIG - EXTERIOR (EAST)	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	200	SF
058		TERRACOTTA TILE WITH WHITE GROUT	FORMER TANK EAST OF DIG	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	900	SF
059		TRANSITE SIDING	SULPHITE PLANT; EAST EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
060		SILVER PAINT	SULPHITE PLANT; EXT SPHERE TANK	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
061		TAN SHEET VINYL FLOORING WITH CREAM MASTIC	WELD SHOP OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G (F) P	60	SF
062	3	DRYWALL WITH WALL TEXTURE		(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	350	SF
063	3			(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	RE: 062	
064	3			(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	RE: 062	
065		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G (F) P	350	SF
066		INSULATION WITH PAPER	RECEIVING & STORE ROOM	Surf. | Misc. | (TSI)	(Y) | N	(G) | F | P	1,000	SF
067		12" x 12" TAN VFT WITH ORANGE MASTIC	RECEIVING & STORE ROOM OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	300	SF
068		4" GRAY COVE BASE		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	70	SF
069		12" x 12" WHITE DOT CEILING TILE WITH TAN DOTS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	300	SF
070		CMU BLOCK GROUT	RECEIVING & STORE ROOM	Surf. | (Misc.) | TSI	Y | (N)	G (F) P		

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071		CEILING FIREPROOFING DEBRIS	MAINTENANCE SHOP	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
072		12" x 12" BLUE & WHITE VFT WITH TAN MASTIC	MILL OFFICES, 2ND FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	350	SF
073		4" GRAY COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	LF
074		4' x 2' D&F CEILING PANEL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	350	SF
075		12" x 12" GRAY VFT WITH MASTIC & BLACK BACKING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	350	SF
076		4" BLACK COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	LF
077		4" TAN COVE WITH CREAM MASTIC	; 3RD FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1,000	LF
078		4" GRAY COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	800	LF
079		12" x 12" BLUE VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	650	SF
080		BLUE CARPET WITH CREAM MASTIC & GRAY LEVELER		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1,200	SF
081		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
082		4' x 2' D&F DROP CEILING PANEL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	1,500	SF
083		WHITE CEMENTITIOUS WALL PANEL WITH BROWN MASTIC	; MEN'S RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
084		4" BLACK COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	425	LF

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085		4" BROWN COVE WITH BROWN MASTIC	MILL OFFICES; 3RD FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	600	LF
086		4" LIGHT GRAY COVE WITH TAN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | F | P	200	LF
087		12" X 12" POT CEILING TILE WITH BLACK MASTIC DOTS		Surf. | (Misc) | TSI	Y | (N)	G | F | P	350	SF
088		~~YELLOW~~ 4'x2' CEILING PANEL YELLOW WITH WHITE LAYER		Surf. | (Misc) | TSI	Y | (N)	G | F | P	800	SF
089		12" X 12" BROWN VFT WITH BLACK MASTIC	; ; WESTERN OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	1,300	SF
090		GRAY CARPET WITH CREAM MASTIC OVER TAN VFT WITH BLACK MASTIC	; NORTH OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	250	SF
091		DARK GRAY CARPET WITH CREAM MASTIC	; NORTH OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	160	SF
092		12" X 12" TAN VFT WITH BLACK MASTIC	; EASTERN OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	720	SF
093		RED EPOXY FLOORING WITH CREAM MASTIC	; BREAK ROOM	Surf. | Misc. | TSI	Y | (N)	G | F | P	800	SF
094		2" X 2" TAN CERAMIC TILE WITH GRAY GROUT & LEVELING	; LOCKER ROOM	Surf. | (Misc) | TSI	Y | (N)	G | F | P	150	SF
095		WHITE CERAMIC COVE BASE		Surf. | (Misc) | TSI	Y | (N)	G | F | P	80	LF
096		GREEN EPOXY FLOORING WITH CREAM MASTIC	; STORE ROOM	Surf. | (Misc) | TSI	Y | (N)	G | F | P	100	SF
097	4	WALL TEXTURE ASSOCIATED WITH OFFICE DRYWALL		Surf. | Misc. | TSI	Y | N	G | F | P	<1000	SF
098	4			Surf. | Misc. | TSI	Y | N	G | F | P	RE 097	

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099	4	WALL TEXTURE ASSOCIATED WITH OFFICE DRYWALL	MILL OFFICES; 3RD FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 097	
100		BUILT-UP ROOFING	; 5TH FLOOR; ROOF	Surf. | Misc. | TSI	Y | N	G | F | P		
101		TEXTURED VINYL SHEET FLOORING WITH CREAM MASTIC	; 5TH FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	550	SF
102	5	ORANGE PEEL DRYWALL TEXTURE		Surf. | Misc. | TSI	Y | N	G | F | P	5,250	SF
103	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
104	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
105	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
106	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
107		WHITE FRP WITH MASTIC	; RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	150	SF
108		LAMINATE COUNTERTOP	; BREAK AREA	Surf. | Misc. | TSI	Y | N	G | F | P	20	SF
109		WHITE WALL PANEL WITH BROWN MASTIC	; 4TH FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	480	SF
110		RED SHEET VINYL WITH CREAM MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	275	SF
111		12" X 12" GRAY VFT WITH TAN MASTIC	TMP REFINER LINES; 2ND STORY; CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	405	SF
112		4" GRAY COVE WITH CREAM		Surf. | Misc. | TSI	Y | N	G | F | P	84	LF

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113		RESIDUAL 12"x12" DARK TAN VFT WITH BLACK MASTIC	TMP REFINER LINES; 2ND FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	<10	SF
114		YELLOW & BLACK SEALANT ON EXT. METAL PLATES	TMP REFINER LINES; EXTERIOR - EAST	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	<50	SF
115		TRANSITE SIDING	TMP REJECT REFINING & SCREENING - EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
116		BLACK FIBEROUS DEBRIS	TMP REJECT; 2ND FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	5	SF
117		4" GRAY COVE WITH BROWN MASTIC	TMP AREA; 1ST FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
118		4" BLUE COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
119		4'x2' D&F DROP CEILING PANELS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	770	SF
120		GRAY FLOOR LEVELER		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	770	SF
121		GRAY LAMINATE COUNTERTOP	TMP LAB; 1ST FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | P	40	SF
122		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | P	1,100	SF
123		TERRACOTTA TILE	PAPER MACHINE #1; 1ST FLOOR; TANK PIT	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
124		GRAY WALL [illegible] MASTIC	PAPER MACHINE #1; 1ST FLOOR; EXT OF N. CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	7	LF
125		12"x12" WHITE DOT CEILING TILE WITH BROWN MASTIC DOTS		Surf. | (Misc.) | TSI	(Y) | N	G | F | P	125	SF
126		YELLOW WITH WHITE PAPER INSULATION		Surf. | Misc. | (TSI)	(Y) | N	G | F | P	10	LF

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APEX

ASBESTOS INSPECTION FORM

#511803160

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
127		PINK CEILING INSULATION WITH BROWN PAPER	PAPER MACHINE #1, 1ST FLOOR, EXT OF NORTHERN CONTROL ROOM	Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	125	SF
128		GRAY CARPET WITH TAN MASTIC	PAPER MACHINE #1, 1ST FLOOR, "MICROWAVE" ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	250	SF
129		TRANSITE SIDING	PAPER MACHINE #1, EXTERIOR - SOUTH	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
130		BLACK DOT PATTERN VFT WITH WHITE MASTIC	PAPER MACHINE #1, 1ST FLOOR, RAISED OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	SF
131		4" BLACK COVE WITH WHITE MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	44	LF
132		WHITE FRP WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	480	SF
133		4'x2' DOT DROP CEILING PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	SF
134	6	SKIM COAT OVER CMU	PAPER MACHINE #1, 1ST FLOOR	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
135	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
136	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
137	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
138	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
139	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
140	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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141		TERRACOTTA TILE	PAPER MACHINE #1; 1ST FLOOR; FILTRATE TANK	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
142		CARPET OVER CARPET	PAPER MACHINE #1; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	200	SF
143		WHITE EXTERIOR CAULKING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	250	LF
144		BUILT-UP ROOFING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
145		9"x9" GREEN VFT WITH BLACK MASTIC	SULPHITE PLANT; 3RD STORY; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	450	SF
146		BROWN MASTIC ON WALL FROM REMOVE COVE		Surf. | (Misc.) | TSI	Y | N	G | F | (P)	100	LF
147		CMU BLOCK GROUT		Surf. | (Misc.) | TSI	Y | N	G | (F) | P		
148	7	SKIM COAT OVER CMU BLOCKS		(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	<1,000	SF
149	7			(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	RE: 148	
150	7			(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	RE: 148	
151		C.A.B	SULPHITE PLANT; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
152		FIBER WALL PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	200	SF
153		C.A.B PANEL WITH BLACK MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
154		ASPHALTIC STAIR TREAD	SULPHITE PLANT; STAIRS 4TH STORY TO ROOF	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	28	SF

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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155		BUILT-UP SILVER ROOFING	SULPHITE PLANT; ROOF	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)		
156		CONCRETE BLOCK WITH GRAY GROUT	TMP HI-D TANK	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P		
157		GRAY SEALANT ON HVAC DUCT	RECOVERY BOILER; BASEMENT; MEN'S LOCKERROOM	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	195	LF
158		FRP WITH CREAM MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	800	SF
159		BLUE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	45	SF
160		YELLOW FIBER INSULATION WITH BLACK "JOHN-MANVILLE" PAPER	BOILER PLANT; BASEMENT; ADJ. TO SODIUM HYDROSULFIDE TANKS	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	350	SF
161		BLACK ASPHALTIC FELT		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	350	SF
162		12" x 12" WHITE D&F CEILING TILES WITH TAN MASTIC DOTS	PIPE SHOP; 1ST FLOOR;	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	100	SF
163		BLUE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	20	SF
164		CMU BLOCK GROUT		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P		
165		WHITE SINK UNDERCOATING	PIPE SHOP; 2ND FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	1 SINK	
166		CERAMIC ELECT. INSULATOR	ENVIRONMENTAL LAB; WESTERN EXTERIOR	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	1 EACH	
167		12" x 12" CREAM VFT WITH BROWN MASTIC	MILL 0 CONFERENCE ROOM; NURSE'S OFFICE	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	2,200	SF
168		4" BROWN COVE BASE WITH WHITE MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	200	LF

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CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
169		WOOD WALL PANEL WITH ADHESIVE	MILL & CONFERENCE ROOM, 1ST FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	2,000	SF
170		WHITE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	20	SF
171		4'x2' D&F DROP CEILING PANEL		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	1,200	SF
172		9"x9" GREEN VFT WITH BLACK MASTIC	ENVIRONMENTAL LAB, 1ST FLOOR	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	250	SF
173		9"x9" BROWN VFT WITH BLACK MASTIC		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	50	SF
174		4'x2' DOT DROP CEILING PANEL		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	150	SF
175		12"x12" WHITE DOT CEILING TILES WITH GRAY MASTIC DOTS		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	400	SF
176		BLACK SINK UNDERCOATING		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	6 SINKS	
177		4" BLACK COVE WITH BROWN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	300	LF
178		BLUE PLASTIC WALL PANEL WITH BROWN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	1,100	SF
179		BLACK COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	350	SF
180		GREEN SHEET VINYL WITH MASTIC	RAW MATERIAL STORAGE, 2ND STORY	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	100	SF
181		BLACK FIBER PANEL FLOORING		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	275	SF
182		BEIGE SHEET VINYL FLOORING WITH MASTIC		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	2,250	SF

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Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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183		4" BROWN COVE WITH TAN MASTIC	RAW MATERIAL STORAGE; 2ND FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	400	LF
184		FIBEROUS 24" DIA. PLASTIC PIPE		Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P	130	LF
185		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
186		WHITE WINDOW GLAZING	RAW MATERIAL STORAGE; 2ND STORY - EXTERIOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	4,800	LF
187		TSI PIPE WRAP - FIBER WITH PAPER	SULPHITE PLANT; SE EXTERIOR	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	3	LF
188		12" DIA. FIBER INSULATION WITH PAPER	CITY WATER PIPE - SOUTH OF SULPHITE PLANT	Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	50	LF
189	8	9" HARD PIPE INSULATION - WHITE UNDER METAL	PIPE DEBRIS PILE - SOUTH OF SULPHITE PLANT	Surf. | Misc. | (TSI)	Y | N	G | F | P	15	LF
190	8			Surf. | Misc. | (TSI)	Y | N	G | F | P	RE: 189	
191	8			Surf. | Misc. | (TSI)	Y | N	G | F | P	RE: 189	
192	9	WHITE FIBER INSULATION	AUTO SHOP - SOUTHERN WALL	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	2,200	SF
193	9		AUTO SHOP - CEILING	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	RE: 192	
194	9		AUTO SHOP - FLOOR DEBRIS	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	RE: 192	
195		BLACK FIBEROUS SHEET DEBRIS	DEINK HI-D TANK AREA	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	15	SF
196		RED BRICK WITH GRAY MORTAR		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	24	SF

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ASBESTOS INSPECTIC ORM

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
197		GRAY GROUT ASSOCIATED WITH ROCK WALL	[redacted] DEINK HI-D TANK AREA	Surf. (Misc.) TSI	Y (N)	G (F) P		
198		RED 12"x12" BRICKS WITH WHITE GROUT	BUTLER BUILDING	Surf. (Misc.) TSI	Y (N)	G (F) P	130	SF
199	10	GRAY SKIM COAT OVER BRICKS		Surf. (Misc.) TSI	(Y) N	G (F) P	130	SF
200	10			Surf. (Misc.) TSI	(Y) N	G (F) P	RE: 199	
201	10			Surf. (Misc.) TSI	(Y) N	G (F) P	RE: 199	
202		ASPHALTIC DECKING	PAPER MACHINE #2 DECK	Surf. (Misc.) TSI	(Y) N	G (F) P	900	SF
203		GRAY FIBEROUS CLOTH	PAPER MACHINE # 2	Surf. (Misc.) TSI	(Y) N	G (F) P	50	SF
204		YELLOW WALL MASTIC		Surf. (Misc.) TSI	(Y) N	G (F) P	10	LF
205		BLUE LAMINATE COUNTERTOP	MILL D WAREHOUSE; 1ST FLOOR; RESTROOMS	Surf. (Misc.) TSI	Y (N)	G (F) P	20	SF
206		WHITE SINK UNDERCOATING		Surf. (Misc.) TSI	(Y) N	G (F) P	7 SINKS	
207		WHITE FRP		Surf. (Misc.) TSI	Y (N)	G (F) P	360	SF
208		4x2 D&F DROP CEILING PANEL		Surf. (Misc.) TSI	Y (N)	G (F) P	84	SF
209		4" CREAM COVE WITH CREAM MASTIC		Surf. (Misc.) TSI	Y (N)	G (F) P	40	LF
210		YELLOW PIPE WRAP WITH PAPER	MILL D WAREHOUSE; 1ST FLOOR; SUPPLY ROOM	Surf. (Misc.) (TSI)	(Y) N	G (F) P	1	LF

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211		WHITE CLOTH GASKET	MILL D WAREHOUSE SUPPLY ROOM	Surf. | Misc. (TSI)	(Y) N	G | (F) | P	2 EACH	
212		GREEN 9x9 VFT w/ BROWN MASTIC	MILL D; PAINT ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	60	SF
213		WHITE FIBEROUS MATERIAL w/ ADHESIVE	MILL D; RAIL CAR LOADING DOC	Surf. | (Misc.) | TSI	(Y) N	G | (F) | P	1	PALLET
214		BROWN FELT PAPER	MILL D WAREHOUSE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
215		WHITE WINDOW GLAZING	↓	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	84	LF
216		12"x12" BLUE VFT w/ CREAM MASTIC	PAPER MACHINE #3, NORTHERN CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	225	SF
217	11	WHITE KNOCK-DOWN TEXTURE OVER DRYWALL	MILL D; 2ND FLOOR LANDING	(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	144	SF
218	11	↓	↓	(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	RE: 217	
219	11			(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	RE: 217	
220		BUILT-UP ROOFING w/ SILVER PAINT	MILL D; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
221		BLACK FIBER PADDING	PAPER MACHINE #3; EXTERIOR - RIVERSIDE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	5 EACH	
222		TERRACOTTA TILE w/ BLACK GROUT DEBRIS	↓	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	10	SF
223		BLACK MASTIC DOT ASSOCIATED WITH WALL MIRRORS	FITNESS CENTER	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	70	SF
224		BLUE CARPET w/ WALL (TAN) ADHESIVE	↓	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	36	SF

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225		JOINT COMPOUND	FITNESS CENTER	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
226		YELLOW INSULATION WITH WHITE LAYER	WATER FILTER PLANT, 3RD FLOOR; OFFICE	Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	6,400	SF
227		TRANSITE SIDING		Surf. | Misc. | TSI	Y | N	G | F | P		
228		WINDOW GLAZING		Surf. | Misc. | TSI	Y | N	G | F | P	340	LF
229		DRYWALL WITH JOINT COMPOUND		Surf. | Misc. | TSI	Y | N	G | F | P		
230		ASPHALT PAPER	WATER FILTER PLANT; 3RD FLOOR; RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	10	LF
231		CAULKING BEHIND TRANSITE	WATER FILTER PLANT; 2ND STORY - EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P	15	LF
232		FIBEROUS PIPE ELBOW WRAP	WATER FILTER PLANT; 2ND STORY - COVERED EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P	1 ELBOW	
233		CMU BLOCK & GROUT	MILLWRIGHT SHOP; OFFICE	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
234		CEMENTICOUS COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P	60	LF
235		BLUE LAMINATE COUNTERTOP	; RESTROOM	Surf. | (Misc.) | TSI	Y (N)	G | (F) | P	25	SF
236		4'x2' D&F DRYWALL PANEL WITH BROWN MASTIC	; OFFICE	Surf. | Misc. | TSI	Y | N	G | F | P	80	SF
237		TRANSITE SIDING	PAPER MACHINE #3; 1ST FLOOR; ELECTRICAL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P		
238		C.A.B.		Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 511803160

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

#511803234

PHONE:
FAX:

Company Name: Apex Companies, LLC		**EMSL Customer ID:**	
Street: 600 Stewart Street, Suite 400		**City:** Seattle	**State/Province:** WA
Zip/Postal Code: 98101	**Country:** USA	**Telephone #:** 206-399-5267	**Fax #:**
Report To (Name): Dan Fitzgibbons		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: Dan.Fitzgibbons@apexcos.com		**Purchase Order:**	
Project Name/Number: 320002449		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: ~~WA~~ OR		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM EPA 600/R-93/116 with milling prep (<1%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
- ☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: John Hathaway/Chris Clough

Samplers Signature: John Hathaway

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	See Attached Bulk Sample Logs		
	(3 bags of samples)		
	Sample logs will be emailed		

Client Sample # (s): - **Total # of Samples:**

Relinquished (Client): John Hathaway **Date:** 10/24/18 **Time:**

Received (Lab): [signature] **Date:** 10/25/18 **Time:** ~~8:00~~ DB

Comments/Special Instructions:

Page 1 of _____ pages

APEX

ASBESTOS INSPECTION FORM

#5118032234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
239		DRYWALL WITH JOINT COMPOUND (BLOWN)	TMP REFINER LINES; 4TH STORY ANNEX	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	900	SF
240		TAN DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	300	SF
241		ORANGE DOOR/SIGN MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	4	SF
242		ORANGE FOAM INSULATION WITH FOIL BACKER		Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	1,440	SF
243		WHITE GASKET DEBRIS	TMP REFINER LINES; EXT. DOCK - EAST	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	1 BROKEN PIECE	
244		BLACK SEAL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	25	LF
245		BLACK ASPHALTIC PIPE COATING	ADJ. TO HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	8	SF
246		TEXTURE ON CEMENTITIOUS BLOCKS FOR TANK	HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
247		WHITE WITH BLACK WALL MASTIC	ADJ TO HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | F | P	2	SF
248		TEXTURE ON CEMENTITIOUS BLOCKS FOR TANK	HI-D TANK	(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
249				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
250				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
251				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
252		WHITE/GRAY FIRE BRICK	PAPER MACHINE #3; BASEMENT	(Surf.) | (Misc.) | TSI	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 5118032234

APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx Quantity #	Observations: Approx Quantity SF/LF
253		WHITE FIRE BRICK	PAPER MACHINE #3; BASEMENT	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
254		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
255		GRAY METALIC BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
256		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
257		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
258		TAN-RED FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
259		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
260		GRAY METALIC BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
261		TAN-RED FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
262		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
263		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
264		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
265		BROWN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
266		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
267		CREAM FIRE BRICK	PAPER MACHINE #3; BASEMENT	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
268		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
269		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
270		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
271		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
272		TAN FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
273		ORANGE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
274		GRAY FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
275		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
276		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
277		ORANGE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
278		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
279		TRANSITE SIDING	GARAGE ADJ. TO GUARD SHACK	Surf | (Misc.) | TSI	(Y) | N	G | F | P		
280		4" GREEN COVE WITH BROWN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | (P)		

Sampling Date:

Collected by (print):

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTIC ORM

CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJEC	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
281		4" GRAY COVE ~~TAN~~ TAN MASTIC WITH	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; ENTRY	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	350	LF
282		4" BLACK COVE WITH BROWN MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; HALLWAY	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	200	LF
283		6" GRAY COVE WITH WHITE MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	180	LF
284		4" BROWN COVE WITH BROWN MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; SIDE ROOM	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)	50	LF
285		4" TAN ~~MAS~~ COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)	50	LF
286		12"x12" WHITE DOT CEILING TILE	OFFICE ADJ TO GUARD SHACK	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
287		4'x2' WHITE D&F DROP CEILING PANEL		Surf. | (Misc.) | TSI	(Y) N	G | F (P)		
288		9"x9" WHITE VFT WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
289		12"x12" BEIGE VFT WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)		
290		GRAY SHEET VINYL WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
291		BLUE CARPET WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)		
292		BROWN WALL MASTIC WITH CORK BOARD		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	36 PCTS	
293		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
294		KNOCKDOWN WALL TEXTURE ON DRYWALL		(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #511803234

2 of

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
295		KNOCKDOWN WALL TEXTURE ON DRYWALL	OFFICE ADJ TO GUARD SHACK	Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
296		↓	↓	Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
297		KNOCKDOWN WALL TEXTURE ON WOOD		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
298		↓		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
299		↓		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
300		PINK INSULATION WITH BLACK PAPER BACKING	↓	Surf. | Misc. | TSI	Y | N	G | F | P		
301		BEIGE SHEET VINYL WITH YELLOW MASTIC	GUARD SHACK	Surf. | Misc. | TSI	Y | N	G | F | P		
302		WHITE CEILING PANEL	↓	Surf. | Misc. | TSI	Y | N	G | F | P		
303		12"x12" WHITE ~~VFT~~ WITH BROWN	PORTABLE OFFICE (NORTH OF GUARD SHACK)	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	50	SF
304		12"x12" DARK GRAY VFT WITH TAN MASTIC	↓	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	50	SF
305		WHITE WINDOW CAULKING	↓	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	98	LF
306		GRAY STAIR TREAD ~~WITH~~ CREAM MASTIC	MILL OFFICES; STAIRS	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	21	STAIRS
307		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; A BOILER; WEST SIDE	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		
308		↓	BOILER PLANT; 1ST FLOOR; A BOILER; NORTH SIDE	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		

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APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
309		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; A BOILER EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
310			BOILER PLANT; 1ST FLOOR; B BOILER WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
311			BOILER PLANT; 1ST FLOOR; B BOILER NORTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
312			BOILER PLANT; 1ST FLOOR; B BOILER, EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
313			BOILER PLANT; 1ST FLOOR; C BOILER EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
314			BOILER PLANT; 1ST FLOOR; C BOILER SOUTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
315			BOILER PLANT; 1ST FLOOR; C BOILER; WEST ~~NORTH~~ SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
316			BOILER PLANT; 1ST FLOOR; D BOILER; NORTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
317			BOILER PLANT; 1ST FLOOR; D BOILER WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
318			BOILER PLANT; 1ST FLOOR; D BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
319			BOILER PLANT; 1ST FLOOR; GREEN BOILER; WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
320			BOILER PLANT; 1ST FLOOR; GREEN BOILER; SOUTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
321			BOILER PLANT; 1ST FLOOR; GREEN BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
322			BOILER PLANT; 1ST FLOOR; SILVER BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #5118032 34

CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJECT	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
323		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; SILVER BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
324			BOILER PLANT; 1ST FLOOR; SILVER PAINT; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
325		GRAY SEALANT @ BOILER HATCH	BOILER PLANT; 1ST FLOOR; A BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	40	LF
326			BOILER PLANT; 1ST FLOOR; B BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 325	
327			BOILER PLANT; 1ST FLOOR; C BOILER; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 325	
328		BLACK SEALANT @ BOILER HATCH	BOILER PLANT; 1ST FLOOR; A BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	32	LF
329			BOILER PLANT; 1ST FLOOR; D BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 328	
330			BOILER PLANT; 1ST FLOOR; C BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 328	
331		GRAY CLOTH GASKET	BOILER PLANT; 1ST FLOOR; C BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	1	GASKET
332				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 331	
333				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 331	
334		WHITE CAULKING WITH INSULATION	BOILER PLANT; 1ST FLOOR; A BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
335			BOILER PLANT; 1ST FLOOR; C BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
336			BOILER PLANT; 1ST FLOOR; D BOILER; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 5118032 34

APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
337		RED BOILER INSULATION	BOILER PLANT; 1ST FLOOR; A BOILER B; NORTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
338			BOILER PLANT; 1ST FLOOR; B BOILER B; NORTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
339			BOILER PLANT; 1ST FLOOR; D BOILER; SOUTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
340		WHITE CLOTH TAPE @ WOOD HATCH COVER	BOILER PLANT; 1ST FLOOR; D BOILER; EAST SIDE	Surf. (Misc.) | TSI	Y | (N)	(G) | F | P		
341				Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
342				Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
343		TSI PIPE INSULATION DEBRIS (SPILL ON GROUND)	BOILER PLANT; ADJ. TO SOUTH SIDE OF GREEN BOILER	Surf. | Misc. | TSI	Y | N	G | F | P		
344		TSI INSULATION DEBRIS (SPILL ON GROUND)	RECOVERY BOILER; 1ST FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P		
345				Surf. | Misc. | TSI	Y | N	G | F | P		
346				Surf. | Misc. | TSI	Y | N	G | F | P		
347		JACKET INSULATION WITH WHITE INSULATION	BOILER PLANT; 1ST FLOOR; GREEN BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
348				Surf. | Misc. | TSI	Y | N	G | F | P		
349				Surf. | Misc. | TSI	Y | N	G | F | P		
350		PIPE HANGER FITTINGS INSULATION HARD; OFFWHITE	BOILER PLANT · 1ST FLOOR; SILVER BOILER; EAST SIDE	Surf. | Misc. (TSI)	(Y) | N	G | F (P)		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #5118032 34

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture; etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity If	Observations: Approx. Quantity SF/LF
351		PIPE INSULATION (HARD; OFFWHITE)	BOILER PLANT; 1ST FLOOR; GREEN BOILER; SOUTH SIDE	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
352				Surf. | Misc. | TSI	Y | N	G | F | P		
353		BOILER INSULATION (WHITE-CHALK-LIKE)	BOILER PLANT; 1ST FLOOR; TM BOILER; EAST SIDE	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
354				Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P		
355				Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P		
356		FIRE BRICK - GRAY	BOILER PLANT; 1ST FLOOR; GREEN BOILER	Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
357				Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
358				Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
359		BOILER DOOR INSULATION	BOILER PLANT; BASEMENT; SILVER BOILER	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
360				Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
361				Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
362		BOILER WALL PANEL (C.A.B.)		Surf. | (Misc.) | (TSI)	(Y) | N	G | F | (P)		
363				Surf. | (Misc.) | (TSI)	(Y) | N	G | F | (P)		
364				Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
365		RED BOILER INSULATION (BEHIND C.A.B.)	BOILER PLANT; BASEMENT; SILVER BOILER	Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
366				Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
367				Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
368		C.A.B. WALL PANELS	RECOVERY BOILER; 1ST FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
369				Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
370				Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
371		BOILER INSULATION	RECOVERY BOILER; 1ST FLOOR	Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
372				Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
373				Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
374		SILVER PAINT ON METAL BOILER		(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
375				(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
376				(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
377		TRANSITE SIDING	MAINTENANCE SHOP - SOUTHERN EXTERIOR	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
378		TRANSITE SIDING	BOILER PLANT; 1ST FLOOR	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTIC ORM #511803234

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CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
379		TRANSITE SIDING	SOUTH SUBSTATION; 2ND FLOOR, EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
380		TRANSITE SIDING	PAPERMACHINE #3, 1ST FLOOR, WEST - EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
381		PIPE INSULATION - 9" PIPE ELBOW	CARPENTER SHOP; BOX A	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
382				Surf. | Misc. (TSI)	Y | N	G | F | P		
383				Surf. | Misc. (TSI)	Y | N	G | F | P		
384		9" ELBOW - MIXED WITH FIBERGLASS	; BOX B	Surf. | Misc. (TSI)	Y | N	G | F | P		
385				Surf. | Misc. (TSI)	Y | N	G | F | P		
386				Surf. | Misc. (TSI)	Y | N	G | F | P		
387		3.5" PIPE INSULATION:	; BOX C	Surf. | Misc. (TSI)	Y | N	G | F | P		
388				Surf. | Misc. (TSI)	Y | N	G | F | P		
389				Surf. | Misc. (TSI)	Y | N	G | F | P		
390		4" PIPE INSULATION WITH FABRIC WRAP	BOX D	Surf. | Misc. (TSI)	Y | N	G | F | P		
391			; LONE PIPE RUN	Surf. | Misc. (TSI)	Y | N	G | F | P		
392			BOX E	Surf. | Misc. (TSI)	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTION FORM #511803234

Page ___ of ___

CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJECT	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
393		BLOCK INSULATION	CARPENTER SHOP; BOX F	Surf. | Misc. (TSI)	(Y) | N	G (F) P	8 BOXES	
394			; BOX G	Surf. | Misc. (TSI)	(Y) | N	G (F) P	RE: 393	
395			; BOX H	Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 393	
396			; BOX I	Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	1 BOX	
397				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 396	
398				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 396	
399		4" PIPE INSL.	; BOX J	Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	1 BOX	
400				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE: 399	
401				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 399	
402		1/2" PIPE INSUL WITH FABRIC WRAP	; BOX K	Surf. | Misc. (TSI)	(Y) | N	G (F) P	1 BOX	
403				Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 402	
404				Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 402	
405		1" PIPE INSL.	; BOX L	Surf. | Misc. | TSI	Y | N	G | (F) | P	1 BOX	
406				Surf. | Misc. | TSI	Y | N	G | (F) | P	RE 405	

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTIC ORM

#5118032 34

Page __ of __

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
407		1" PIPE INSUL	CARPENTER SHOP; BOX L	Surf. | Misc. | TSI	Y | N	G | F | P	RE 405	
408		1.5" PIPE INSUL.	; BOX M	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
409				Surf. | Misc. | TSI	Y | N	G | F | P	RE 408	
410				Surf. | Misc. | TSI	Y | N	G | F | P	RE 408	
411		12" ½ PIPE INSUL	; BOX N	Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
412		12" (FULL) PIPE INSUL WITH FIBER WRAP		Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
413		4.5" PIPE WITH METAL WRAP		Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
414		4.5" PIPE ELBOWS WITH MIXED DEBRIS	; BOX O	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
415				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 414	
416				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 414	
417		3" PIPE INSULATION	; BOX P	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
418				Surf. | Misc. | TSI	Y | N	G | F | P	RE 417	
419				Surf. | Misc. | TSI	Y | N	G | F | P	RE 417	
420		12" PIPE INSUL. (BROKEN)	; BOX Q	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	

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ASBESTOS INSPECTION FORM

#511803234

Page ___ of ___

CLIENT			SITE			PROJECT		
	Name:	Apex Companies, LLC		Site Name:	Former Blue Heron Mill		Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
421		12" PIPE INSUL. (BROKEN)	CARPENTER SHOP; BOX Q	Surf. | Misc. | (TSI)	(Y) N	G | F (P)	RE: 420	
422				Surf. | Misc. (TSI)	(Y) N	G | F (P)	RE: 420	
423		1/2" PIPE INSUL.	; BOX R	Surf. | Misc. (TSI)	(Y) N	G | (F) P	1 BOX	
424				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 424	
425				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 424	
426		1" PIPE INSUL.	; BOX S	Surf. | Misc. (TSI)	(Y) N	G | (F) P	1 BOX	
427				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 426	
428				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 426	
429		1.5" PIPE INSUL. WITH CLOTH WRAP.	; BOX T	Surf. | Misc. (TSI)	(Y) N	G | F | (P)	1 BOX	
430				Surf. | Misc. (TSI)	(Y) N	G | F (P)	RE: 429	
431				Surf. | Misc. (TSI)	(Y) N	G | F | (P)	RE 429	
432		WHITE POWDER IN 5GAL BUCKET		Surf. (Misc.) | TSI	(Y) N	G | F (P)	5 GAL.	
433		FINISHING CONCRETE POWDER SPILL		Surf. | (Misc.) | TSI	(Y) N	G | F (P)	50 LBS	
434		WHITE INSULATION SPILL		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	2 SF	

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTION FORM #511803234

Page ___ of ___

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
435		12" PIPE INSULATION	CARPENTER SHOP; 1ST FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
436				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 435	
437			; SPILL ON FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 435	
438		WHITE ROPE GASKET		Surf. | Misc. | TSI	Y | N	G | F | P	1 SPOOL.	
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

OrderID: 511803406

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*:

#511803406

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: APEX COMPANIES LLC	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 600 STEWART STREET, SUITE 400	*Third Party Billing requires written authorization from third party*
City: SEATTLE **State/Province:** WA	**Zip/Postal Code:** 98101 **Country:** USA
Report To (Name): DAN FITZGIBBONS	**Telephone #:**
Email Address: dan.fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 24492000.002	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken: OREGON	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☒ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM – Bulk
☒ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

☒ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 11/8 & 11/9/2018

Samplers Name: CHRIS CLOUGH **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description

SEE SAMPLE LOG

Client Sample # (s): 439 - 469 **Total # of Samples:** 31

Relinquished (Client): **Date:** **Time:**

Received (Lab): **Date:** 11/14/18 **Time:** 8:23

Comments/Special Instructions: POSITIVE STOP EACH H.A. (A, B, C, OR D)

Controlled Document – Asbestos COC – R6 – 11/29/2012

Page 1 of 4 pages

APEX

ASBESTOS INSPECTION FORM

#511803406

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
439		LIGHT GRAY WINDOW GLAZING		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	<10	SF
440		BLACK FIBER PAPER		Surf. | (Misc.) | TSI	(Y) N	G | (F) | P	110	SF
441		PIPE VIB. PAD (BLACK)	ADJ. TO PAPERMACHINE #3, RIVER SIDE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	5	EA
442		BLACK SEALANT	; TANK FOUNDATION	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	150	SF
443		BLACK GASKET	; TANK FOUNDATION	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	1	EACH
444		BLACK PIPE SEALANT	; UNDER	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)	80	SF
445		GRAY PAINT ON CMU BLOCKS	OFFICE ADJ TO GUARD SHACK; EXT - EAST	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	1,135	SF
446		FIBER PIPE WRAP	WOOLEN MILL EXT - WEST	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
447	A	TANK MATERIAL	DEINK-HI-D TANK	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
448	A			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
449	B	TEXTURED COATING ON TANK	TANK ADJ TO P.M. #1	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	1,260	SF
450	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	
451	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	
452	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

APEX

ASBESTOS INSPECTION FORM

#511803406

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
453	B	TEXTURED COATING ON TANK	TANK ADJ. TO P.M. #1	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 449	
454	C	SKIM COAT ON CONCRETE.	PAPERMACHINE #1	Surf. | Misc. | TSI	Y | N	G | F | P		
455	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 454	
456	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
457	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
458	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
459	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
460	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
461	D	SKIM COAT ON CONCRETE	RAW MATERIAL STORAGE	Surf. | Misc. | TSI	Y | N	G | F | P		
462	D			Surf. | Misc. | TSI	Y | N	G | F | P		
463	D			Surf. | Misc. | TSI	Y | N	G | F | P		
464	D			Surf. | Misc. | TSI	Y | N	G | F | P		
465	D			Surf. | Misc. | TSI	Y | N	G | F | P		
466	D			Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

APEX

ASBESTOS INSPECTIC ORM

#5 1 1 8 0 3 4 0 6

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
467	D	SKIM COAT ON CONCRETE	RAW MATERIALS STORAGE	Surf. | Misc. | TSI	Y | (N)	G | (F) | P		
468		BLACK FELT PAPER	WELD SHOP – UNDER TRANSITE	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
469		CONCRETE TILE OVER BLUE FOAM, OVER RUBBLE W/ SEALANT OVER BUILT-UP ASPHALT ROOFING	PAPER MACHINE #7 – ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200613-0

EMSL Analytical, Inc.

Seattle, WA

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

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-10-01 through 2019-09-30

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
3317 3rd Avenue S, Suite D
Seattle, WA 98134
Ms. Lauren Kerber
Phone: 206-269-6310 Fax: 206-900-8789
Email: lkerber@emsl.com
http://www.emsl.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200613-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

APPENDIX B

LEAD PAINT CHIP LABORATORY ANALYTICAL RESULTS, ASSOCIATED CHAIN-OF-CUSTODY DOCUMENTS & LABORATORY CERTIFICATIONS

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor, Seattle, WA 98134
Phone/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com seattlelab@emsl.com

EMSL Order:	511803254
CustomerID:	APXW42
CustomerPO:	
ProjectID:	

Attn: **Dan Fitzgibbons**
Apex Companies, LLC
600 Stewart Street
Suite 400
Seattle, WA 98101

Phone: (206) 496-3897
Fax:
Received: 10/25/18 8:00 AM
Collected:

Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead Concentration*
L-01 *511803254-0001*	Site: Truck dump, SW ext Desc: White, metal, beam	10/31/2018	0.2032 g	0.0098 % wt	<0.0098 % wt
L-02 *511803254-0002*	Site: Paper machine #4, 4th floor Desc: Gray/cream, concrete, wall	10/31/2018	0.2004 g	0.10 % wt	0.70 % wt
L-03 *511803254-0003*	Site: Sulphite tank Desc: Silver, metal, tank	10/31/2018	0.201 g	0.010 % wt	<0.010 % wt
L-04 *511803254-0004*	Site: Paper machine #4 , 1st floor Desc: Light green, metal, wall/beam	10/31/2018	0.2002 g	0.010 % wt	0.088 % wt
L-05 *511803254-0005*	Site: Ext body color of paper machine #4 Desc: Light gray, concrete, ext. wall beam	10/31/2018	0.2006 g	0.010 % wt	<0.010 % wt
L-06 *511803254-0006*	Site: Ext guardrail; NW side of paper machine #4 Desc: Yellow, metal, guardrail	10/31/2018	0.2055 g	0.19 % wt	2.7 % wt
L-07 *511803254-0007*	Site: PM #4; shipping shed control room Desc: Light gray, wood	10/31/2018	0.2028 g	0.0099 % wt	<0.0099 % wt
L-08 *511803254-0008*	Site: #4 Finishing room Desc: Light green, wood, beam	10/31/2018	0.201 g	0.010 % wt	0.033 % wt
L-09 *511803254-0009*	Site: Ext beam of sulphite plant - SE side Desc: Beige, metal, beam	10/31/2018	0.2015 g	0.0099 % wt	0.028 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 10/31/2018 15:25:17

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor, Seattle, WA 98134
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http://www.emsl.com seattlelab@emsl.com

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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-10 *511803254-0010*	Site: Sulphite plant eastern tank Desc: Gray, metal, tank	10/31/2018	0.2025 g	0.20 % wt	2.8 % wt
L-11 *511803254-0011*	Site: Fire control room; 2nd floor of sulphite plant Desc: Red, wood, walk/door	10/31/2018	0.2005 g	0.010 % wt	<0.010 % wt
L-12 *511803254-0012*	Site: Chip silo - exterior Desc: White, concrete	10/31/2018	0.2023 g	0.30 % wt	6.0 % wt
L-13 *511803254-0013*	Site: Southern exterior of weld shop Desc: Cream over red, metal, sliding door	10/31/2018	0.2043 g	0.0098 % wt	0.19 % wt
L-14 *511803254-0014*	Site: Weld shop; 1st floor Desc: Gray, metal, beam	10/31/2018	0.1666 g	0.012 % wt	<0.012 % wt
L-15 *511803254-0015*	Site: East exterior - TMP refiner line Desc: Gray, concrete, exterior wall	10/31/2018	0.2028 g	0.0099 % wt	0.012 % wt
L-16 *511803254-0016*	Site: TMP refiner lines, 1st floor Desc: Gray, CMU block, wall	10/31/2018	0.2006 g	0.010 % wt	0.19 % wt
L-17 *511803254-0017*	Site: Mill offices, 2nd floor Desc: White, drywall, wall	10/31/2018	0.2041 g	0.0098 % wt	<0.0098 % wt
L-18 *511803254-0018*	Site: Mill offices; southern stair well - between 1st & 2nd floor Desc: White, wood, wall	10/31/2018	0.203 g	0.0099 % wt	<0.0099 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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

EMSL Order: 511803254
CustomerID: APXW42
CustomerPO:
ProjectID:

Attn: **Dan Fitzgibbons**
Apex Companies, LLC
600 Stewart Street
Suite 400
Seattle, WA 98101

Phone: (206) 496-3897
Fax:
Received: 10/25/18 8:00 AM
Collected:

Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-19 *511803254-0019*	Site: Maintenance shops Desc: Yellow over red, metal, bollard	10/31/2018	0.2068 g	0.24 % wt	4.0 % wt
L-20 *511803254-0020*	Site: Maintenance shop Desc: Light green, wood, wall	10/31/2018	0.2011 g	0.0099 % wt	<0.0099 % wt
L-21 *511803254-0021*	Site: Maintenance shop Desc: Green, wood, wall	10/31/2018	0.2002 g	0.010 % wt	0.045 % wt
L-22 *511803254-0022*	Site: TMP refiner lines, 2nd floor Desc: White over light green, metal, beam	10/31/2018	0.2029 g	0.0099 % wt	0.031 % wt
L-23 *511803254-0023*	Site: TMP refiner lines, 4th floor Desc: Gray, drywall, wall	10/31/2018	0.2051 g	0.0098 % wt	<0.0098 % wt
L-24 *511803254-0024*	Site: TMP area; control room; 1st floor Desc: Light blue, drywall, wall	10/31/2018	0.2009 g	0.010 % wt	<0.010 % wt
L-25 *511803254-0025*	Site: TMP area; 1st floor; control room Desc: Dark blue, metal, window	10/31/2018	0.2008 g	0.010 % wt	0.039 % wt
L-26 *511803254-0026*	Site: TMP area; 1st floor Desc: Red, metal, beam	10/31/2018	0.2039 g	0.0098 % wt	0.50 % wt
L-27 *511803254-0027*	Site: TMP area; 1st floor Desc: Green on white, CMU, wall	10/31/2018	0.2034 g	0.0098 % wt	0.012 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Seattle, WA 98101

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Fax:
Received: 10/25/18 8:00 AM
Collected:

Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-28 *511803254-0028*	Site: Paper machine #1 - exterior body color Desc: Bright gray, concrete, wall	10/31/2018	0.206 g	0.097 % wt	1.7 % wt
L-29 *511803254-0029*	Site: Paper machine #1; 1st floor; south control room Desc: Yellow, metal, wall	10/31/2018	0.2047 g	0.0098 % wt	<0.0098 % wt
L-30 *511803254-0030*	Site: Paper machine #1; 1st floor Desc: White over green, skim coat over CMU, wall	10/31/2018	0.205 g	0.0098 % wt	0.055 % wt
L-31 *511803254-0031*	Site: TMP reject refining; 1st floor Desc: White over light green, metal, beam	10/31/2018	0.2035 g	0.25 % wt	4.2 % wt
L-32 *511803254-0032*	Site: Boiler plant; basement Desc: Light gray over dark gray, metal, door/door frame	10/31/2018	0.2013 g	0.0099 % wt	0.030 % wt
L-33 *511803254-0033*	Site: Boiler plant; basement Desc: Silver, metal, boiler	10/31/2018	0.2012 g	0.0099 % wt	0.46 % wt
L-34 *511803254-0034*	Site: TMP HI-D; tank stairs Desc: Orange, metal, stairs	10/31/2018	0.2021 g	0.99 % wt	17 % wt
L-35 *511803254-0035*	Site: Boiler plant; basement Desc: Silver, brick, wall	10/31/2018	0.2007 g	0.010 % wt	0.021 % wt
L-36 *511803254-0036*	Site: Pipe shop - exterior Desc: White, metal, door frame	10/31/2018	0.2016 g	0.0099 % wt	0.029 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Attn: **Dan Fitzgibbons**
Apex Companies, LLC
600 Stewart Street
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Seattle, WA 98101

Phone: (206) 496-3897
Fax:
Received: 10/25/18 8:00 AM
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-37 *511803254-0037*	Site: Carpenter shop - exterior Desc: Light gray, metal, wall	10/31/2018	0.0194 g	0.10 % wt	<0.10 % wt
L-38 *511803254-0038*	Site: Raw material storage - exterior Desc: White, concrete, wall	10/31/2018	0.2011 g	0.0099 % wt	0.051 % wt
L-39 *511803254-0039*	Site: Deink HI-D tank exterior Desc: White over light green, white blocks, tank exterior	10/31/2018	0.2014 g	0.0099 % wt	<0.0099 % wt
L-40 *511803254-0040*	Site: Mill 0 covered storage Desc: Bright gray, metal, beam	10/31/2018	0.1567 g	0.013 % wt	<0.013 % wt
L-41 *511803254-0041*	Site: Auto shop Desc: White, wood, wall	10/31/2018	0.1625 g	0.012 % wt	<0.012 % wt
L-42 *511803254-0042*	Site: Carpenter shop - west ext. window Desc: Gray, wood, window frame	10/31/2018	0.2004 g	0.20 % wt	2.7 % wt
L-43 *511803254-0043*	Site: Mill 0 conference room - north exterior Desc: White, CMU, wall	10/31/2018	0.2012 g	0.099 % wt	0.61 % wt
L-44 *511803254-0044*	Site: Paper machine #3, basement Desc: White, metal, beam	10/31/2018	0.2052 g	0.0097 % wt	<0.0097 % wt
L-45 *511803254-0045*	Site: Paper machine #3, basement Desc: White, concrete, wall	10/31/2018	0.2006 g	0.010 % wt	0.073 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead Concentration*
L-46		10/31/2018	0.201 g	0.010 % wt	0.083 % wt
511803254-0046	Site: Mill D warehouse Desc: White over gray, wood, wall				
L-47		10/31/2018	0.2021 g	0.0099 % wt	0.19 % wt
511803254-0047	Site: Mill D; 2nd floor landing Desc: Green, concrete, wall				
L-48		10/31/2018	0.2045 g	0.0098 % wt	0.11 % wt
511803254-0048	Site: Mill D; 2nd floor landing Desc: White, concrete, wall				
L-49		10/31/2018	0.2014 g	0.0099 % wt	0.097 % wt
511803254-0049	Site: Mill D; 2nd floor Desc: White, wood, beam				
L-50		10/31/2018	0.2036 g	0.29 % wt	6.8 % wt
511803254-0050	Site: Mill D; 1st floor Desc: Red/orange, metal, fire system piping				
L-51		10/31/2018	0.2017 g	0.0099 % wt	0.30 % wt
511803254-0051	Site: Ext. barn door @ filter plant Desc: Gray, wood, door				
L-52		10/31/2018	0.2018 g	0.0099 % wt	0.17 % wt
511803254-0052	Site: Filter plant exterior Desc: Green, concrete, wall				
L-53		10/31/2018	0.2033 g	0.0098 % wt	0.19 % wt
511803254-0053	Site: Filter plant - wnd floor Desc: White, wood, door frame				
L-54		10/31/2018	0.2016 g	0.099 % wt	0.59 % wt
511803254-0054	Site: Filter plant - wnd floor Desc: Gray, metal, beam				

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Client SampleDescription	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead Concentration*
L-55		10/31/2018	0.203 g	0.0099 % wt	0.39 % wt
511803254-0055	Site: Filter plant - wnd floor Desc: White, metal, light pole				
L-56		10/31/2018	0.2003 g	0.010 % wt	0.31 % wt
511803254-0056	Site: Filter plant; 3rd floor Desc: Gray, drywall, wall				
L-57		10/31/2018	0.2006 g	0.010 % wt	0.027 % wt
511803254-0057	Site: Guard shack Desc: Blue, metal, door				
L-58		10/31/2018	0.2007 g	0.010 % wt	0.17 % wt
511803254-0058	Site: Guard shack Desc: Red, metal, cabinet				
L-59		10/31/2018	0.2014 g	0.0099 % wt	0.10 % wt
511803254-0059	Site: Guard shack Desc: Gray, concrete, wall				
L-60		10/31/2018	0.2027 g	0.0099 % wt	0.045 % wt
511803254-0060	Site: Office; parking area Desc: Brown, concrete, column				

Lauren Kerber, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 10/31/2018 15:25:17

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

#511803254

PHONE: ( )
FAX: ( )

Company: Apex Companies, LLC	**EMSL-Bill to:** ■ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 600 Stewart Street, Suite 400	*Third Party Billing requires written authorization from third party*
City: Seattle **State/Province:** WA	**Zip/Postal Code:** 98101 **Country:** USA
Report To (Name): Dan Fitzgibbons	**Telephone #:** 206-399-5267
Email Address: Dan.Fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 320002449	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: OR	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ■ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ■ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	[x]
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: John Hathaway/Chris Clough **Signature of Sampler:** John Hathaway

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #s - **Total # of Samples:**

Relinquished (Client):	John Hathaway	**Date:**	10/24/18	**Time:**	
Received (Lab):		**Date:**	10/25/18	**Time:**	8:00

Comments: Sample log will be emailed DB

APEX

#511803254

Page ___ o _

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-49	WHITE	WOOD	BEAM		MILL D; 2ND FLOOR	
L-50	RED/ORANGE	METAL	FIRE SYSTEM PIPING		MILL D; 1ST FLOOR	
L-51	GRAY	WOOD	DOOR		EXT. BARN DOOR @ FILTER PLANT.	
L-52	GREEN	CONCRETE	WALL		FILTER PLANT EXTERIOR	
L-53	WHITE	WOOD	DOOR FRAME		FILTER PLANT – 2ND FLOOR	
L-54	GRAY	METAL	BEAM			
L-55	WHITE	METAL	LIGHT POLE			
L-56	GRAY	DECKING	WALL		FILTER PLANT; 3RD FLOOR	
L-57	BLUE	METAL	DOOR		GUARD SHACK	
L-58	RED	METAL	CABINET		GUARD SHACK	
L-59	GRAY	CONCRETE	WALL		GUARD SHACK	
L-60	BROWN	CONCRETE	COLUMN		OFFICE; PARKING AREA.	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254

APEX

Page ___ o _

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-01	WHITE	METAL	BEAM		TRUCK DUMP, SW EXT	
L-02	GRAY/ CREAM	CONCRETE	WALL		PAPER MACHINE #4, 4TH FLOOR	
L-03	SILVER	METAL	TANK		SULPHITE TANK	
L-04	LIGHT GREEN	METAL	WALL/BEAM		PAPER MACHINE #4, 1ST FLOOR	
L-05	LIGHT GRAY	CONCRETE	EXT WALL/ BEAM		EXT BODY COLOR OF PAPER MACHINE #4	
L-06	YELLOW	METAL	GUARDRAIL		EXT GUARDRAIL, NW SIDE OF PAPER MACHINE #4	
L-07	LIGHT GRAY	WOOD			PM#4, SUPPLY FED CONTROL ROOM	
L-08	LIGHT GREEN	WOOD	BEAM		#4 FINISHING LOOM	
L-09	BEIGE	METAL	BEAM		EXT BEAM OF SULPHITE PLANT - SE SIDE	
L-10	GRAY	METAL	TANK		SULPHITE EASTERN TANK	
L-11	RED	WOOD	WALL/ DOOR		FIRE CONTROL ROOM; 2ND FLOOR OF SULPHITE PLANT	
L-12	WHITE	CONCRETE			CHIP SILO - EXTERIOR	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254

APEX

Page ___ o

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample No.	Color	Substrate	Surface	Condition	Sample Location	Quantity
L-13	CREAM OVER RED	METAL	SLIDING DOOR		SOUTHERN EXTERIOR OF WELD SHOP	
L-14	GRAY	METAL	BEAM		WELD SHOP, 1ST FLOOR	
L-15	GRAY	CONCRETE	EXTERIOR WALL		EAST EXTERIOR - TMP REFINER LINE	
L-16	GRAY	CMU BLOCK	WALL		TMP REFINER LINES, 1ST FLOOR.	
L-17	WHITE	DRYWALL	WALL		MILL OFFICES, 2ND FLOOR	
L-18	WHITE	WOOD	WALL		MILL OFFICES; SOUTHERN STAIR WELL - BETWEEN 1ST & 2ND FLOOR	
L-19	YELLOW OVER RED	METAL	BOLLARD		MAINTENANCE SHOPS	
L-20	LIGHT GREEN	WOOD	WALL		MAINTENANCE SHOP	
L-21	GREEN	WOOD	WALL		MAINTENACE SHIP	
L-22	WHITE OVER LIGHT GREEN	METAL	BEAM		TMP REFINER LINES, 2ND FLOOR	
L-23	GRAY	DRYWALL	WALL		TMP REFINER LINES, 4TH FLOOR	
L-24	LIGHT BLUE	DRYWALL	WALL		TMP AREA; CONTROL ROOM; 1ST FLOOR	

Date:	Collected by (print):	Notes:

OrderID: 511803254

#5118003254 Page ___ o

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-25	PARK BLUE	METAL	WINDOW		TMP AREA; 1ST FLOOR; CONTROL ROOM.	
L-26	RED	METAL	BEAM		TMP AREA; 1ST FLOOR	
L-27	GREEN ON WHITE	CMU	WALL		TMP AREA; 1ST FLOOR	
L-28	LIGHT GRAY	CONCRETE	WALL		PAPER MACHINE #1 - EXTERIOR BODY COLOR	
L-29	YELLOW	METAL	WALL		PAPER MACHINE #1 & 1ST FLOOR; SOUTH. CONTROL ROOM.	
L-30	WHITE OVER GREEN	SKIM COAT OVER CMU	WALL		PAPER MACHINE #1; 1ST FLOOR	
L-31	WHITE OVER LIGHT GREEN	METAL	BEAM		TMP REJECT REFINING; 1ST FLOOR	
L-32	LIGHT GRAY OVER DARK GRAY	METAL	DOOR/ DOOR FRAME		~~BASEMENT~~ BOILER PLANT; BASEMENT	
L-33	SILVER	METAL	BOILER		BOILER PLANT; BASEMENT	
L-34	ORANGE	METAL	STAIRS		TMP HI-D; TANK STAIRS	
L-35	SILVER	BRICK	WALL		BOILER PLANT; BASEMENT	
L-36	WHITE	METAL	~~ORANGE~~ DOOR FRAME		PIPE SHOP - EXTERIOR	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254 Page ___ of

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-37	LIGHT GRAY	~~WOOD~~ METAL	WALL		CARPENTER SHOP - EXTERIOR	
L-38	WHITE	CONCRETE	WALL		RAW MATERIAL STORAGE - EXTERIOR	
L-39	WHITE OVER LIGHT GREEN	WHITE BLOCKS	TANK EXTERIOR		DEINK HI-D TANK EXTERIOR	
L-40	LIGHT GRAY	METAL	BEAM		MILL O COVERED STORAGE	
L-41	WHITE	WOOD	WALL		AUTO SHOP	
L-42	GRAY	WOOD	WINDOW FRAME		CARPENTER SHOP - WEST EXT. WINDOW	
L-43	WHITE	CMU	WALL		MILL O CONFERENCE ROOM - NORTH EXTERIOR	
L-44	WHITE	METAL	BEAM		PAPER MACHINE #3, BASEMENT	
L-45	WHITE	CONCRETE ~~BLOCK~~	WALL		PAPER MACHINE #3, BASEMENT	
L-46	WHITE OVER GRAY	WOOD	WALL		MILL D WAREHOUSE	
L-47	GREEN	CONCRETE	WALL		MILL D; 2ND FLOOR LANDING	
L-48	WHITE	CONCRETE	WALL		MILL D; 2ND FLOOR LANDING	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: 167337

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

☐	**INDUSTRIAL HYGIENE**	Accreditation Expires:
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: June 01, 2019
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: December 01, 2018
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 05/31/2017

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: **167337**
Issue Date: 05/31/2017

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 06/01/2017

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (*for internal methods only*)
Paint		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

APPENDIX C

APEX PERSONNEL CERTIFICATIONS

THIS IS TO CERTIFY THAT

CHRIS CLOUGH

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date: 03/08/2018

Course Location: Portland, OR

Certificate: IR-18-2128B

PBS

4-Hour Online Inspector Refresher Training

Expiration Date: 03/08/2019

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Greg Baker, Instructor

Certificate of Completion

This is to certify that

John W. Hathaway

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

EPA Provider # 1085

169632
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 3, 2018 — Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

Instructor

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

Certificate of Completion

This is to certify that

Dan J. Fitzgibbons

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

EPA Provider # 1085

167823
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

May 30, 2018 — Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

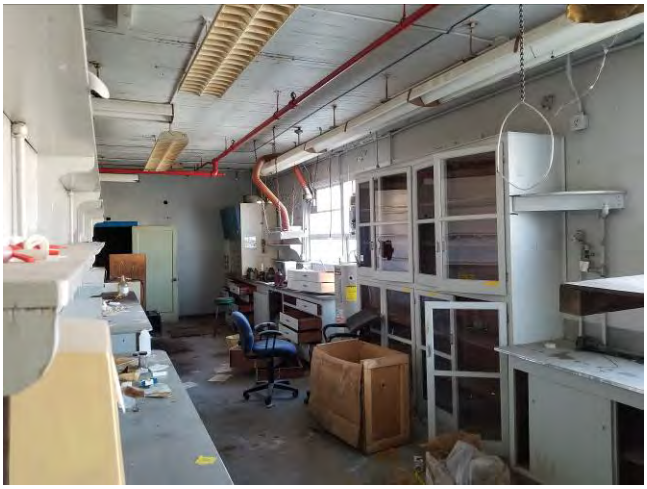
Instructor

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

APPENDIX D

SITE PHOTOGRAPHS

Exterior of Mill H.



Interior of the Environmental Lab.

Interior of TMP Reject Refining & Screening Building.

Exterior of Mill Office Building.

Roof of Mill Office Looking North.

Basement of Paper Machine 3.

Lower Level Exterior of Paper Machine 3.

Exterior of Water Filtration Plant.

Exterior of Rail Car Loading Area.

Exterior of Recovery Boiler.

Second Floor of the Carpenter Shop.

Second Floor of Boiler Plant.

Cement Asbestos Board on The Electrical Room of The Truck Dump.

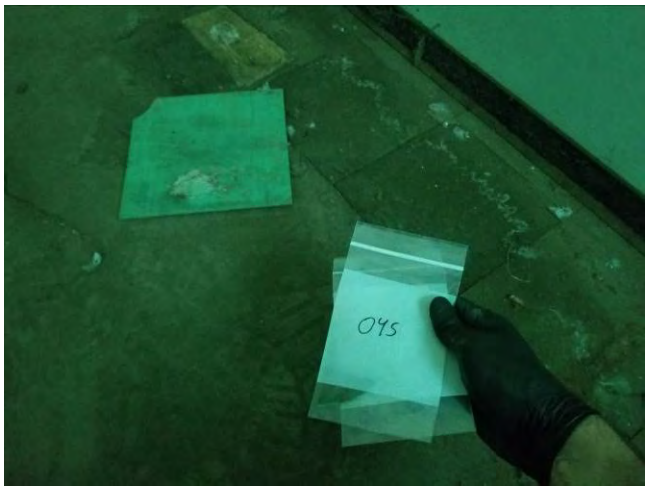
Asphaltic Roofing on The Roof of Deink ONP Repulper.

Transite Siding on Exterior of TMP Reject Refining & Screening, Paper Machine #1, Sulphite Plant, Paper Machine #4, Water Filter Plant Garage Adjacent to Guard Shack.

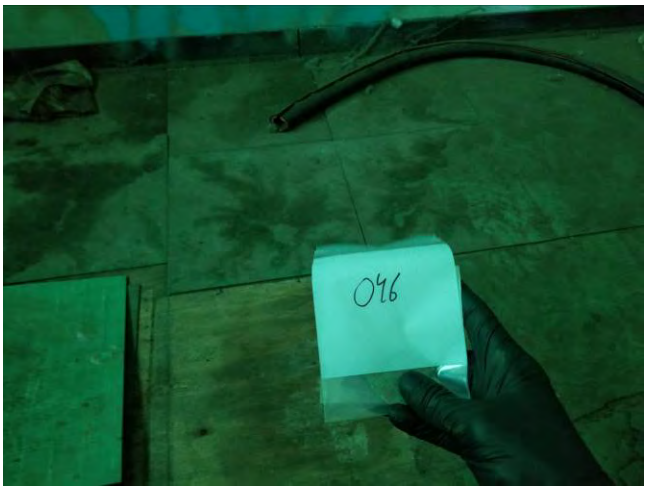
Yellow Pebble Patterned Sheet Vinyl with Mastic in Computer Room in First Floor of Paper Machine #4.

White Sink Undercoating in Women's Restroom on First Floor of Paper Machine #4.

Window Glazing on Exterior First Floor Windows of Paper Machine #4.



9x9” Green VFT With Yellow Mastic On 4th Floor Of #4 Finishing Building.



12x12” Green VFT With Yellow Mastic On 4th Floor Of #4 Finishing Building.

Built-Up Roofing Material Associated with Built-Up Roofing Material with Rubber Membrane on Roof of Paper Machine #4.

Mastic Associated With 12x12” Gray VFT And Black Backing On 2nd Floor of Mill Offices.

Brown Mastic Associated With 4” Black Cove On 2nd Floor Mill Offices.

White Cementitious Wall Panel with Brown Mastic in Men’s Restroom of Mill Offices.

Black Mastic Dots Associated With 12x12" Dot Ceiling Tile On 3rd Floor of Mill Offices.

Black Mastic Associated With 12x12" Brown Vinyl Floor Tile in Western Offices On 3rd Floor of Mill Offices.

Black Mastic Associated with Tan Vinyl Floor Tile and Gray Carpet with Cream Mastic in North Offices On 3rd Floor of Mill Offices.

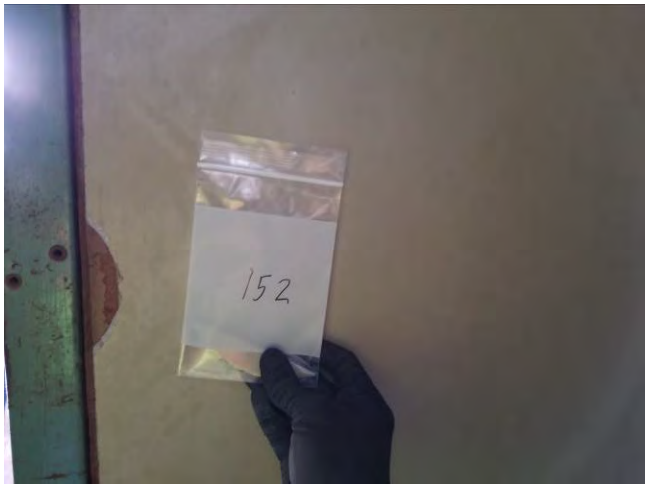
Built-Up Roofing on Roof of Mill Offices.

Brown Mastic Associated with White Wall Panel On 4th Floor of Mill Offices.

Red Sheet Vinyl with Cream Mastic On 4th Floor of Mill Offices.

9x9" Green Vinyl Floor Tile with Black Mastic in Restroom On 3rd Floor of Sulphite Plant.

Cement Asbestos Board On 4th Floor of Sulphite Plant.



Fiber Wall Panel with Mastic On 4th Floor of Sulphite Plant.

Cement Asbestos Board Panel with Black Mastic On 4th Floor of Sulphite Plant.

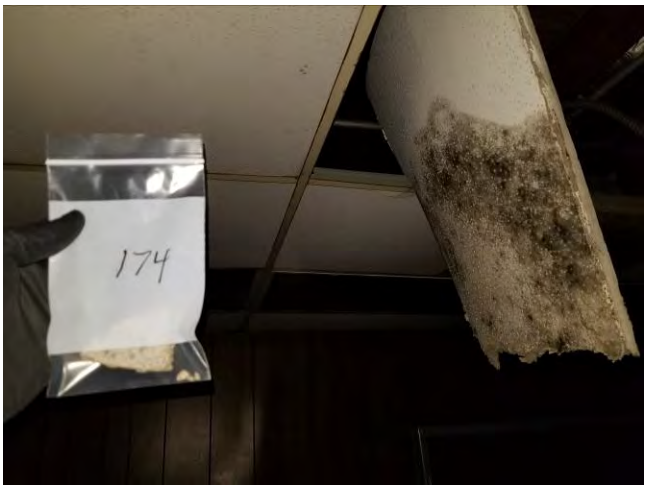
Asphaltic Stair Tread on Stairs 4th Story to Roof of Sulphite Plant.

Built-Up Roofing with Silver Paint with Built-Up Roofing with Built-Up Roofing with Tar Felt with Tar with Insulation on Roof of Sulphite Plant.

Mastic Associated with Ceramic Electric Insulator on West Exterior of Environmental Lab.

9x9" Green Vinyl Floor Tile with Black Mastic On 1st Floor of Environmental Lab

9x9" Brown Vinyl Floor Tile with Black Mastic On 1st Floor of Environmental Lab.



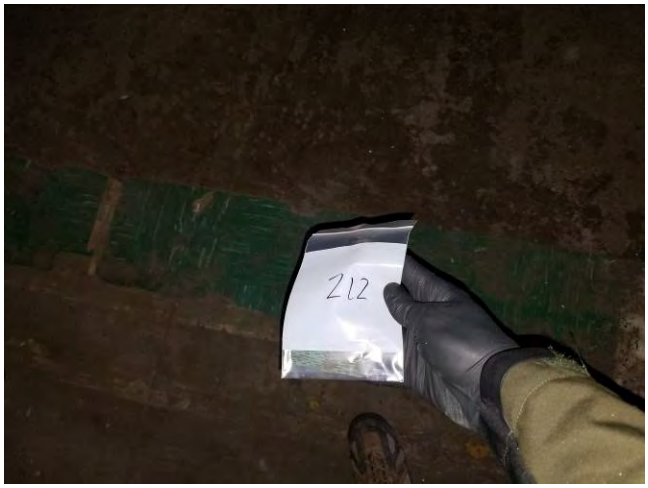
2x4' Dot Drop Ceiling Panel On 1st Floor of Environmental Lab.

Black Sink Undercoating On 1st Floor of Environmental Lab.

Black Chemstone Countertop On 1st Floor of Environmental Lab.

Beige Sheet Vinyl Flooring with Mastic On 2nd Floor of Raw Material Storage.

Mastic Associated with Pipe Wrap with Insulation on Southeast Exterior of Sulphite Plant.



Green 9x9 Vinyl Floor Tile with Brown Mastic in Paint Room of Mill D.

Built-Up Roofing with Silver Paint and Tar Felt on Roof of Mill D.

Black Fiber Padding on Riverside Exterior of Paper Machine #3.

Joint Compound with Drywall In 3rd Floor Office of Water Filter Plant.

Caulking Behind Transite on 2nd Floor Exterior of Water Filter Plant.

Black Asphaltic Pipe Coating Adjacent to Hi-D Tank.

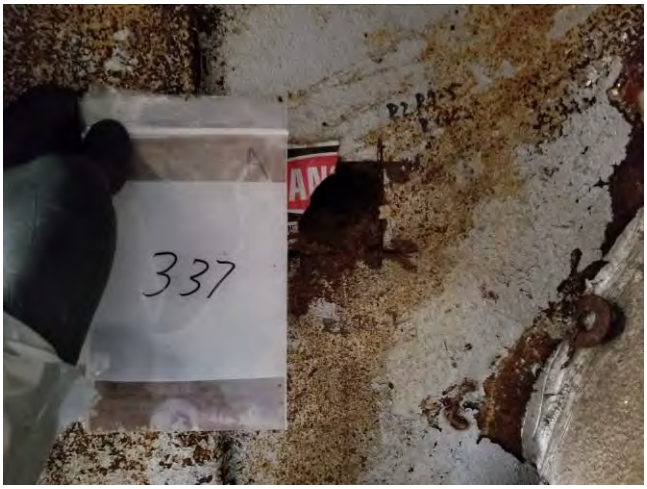
9X9" White Vinyl Floor Tile with Black Mastic in Office Adjacent to Guard Shack.

12X12" Beige Vinyl Floor Tile with Black Mastic in Office Adjacent to Guard Shack.

Black Mastic Associated with Gray Sheet Vinyl in Office Adjacent to Guard Shack.

Knockdown Wall Texture on Plywood in Office Adjacent to Guard Shack.

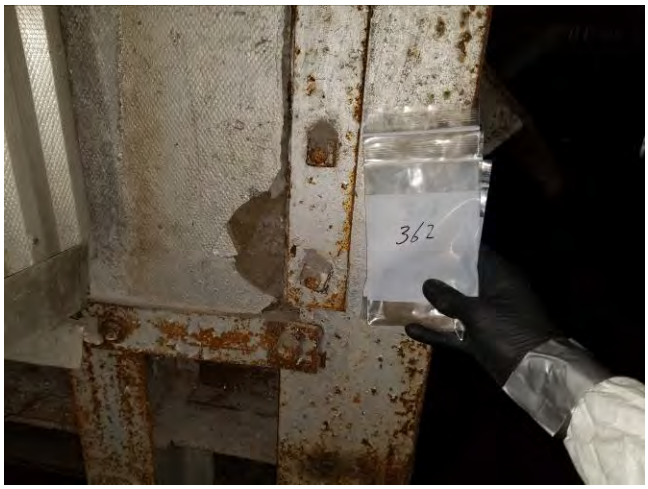
12X12" Dark Gray Vinyl Floor Tile with Tan Mastic in Portable Office in North of Guard Shack



Red Boiler Insulation in Boilers A, B, C, And D On 1st Floor of Boiler Plant.

TSI Insulation Debris Spilled on Ground in Front Of 1st Floor of Recovery Boiler.

White Boiler Insulation on The East Side of TM Boiler In 1st Floor of Boiler Plant.



Cement Asbestos Board Boiler Wall Panel on Silver Boiler in The Basement of Boiler Plant.

Cement Asbestos Board Wall Panels in The Control Room on the 1st Floor of The Recovery Boiler.

Boiler Insulation on the 1st Floor of The Recovery Boiler.

Appendix C

Terracon 2025 Sampling

MAUL FOSTER ALONGI

eurofins | Built Environment Testing

Report for:

Rick Rodriguez
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Elder Demo - Blue Heron Mill; Burn debris
EML ID: 3940267

Approved by:

Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-08-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	30
Total Samples Analyzed:	28
Total Samples with Layer Asbestos Content > 1%:	0

Location: BH-45/46-1-1, Fire Debris Lab ID-Version‡: 19561475-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-2, Fire Debris Lab ID-Version‡: 19561476-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-3, Fire Debris Lab ID-Version‡: 19561477-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-4, Fire Debris Lab ID-Version‡: 19561478-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-45/46-1-5, Fire Debris Lab ID-Version‡: 19561479-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-6, Fire Debris Lab ID-Version‡: 19561480-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-7, Fire Debris Lab ID-Version‡: 19561481-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-8, Fire Debris Lab ID-Version‡: 19561482-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-45/46-1-9, Fire Debris Lab ID-Version‡: 19561483-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-45/46-1-10, Fire Debris Lab ID-Version‡: 19561484-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-47-2-1, Fire Debris Lab ID-Version‡: 19561485-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-47-2-2, Fire Debris Lab ID-Version‡: 19561486-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

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4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-47-2-3, Fire Debris Lab ID-Version‡: 19561487-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-47-2-4, Fire Debris Lab ID-Version‡: 19561488-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-47-2-5, Fire Debris Lab ID-Version‡: 19561489-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-1, Fire Debris Lab ID-Version‡: 19561490-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-42-3-2, Fire Debris Lab ID-Version‡: 19561491-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-3, Fire Debris Lab ID-Version‡: 19561492-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-4, Fire Debris Lab ID-Version‡: 19561493-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-5, Fire Debris Lab ID-Version‡: 19561494-1

Sample Layers	Asbestos Content
Brown Debris	< 1% Chrysotile
Sample Composite Homogeneity:	Poor

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-42-3-6, Fire Debris Lab ID-Version‡: 19561495-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-7, Fire Debris Lab ID-Version‡: 19561496-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-8, Fire Debris Lab ID-Version‡: 19561497-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-11, Fire Debris Lab ID-Version‡: 19561500-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

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(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

Location: BH-42-3-12, Fire Debris Lab ID-Version‡: 19561501-1

Sample Layers	Asbestos Content
Black Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-13, Fire Debris Lab ID-Version‡: 19561502-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-14, Fire Debris Lab ID-Version‡: 19561503-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

Location: BH-42-3-15, Fire Debris Lab ID-Version‡: 19561504-1

Sample Layers	Asbestos Content
Brown Debris	ND
Sample Composite Homogeneity:	Poor

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(833) 465-5857 www.eurofinsus.com/Built

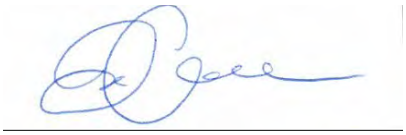
Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Elder Demo - Blue Heron Mill; Burn debris

Date of Receipt: 02-07-2025
Date of Report: 02-10-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Tim Cammann

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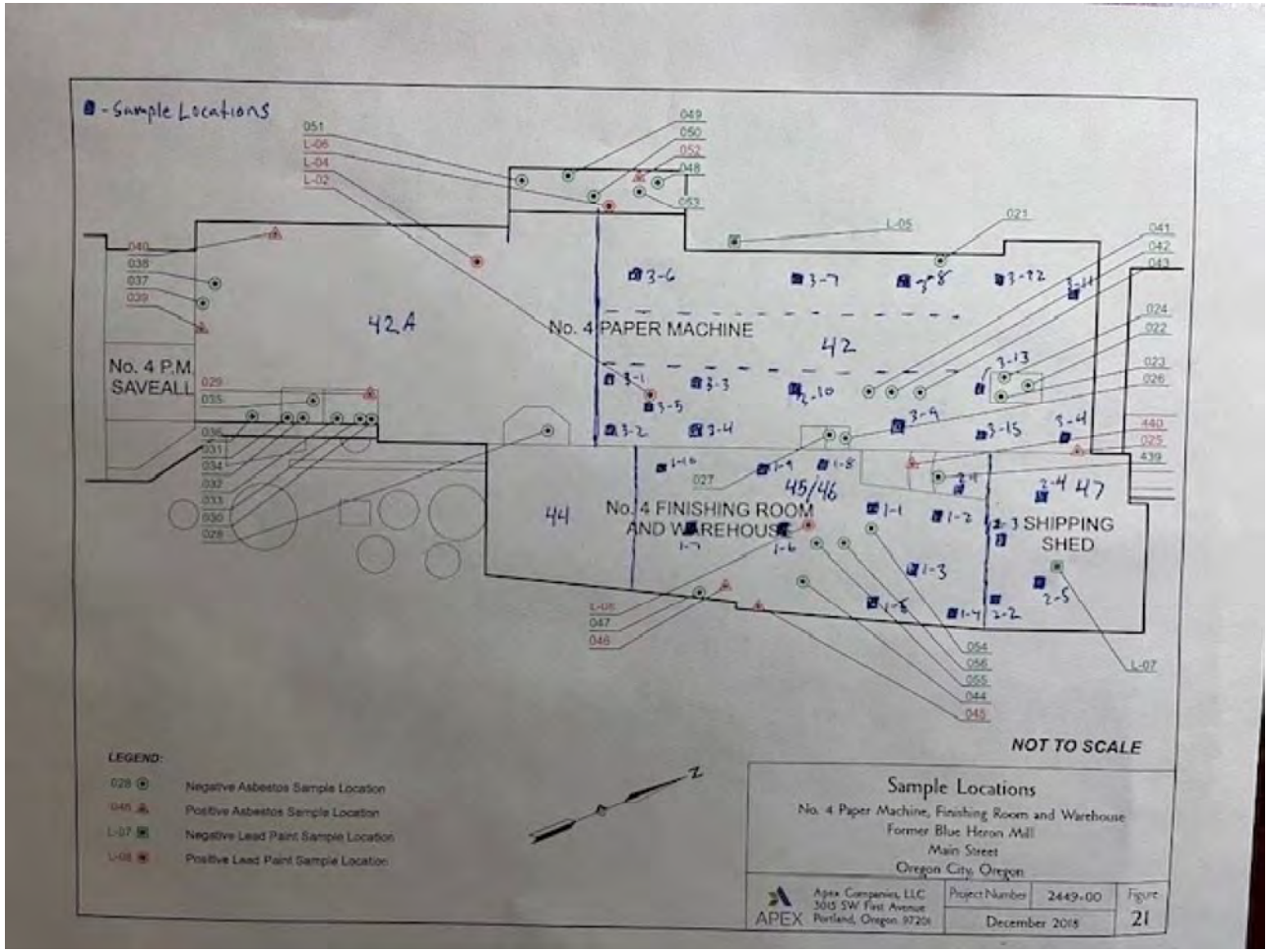

- Sample Locations
No. 4 P.M. SAVEALL
42A
No. 4 PAPER MACHINE
42
44
No. 4 FINISHING ROOM AND WAREHOUSE
45/46
47
3 SHIPPING SHED
NOT TO SCALE
LEGEND:
Negative Asbestos Sample Location
Positive Asbestos Sample Location
Negative Lead Paint Sample Location
Positive Lead Paint Sample Location
Sample Locations
No. 4 Paper Machine, Finishing Room and Warehouse
Former Blue Heron Mill
Main Street
Oregon City, Oregon
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201
Project Number 2449-00
December 2018
Figure 21

February 14, 2025

Rick Rodriguez
Terracon - Portland (Banfield)
700 NE 55th Avenue
Portland, OR 97213

NVL Batch # 2502767.00

RE: Total Metal Analysis
Method: EPA 1311/7000B Lead by FAA <TCLP>
Item Code: TCLP-1

Client Project: 82257039
Location: Elder Blue Heron Paper Mill

Dear Mr. Rodriguez,

NVL Labs received 2 sample(s) for the said project on 2/12/2025. Preparation of these samples was conducted following protocol outlined in EPA 1311/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 1311/7000B Lead by FAA <TCLP>. Sample amount used was below 100 grams as recommended by EPA 1311. The results are usually expressed in mg/L and ppm. Test results are not blank corrected.

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

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

Sincerely,

Shalini Patel, Manager Metals/Org Laboratory

Enc.: Sample results

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

Analysis Report

Toxicity Characteristic Leaching Procedure - Lead (Pb)

Client: Terracon - Portland (Banfield)
Address: 700 NE 55th Avenue
Portland, OR 97213

Attention: **Mr. Rick Rodriguez**
Project Location: Elder Blue Heron Paper Mill

Batch #: 2502767.00
Matrix: Bulk
Method: EPA 1311/7000B
Client Project #: 82257039
Date Received: 2/12/2025
Samples Received: 2
Samples Analyzed: 2

Lab ID	Client Sample #	RL mg/ L	Results in mg/L	Results in ppm
250015965	42-TCLP-1	0.5	< 0.5	< 0.5
250015966	45/46/TCLP-1	0.5	1.1	1.1

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Shalini Patel

Date Analyzed: 02/14/2025
Date Issued: 02/14/2025

Shalini Patel, Manager Metals/Org Laboratory

mg/ L =Milligrams per liter
ppm = parts per million

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2025-0213-05

LEAD LABORATORY SERVICES

Company	Terracon - Portland (Banfield)	**NVL Batch Number**	**2502767.00**
Address	700 NE 55th Avenue Portland, OR 97213	**TAT** 2 Days **AH** No **Rush TAT**	
Project Manager	Mr. Rick Rodriguez	**Due Date** 2/17/2025 **Time** 8:00 AM	
Phone	(503) 659-3281	**Email**	rick.rodriguez2@terracon.com
Cell	(206) 380-3491	**Fax**	(503) 659-1287

Project Name/Number: 82257039 **Project Location:** Elder Blue Heron Paper Mill

Subcategory Flame AA (FAA)

Item Code TCLP-1 EPA 1311/7000B Lead by FAA <TCLP>

Total Number of Samples 2 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	250015965	42-TCLP-1		A
2	250015966	45/46/TCLP-1		A

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

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Laura Carcone		NVL	2/12/25	915
Analyzed by	Yasuyuki Hida		NVL	2/14/25	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 2/13/2025
Time: 10:48 AM
Entered By: Kelly AuVu

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY • MANAGEMENT • TRAINING

METALS CHAIN OF CUSTODY

2502767

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

Please call for TAT less than 24 Hours

Company Terracon
Address 700 NE 55th Ave
Portland OR 97213
Phone

Project Manager Rick Rodriguez
Cell (206) 380-3491
Email rick.rodriguez2@terracon.com
Fax ( ) -

Project Name/Number	Project Location

- ☑ 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
- ❑ Arsenic
- ❑ Selenium
- ❑ Chromium
- ❑ Mercury
- ❑ Cadmium
- ☑ Silver
- ☑ Lead

RCRA 11
- ❑ Copper
- ❑ Zinc
- ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples

	Sample ID	Description	A/R
1	42-TCLP-1	Soil, wood, debris	
2	45/46-TCPL-1	Soil wood debris	
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Rick R		Terracon	2/11/25	1530
Relinquish by					

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	LAURA C		NVLLABS	2/12/25	0915
Analyzed by					
Called by					
Faxed/Email by					

Kelly Au Vu

From: Rodriguez, Rick J <Rick.Rodriguez2@terracon.com>
Sent: Wednesday, February 12, 2025 5:44 PM
To: Client Services
Subject: Re: TCLP Samples - Missing Information

Follow Up Flag: Follow up
Flag Status: Flagged

Good evening.

My apologies we,up against the FedEx clock yesterday.

NAME: Elder Blue Heron Paper Mill
Project Number: 82257039

Thanks again!

Rick Rodriguez
Terracon Consultants, Inc.
206-380-3491 (mobile)

Get Outlook for iOS

From: Client Services <ClientServices@nvllabs.com>
Sent: Wednesday, February 12, 2025 4:12 PM
To: Rodriguez, Rick J <Rick.Rodriguez2@terracon.com>
Cc: Client Services <ClientServices@nvllabs.com>
Subject: TCLP Samples - Missing Information

Good afternoon,

Please see the attached COC for TCLP Pb samples.

We are missing a project name/number or a project location – please provide this at your earliest convenience, thank you!

Thanks & Regards,

Client Services

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

Supplemental Asbestos Survey Report

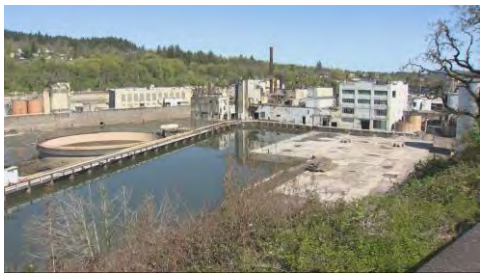
Former Blue Heron Paper Mill

Sulphite Plant, No. 4 Paper Machine and De-Ink Building

419 Main Street

Oregon City, Clackamas County, Oregon

March 21, 2025 | Terracon Project No. 82257039



Prepared for:

Elder Demo, LLC.
25115 SW Parkway Avenue, Suite D
Wilsonville, Oregon

Prepared by:

Terracon Consultants, Inc.
Portland, Oregon

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

700 NE 55th Ave
Portland, OR 97213-3150
P 503-659-3281
F 503-659-1287
Terracon.com

March 21, 2025

Elder Demo, LLC
25115 SW Parkway Avenue, Suite D
Wilsonville, Oregon, 97045
Attn: Mr. Jason Samek
P: (503) 515-8326
E: jasonsamek@elderdemo.com

Re: Supplemental Asbestos Survey Report
Former Blue Heron Paper Mill
Sulphite Plant, No. 4 Paper Machine and De Ink Building 419 Main Street Oregon City, Clackamas County, Oregon 97045
Terracon Project No. 82257039

Dear Mr. Samek:

The purpose of this report is to present the findings of a Supplemental asbestos survey completed on February 7, 21, and 26, 2025, at the former Blue Heron Paper Mill located at 419 Main Street in Oregon City, Oregon. This survey report was prepared in conformance with our Agreement for services between Elder Demolition and Terracon Consultants, dated February 6, 2025, change order #1 dated February 18, 2025, and Terracon Proposal (P82257039) dated February 6, 2025 . Work was requested to supplement a previously completed survey performed by APEX Companies, Pre-Demolition Asbestos and Lead-Paint Survey dated December 18, 2018. identify and quantify asbestos-containing materials present in fire debris and in-place building materials for abatement and disposal purposes in the Deink Building , No. 4 Paper Machine, and Sulphite Buildings.

Terracon appreciates the opportunity to provide these services to Elder Demolition. If we can provide any additional environmental, occupational health, or safety-related services, please contact Rick Rodriguez at (312) 489-5502.

Sincerely,

Terracon Consultants, Inc.

Samuel Tobey
Field Scientist

Rick Rodriguez
Senior Project Manager

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1.0 INTRODUCTION

Terracon conducted a supplemental asbestos survey of the Deink Building, No. 4 Paper Machine, and the Sulphite Plant (project area) located at the former Blue Heron Paper Mill, 416 Main Street in Oregon City, Clackamas County, Oregon, on February 21, 2025. The project areas are presented in Figure 1 in Appendix C. Portion of the project area were affected by a Fire resulting in the need to demolish the project area. A previous asbestos survey was completed by APEX Companies in December 2018, at the request of Elder Demo, a supplemental asbestos survey was performed to verify the presence of suspect asbestos containing material (ACM), confirmed ACM identified during the previous survey completed in 2018 and perform additional sampling of suspect ACM that was not previously surveyed.

The survey was completed by an Asbestos Hazard Emergency Response Act (AHERA)-accredited asbestos building inspector and in accordance with our Agreement for Service between Elder Demolition and Terracon Consultants dated February 5, 2025. Accessible areas within the project area were inspected and homogeneous areas of suspect asbestos-containing material (ACM) were visually identified, documented, and sampled. It should be noted that this survey was limited to materials that were potentially impacted during the fire incident.

1.1 Project Objective

We understand that this supplemental asbestos survey was requested to support planned abatement and subsequent demolition of the project area.

When impacting building materials containing asbestos, the Environmental Protection Agency (EPA) regulation 40 Code of Federal Regulations (CFR) 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified, and quantified prior to planned disturbances or demolition activities.

This survey will assist with communicating the presence, location, and quantity of ACM to employees, vendors, and contractors working in the project area. This survey also meets the requirements for an asbestos survey as outlined by Spokane Clean Air Agency and a good faith survey as required by Washington State Department of Labor and Industries' Division of Occupational Safety and Health (DOSH) regulations prior to demolition or renovation. Regulations require that a complete copy of this survey report be kept in a conspicuous location on-site at all times during activities that may impact known and suspect ACM.

1.2 Project Limitations

The project area was limited Deink building, No. 4 Paper Machine, and the Sulphite Plant Buildings. The remainder of the site was not included in this survey. In addition, due to the current state of the structures as a results of a recent fire and general degradation of project area, selected areas of the Deink, No. 4 Paper Machine and Sulphite Plant could not be safely access and were not included include in the survey.

Although reasonable effort was made to survey inaccessible suspect materials, additional suspect, but unsampled, ACM could be present in walls, in voids, in other concealed areas, or outside of the project area. Other hazardous building materials may be likewise concealed, located in rooms or areas which were inaccessible at the time of the survey, or outside of the project area. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA 40 CFR 763.86. If previously unsampled suspect building materials or painted surfaces are discovered in the future or during planned demolition activities, the materials should be considered asbestos-containing until sampling can either confirm or refute asbestos.

2.0 BUILDING DESCRIPTION

The former Bue Heron paper mill, encompassing approximately 23 acres of property, is located directly below the Willamette River. The mill was originally constructed in the early 1800's for wool and flour, then lumber until its redevelopment into a paper mill in the early 1900's. The paper mill operations ceased in February 2011. The Mill has since been vacant and in dilapidated condition. A portion of the mill underwent a fire incident on January 30, 2025. This portion has been outlined as the project area composed of three main buildings: Deink (39, 40), No. 4 Paper Machine (42, 42A, 44, 45, 46, 47), and Sulphite Plant (48, 49, 50, 51).

The Deink buildings are four-story high, composed of steel reinforced concrete with a skim coating, gypsum wallboard (GWB), acoustic ceiling tiles (ACT), cove base, insulation, glass blocks, terracotta tile, and silver and black asphalt roofing.

The No. 4 Paper Machine buildings are four-story high, composed of steel reinforced concrete, concrete masonry units (CMU), concrete, skim coating, vinyl floor tiles (VFT), vinyl sheet tiles (VST), cove base, ceiling tiles, Transite siding, fiberglass reinforced plastic panels (FRP), wall texture, plaster, terracotta tile, laminate counters, carpet, fiberglass insulation, gypsum wall board, and silver paint asphalt roofing with rubber membrane.

The Sulphite buildings are four-story high, composed of Transite siding, vinyl floor tile, concrete masonry units, skim coating, cement asbestos board, fiberglass wall panel, asphaltic stair tread, and silver paint-tar felt roofing.

A diagram of the project area is included as Figure 1 in Appendix C.

3.0 ASBESTOS SURVEY FIELD ACTIVITIES

The asbestos survey was conducted by AHERA-accredited asbestos building inspectors Rick Rodriguez and Erik Johnson. A copy of Mr. Rodriguez's and Mr. Johnson's AHERA building inspector training certificates are attached in Appendix A. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is presented below.

3.1 Visual Assessment

Terracon completed a visual assessment of the project area to locate and identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout the project area in terms of color and texture. The assessment was conducted for visually accessible areas of the project area. Building materials identified as glass, wood, metal, or rubber were not considered suspect ACM.

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on the visual assessment completed within the project area, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect ACM were collected for each homogeneous area identified. Bulk samples were collected using wet methods, as applicable, to reduce the potential for fugitive dust and fiber release. Samples were placed in sealable bags and labeled with unique sample numbers using an indelible marker.

Terracon collected 72 bulk samples from 45 homogenous areas in the project area.

A summary of all samples collected including the type of material, general location, and results, is included as Table 1 in Appendix B. Locations of bulk ACM samples collected throughout the project area are presented in Appendix C.

3.4 Sample Analysis

Bulk ACM samples were submitted under standard chain of custody (COC) to Eurofins EPK Built Environment Testing (Eurofins) of Portland, Oregon for analysis by polarized light microscopy (PLM) per EPA methodology EPA/600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. Eurofins is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 200741-0).

4.0 ASBESTOS REGULATORY OVERVIEW

When impacting building materials containing asbestos, the Environmental Protection Agency (EPA) regulation 40 Code of Federal Regulations (CFR) 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP) prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

The NESHAP for asbestos (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It requires the identification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

The NESHAP regulation classifies ACM as either regulated asbestos-containing material (RACM), Category I non-friable ACM or Category II non-friable ACM. RACM includes all friable ACM, along with Category I non-friable ACM that has become friable or will be or has been subjected to sanding, grinding, cutting or abrading, and Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity. Category I non-friable ACMs are exclusively asbestos-containing packings, gaskets, resilient floor coverings, floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. RACM must be removed prior to renovation or demolition activities.

In Clackamas County, the NESHAP requirements are administered by the Oregon Department of Environmental Quality (DEQ). DEQ requires that asbestos-related activities be conducted by AHERA certified personnel. Additionally, Oregon Administrative Rule (OAR) 43-010 states that the building owner, operator, or the contractor must provide DEQ with written notification at least 10 working days prior to beginning the removal of friable ACM and at least five days before beginning removal of

non-friable ACM. Removal of ACMs must be conducted by a State of Oregon licensed asbestos abatement contractor. In addition, third party air clearance monitoring must be performed following the abatement for any friable ACM greater than 160 square feet (sf) or 260 linear feet.

The Occupational Safety and Health Administration (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average. The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. Oregon OSHA adopted the federal OSHA exposure standard of 0.1 f/cc in 1995 (OAR 437-003-1926.1101).

5.0 FINDINGS AND RECOMMENDATIONS

Asbestos was identified in twelve samples collected from seven homogenous areas from the project area. A summary of homogenous materials identified as ACM is summarized below.

- HA 155: Silver and black built-up roofing located on the roof of the Sulphite Plant (15% chrysotile)
- HA 470: Black and grey gasket located in the upper tank room of the Sulphite Plant (40% chrysotile)
- HA 478: Black asphalt roof patch located on the roof of the Sulphite Plant (8% chrysotile)
- HA 479: Black gasket located in fire debris throughout the project area (50% chrysotile)
- HA 484: Black roof tar located on the roof of building 42/parapet (8% chrysotile)
- HA 486: Red and blue cement asbestos board located on the exterior of the 1st floor maintenance room (15% chrysotile)
- HA 492: Built-up roof material located on the roof of the Paper Machine No. 4 building (5-8% chrysotile)

A summary of all samples collected including the type of material, general location, and results, are included as Table 1 in Appendix B. Appendix C contains the sample location diagram. Laboratory analytical reports and COCs are included in Appendix D. Photographs are included as Appendix E. Additional asbestos containing materials were

identified within the project area and are presented the *Pre-Demolition Asbestos and Lead Paint Survey*, prepared by Apex Companies dated December 7, 2018 (Apex Report). A copy of the Apex Report is included in Appendix F.

It should be reemphasized that although reasonable efforts were made to survey accessible suspect materials, additional suspect ACM could be located outside the project area, under existing building materials, electrical systems, pipe chases, inside walls, above ceilings, interior of mechanical components, in isolated areas or in other concealed areas, etc. Therefore, if suspect materials are encountered during demolition activities that do not appear to have been characterized as ACM or non-ACM, these materials must be assumed to be ACM until samples are collected and analyzed to prove otherwise. Any assumed or unanalyzed material should be treated as asbestos and in accordance with applicable federal, state, and local regulations, or sampled to determine asbestos content before disturbing the material.

In the event that unsampled suspect ACM is discovered during renovation activities, Terracon recommends that the contractor contact Elder Demolition and Terracon immediately upon discovery, so that samples of the suspect ACM can be collected and analyzed in order to classify, and/or quantify the material.

6.0 GENERAL COMMENTS

This Supplemental Asbestos Survey Report was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the project area. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A
TRAINING CERTIFICATES

Certificate of Completion

This is to certify that

Erik Johnson

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of

TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

193042
Certificate Number

Instructor: David Welch

Mar 26, 2024 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Terracon
Explore with us

- Facilities
- Environmental
- Geotechnical
- Materials

Certificate of Completion

This is to certify that

Rick J. Rodriguez

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of

TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

194719
Certificate Number

Instructor: Tracy Bockla

Aug 29, 2024 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Terracon
Explore with us

- Facilities
- Environmental
- Geotechnical
- Materials

APPENDIX B
DATA TABLES

APPENDIX B

TABLE 1 - Asbestos Inspection Sample Summary
Former Blue Heron Paper Mill
419 Main Street
Oregon City, OR 97045
Terracon Project No. 82257039

HOMOGENEOUS AREA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	RESULT	MATERIAL LOCATION
Deink Building				
4	4-A	White 2'x4'ACT Dot and Fissure	ND	2nd Floor Repulper Control Room Ceiling
5	5-A	White GWB and JC	ND	2nd Floor Repulper Control Room
6	6-A	Gray 4" Winyl Cove Base with Cream Mastic	ND	2nd Floor Repulper control Room
7	7-A	Pink Insulation, Paper and Backing	ND	2nd Floor Repulper Control Rooom
16	16-A	Brown Fiberous Debris	ND	4th Floor Repulper
17	17-A	Black and Red Gasket	ND	4th Floor Repulper, In Debris
18	18-A	Black Asphalt Roofing	ND	1st Floor Repulper
19	19-A	White Wall Mastic	ND	1st Floor Repulper
20	20-A	Grout Associated with Glass Blocks	ND	Repulper, South Exterior
479	**479-A**	**Black Gasket**	**50% Chrysotile**	**3rd Floor Debris Throughout Project Area**
	479-B		**50% Chrysotile**	
480	480-A	Grey Exterior Window Caulk	ND	Deink North Side
	480-B		ND	
481	481-A	Silver and Black Asphalt Roofing	ND	Substation Roof
	481-B		ND	
482	482-A	Black, Orange, and Tan Wire Wrap and Debris	ND	Substation
	482-B		ND	
483	483-A	Brown and Black Vent Insulation	ND	3rd Floor
	483-B		ND	
493	493-A	Tan Terracotta Tile	ND	Exterior Tank Southeast side
	493-B		ND	
No. 4 Paper Machine				
22	22-A	12"X12" Blue Vinyl Floor tile with Yellow Mastic, White Leveling Compound	ND	1st Floor North Control Room
	22-B		ND	

APPENDIX B

TABLE 1 - Asbestos Inspection Sample Summary
Former Blue Heron Paper Mill
419 Main Street
Oregon City, OR 97045
Terracon Project No. 82257039

HOMOGENEOUS AREA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	RESULT	MATERIAL LOCATION
23	23-A	4" Tan Cove Base with Tan Mastic	ND	1st Floor North Control Room
	23-B		ND	
24	24-A	12"x12" White Ceiling Tiles with Mastic Dots	ND	1st Floor North Control Room
	24-B		ND	
26	26-A	Tan Sheet Vinyl with Mastic	ND	1st Floor Mens Restroom
27	27-A	White Fiberglass Reinforced Plastic Panels with Tan Mastic	ND	1st Floor Mens Restroom
35	35-A	12"x12" White Ceiling Tiles with Mastic	ND	1st Floor Computer Room
	35-B		ND	
37	37-A	Grey cove Base with Mastic	ND	1st Floor Womens Restroom
	37-B	Tan Wall Panel with Mastic	ND	
48	48-A	Black Rubber Membrane with Mastic and Foam Over Sheet Vinyl with Cream Mastic	ND	2nd Floor Northwest Exterior Lab
49	49-A	6" Brown Vinyl, Vinyl Cove Base with Brown Mastic	ND	2nd Floor Northwest Exterior Lab
50	50-A	Black Fiberglass Insulation with Black Felt	ND	2nd Floor Northwest Exterior Lab
51	51-A	Drywall with JC	ND	2nd Floor Northwest Exterior Lab
484	**484-A**	**Black Roof Tar**	**8% Chrysotile**	**Building Section 42 Parapet**
	484-B		**8% Chrysotile**	
485	485-A	Black and Grey Concrete	ND	Throughout
	485-B		ND	
486	486-A	**Red and Blue CAB Exterior**	ND	**1st and 2nd Floor Maintenance**
	486-B		**15% Chrysotile**	

APPENDIX B

TABLE 1 - Asbestos Inspection Sample Summary
Former Blue Heron Paper Mill
419 Main Street
Oregon City, OR 97045
Terracon Project No. 82257039

HOMOGENEOUS AREA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	RESULT	MATERIAL LOCATION
487	487-A	White and Brown Glue dots	ND	Northwest Exterior Lab
	487-B		ND	
488	488-A	Black Fiberous Tar	ND	Building 43, 3rd Floor Roof
	488-B		ND	
489	489-A	Blue VFT	ND	Computer Room
	489-B		ND	
490	490-A	Stair Trending South	ND	Southwest Entrance
	490-B		ND	
491	491-A	Roof Felt	ND	Roof of Building Section 42A
	491-B		ND	
492	**492-A**	**Roof Built up**	**5% Chrysotile**	Roof of Building Section 42A
	492-B		**8% Chrysotile**	
Sulphite Plant				
155	**155-A**	**Silver and Black Asphalt Roofing, Built up**	**15% Chrysotile**	**Roof**
470	**470-A**	**Black and Grey Gasket**	**40% Chrysotile**	**Upper Tank Room**
	470-B		**40% Chrysotile**	
471	471-A	Black and Red Gasket	ND	Debris Throughout Project Area
	471-B		ND	
472	472-A	Black and Fiberous Asphalt Roofing Shingle	ND	3rd Floor Bridge Roof
	472-B		ND	
473	473-A	Tan and Grey Granular Cement	ND	Sulphate Tank Interior
	473-B		ND	
474	474-A	Black and Red Gasket	ND	Debris Throughout Project Area
	474-B		ND	
475	475-A	Black Rust Red Metal Tank Coating	ND	Sulphate Tank
	475-B		ND	

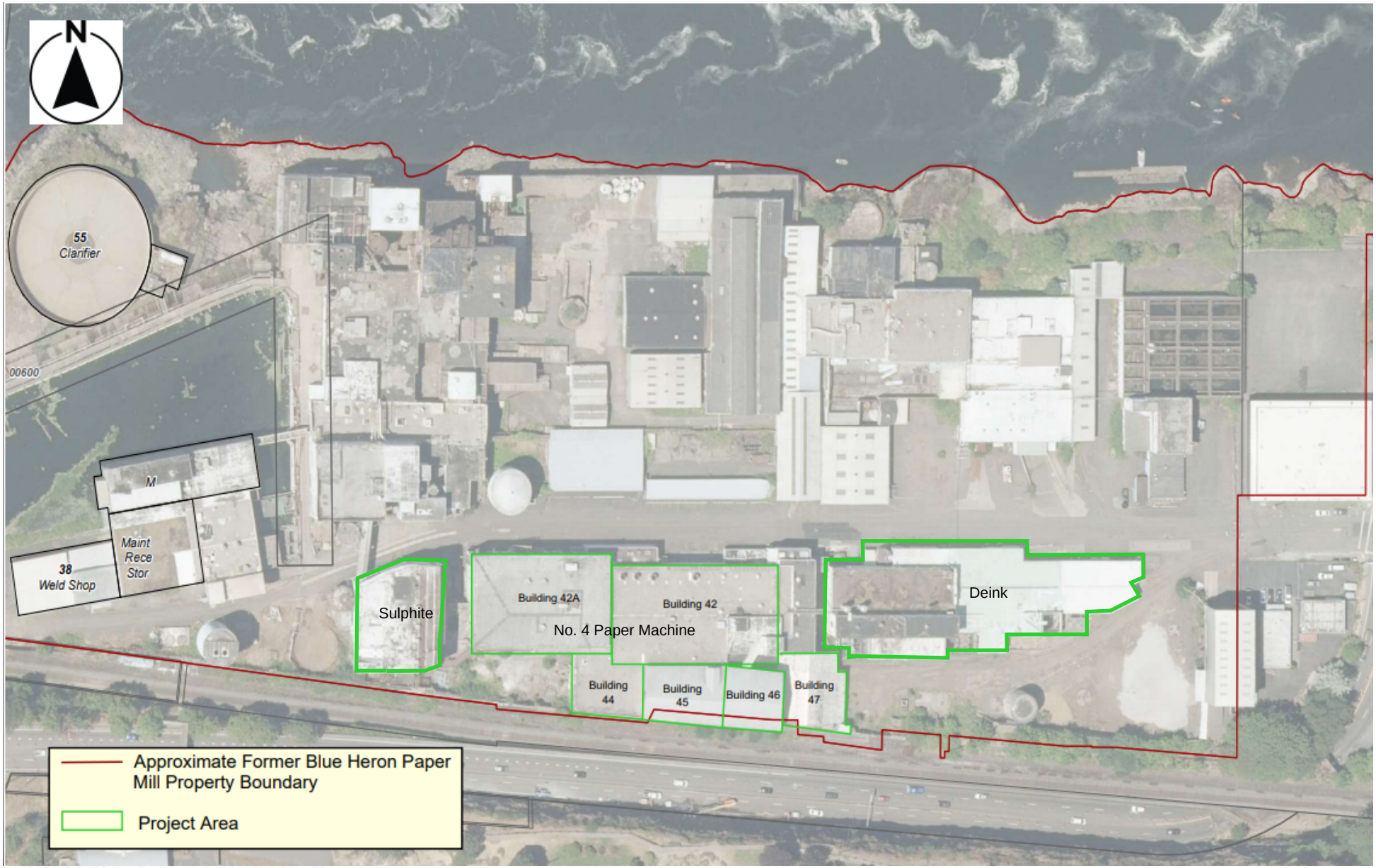
APPENDIX B

TABLE 1 - Asbestos Inspection Sample Summary
Former Blue Heron Paper Mill
419 Main Street
Oregon City, OR 97045
Terracon Project No. 82257039

HOMOGENEOUS AREA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION	RESULT	MATERIAL LOCATION
476	476-A	White and Black Fiberglass Wrap	ND	Roof
	476-B		ND	
478	**478-A**	**Black Asphalt Roof Patch**	**8% Chrysotile**	**Roof**
	478-B		**8% Chrysotile**	

Notes:
ACT= Acoustic Ceiling Tile
CAB= Concrete Asbestos Board
GWB= Gypsum Wallboard
JC= Joint Compound
VFT= Vinyl Floor Tile
Bold= Asbestos Contained in Bulk Sample

APPENDIX C
SAMPLE LOCATION DIAGRAMS



Drawing not for construction purposes.

Project Mngr:	RJR
Drawn By:	SJT
Checked By:	RJR
Approved By:	RJR

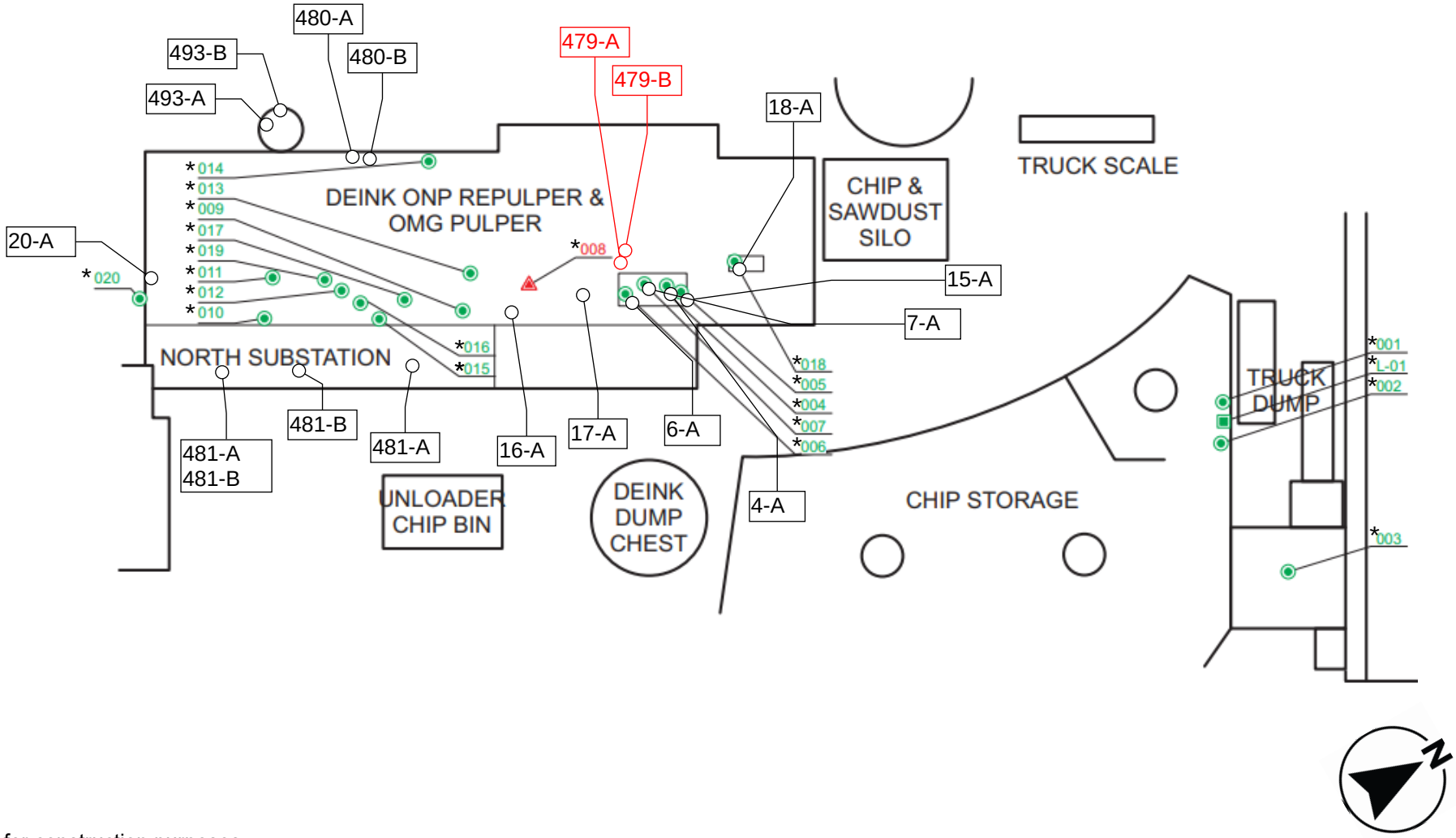
Project No.	82257039
Scale:	Not to Scale
File No.	Figure 1
Date:	March 2025

Terracon
Explore with us
700 NE 55th Avenue Portland, Oregon 97213
PH. (503) 659-3281 FAX (503) 659-1287

Project Area Overview

Elder Demolition-Former Blue Heron Paper Mill
419 Main Street
Oregon City, Clackamas County, Oregon 97045

FIGURE
1



Drawing not for construction purposes.

LEGEND

###-##-## — ASBESTOS SAMPLE NUMBER (NON-DETECT), HA NUMBER, BUILDING

###-##-## — ASBESTOS SAMPLE NUMBER (DETECT), HA NUMBER, BUILDING

028 Negative Asbestos Sample Location

046 Positive Asbestos Sample Location

L-07 Negative Lead Paint Sample Location

L-08 Positive Lead Paint Sample Location

* Previously Collected by APEX Consultant (2018)

Project Mngr:	RJR
Drawn By:	SJT
Checked By:	RJR
Approved By:	RJR
Project No.	82257039
Scale:	Not to Scale
File No.	Figure 2
Date:	March 2025

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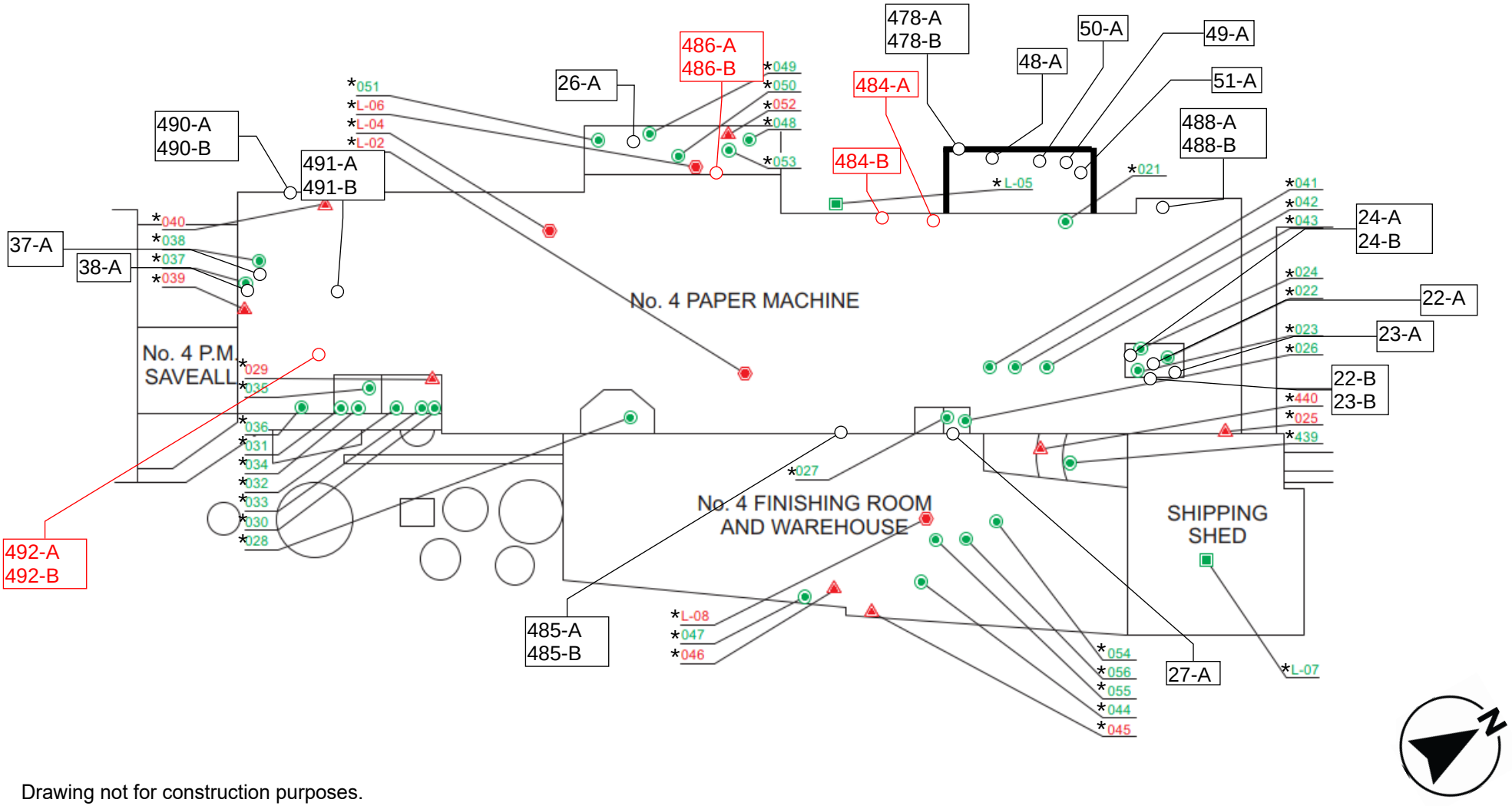
700 NE 55th Avenue Portland, Oregon 97213
PH. (503) 659-3281 FAX (503) 659-1287

Bulk Sample Locations

Former Blue Heron Paper Mill DeInk Building
419 Main Street
Oregon City, Clackamas County, Oregon 97045

FIGURE 2



Drawing not for construction purposes.

LEGEND

###-##-## — ASBESTOS SAMPLE NUMBER (NON-DETECT), HA NUMBER, BUILDING

###-##-## — ASBESTOS SAMPLE NUMBER (DETECT), HA NUMBER, BUILDING

028 Negative Asbestos Sample Locatio

046 Positive Asbestos Sample Location

L-07 Negative Lead Paint Sample Location

L-08 Positive Lead Paint Sample Location

* Previously Collected by APEX Consultant (2018)

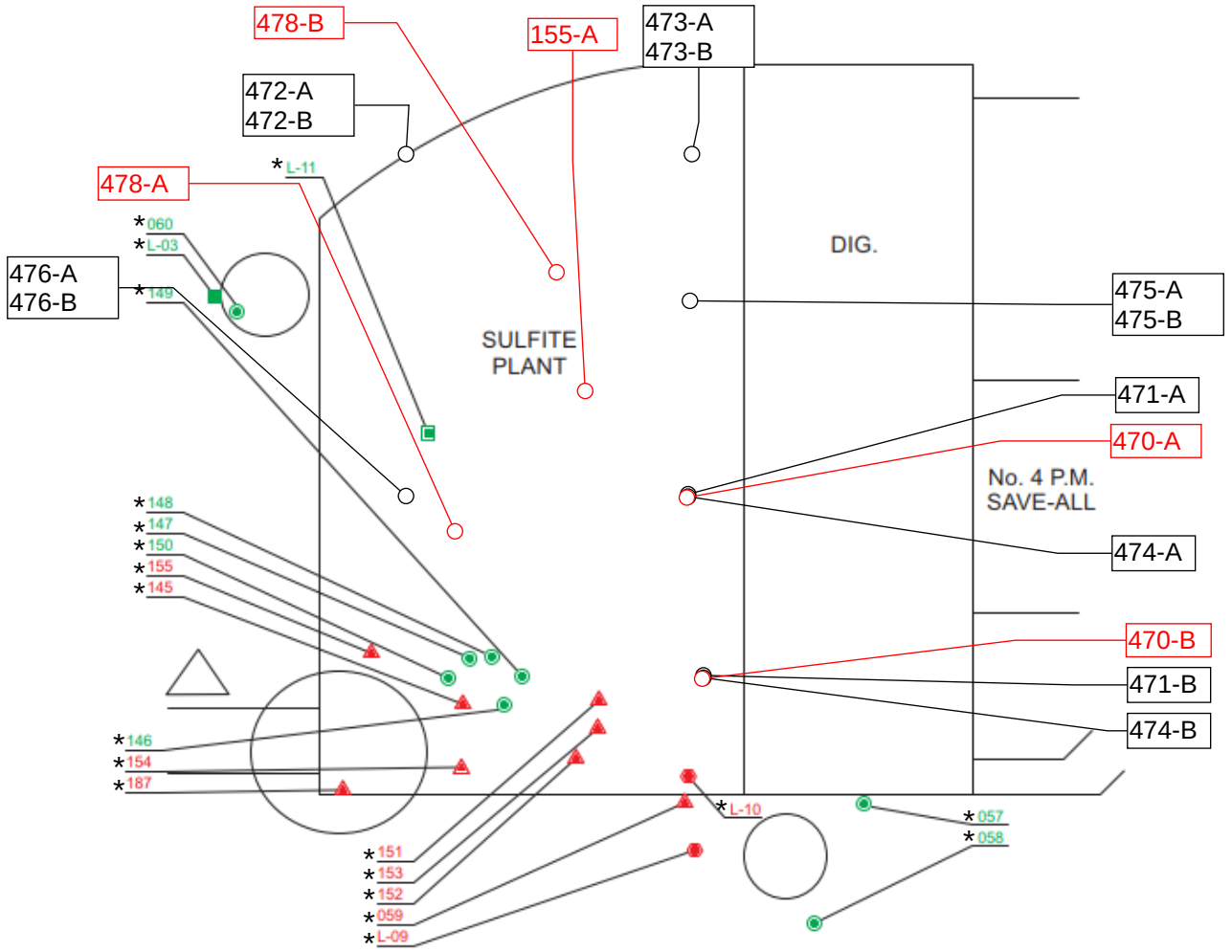
Project Mngr:	RJR
Drawn By:	SJT
Checked By:	RJR
Approved By:	RJR
Project No.	82257039
Scale:	Not to Scale
File No.	Figure 3
Date:	March 2025

Terracon
Explore with us
700 NE 55th Avenue Portland, Oregon 97213
PH. (503) 659-3281 FAX (503) 659-1287

Bulk Sample Locations - NE0501

Former Blue Heron Paper Mill No. 4 Paper Machine
419 Main Street
Oregon City, Clackamas County, Oregon 97045

FIGURE 3



Drawing not for construction purposes.

LEGEND

###-##-## — ASBESTOS SAMPLE NUMBER (NON-DETECT), HA NUMBER, BUILDING

###-##-## — ASBESTOS SAMPLE NUMBER (DETECT), HA NUMBER, BUILDING

028 Negative Asbestos Sample Locatio

046 Positive Asbestos Sample Location

L-07 Negative Lead Paint Sample Location

L-08 Positive Lead Paint Sample Location

* Previously Collected by APEX Consultant (2018)

Project Mngr:	RJR
Drawn By:	SJT
Checked By:	RJR
Approved By:	RJR
Project No.	82257039
Scale:	Not to Scale
File No.	Figure 4
Date:	March 2025

Terracon
Explore with us
700 NE 55th Avenue Portland, Oregon 97213
PH. (503) 659-3281 FAX (503) 659-1287

Bulk Sample Locations

Former Blue Heron Paper Mill Sulphite Building
419 Main Street
Oregon City, Clackamas County, Oregon 97045

FIGURE
4

APPENDIX D
CHAINS OF CUSTODY AND LABORATORY ANALYTICAL REPORTS

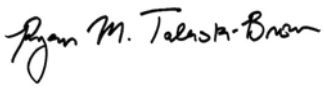
eurofins | Built Environment Testing

Report for:

Erik Johnson
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Former Blue Heron Paper Mill, DeInk Building
EML ID: 3959103

Approved by:



Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-25-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, DeInk Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	19
Total Samples Analyzed:	19
Total Samples with Layer Asbestos Content > 1%:	2

Location: 4-A, ACT, dot and fissure, 2'x4'

Lab ID-Version‡: 19666720-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	60% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 5-A, GWB and JC

Lab ID-Version‡: 19666721-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 6-A, 4" vinyl cove base w/ cream mastic

Lab ID-Version‡: 19666722-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
Cream Mastic	ND
Brown Tape with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

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All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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ASBESTOS PLM REPORT

Location: 7-A, Insulation, paper and foil backing

Lab ID-Version‡: 19666723-1

Sample Layers	Asbestos Content
Brown Paper with Silver Foil	ND
Pink Insulation	ND
Composite Non-Asbestos Content:	60% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 16-A, Fibrous debris

Lab ID-Version‡: 19666724-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Poor

Location: 17-A, Gasket in debris

Lab ID-Version‡: 19666725-1

Sample Layers	Asbestos Content
Red Gasket with Gray Coating	ND
Sample Composite Homogeneity:	Moderate

Location: 18-A, Asphalt roofing

Lab ID-Version‡: 19666726-1

Sample Layers	Asbestos Content
Gray Asphalt Roofing	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 19-A, Wall mastic

Lab ID-Version‡: 19666727-1

Sample Layers	Asbestos Content
Gray Debris with Paint	ND
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 20-A, Grout associated w/ glass blocks Lab ID-Version‡: 19666728-1

Sample Layers	Asbestos Content
Gray Grout with Paint	ND
Sample Composite Homogeneity:	Poor

Location: 479-A, Gasket Lab ID-Version‡: 19666729-1

Sample Layers	Asbestos Content
Gray Gasket	50% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 479-B, Gasket Lab ID-Version‡: 19666730-1

Sample Layers	Asbestos Content
Gray Gasket	50% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 480-A, Exterior window caulk Lab ID-Version‡: 19666731-1

Sample Layers	Asbestos Content
White Caulk	ND
Gray Cementitious Material with Paint	ND
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 480-B, Exterior window caulk Lab ID-Version‡: 19666732-1

Sample Layers	Asbestos Content
White Caulk	ND
Gray Cementitious Material with Paint	ND
Sample Composite Homogeneity:	Poor

Location: 481-A, Asphalt roofing Lab ID-Version‡: 19666733-1

Sample Layers	Asbestos Content
Silver Paint	ND
Black Roofing Material	ND
Sample Composite Homogeneity:	Moderate

Location: 481-B, Asphalt roofing Lab ID-Version‡: 19666734-1

Sample Layers	Asbestos Content
Silver Paint	ND
Black Roofing Material	ND
Sample Composite Homogeneity:	Moderate

Location: 482-1, Wire wrap and debris Lab ID-Version‡: 19666735-1

Sample Layers	Asbestos Content
Tan Wrap	ND
Black Wiring Insulation	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 482-2, Wire wrap and debris Lab ID-Version‡: 19666736-1

Sample Layers	Asbestos Content
Tan Wrap	ND
Black Wiring Insulation	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 483-A, Vent insulation Lab ID-Version‡: 19666737-1

Sample Layers	Asbestos Content
Brown Insulation	ND
Gray Cementitious Material	ND
Black Felt	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Poor

Location: 483-B, Vent insulation Lab ID-Version‡: 19666738-1

Sample Layers	Asbestos Content
Brown Insulation	ND
Gray Cementitious Material	ND
Black Felt	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Poor

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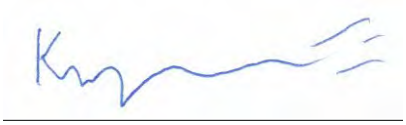
Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Kyle DeBow

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003959103

CHAIN OF CUSTODY eurofins

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Burlingame, CA: 111 Anza Blvd, Suite 122, Burlingame, CA 94010 * **(866) 888-6653**

WEATHER	Fog	Rain	Snow	Wind	Clear
LEVEL None					
Light					
Moderate					
Heavy					

CONTACT INFORMATION

Company	Terracon Consulting Eng & Scientists - Portland (29052)	Address:	700 NE 55th Ave Portland, OR 97213
Contact	Rick Rodriguez	Special Instructions:	Samuel.tobey@terracon.com Erik.Johnson@terracon.com
Phone	503-742-7173		

PROJECT INFORMATION

Project ID:	Former Blue Heron Paper Mill		
Project Description:	DeInk Buildings		
Project Zip Code:		Sampling Date/Time:	2/21/2025
PO Number:	82257039	Sampled By:	RJR/EJ

TURN AROUND TIME CODES - (TAT)

STD - Standard (Default)
ND - Next Business Day
SD - Same Business Day
WH - Weekend/Holiday/ASAP

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
See Attached	—	B	ND	—	19 Sample

Non-Culturable

Spore Trap	Tape, Swab, Bulk				
Spore Trap Analysis	Other biological particles - supplement	Direct Microscopic Exam (Qualitative)	Quantitative spore count direct exam	Dust Characterization	

Culturable

BioCassette™ Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate							
T-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain and Counts (Culturable Air and Surface Bacteria)	*Legionella* culture	Total Coliform, E.coli (Presence/Absence)	QuantiTray-Sewage Screen	OTHER: (please specify test)	

Other Requests

Asbestos in Air - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Bulk - PLM	Lead (Pb) - Flame AA	PCR (please specify test)	Allergens (please specify test)
X				

SAMPLE TYPE CODES

BC - BioCassette™	**CP** - Contact Plate	**T** - Tape	**O** - Other:
A1S - Andersen	**ST** - Spore Trap	**SW** - Swab	
SAS - Surface Air Sampler	**B** - Bulk	**SO** - Soil	
NP - Non-potable Water	**P** - Potable Water	**D** - Dust	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	2/24/25 1325		2/24/25 2:30pm

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

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Asbestos Inspection Detail and Chain of Custody — DEINK

Page 1 of 1

003959103

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number:

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s) All Floors | Inspection: 3/7/25

Material Type and Descriptions	Sample Number and Location	HA Qu...	...rent ...dition	Potential Future Damage
HA #/ GRID #: 4 — Material Type: MISC Material Description: ACT, Dot + fissure 2' x 4' Primary Color: White Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	4-A	Located on which floors: 2nd Located in which rooms/areas: Repulper control room Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good / Damaged / Significantly Damaged Physical Damage / Water Damage / Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 5 — Material Type: MISC Material Description: GWB + JC Primary Color: White Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	5-A	Located on which floors: 2nd Located in which rooms/areas: Repulper control room Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good / Damaged / Significantly Damaged Physical Damage / Water Damage / Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Photo of HA(s) Collected:

Additional Notes:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody

DEMR

003959103

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 822 | ection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors

Material Type and Description	Sample Number and Location	HA Quantity	Condition	Potential Future Damage
HA #/ GRID #: 6 Material Type: MISC Material Description: 4" vinyl cove base w/ cream mastic Primary Color: Gray, cream Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	6-A	Located on which floors: 2nd Located in which rooms/areas: Repulper control room Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 7 Material Type: TSI Material Description: Insulation, paper + foil backing Primary Color: Pink Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	7-A	Located on which floors: 2nd Located in which rooms/areas: Repulper Control room Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Photos of HA(s) Collected:

Additional Notes:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody

Perlin

003959103

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 8325 | ction: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s) All Floors

Material Type and Description	Sample Number and Location	HA Quantities	Condition	Potential Future Damage

HA #/ GRID #: 16 | **Material Type:** MISC

Material Description: Fiberous Debris

Primary Color: Brown

Other Material Details:

Texture: Fissured Grooved Rough Smooth Not Visible NA

NESHAP: Friable Cat 1 Cat 2 SACM NSM

Sample Number and Location: 16-A

Located on which floors: 4th

Located in which rooms/areas: repulper

Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other

HA Quantities:

Condition: Good | Damaged | Significantly Damaged | Physical Damage | Water Damage | Air Erosion

Potential Future Damage: Contact: None L M H | Vibration: None L M H | Air Erosion: None L M H | Water: None L M H

HA #/ GRID #: 17 | **Material Type:** MISC

Material Description: Gasket in Debris

Primary Color: Black, red

Other Material Details:

Texture: Fissured Grooved Rough Smooth Not Visible NA

NESHAP: Friable Cat 1 Cat 2 SACM NSM

Sample Number and Location: 17-A

Located on which floors: ~~repulper~~ 4th

Located in which rooms/areas: repulper

Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other

HA Quantities:

Condition: Good | Damaged | Significantly Damaged | Physical Damage | Water Damage | Air Erosion

Potential Future Damage: Contact: None L M H | Vibration: None L M H | Air Erosion: None L M H | Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody

PERMIT

003959103

Page 1 of 2

Property Name: Former Blue Heron Paper Mill	Project Area: No. Paper Machine Finishing and Warehouse	Project Number: 8225703
Property Address: 419 Main Street, Oregon City, Oregon	Floor(s) All Floors	Inspe

Material Type and Descriptions	Sample Number and Location	HA Quantities at	Condition	Potential Future Damage
HA #/ GRID # 18 — Material Type: Misc Material Description: Asphalt roofing Primary Color: Black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NAM	18-A	Located on which floors: 1st Located in which rooms/areas: repulper Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID # 19 — Material Type: Misc Material Description: Wall mastic Primary Color: White Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NAM	19-A	Located on which floors: 1st Located in which rooms/areas: repulper Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Photo of HA(s) Collected:

Additional Notes:

Samples Collected By:

Date:

Samples Relinquished By:

Date:

Samples Relinquished to:

Date:

Asbestos Inspection Detail and Chain of Custody

PETER

003959103

Property Name: Former Blue Heron Paper Mill	Project Area: No. Paper Machine Finishing and Warehouse	Project Number: 8225
Property Address: 419 Main Street, Oregon City, Oregon	Floor(s): All Floors	In

ction: 3/7/25

Material Type and Descriptions	Sample Number and Location	HA Quantities	Condition	Potential Future Damage
HA #/ GRID #: 20 — Material Type: MISC Material Description: Grout associated w/ glass blocks Primary Color: Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	20-A	Located on which floors: Located in which rooms/areas: repulper, South exterior Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 479 — Material Type: MISC Material Description: Gasket Primary Color: Black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	479-A 479-B	Located on which floors: 3rd Located in which rooms/areas: Debris thought Project Area Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Photo of HA(s) Collected:

Additional Notes:

Samples Collected By:
Date:

Samples Relinquished By:
Date:

Samples Relinquished to:
Date:

Asbestos Inspection Detail and Chain of Custody — DEINK — Page 2 of 4

003959103

Property Name: Former Blue Heron Paper Mill | Project Area: NG. Paper Machine Finishing and Warehouse | Project Number: 822 | ection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s) All Floors

Material Type and Descriptions	Sample Number and Location	HA Quantit		Potential Future Damage
HA #/ GRID #: 480 — Material Type: MISC	480-A	Located on which floors:	Good	Contact: None L M H
Material Description: Exterior window Caulk	480-B	Located in which rooms/areas: Deink North Side	Damaged	Vibration: None L M H
Primary Color: Grey		Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other:	Significantly Damaged	Air Erosion: None L M H
Other Material Details:		HA Quantities:	Physical Damage	Water: None L M H
Texture: Fissured Grooved Rough Smooth Not Visible NA			Water Damage	
NESHAP: Friable Cat 1 Cat 2 SACM NSM			Air Erosion	
HA #/ GRID #: 481 — Material Type: MISC	481-A	Located on which floors:	Good	Contact: None L M H
Material Description: Asphalt roofing	481-B	Located in which rooms/areas: Substation Roof	Damaged	Vibration: None L M H
Primary Color: Silver, Black		Locations of HA with area: Ceiling Wall Floor (Roof) Stairs Interstitial Spaces Other:	Significantly Damaged	Air Erosion: None L M H
Other Material Details:		HA Quantities:	Physical Damage	Water: None L M H
Texture: Fissured Grooved Rough Smooth Not Visible NA			Water Damage	
NESHAP: Friable Cat 1 Cat 2 SACM NSM			Air Erosion	

Photo of HA(s) Collected:

Additional Notes:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody

Pe Ink

003959103

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 82257 | tion: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | ing

Material Type and Descriptions	Sample Number and Location	HA Quantities		Potential Future Damage
HA #/ GRID # 492 — Material Type: MISC Material Description: Wire wrap + debris Primary Color: black, orange, tan Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	492-1 492-2	Located on which floor/s: Located in which rooms/areas: substation Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID # 483 — Material Type: TSI Material Description: Vent insulation Primary Color: brown, black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	483-A 483-B	Located on which floors: 3rd Located in which rooms/areas: Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Photo of HA(s) Collected:

Additional Notes

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

eurofins | Built Environment Testing

Report for:

Rick Rodriguez
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Blue Heron Paper Mill; Delnk Bldg
EML ID: 3962858

Approved by:

Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-27-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Blue Heron Paper Mill; Delnk Bldg

Date of Sampling: 02-26-2025
Date of Receipt: 02-26-2025
Date of Report: 02-27-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	2
Total Samples Analyzed:	2
Total Samples with Layer Asbestos Content > 1%:	0

Location: 493-A, Terracotta Tile Lab ID-Version‡: 19689911-1

Sample Layers	Asbestos Content
Tan Tile	ND
Sample Composite Homogeneity:	Good

Location: 493-B, Terracotta Tile Lab ID-Version‡: 19689912-1

Sample Layers	Asbestos Content
Tan Tile	ND
Sample Composite Homogeneity:	Good

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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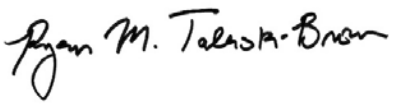
Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez
Re: Blue Heron Paper Mill; Delnk Bldg

Date of Sampling: 02-26-2025
Date of Receipt: 02-26-2025
Date of Report: 02-27-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Ryan Talaski-Brown

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CHAIN OF CUSTODY

www.eurofinsus.com/Built

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East: (866) 871-1984
Central: (800) 651-4802
West: (866) 888-8653

CONTACT INFORMATION

Company:	Terracon	Address:	
Contact:	Ruck Rodriguez	Special Instructions:	samuel.tobey@terracon.com
Phone:	206-780-3491		

PROJECT INFORMATION

Project ID:	Blue Heron Paper Mill		
Project Description:	Delnk Bldg		
Project Zip Code:		Sampling Date & Time:	2/26/25
PO Number:	82257039	Sampled By:	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
493	—				
493-A	Terracotta tile	B	ND		
493-B	"	B	ND		

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk						PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	Asbestos Bulk PLM	EPA Point Count (200 Point Count)	EPA Point Count (400 Point Count)	EPA Point Count (1000 Point Count)	Gravimetric Point Count (400 Pt Count)	Gravimetric Point Count (1000 Pt Count)	CARB 435 Method (400 Point Count)	CARB 435 Method (1000 Point Count)	Lead Analysis – Flame AA		
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SAMPLE TYPE CODES

A – Air	W – Wipe
B – Bulk	T – Tape
D – Dust	R – Rock
SO – Soil	O – Other

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	1426 2/26/25		2-26-25 2:30

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at: https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

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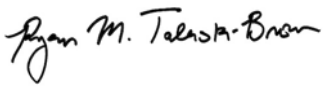
Report for:

Erik Johnson
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Former Blue Heron Paper Mill, Paper Machine #4
EML ID: 3959130

Approved by:



Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-25-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

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Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	26
Total Samples Analyzed:	26
Total Samples with Layer Asbestos Content > 1%:	3

Location: 22-A, 12"x12" blue vinyl floor tile w/ yellow mastic, white leveling compound

Lab ID-Version‡: 19666485-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

Location: 22-B, 12"x12" blue vinyl floor tile w/ yellow mastic, white leveling compound

Lab ID-Version‡: 19666486-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

Location: 23-A, 4" tan cove base w/ tan mastic

Lab ID-Version‡: 19666487-1

Sample Layers	Asbestos Content
Tan Cove Base	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 23-B, 4" tan cove base w/ tan mastic

Lab ID-Version‡: 19666488-1

Sample Layers	Asbestos Content
Tan Cove Base	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 24-A, 12"x12" ceiling tiles w/ mastic dots Lab ID-Version‡: 19666489-1

Sample Layers	Asbestos Content
Tan Ceiling Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

Location: 24-B, 12"x12" ceiling tiles w/ mastic dots Lab ID-Version‡: 19666490-1

Sample Layers	Asbestos Content
Tan Ceiling Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

Location: 26-A, Tan sheet vinyl w/ mastic Lab ID-Version‡: 19666491-1

Sample Layers	Asbestos Content
Tan Sheet Flooring with Fibrous Backing	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 27-A, White fiberglass reinforced plastic panels with tan mastic Lab ID-Version‡: 19666492-1

Sample Layers	Asbestos Content
White Fiberglass Reinforced Plastic	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Poor

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 35-A, 12"x12" ceiling tiles w/ mastic Lab ID-Version‡: 19666493-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

Location: 35-B, 12"x12" ceiling tiles w/ mastic Lab ID-Version‡: 19666494-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Poor

Location: 48-A, Black rubber membrane w/ mastic and foam over sheet vinyl w/ cream mastic Lab ID-Version‡: 19666495-1

Sample Layers	Asbestos Content
Light Brown Sheet Flooring with Fibrous Backing	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 49-A, 6" brown vinyl, vinyl cove base w/ brown mastic Lab ID-Version‡: 19666496-1

Sample Layers	Asbestos Content
Brown Cove Base	ND
Tan Mastic with Paint	ND
Sample Composite Homogeneity:	Moderate

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Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 50-A, Black fiberglass insulation w/ black felt Lab ID-Version‡: 19666497-1

Sample Layers	Asbestos Content
Black Insulation	ND
Composite Non-Asbestos Content:	95% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 51-A, Drywall w/ JC Lab ID-Version‡: 19666498-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 484-A, Roof tar Lab ID-Version‡: 19666499-1

Sample Layers	Asbestos Content
Gray/Black Roofing Tar	8% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 484-B, Roof tar Lab ID-Version‡: 19666500-1

Sample Layers	Asbestos Content
Gray/Black Roofing Tar	8% Chrysotile
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 485-A, Concrete

Lab ID-Version‡: 19666501-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Poor

Location: 485-B, Concrete

Lab ID-Version‡: 19666502-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Poor

Location: 486-A, CAB exterior maintenance

Lab ID-Version‡: 19666503-1

Sample Layers	Asbestos Content
Gray Fiberboard with Red Coating	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Poor

Location: 486-B, CAB exterior maintenance

Lab ID-Version‡: 19666504-1

Sample Layers	Asbestos Content
Light Gray Transite Siding with Green Coating	15% Chrysotile
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 487-A, Glue dots

Lab ID-Version‡: 19666505-1

Sample Layers	Asbestos Content
White Fibrous Material	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 487-B, Glue dots

Lab ID-Version‡: 19666506-1

Sample Layers	Asbestos Content
White Fibrous Material	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 488-A, Black fiberglass tar

Lab ID-Version‡: 19666507-1

Sample Layers	Asbestos Content
Black Tar	ND
Composite Non-Asbestos Content:	6% Synthetic Fibers 4% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 488-B, Black fiberglass tar

Lab ID-Version‡: 19666508-1

Sample Layers	Asbestos Content
Black Tar	ND
Composite Non-Asbestos Content:	6% Synthetic Fibers 4% Glass Fibers
Sample Composite Homogeneity:	Poor

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Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 489-A, Blue VFT

Lab ID-Version‡: 19666509-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

Location: 489-B, Blue VFT

Lab ID-Version‡: 19666510-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

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All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

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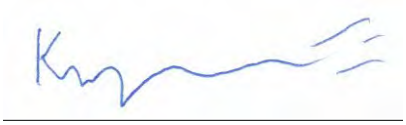
Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Paper Machine #4

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Kyle DeBow

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003959116

CHAIN OF CUSTODY eurofins

Built Environment Testing

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Marlton, NJ: 3000 Lincoln Dr E, Ste. A, Marlton, NJ 08053 * **(866) 871-1984**
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Burlingame, CA: 111 Anza Blvd, Suite 122, Burlingame, CA 94010 * **(866) 888-6653**

WEATHER	Fog	Rain	Snow	Wind	Clear
LEVEL None					
Light					
Moderate					
Heavy					

CONTACT INFORMATION

Company:	Terracon Consulting Eng & Scientists - Portland (29052)	Address:	700 NE 55th Ave Portland, OR 97213
Contact:	Rick Rodriguez	Special Instructions:	samuel.tobey@terracon.com Erik.Johnson@terracon.com
Phone:	503-742-7173		

PROJECT INFORMATION

Project ID:	Former Blue Heron Paper Mill		
Project Description:	Sulphite Building		
Project Zip Code:		Sampling Date/Time:	2/21/25
PO Number:	82257039	Sampled By:	RJR / EJ

TURN AROUND TIME CODES - (TAT)

STD - Standard (Default)
ND - Next Business Day
SD - Same Business Day
WH - Weekend/Holiday/ASAP

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES

Non-Culturable

- Spore Trap
- Tape, Swab, Bulk
  - Spore Trap Analysis
  - Other biological particles - supplement
  - Direct Microscopic Exam (Qualitative)
  - Quantitative spore count direct exam
  - Dust Characterization

Culturable

- BioCassette™ Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plate
  - 1-Media Surface Fungi (Genus ID + Asp. spp.)
  - Culturable Air Fungi (Genus ID + Asp. spp.)
  - Gram Stain and Counts (Culturable Air and Surface Bacteria)
  - *Legionella* culture
  - Total Coliform, *E.coli* (Presence/Absence)
  - QuantiTray-Sewage Screen
  - OTHER: (please specify test)

Other Requests

- Asbestos in Air - PCM Airborne Fiber Count (NIOSH 7400)
- Asbestos Bulk - PLM: X
- Lead (Pb) - Flame AA
- PCR (please specify test)
- Allergens (please specify test)

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
See attached	—	B	ND	-	17 samples

SAMPLE TYPE CODES

BC - BioCassette™	**CP** - Contact Plate	**T** - Tape	**O** - Other:
A1S - Andersen	**ST** - Spore Trap	**SW** - Swab	
SAS - Surface Air Sampler	**B** - Bulk	**SO** - Soil	
NP - Non-potable Water	**P** - Potable Water	**D** - Dust	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	3:25 PM 2/24/25		2/24/25 2:30pm

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

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Asbestos Inspection Detail and Chain of Custody

Submit

Page 1 of 2

003959116

Property Name: Former Blue Heron Paper Mill | Project Ar | Purpose | Project Number: 82257039 | Date of Inspection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s) All | Inspector(s): Brianna Young, Rick Rodriguez

Material Type and Descriptions	Sample Number and Location	HA Quantities and HA Location	Current Condition	Potential Future Damage
HA #/ GRID #: 155 Material Type: Misc Material Description: Roofing, asphalt built up Primary Color: Silver, black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	155-A	Located on which floors: Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: Material Type: Material Description: Primary Color: Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM		Located on which floors: Located in which rooms/areas: Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected by: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date | Date:

Asbestos Inspection Detail and Chain of Custody — Sulphite

Page 4 of 5

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Num

003959116

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | ls of Inspection: 3/7/25

Lodorigoez

Material Type and Descriptions	Sample Number and Location	HA	Current Condition	Potential Future Damage
HA #/ GRID #: 470 — Material Type: MISC Material Description: Gasket Primary Color: Black, grey Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	470 - A ✓ 470 - B ✓	Located on which floors: Located in which rooms/areas: upper tank room Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 471 — Material Type: MISC Material Description: Gasket Primary Color: Red, black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	471 - A ✓ 471 - B ✓	Located on which floors: Located in which rooms/areas: Debris throughout Project Area Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes

Photo of HA(s) Collected

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody — Sulphate

Page 3 of 5

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Num

003959116

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | Date of Inspection: 3/7/25

Material Type and Descriptions	Sample Number and Location	HA	Current Condition	Potential Future Damage
HA #/ GRID #: 472 — Material Type: MISC Material Description: Fiberas asphalt roofing shingle Primary Color: Black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	472-A ✓ 472-B ✓	Located on which floors: 3rd floor Located in which rooms/areas: Bridge & Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 473 — Material Type: MISC Material Description: granular cement Primary Color: tan, grey Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	473-A ✓ 473-B	Located on which floors: Located in which rooms/areas: Sulphate tank interior Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody

Sulphite

003959116

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 8225 | ...ction: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors

Material Type and Descriptions	Sample Number and Location	HA Quantities	Condition	Potential Future Damage
HA #/ GRID #: 474 Material Type: MISC Material Description: Gasket Primary Color: Black, Red Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	474 - A ✓ 474 - B ✓	Located on which floors: Located in which rooms/areas: Debris throughout Project Area Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 475 Material Type: MISC Material Description: Metal, tank coating Primary Color: Black, rust red Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	475 - A ✓ 475 - B ✓	Located on which floors: Located in which rooms/areas: sulphate tank Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody — Sulphur

003959116

Property Name: Former Blue Heron Paper Mill | Project Area/ No: Paper Machine Finishing and Warehouse | Project Number: 8 | Inspection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors

Material Type and Descriptions	Sample Number and Location	HA Quan...	Condition	Potential Future Damage
HA #/ GRID #: 476 — Material Type: TSI Material Description: Fiberglass wrap Primary Color: White black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	476- A 476 -B	Located on which floors: Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 478 — Material Type: MISC Material Description: Asphalt roof patch Primary Color: Black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	478- A 478 - B	Located on which floors: Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photos of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

eurofins | Built Environment Testing

Report for:

Rick Rodriguez
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Blue Heron Paper Mill; Bldg 42A Paper Machine #4
EML ID: 3962862

Approved by:

Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-27-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Rick Rodriguez

Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Re: Blue Heron Paper Mill; Bldg 42A Paper Machine
#
4

Date of Sampling: 02-26-2025
Date of Receipt: 02-26-2025
Date of Report: 02-27-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	8
Total Samples Analyzed:	8
Total Samples with Layer Asbestos Content > 1%:	2

Location: 490-A, Stair Tread South

Lab ID-Version‡: 19689898-1

Sample Layers	Asbestos Content
Gray Stair Tread	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 490-B, Stair Tread South

Lab ID-Version‡: 19689899-1

Sample Layers	Asbestos Content
Gray Stair Tread	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 491-A, Roof Felt

Lab ID-Version‡: 19689900-1

Sample Layers	Asbestos Content
Black Roofing Felt	ND
Composite Non-Asbestos Content:	20% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 491-B, Roof Felt

Lab ID-Version‡: 19689901-1

Sample Layers	Asbestos Content
Black Roofing Felt	ND
Composite Non-Asbestos Content:	20% Glass Fibers
Sample Composite Homogeneity:	Good

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C/O: Rick Rodriguez

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(833) 465-5857 www.eurofinsus.com/Built

Re: Blue Heron Paper Mill; Bldg 42A Paper Machine
#
4

Date of Sampling: 02-26-2025
Date of Receipt: 02-26-2025
Date of Report: 02-27-2025

ASBESTOS PLM REPORT

Location: 492-A, Roof Built Up

Lab ID-Version‡: 19689902-1

Sample Layers	Asbestos Content
Black Roofing Material 1	ND
Black Roofing Material 2	5% Chrysotile
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 492-B, Roof Built Up

Lab ID-Version‡: 19689903-1

Sample Layers	Asbestos Content
Black Roofing Material	8% Chrysotile
Composite Non-Asbestos Content:	8% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: 37-A, Grey Cove Base w/Mastic

Lab ID-Version‡: 19689904-1

Sample Layers	Asbestos Content
Gray Cove Base	ND
Brown Mastic	ND
Sample Composite Homogeneity:	Good

Location: 37-B, Tan Cove Base w/Mastic

Lab ID-Version‡: 19689905-1

Sample Layers	Asbestos Content
Tan Non-Fibrous Material	ND
White Compound with Paper Backing	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

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C/O: Rick Rodriguez
Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

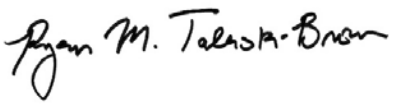
Re: Blue Heron Paper Mill; Bldg 42A Paper Machine
#
4

Date of Sampling: 02-26-2025
Date of Receipt: 02-26-2025
Date of Report: 02-27-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Ryan Talaski-Brown

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Central: (800) 651-4802
West: (866) 888-6653

003962862

ASBESTOS ANALYSIS

CONTACT INFORMATION

Company:	Terracon	Address:	
Contact:	Rick Rodriguez	Special Instructions:	Samuel.tolley@terracon.com
Phone:	206-380-3491		

PROJECT INFORMATION

Project ID:	Blue Heron Paper Mill		
Project Description:	Bldg 42A Paper Machine #4		
Project Zip Code:		Sampling Date & Time:	2/26/25
PO Number:	82257037	Sampled By:	RSR

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES (Check boxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes	PCM Air: Fiber Count (NIOSH 7400)	PCM Air: OSHA with TWA	PLM Bulk: Asbestos Bulk PLM	PLM Bulk: EPA Point Count (200 Point Count)	PLM Bulk: EPA Point Count (400 Point Count)	PLM Bulk: EPA Point Count (1000 Point Count)	PLM Bulk: Gravimetric Point Count (400 Pt Count)	PLM Bulk: Gravimetric Point Count (1000 Pt Count)	PLM Rock & Soil: CARB 435 Method (400 Point Count)	PLM Rock & Soil: CARB 435 Method (1000 Point Count)	Other Requests: Lead Analysis – Flame AA	Other Requests	Other Requests
490A	Stucco trend South	B	ND			☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
490B	"	B				☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
491-A	Roof Felt	B				☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
491-B	"	B				☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
492-A	Roof Built up	B				☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
492-B	"	B				☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
37A	Grey Cove base w/mastic	B				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
38-A	Tan wall panel w/ mastic	B				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe		MST 2/26/25		2-26-25 2:30
B – Bulk	T – Tape				
D – Dust	R – Rock				
SO – Soil	O – Other				

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at: https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

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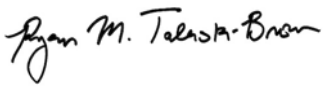
Report for:

Erik Johnson
Terracon Consulting Eng & Scientists - Portland
700 NE 55th Ave
Portland, OR 97213

Regarding: Eurofins Built Environment Testing West, LLC
Project: Former Blue Heron Paper Mill, Sulphite Building
EML ID: 3959116

Approved by:



Technical Manager
Ryan Talaski-Brown

Dates of Analysis:
Asbestos PLM: 02-25-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200741-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins Built Environment Testing West, LLC
4321 S. Corbett Ave. Suite A, Portland, OR 97239
(833) 465-5857 www.eurofinsus.com/Built

Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Sulphite Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	17
Total Samples Analyzed:	17
Total Samples with Layer Asbestos Content > 1%:	5

Location: 155-A, Roofing, asphalt built up Lab ID-Version‡: 19666661-1

Sample Layers	Asbestos Content
Silver Paint	ND
Black Roofing Material	15% Chrysotile
Sample Composite Homogeneity:	Poor

Location: 470-A, Gasket Lab ID-Version‡: 19666662-1

Sample Layers	Asbestos Content
Gray Gasket	40% Chrysotile
Sample Composite Homogeneity:	Poor

Location: 470-B, Gasket Lab ID-Version‡: 19666663-1

Sample Layers	Asbestos Content
Gray Gasket	40% Chrysotile
Sample Composite Homogeneity:	Poor

Location: 471-A, Gasket Lab ID-Version‡: 19666664-1

Sample Layers	Asbestos Content
Brown/Black Gasket	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: Terracon Consulting Eng & Scientists - Portland
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Sulphite Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 471-B, Gasket

Lab ID-Version‡: 19666665-1

Sample Layers	Asbestos Content
Brown/Black Gasket	ND
Sample Composite Homogeneity:	Moderate

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Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 472-A, Fibrous asphalt roofing shingle Lab ID-Version‡: 19666666-1

Sample Layers	Asbestos Content
Brown/Black Asphalt Roofing Shingle	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

Location: 472-B, Fibrous asphalt roofing shingle Lab ID-Version‡: 19666667-1

Sample Layers	Asbestos Content
Brown/Black Asphalt Roofing Shingle	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

Location: 473-A, Granular cement Lab ID-Version‡: 19666668-1

Sample Layers	Asbestos Content
Off-White Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Location: 473-B, Granular cement Lab ID-Version‡: 19666669-1

Sample Layers	Asbestos Content
Off-White Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Sulphite Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 474-A, Gasket

Lab ID-Version‡: 19666670-1

Sample Layers	Asbestos Content
Red-Brown Gasket	ND
Sample Composite Homogeneity:	Moderate

Location: 474-B, Gasket

Lab ID-Version‡: 19666671-1

Sample Layers	Asbestos Content
Red-Brown Gasket	ND
Sample Composite Homogeneity:	Moderate

Location: 475-A, Metal, tank coating

Lab ID-Version‡: 19666672-1

Sample Layers	Asbestos Content
Gray Coating on Metal	ND
Sample Composite Homogeneity:	Poor

Location: 475-B, Metal, tank coating

Lab ID-Version‡: 19666673-1

Sample Layers	Asbestos Content
Gray Coating on Metal	ND
Sample Composite Homogeneity:	Poor

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C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Sulphite Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

Location: 476-A, Fiberglass wrap Lab ID-Version‡: 19666674-1

Sample Layers	Asbestos Content
White Wrap Debris	ND
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 476-B, Fiberglass wrap Lab ID-Version‡: 19666675-1

Sample Layers	Asbestos Content
White Wrap Debris	ND
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 478-A, Asphalt roof patch Lab ID-Version‡: 19666676-1

Sample Layers	Asbestos Content
Gray/Black Roofing Tar	8% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 478-B, Asphalt roof patch Lab ID-Version‡: 19666677-1

Sample Layers	Asbestos Content
Gray/Black Roofing Tar	8% Chrysotile
Sample Composite Homogeneity:	Moderate

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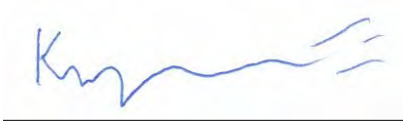
C/O: Erik Johnson
Re: Former Blue Heron Paper Mill, Sulphite Building

Date of Receipt: 02-24-2025
Date of Report: 02-25-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Kyle DeBow

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003959116

CHAIN OF CUSTODY eurofins

Built Environment Testing

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Burlingame, CA: 111 Anza Blvd, Suite 122, Burlingame, CA 94010 * **(866) 888-6653**

WEATHER	Fog	Rain	Snow	Wind	Clear
LEVEL None					
Light					
Moderate					
Heavy					

CONTACT INFORMATION

Company	Terracon Consulting Eng & Scientists - Portland (29052)	Address:	700 NE 55th Ave Portland, OR 97213
Contact:	Rick Rodriguez	Special Instructions:	samuel.tobey@terracon.com Erik.Johnson@terracon.com
Phone	503-742-7173		

PROJECT INFORMATION

Project ID	Former Blue Heron Paper Mill		
Project Description	Sulphite Building	Sampling Date/Time:	2/21/25
Project Zip Code:		Sampled By:	RJR/EJ
PO Number	82257039		

TURN AROUND TIME CODES - (TAT)

STD - Standard (Default)
ND - Next Business Day
SD - Same Business Day
WH - Weekend/Holiday/ASAP

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES

Non-Culturable

- Spore Trap
- Tape, Swab, Bulk
  - Spore Trap Analysis
  - Other biological particles - supplement
  - Direct Microscopic Exam (Qualitative)
  - Quantitative spore count direct exam
  - Dust Characterization

Culturable

- BioCassette™ Andersen, SAS Swab, Water, Bulk, Dust, Soil Contact Plate
  - Yr/Media Surface Fungi (Genus ID + Asp. spp.)
  - Culturable Air Fungi (Genus ID + Asp. spp.)
  - Gram Stain and Counts (Culturable Air and Surface Bacteria)
  - *Legionella* culture
  - Total Coliform, *E.coli* (Presence/Absence)
  - QuantiTray-Sewage Screen
  - OTHER: (please specify test)

Other Requests

- Asbestos in Air - PCM Airborne Fiber Count (NIOSH 7400)
- Asbestos Bulk - PLM
- Lead (Pb) - Flame AA
- PCR (please specify test)
- Allergens (please specify test)

SAMPLE ID	DESCRIPTION	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)	Asbestos
See attached	—	B	ND	-	17 samples	X

SAMPLE TYPE CODES

BC - BioCassette™	**CP** - Contact Plate	**T** - Tape	**O** - Other
A1S - Andersen	**ST** - Spore Trap	**SW** - Swab	
SAS - Surface Air Sampler	**B** - Bulk	**SO** - Soil	
NP - Non-potable Water	**P** - Potable Water	**D** - Dust	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	3:25 PM 2/24/25		

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

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Asbestos Inspection Detail and Chain of Custody

003959116

Page 1 of

Property Name: Former Blue Heron Paper Mill	Project Ar	Project Number: 82257039	Date of Inspection: 3/7/25
Property Address: 419 Main Street, Oregon City, Oregon	Floor(s) All		Inspector(s): Brianna Young, Rick Rodriguez

Material Type and Descriptions	Sample Number and Location	HA Quantities and HA Location	Current Condition	Potential Future Damage
HA #/ GRID #: 155 Material Type: Misc Material Description: Roofing, asphalt built up Primary Color: Silver, black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	155-A	Located on which Floor(s): Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: Material Type: Material Description: Primary Color: Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM		Located on which Floor(s): Located in which room/areas: Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By:

Date:

Samples Relinquished By:

Date:

Samples Relinquished to:

Date:

Asbestos Inspection Detail and Chain of Custody

Sulphur

003959116

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Num | Date of Inspection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | Inspector: Rodriguez

Material Type and Descriptions	Sample Number and Location	HA	Current Condition	Potential Future Damage
HA #/ GRID #: 470 Material Type: Misc Material Description: Gasket Primary Color: Black, grey Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	470 - A ✓ 470 - B ✓	Located on which floor(s): Located in which room/areas: upper tank room Location of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 471 Material Type: Misc Material Description: Gasket Primary Color: Red, black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	471 - A ✓ 471 - B ✓	Located on which floor(s): Located in which room/areas: Debris throughout Project Area Location of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody — Sulphite — Page 2 of 5

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Num | 003959116 | Date of Inspection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | Rodriguez

Material Type and Descriptions	Sample Number and Location	HA	Current Condition	Potential Future Damage
HA #/ GRID #: 472 — Material Type: MISC Material Description: Fiberas asphalt roofing Shingle Primary Color: Black Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	472-A ✓ 472-B ✓	Located on which floors: 3rd Floor Located in which rooms/areas: Bridge & Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 473 — Material Type: MISC Material Description: granular cement Primary Color: tan, grey Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	473- A ✓ 473- B	Located on which floors: Located in which rooms/areas: Sulphate tank interior Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

5

Asbestos Inspection Detail and Chain of Custody — Sulphate — Page 4 of 5

003959116

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 9225 | ...ction: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s) All Floors

Material Type and Descriptions	Sample Number and Location	HA Quantities	Condition	Potential Future Damage
HA #/ GRID #: 474 — Material Type: MISC Material Description: Gasket Primary Color: Black, Red Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	474 - A 474 - B	Located on which floors: Located in which rooms/areas: Debris throughout Project Area Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 475 — Material Type: MISC Material Description: Metal, tank coating Primary Color: Black, rust red Other Material Details: Texture: Fissured Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	475 - A 475 - B	Located on which floors: Located in which rooms/areas: sulphate tank Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

Asbestos Inspection Detail and Chain of Custody — Sulphite

003959116

Property Name: Former Blue Heron Paper Mill | Project Area: No. Paper Machine Finishing and Warehouse | Project Number: 8 | Inspection: 3/7/25

Property Address: 419 Main Street, Oregon City, Oregon | Floor(s): All Floors | Issues:

Material Type and Descriptions	Sample Number and Location	HA Quan...	Condition	Potential Future Damage
HA #/ GRID #: 476 — Material Type: TSI Material Description: Fiberglass wrap Primary Color: White black Other Material Details: Texture: Frosted Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	476- A 476 -B	Located on which floors: Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H
HA #/ GRID #: 478 — Material Type: Misc Material Description: Asphalt roof patch Primary Color: Black Other Material Details: Texture: Frosted Grooved Rough Smooth Not Visible NA NESHAP: Friable Cat 1 Cat 2 SACM NSM	478- A 478 - B	Located on which floors: Located in which rooms/areas: Roof Locations of HA with area: Ceiling Wall Floor Roof Stairs Interstitial Spaces Other: HA Quantities:	Good Damaged Significantly Damaged Physical Damage Water Damage Air Erosion	Contact: None L M H Vibration: None L M H Air Erosion: None L M H Water: None L M H

Additional Notes:

Photo of HA(s) Collected:

Samples Collected By: | Samples Relinquished By: | Samples Relinquished to:

Date: | Date: | Date:

APPENDIX E
PHOTOGRAPH LOG

Photo 1: No. 4 Paper Machine – Building 45, 46

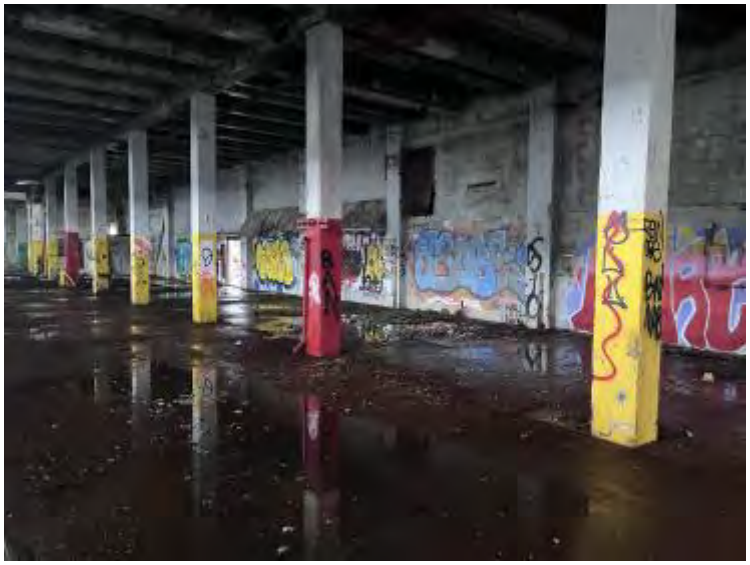

Photo 2: No 4 Paper Machine

Photo 3: No 4 Paper Machine

Photo 4: No 4 Paper Machine

Photo 5: No 4 Paper Machine

Photo 6: No 4 Paper Machine Roof

Photo 7: No 4 Paper Machine Roof

Photo 8: Sulphite Plant Roof

Photo 9: Sulphite Plant Roof

Photo 10: Sulphite Plant Roof

APPENDIX F
APEX Pre-Demolition Asbestos and Lead Paint Survey

December 7, 2018

Mr. George Heidgerken
Falls Legacy, LLC
420 East 18th Street
Tacoma, Washington 98421

RE: PRE-DEMOLITION ASBESTOS AND LEAD PAINT SURVEY
FORMER BLUE HERON MILL
MAIN STREET
OREGON CITY, OREGON

Apex Project No.: 320002449

Dear Mr. Heidgerken:

At the request of Falls Legacy, LLC (client), Apex Companies, LLC (Apex) has prepared this Pre-Demolition Hazardous Building Materials Survey of the former Blue Heron Mill located on Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site).

The survey was performed to facilitate design development for the removal of suspect asbestos-containing materials (ACMs), lead-containing paints, and other suspect hazardous building materials, such as mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment.

Apex collected samples of interior and exterior building materials that were accessible at the time of the survey and would be disturbed during demolition-related activities. Apex conducted the inspection between October 15 and November 9, 2018, in accordance with our proposal, authorized on October 3, 2018.

Please do not hesitate to contact Apex with any questions related to this report.

Sincerely,
Apex Companies, LLC

Chris Clough
Staff Scientist

Dan Fitzgibbons
Division Practice Lead

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Appendix B – Lead Paint Chip Laboratory Analytical Reports, Associated Chain-of-Custody Documents & Laboratory Certifications
Appendix C – Apex Personnel Certifications
Appendix D – Site Photographs

EXECUTIVE SUMMARY

Apex Companies, LLC (Apex) was retained by Falls Legacy, LLC to conduct a hazardous building materials survey for the former Blue Heron Mill located at Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site). The purpose of this survey was to identify suspect asbestos-containing materials (ACMs), lead-containing paints, mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment and other suspect hazardous building materials that may be impacted by the intended demolition of the Site.

ASBESTOS-CONTAINING MATERIALS

During the assessment, Apex collected 469 bulk samples for asbestos analysis (675 sample layers), which were analyzed by EMSL Analytical, Inc. (EMSL) in Seattle, Washington. The following ACMs were identified during Apex's asbestos survey:

- Corrugated cement asbestos board (transite) exterior siding;
- Cement asbestos board on interior walls;
- Asphaltic built-up roofing;
- Vinyl sheet flooring with yellow pebble pattern;
- White sink undercoating
- 9-inch by 9-inch green vinyl floor tile;
- 12-inch by 12-inch green vinyl floor tile;
- Black mastic associated with 12-inch by 12-inch gray vinyl floor tile;
- Brown mastic associated with 4-inch black vinyl cove base;
- Black mastic dots associated with 12-inch by 12-inch ceiling tiles;
- Black mastic associated with 12-inch by 12-inch brown vinyl floor tile;
- Black mastic associated with tan vinyl floor tile beneath gray carpet;
- Brown mastic associated with white fiber-reinforced wall panels;
- Red vinyl sheet flooring;
- 9-inch by 9-inch green vinyl floor tile with black mastic;
- Asphaltic stair tread on stairs;
- Multiple layers of asphaltic built-up roofing with non-asbestos silver paint;
- Black mastic associated with ceramic electric insulator on west exterior of Environmental Lab;
- 9-inch by 9-inch brown vinyl floor tile with black mastic;
- 2-foot by 4-foot acoustic ceiling panels;
- Black sink undercoating;
- Black laboratory countertop;
- Beige vinyl sheet flooring;
- Black mastic associated with non-asbestos pipe wrap insulation;
- Black vibration dampener/pads on curved concrete pipe supports (riverside).
- Joint compound associated with the drywall;
- Caulking behind transite on 2nd floor exterior of Water Filter Plant.
- Black asphaltic pipe coating (exposed pipe section located adjacent to HI-D tank);
- 9-inch by 9-inch white vinyl floor tile with black mastic;
- 12-inch by 12-inch beige vinyl floor tile with black mastic;
- Black mastic associated with gray vinyl sheet flooring;
- Knockdown wall texture on wood walls;
- 12-inch by 12-inch dark gray vinyl floor tile;
- Red boiler insulation in boilers A, B, C and D (Boiler Plant);
- Tank and/or pipe insulation debris (damaged) adjacent to the Recovery Boiler;
- White boiler insulation (TM Boiler, Recovery Boiler);
- Black mastic adhered to brown/black vapor barrier beneath wood siding (bridge between Paper Machine 4 & Finishing Room);
- Black pipe sealant adjacent to Paper Machine #3; under;
- Textured black coating (painted tan) on stack adjacent to Paper Machine #1;

In addition to the above-referenced ACMs, laboratory analytical results identified less than one-percent (trace) asbestos in the following building material:

- Window glazing compound;
- Skim coat on exterior concrete walls at the Paper Machine #1 building.

ACMs identified at the Site will be impacted by the intended demolition project and should be removed and disposed in accordance with federal, state and local regulations, prior to disturbance. Abatement of ACMs must be performed by a licensed asbestos-abatement contractor, prior to disturbance.

LEAD-CONTAINING PAINTS

During the survey, Apex collected 60 bulk paint chip samples for lead content, which were analyzed by EMSL in Seattle, Washington. The following lead-containing paints were identified during the survey:

- Gray paint on concrete wall of the 4th floor of Paper Machine #4.
- Light green paint on metal wall/beam on first floor of Paper Machine #4.
- Yellow paint on metal guardrail on northwest side of Paper Machine #4.
- Light green paint on wood beam of #4 Finishing Room.
- Beige paint on metal beam on southeast side of Sulphite Plant.
- Gray paint on metal tank of Sulphite Plant.
- White paint on concrete exterior wall of Chip Silo.
- Cream paint on metal sliding door on southern exterior of Weld Shop.
- Gray paint on concrete exterior wall of TMP Refiner Line.
- Gray paint on concrete masonry unit (CMU) block wall of east exterior TMP Refiner Lines.
- Yellow paint on metal bollard of Maintenance Shop.
- Green paint on wood wall of Maintenance Shop.
- White paint on metal beam on 2nd floor of TMP Refiner Lines.
- Dark blue paint on metal window of the control room of the TMP area.
- Red paint on metal beam on first floor of TMP area.
- Green paint on CMU wall of TMP area.
- Gray paint on concrete wall of Paper Machine #1.
- White paint on skim coat over CMU wall of Paper Machine #1.
- White paint on metal beam of TMP Reject Refining.
- Light gray paint on metal door of Boiler Plant basement.
- Silver paint on metal boiler of Boiler Plant basement.
- Orange paint on metal stairs of TMP HI-D tank stairs.
- Silver paint on brick wall in basement of Boiler Plant.
- White paint on metal door frame on exterior of Pipe Shop.
- White paint on concrete wall on exterior of Raw Material Storage.
- Gray paint on wood window frame on west exterior window of Carpenter Shop.
- White paint on CMU wall on north exterior in conference room of Mill O.
- White paint on concrete wall in basement of Paper Machine #3.
- White paint on wood wall of Mill D Warehouse.
- Green paint on concrete wall on 2nd floor landing of Mill D.
- White paint on concrete wall on 2nd floor landing of Mill D.
- White paint on wood beam on 2nd floor of Mill D.
- Red paint on metal fire system piping on first floor of Mill D.
- Gray paint on wood door on exterior barn door of Filter Plant.
- Green paint on concrete wall on exterior of Filter Plant.
- White paint on wood door frame of Filter Plant.
- Gray paint on metal beam of Filter Plant.

- White paint on metal light pole of Filter Plant.
- Gray paint on drywall wall on 3rd floor of Filter Plant.
- Blue paint on metal door of Guard Shack.
- Red paint on metal cabinet in Guard Shack.
- Gray paint on concrete wall in Guard Shack.
- Brown paint on concrete column in office parking area.

Necessary precautions must be taken to prevent or minimize worker exposure to lead during disturbance of lead-containing materials, as outlined in Oregon and OSHA regulations. Lead-containing materials may also require disposal classification in accordance with the federal and state regulations..

1.0 INTRODUCTION

Apex Companies, LLC (Apex) was retained by Falls Legacy, LLC to conduct a hazardous building materials survey for the former Blue Heron Mill located at Main Street adjacent to the Willamette River in Oregon City, Oregon (the Site). The purpose of this survey was to identify suspect asbestos-containing materials (ACMs), lead-containing paints, mercury-containing fluorescent light tubes, Polychlorinated Biphenyl (PCB)-containing equipment and other suspect hazardous building materials that may be impacted by the intended redevelopment of the Site.

1.1 Objective

Apex understands that the former mill property is scheduled for redevelopment, which may include the complete and/or partial demolition the Site-related structures. Prior to initiating construction-related activities, Falls Legacy, LLC retained Apex to identify potentially hazardous building materials at the Site. The objective of this survey was to identify accessible building materials that will require abatement, prior to renovations.

1.2 Scope of work

The scope of services for this hazardous building materials survey included, and was limited to, the following tasks:

- The asbestos survey was performed to identify and/or confirm the presence, location, and quantity of ACM and presumed ACM (PACM) present onsite. Materials identified as suspect ACM were sampled or presumed in accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling requirements, outlined in Chapter 40 of the Code of Federal Regulations (CFR), Part 763.86. Apex performed sampling in accordance with the Oregon Administrative Rule (OAR) 340-248-0270, as enforced by Oregon Department of Environmental Quality (DEQ) and Oregon Occupational Safety and Health Administrations (OR-OSHA) hazard communication regulations. Samples collected were analyzed for the presence of asbestos by a laboratory that is certified by the American Industrial Hygiene Association (AIHA) and the National Voluntary Lab Accreditation Participation program administered by the National Institute of Standards and Technology (NVLAP #200613-0). Samples were analyzed using polarized light microscopy (PLM) by U.S. Environmental Protection Agency (EPA) Method 600/R-93/116.
- Perform paint chip sampling on representative paints that would be disturbed during demolition-related activities. Samples collected were analyzed for total lead content by an AIHA-accredited laboratory using flame atomic absorption spectroscopy by EPA Method SW 846-3050B/7000B.
- Identify other suspect hazardous building materials, such as Polychlorinated Biphenyl (PCB)-containing ballasts and mercury-fluorescent light tubes
- Prepare tables indicating sample locations, sample types, analytical results, and/or quantities of ACM, PACM and lead-containing paints.
- Prepare figures indicating sample locations collected for analysis.
- Prepare a report that documents the findings of this survey and provides recommendations for handling the hazardous building materials identified.

1.3 Survey Limitations

The survey was completed by Apex between October 15 and November 9, 2018. The survey was limited to the observation, partially destructive sampling and analysis of suspect ACMs and LCPs in accessible portions of the Site. Common construction techniques may render portions of any building inaccessible. As a result, additional asbestos- and/or lead-containing building materials may be present in inaccessible areas (i.e., between walls, ceiling spaces enclosed by wallboard, boiler cavities, confined basement areas, etc.) of the Site that were not observed during the survey. Inaccessible areas should be presumed to contain asbestos and lead until destructive sampling is performed in those areas. Based on health and safety concerns or limited visibility, Apex did not access the following areas:

- Areas defined as confined spaces (tanks, sumps, stacks, the pipe tunnel),
- Tailraces
- The majority of the rooftops
- Basement areas;
- The upper floors of the Boiler Plant and the Raw Materials Storage building.

Additionally, some building materials may be hidden or inaccessible, due to overgrown vegetation or standing water (e.g. the filtration plant).

The findings, conclusions and recommendations discussed in this report are Apex's professional opinions, based solely upon site conditions during the survey, visual site observations and interpretations of laboratory analyses. Therefore, the opinions and recommendations present in this report may not apply to future conditions at the Site. All applicable federal, state and local regulations should be verified by building owners and contractors, prior to initiating any work that will disturb regulated building materials. This document is provided to meet regulatory requirements for the identification of asbestos and other hazardous materials and is for reporting purposes only.

This report should not be utilized as a bidding document or as a project specification document since it does not have all the components required to serve an as Abatement Project Design document or an Abatement Work Plan.

Contractors should use caution during construction-related activities as concealed hazardous building materials that were not previously analyzed may be encountered. If additional materials, not previously sampled, are later identified during demolition-related activities, then supplemental sampling should be performed. Materials identified to contain regulated quantities of asbestos or lead, must be removed and disposed in accordance with federal, state and local regulations, prior to disturbance. Abatement of regulated building materials must be performed by a licensed abatement contractor.

2.0 SITE DESCRIPTION

The Site consists of a former paper mill, encompassing approximately 23 acres of property, located directly below the Willamette Falls on the southeast side of the Willamette River. Apex was informed that the Site was originally developed in the 1800's as a woolen mill, before becoming a flour mill and a saw mill. The Site was redeveloped into a paper mill in the early 1900's and mill operations reportedly continued until February 2011, when the Blue Heron Paper Mill closed. The Site is currently vacant and during the survey, Apex observed evidence of vandalism, long-term trespassing and physical damage to a variety of building components.

The Site includes approximately 40 buildings that were associated with paper manufacturing and other historic mill-related uses. The buildings at the Site are primarily steel-framed or concrete-framed and include a boiler plant, maintenance shops, office space, a welding shop, an auto repair shop, a water filtration plant and an environmental laboratory. Other, smaller structures include silos, tanks, shelters, a security office and an electrical substation.

3.0 HAZARDOUS BUILDING MATERIALS SURVEY

Apex performed destructive sampling to investigate the interior and exterior surfaces, where accessible, due to the projected demolition of the Site. Access to some areas were limited due to accessibility or safety-related issues, including the majority of the rooftops, as well as the upper floors of the Boiler Plant and the Raw Materials Storage building. Since not all concealed areas with suspect ACMs or LCPs were surveyed, precautions may be necessary during the demolition procedures (see Limitations).

3.1 Asbestos Sampling and Analysis

The asbestos survey was performed generally following the sampling protocols as outlined under AHERA, 40 CFR 763; Oregon Administrative Rule (OAR) 340-248-0270 and Oregon Occupational Safety and Health Administrations (OR-OSHA) hazard communication regulations. Approximate quantities of suspect materials were estimated by field measurements. The condition (e.g., good, fair, poor) and friability (i.e., easily crumbled, pulverized, or reduced to powder by hand pressure) of suspect ACM was noted for each work area. Friability of each sampled material was determined by hand-touch.

Apex collected a total of 469 bulk samples (675 layers) between October 15 and November 9, 2018. Bulk asbestos samples were delivered to EMSL Analytical, Inc. (EMSL) for analysis using Polarized Light Microscopy (PLM) in accordance with the United States Environmental Protection Agency (EPA) "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116, July 1993). EMSL is located in Seattle, Washington and is accredited with the AIHA and the National Institute of Standards and Technology NVLAP (#200613-0).

3.2 Paint Chip Sampling and Analysis

Apex also collected sixty (60) bulk paint chip samples from the site to determine if the personnel performing demolition-related activities will require compliance with worker exposure regulations.

The paint chip samples and associated chain-of-custody sheets were delivered to EMSL for total lead content analysis. EMSL participates in the Environmental Lead Laboratory Accreditation Program (ELLAP) administered by the AIHA, which mandates proficiency testing, specific training and a quality assurance program. The samples were analyzed for total lead content using flame atomic absorption spectroscopy, in accordance with EPA Method SW 846-3050B/7000B. The limit of detection for this method varies by the volume of the sample, but in general, is approximately 0.010 percent by weight. Materials coated with paint identified to have detectable concentrations of lead are regulated by OR-OSHA.

4.0 FINDINGS

4.1 Asbestos-Containing Materials

Apex collected a total of four hundred and four hundred and sixty-nine (469) bulk samples (675 sample layers) of suspect ACMs between October 15 and November 9, 2018. The laboratory analytical results identified asbestos in the following samples.

- Corrugated cement asbestos board (transite) exterior siding;
- Cement asbestos board on interior walls;
- Asphaltic built-up roofing;
- Vinyl sheet flooring with yellow pebble pattern;
- White sink undercoating
- 9-inch by 9-inch green vinyl floor tile;
- 12-inch by 12-inch green vinyl floor tile;
- Black mastic associated with 12-inch by 12-inch gray vinyl floor tile;
- Brown mastic associated with 4-inch black vinyl cove base;
- Black mastic dots associated with 12-inch by 12-inch ceiling tiles;
- Black mastic associated with 12-inch by 12-inch brown vinyl floor tile;
- Black mastic associated with tan vinyl floor tile beneath gray carpet;
- Brown mastic associated with white fiber-reinforced wall panels;
- Red vinyl sheet flooring;
- 9-inch by 9-inch green vinyl floor tile with black mastic;
- Asphaltic stair tread on stairs;
- Multiple layers of asphaltic built-up roofing with non-asbestos silver paint;
- Black mastic associated with ceramic electric insulator on west exterior of Environmental Lab;
- 9-inch by 9-inch brown vinyl floor tile with black mastic;
- 2-foot by 4-foot acoustic ceiling panels;
- Black sink undercoating;
- Black laboratory countertop;
- Beige vinyl sheet flooring;
- Black mastic associated with non-asbestos pipe wrap insulation;
- Black vibration dampener/pads on curved concrete pipe supports (riverside).
- Joint compound associated with the drywall;
- Caulking behind transite on 2nd floor exterior of Water Filter Plant.
- Black asphaltic pipe coating (exposed pipe section located adjacent to HI-D tank);
- 9-inch by 9-inch white vinyl floor tile with black mastic;
- 12-inch by 12-inch beige vinyl floor tile with black mastic;
- Black mastic associated with gray vinyl sheet flooring;
- Knockdown wall texture on wood walls;
- 12-inch by 12-inch dark gray vinyl floor tile;
- Red boiler insulation in boilers A, B, C and D (Boiler Plant);
- Tank and/or pipe insulation debris (damaged) adjacent to the Recovery Boiler;
- White boiler insulation (TM Boiler, Recovery Boiler);
- Black mastic adhered to brown/black vapor barrier beneath wood siding (bridge between Paper Machine 4 & Finishing Room);
- Black pipe sealant adjacent to Paper Machine #3; under;
- Textured black coating (painted tan) on stack adjacent to Paper Machine #1;

In addition to the above-referenced ACMs, laboratory analytical results identified less than one-percent (trace) asbestos in the following building material:

- Window glazing compound;
- Skim coat on exterior concrete walls at the Paper Machine #1 building.

The materials identified above will be disturbed during the scheduled demolition of the Site. A summary of Apex's asbestos sampling, including analytical results, sample numbers, material descriptions, sample locations and quantities is provided in Table 1. Sample locations are shown on Figures 3 through 23. Supporting documentation for the sample analyses, including copies of laboratory analytical reports, chain-of-custody documents and laboratory certifications are provided in Appendix A. AHERA Building Inspector certifications are provided in Appendix C. Site photographs of sampled materials are provided in Appendix D.

4.2 Lead-Containing Paints

Apex collected sixty (60) bulk paint chip samples for lead analysis during the survey. Laboratory analytical results identified detectable lead concentrations in the following materials:

- Gray paint on concrete wall of the 4th floor of Paper Machine #4.
- Light green paint on metal wall/beam on first floor of Paper Machine #4.
- Yellow paint on metal guardrail on northwest side of Paper Machine #4.
- Light green paint on wood beam of #4 Finishing Room.
- Beige paint on metal beam on southeast side of Sulphite Plant.
- Gray paint on metal tank of Sulphite Plant.
- White paint on concrete exterior wall of Chip Silo.
- Cream paint on metal sliding door on southern exterior of Weld Shop.
- Gray paint on concrete exterior wall of TMP Refiner Line.
- Gray paint on concrete masonry unit (CMU) block wall of east exterior TMP Refiner Lines.
- Yellow paint on metal bollard of Maintenance Shop.
- Green paint on wood wall of Maintenance Shop.
- White paint on metal beam on 2nd floor of TMP Refiner Lines.
- Dark blue paint on metal window of the control room of the TMP area.
- Red paint on metal beam on first floor of TMP area.
- Green paint on CMU wall of TMP area.
- Gray paint on concrete wall of Paper Machine #1.
- White paint on skim coat over CMU wall of Paper Machine #1.
- White paint on metal beam of TMP Reject Refining.
- Light gray paint on metal door of Boiler Plant basement.
- Silver paint on metal boiler of Boiler Plant basement.
- Orange paint on metal stairs of TMP HI-D tank stairs.
- Silver paint on brick wall in basement of Boiler Plant.
- White paint on metal door frame on exterior of Pipe Shop.
- White paint on concrete wall on exterior of Raw Material Storage.
- Gray paint on wood window frame on west exterior window of Carpenter Shop.
- White paint on CMU wall on north exterior in conference room of Mill O.
- White paint on concrete wall in basement of Paper Machine #3.
- White paint on wood wall of Mill D Warehouse.
- Green paint on concrete wall on 2nd floor landing of Mill D.
- White paint on concrete wall on 2nd floor landing of Mill D.
- White paint on wood beam on 2nd floor of Mill D.
- Red paint on metal fire system piping on first floor of Mill D.
- Gray paint on wood door on exterior barn door of Filter Plant.
- Green paint on concrete wall on exterior of Filter Plant.
- White paint on wood door frame of Filter Plant.

- Gray paint on metal beam of Filter Plant.
- White paint on metal light pole of Filter Plant.
- Gray paint on drywall wall on 3rd floor of Filter Plant.
- Blue paint on metal door of Guard Shack.
- Red paint on metal cabinet in Guard Shack.
- Gray paint on concrete wall in Guard Shack.
- Brown paint on concrete column in office parking area.

A summary of Apex's paint chip sample results, including analytical results, sample numbers, material descriptions and sample locations is provided in Table 2. Sample locations are shown on Figures 3 through 23. Supporting documentation for the sample analyses, including copies of laboratory analytical reports, chain-of-custody documents and laboratory certifications are provided in Appendix B.

4.3 Other Suspect Hazardous Building Materials

During the hazardous building materials survey, Apex observed high-intensity discharge (HID) lamps, fixtures equipped with suspect PCB-containing ballasts and other fluorescent light tubes that may contain mercury-vapors. Apex identified approximately 160 HID lamps throughout the Site. Based on the Site conditions, limited access to specific interior areas and various basement levels, Apex could not provide an accurate count of light ballasts and tubes.

Apex recommends that all light fixtures be inspected for fluorescent light tubes, HID lamps and/or ballasts, prior to demolition. Each ballast should be inspected for "No PCBs" labeling. Ballasts without "No PCBs" labels should be considered PCB-containing. All fluorescent and HID lighting should be removed intact, staged and recycled or disposed, in accordance with local, state and federal regulations

5.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions of this report are Apex's professional opinions, based solely upon visual Site observations and interpretations of laboratory analyses, as described in this report. The survey was performed to evaluate the potential presence of ACMs and lead-containing paints that may be impacted during the on demolition of the Site.

5.1 Asbestos-Containing Materials

Federal, state, and local agencies regulate the condition, handling and disposal of ACM. Asbestos generally does not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled. Contractors must be informed of the type and location of ACM located within any working areas.

Laboratory analyses revealed friable and non-friable ACMs are present in specific portions of the Site (see Section 4.1, Table 1 and Figures). Apex performed destructive sampling throughout the Site; however, access to inaccessible, concealed spaces (e.g., enclosed wall spaces, confined spaces, subfloors, the majority of the rooftops, etc.) was generally limited to areas deemed safe for occupancy. The ACMs identified within the Site will reportedly be impacted by the intended demolition project. These ACMs should be removed and disposed of in accordance with OAR 340-248 and OR-OSHA regulations, prior to disturbance. Abatement of ACM and PACM must be performed by a licensed asbestos-abatement contractor. Prior to initiating an asbestos project involving more than 48 square feet or ten (10) linear feet of ACMs, written notification must be provided to DEQ. Notification must be provided no later than 10 calendar days prior to starting abatement.

Based on the presence and location of both friable and non-friable ACMs, Apex recommends developing specifications for the removal of these materials, prior to initiating construction-related activities. Apex also recommends collecting air samples prior, during and following all asbestos abatement procedures.

Disposal requirements for asbestos waste are defined in OAR 340-248-0280. All asbestos debris and other contaminated materials must be collected and disposed of in labeled, sealed impermeable bags, with a minimum of 6-mil. thickness, or other closed, impermeable containers.

Contractors should use caution during renovation, as concealed ACM that has not previously been analyzed for asbestos may be encountered. If suspect ACM located in accessible and/or inaccessible areas of the facility are encountered during demolition activities, further sampling will be required to characterize those materials.

5.2 Lead-Containing Paints

Laboratory analysis of the paint chips revealed that the painted coatings on the structures contain detectable lead concentrations.

The demolition project will impact materials identified to contain lead, which may result in worker exposure to lead. Activities that may result in worker exposure to lead include:

- Manual damage to and/or demolition of structures coated with lead-containing paints
- Manual scraping and/or sanding of lead-containing paints
- Heat gun applications on surfaces coated with lead-containing paints
- Power tool cleaning of surfaces coated with lead-containing paints (with or without dust collection systems)
- Any other task that may result in the release of lead in the form of dusts, fumes or mists from lead-containing building materials into the air or onto surrounding environments

For work on painted building components (which may result in personnel exposures), an exposure assessment must be conducted in accordance with OR-OSHA Chapter 437, Division 3 regulations (1926.62). Initial employee exposure monitoring must be conducted for each separate task involving the disturbance of building materials coated with lead-containing paints. If 8-hour time-weighted average (TWA) exposures exceed the action level of 30 micrograms of lead per cubic meter of air ($\mu g/m^3$), periodic air monitoring must be continued at specified intervals, and medical surveillance and comprehensive training programs must be instituted. If the 8-hour TWA permissible exposure limit (PEL) of 50 $\mu g/m^3$ for lead is exceeded, more stringent and additional requirements become effective, such as engineering controls, respiratory protection, regulated work areas and warning signs in lead work areas.

Based on the exposure assessment and previous similar work and exposure monitoring results, workers may have to be provided with any or all of the following:

- Respiratory protection
- Protective clothing
- Clean change areas
- Clean hand-washing facilities
- Biological monitoring (e.g., blood sampling and analysis for lead and zinc protoporphyrin levels)
- Hazard communication training

All workers and supervisory personnel who will be at the job site must be informed of the presence of lead in the building. These individuals should be provided additional training concerning the health effects associated with exposure to lead, proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing work practices where lead-containing materials are present.

During any renovation, repair or demolition activity, engineering controls such as barriers and water should be used to minimize dust levels. The public should be prevented from unauthorized access to the work area. Ambient air monitoring should be conducted to document engineering controls are adequate and that ambient airborne concentrations do not exceed permissible exposure levels.

All workers and supervisory personnel who will be at the Site must be informed of the presence of hazardous building materials. These individuals should be provided additional training concerning the health effects associated with exposure to lead, asbestos or other hazardous materials, such as proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing specific work practices.

5.3 Other Suspect Hazardous Building Materials

Apex identified approximately 160 HID lamps and evidence of light ballasts and fluorescent light tubes throughout the Site. HID lamps and fluorescent light tubes identified on Site are assumed to contain mercury vapors. Apex recommends that each fixture be inspected for suspect PCB's and mercury-containing light tubes.

Prior to demolition or renovations that impact the Site structures, Apex recommends that all light fixtures at the Site be removed using manual procedures and that all of the ballasts are inspected for "No PCBs" labeling. Ballasts with missing labels or not labeled with "No PCBs" should be considered to be PCB-containing. Handling and disposal of PCB-containing light ballasts must be in accordance with the EPA Toxic Substance Control Act (TSCA) PCB Regulations, 40 CFR 761. Apex recommends that all ballasts are disposed of as hazardous waste, including ballasts labeled "No PCBs."

Special precaution should be applied to prevent skin contact if leaking PCB ballasts are encountered during dismantling procedures. Leaking ballasts and the light fixtures affected by PCB-containing oils must be handled in accordance with EPA's PCB Regulations, 40 CFR 761. Workers with 40-hour hazardous waste training are required for removal or handling of leaking PCB ballasts.

Fluorescent light tubes and other non-candescent lighting are typically considered dangerous waste, due to their potential for containing mercury vapors. Apex recommends intact removal of all fluorescent light tubes, prior to demolition. Care should be taken to prevent breakage of the fluorescent light tubes during removal. EPA recommends recycling of fluorescent light tubes over the practice of disposal. Handling, storage, transportation and disposal of the lamps must be conducted in accordance with federal, state and local regulations.

All workers and supervisory personnel who will be at the job site must be informed of the presence of hazardous building materials in the portions of the building that they will access and possibly impacting. These individuals should be provided additional training concerning the health effects associated with exposure to lead, asbestos or other hazardous materials, such as proper work methods, appropriate use of personnel protective equipment, housekeeping procedures, and regulations governing specific work practices.

6.0 REFERENCES

Asbestos Hazard Emergency Response Act (AHERA), Title 40 CFR, Part 763.

National Emission Standards for Hazardous Air Pollutants (NESHAPs); Asbestos, 40 CFR Part 61, November 20, 1990.

OSHA; Occupational Exposure to Asbestos; Final Rule, 29 CFR Parts 1910 and 1926 (August 10, 1994).

Oregon Occupational Safety and Health Division, Department of Consumer and Business Services, Program Directive A-208. Subject: Lead: Exposure in Construction, issued June 15, 1994, revised June 7, 2005.

Oregon Administrative Rule (OAR) 340, Division 248, Asbestos Requirements, as enforced by the Oregon Department of Environmental Quality.

OAR 437, Division 2, Subdivision Z – Toxic and Hazardous Substances.

OAR 437, Division 3/D – 1926.62, Lead.

TABLES

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
1	Brown/Gray Wall Mastic	Truck Dump, South Wall Beam	Poor	Mastic	ND		10 LF
2	Tan Fire Brick Debris	Truck Dump, South Wall	Poor	Fire Brick	ND		10 Bricks
3	**Cement Asbestos Board**	**Truck Dump, Electrical Room**	**Fair**	**Cement Asbestos Board**	**10%**	**Chrysotile**	**3,500 SF**
4	2'x4' Dot and Fissure Drop Ceiling Panel	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Ceiling Panel	ND		350 SF
5	Drywall with Joint Compound	Deink ONP Repulper, 2nd Floor, Control Room	Fair	Drywall	ND		500 SF
				Joint Compound	ND		
6	4" Gray Vinyl Vinyl Cove Base with Cream Mastic	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Vinyl Vinyl Cove Base	ND		250 SF
				Mastic	ND		
7	Pink Insulation with Paper & Foil Backing	Deink ONP Repulper, 2nd Floor, Control Room	Poor	Insulation	ND		300 SF
				Paper Backing	ND		
8	**Asphaltic Roofing**	**Deink ONP Repulper, Roof**	**Fair**	**Asphaltic Roofing**	**8%**	**Chrysotile**	11,208 SF
9	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
10	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
11	Skim Coating over Concrete	Deink ONP Repulper, 3rd Story	Fair	Skim Coating	ND		N/A
12	Skim Coating over Concrete	Deink ONP Repulper, 4th Story	Fair	Skim Coating	ND		N/A
13	Skim Coating over Concrete	Deink ONP Repulper, 4th Story	Fair	Skim Coating	ND		N/A
14	Skim Coating over Concrete	Deink ONP Repulper, 1st Story	Fair	Skim Coating	ND		N/A
15	Skim Coating over Concrete	Deink ONP Repulper, 1st Floor	Poor	Skim Coating	ND		N/A
16	Brown Fibrous Debris	Deink ONP Repulper, 4th Floor	Poor	Debris	ND		80 SF
17	Gasket in Debris	Deink ONP Repulper, 4th Floor	Poor	Gasket	ND		2 Each
18	Asphalt Roofing	Deink ONP Repulper, 1st Floor	Poor	Asphaltic Roofing	ND		N/A
19	White Wall Mastic	Deink ONP Repulper, 1st Floor	Poor	Mastic	ND		5 LF
20	Grout Associated with Glass Blocks	Deink ONP Repulper, South Exterior	Fair	Grout	ND		50 LF
21	Tan Mastic Dots	Paper Machine #4, Basement	Fair	Mastic	ND		2 SF
22	12"x12" Blue Vinyl Floor Tile with Yellow Mastic and White Leveling Compound	Paper Machine #4, 1st Floor, North Control Room	Fair	Vinyl Floor Tile	ND		300 SF
				Mastic	ND		
				Leveler	ND		
23	4" Tan Cove with Tan Mastic	Paper Machine #4, 1st Floor, North Control Room	Fair	Vinyl Vinyl Cove Base with Mastic	ND		300 LF
24	12"x12" White Ceiling Tiles with Mastic Dots	Paper Machine #4, 1st Floor, North Control Room	Fair	Ceiling Tile	ND		70 SF
				Mastic	ND		
25	**Transite Siding**	**Paper Machine #4, 1st Floor, East Exterior**	**Fair**	**Transite**	**20%**	**Chrysotile**	82,552 SF
26	Tan Sheet Vinyl with Mastic	Paper Machine #4, 1st Floor, Men's Restroom	Fair	Sheet Vinyl	ND		100 LF
				Mastic	ND		
27	White Fiberglass Reinforced Plastic Panels with Tan Mastic	Paper Machine #4, 1st Floor, Men's Restroom	Fair	Fiberglass Reinforced Plastic Panels	ND		250 SF
				Mastic	ND		
28	12"x12" Gray Vinyl Floor Tile with Mastic	Paper Machine #4, 1st Floor, South Control Room	Fair	Vinyl Floor Tile	ND		250 SF
				Mastic	ND		
29	**Yellow Pebble Patterned Sheet Vinyl** with Mastic	**Paper Machine #4, 1st Floor, Computer Room**	**Fair**	**Sheet Vinyl**	**25%**	**Chrysotile**	**50 SF**
				Mastic	ND		
30	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Paper Machine #4, 1st Floor, Computer Room	Poor	Vinyl Vinyl Cove Base	ND		80 LF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
31	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Poor	Texture	ND		<1000 SF
				Texture	ND		
				CMU	ND		
32	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Poor	Texture	ND		RE: 31
				Texture	ND		
				CMU	ND		
33	Wall Texture over Speckled Texture over CMU Block	Paper Machine #4, 1st Floor, Computer Room	Fair	Texture	ND		RE: 31
				Texture	ND		
				CMU	ND		
34	Plaster over CMU Block Grout	Paper Machine #4, 1st Floor, Computer Room	Fair	Plaster	ND		N/A
				Grout	ND		
35	12"x12" White Ceiling Tiles with Mastic	Paper Machine #4, 1st Floor, Computer Room	Fair	Ceiling Tile/Mastic	ND		**150 SF**
36	Terracotta Tile with White Grout	Paper Machine #4, 1st Floor, Hatch	Fair	Terracotta Tile	ND		N/A
				Grout	ND		
37	4" Gray Cove with Mastic	Paper Machine #4, 1st Floor, Women's Restroom	Poor	Vinyl Vinyl Cove Base	ND		**75 SF**
				Mastic	ND		
38	Tan Wall Panel with Mastic	Paper Machine #4, 1st Floor, Women's Restroom	Fair	Wall Panel	ND		N/A
				Mastic	ND		
39	**White Sink Undercoating**	**Paper Machine #4, 1st Floor, Women's Restroom**	**Fair**	**Sink Undercoating**	**8%**	**Chrysotile**	**1 Sink**
40	**Gray Window Glazing**	**Paper Machine #4, 1st Floor, Exterior**	**Poor**	**Window Glazing**	**<1%**	**Chrysotile**	**25 LF**
41	Sink Undercoating	Paper Machine #4, 2nd Floor, Restroom	Fair	Sink Undercoating	ND		1 Sink
42	Blue Laminate Countertop with Mastic	Paper Machine #4, 2nd Floor, Restroom	Fair	Laminate	ND		25 SF
				Mastic	ND		
43	2'x4' Ceiling Panel	#4 Finishing, 2nd Floor, Bathroom	Fair	Ceiling Panel	ND		150 SF
44	Carpet over Fabric Flooring	#4 Finishing, 4th Floor	Poor	Carpet	ND		200 SF
45	**9"x9" Green Vinyl Floor Tile** with Yellow Mastic	**#4 Finishing, 4th Floor**	**Poor**	**Vinyl Floor Tile**	**5%**	**Chrysotile**	**100 SF**
				Mastic	ND		
46	**12"x12" Green Vinyl Floor Tile** with Yellow Mastic	**#4 Finishing, 4th Floor**	**Poor**	**Vinyl Floor Tile**	**5%**	**Chrysotile**	**100 SF**
				Mastic	ND		
47	2" Brown Vinyl Vinyl Cove Base with Brown Mastic	#4 Finishing, 4th Floor	Poor	Vinyl Vinyl Cove Base	ND		80 LF
				Mastic	ND		
48	Black Rubber Membrane with Mastic and Foam over Sheet Vinyl with Cream Mastic	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Rubber Membrane	ND		400 SF
				Mastic	ND		
				Sheet Vinyl	ND		
				Mastic	ND		
49	6" Brown Vinyl Vinyl Cove Base with Brown Mastic	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Fair	Vinyl Vinyl Cove Base	ND		75 SF
				Mastic	ND		
50	Black Fiberglass Insulation with Black Felt	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Insulation	ND		15 LF
51	Drywall with Joint Compound	Paper Machine #4, 2nd Floor, Northwest Exterior Lab	Poor	Drywall	ND		600 SF
				Joint Compound	ND		
52	**Built-up Roofing Material** with Built-up Roofing Material with Rubber Membrane	**Paper Machine #4, Roof**	**Fair**	**Built-up Roofing**	**10%**	**Chrysotile**	**400 SF**
				Built-up Roofing	ND		
				Rubber Membrane	ND		
53	Tan Roof Caulking with Silver Paint	Paper Machine #4, Roof	Fair	Caulking	ND		20 LF
54	2'x2' Patterned 4'x4' Drop Ceiling Panel	#4 Finishing, 1st Floor, Office	Fair	Ceiling Panel	ND		400 SF

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
55	Tan Sheet Vinyl Floor with Tan Mastic	#4 Finishing, 1st Floor, Office	Poor	Sheet Vinyl	ND		20 SF
				Mastic	ND		
56	Insulation with Paper Backing	#4 Finishing, 1st Floor, Office	Fair	Fiberglass Insulation	ND		1,000 SF
				Paper Backing	ND		
57	Felt Cloth	Dig, East Exterior	Poor	Felt Cloth	ND		200 SF
58	Terracotta Tile with White Grout	Former Tank East Of Dig	Poor	Terracotta Tile	ND		900 SF
				Grout	ND		
59	**Transite Siding**	**Sulphite Plant, East Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
60	Silver Paint	Sulphite Plant, Sphere Tank	Poor	Silver Paint	ND		N/A
61	Tan Sheet Vinyl Flooring with Cream Mastic	Weld Shop Office	Fair	Sheet Vinyl	ND		60 SF
				Mastic	ND		
62	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		350 SF
				Drywall	ND		
63	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		RE:62
				Drywall	ND		
64	Wall Texture with Drywall	Weld Shop Office	Good	Texture	ND		RE:62
				Drywall	ND		
65	Drywall with Joint Compound	Weld Shop Office	Fair	Drywall	ND		350 SF
				Joint Compound	ND		
66	Insulation with Paper Wrap	Receiving & Store Room	Good	Fiberglass Insulation	ND		1,000 SF
				Paper Wrap	ND		
67	12"x12" Tan Vinyl Floor Tile with Orange Mastic	Receiving & Store Room Office	Poor	Vinyl Floor Tile	ND		300 SF
				Mastic	ND		
68	4" Gray Vinyl Vinyl Cove Base with Mastic	Receiving & Store Room Office	Poor	Vinyl Vinyl Cove Base	ND		70 SF
				Mastic	ND		
69	12"x12" White Dot Ceiling Tile with Tan Mastic Dots	Receiving & Store Room Office	Poor	Ceiling Tile	ND		300 SF
				Mastic	ND		
70	CMU Block with Grout	Receiving & Store Room	Fair	CMU	ND		N/A
				Grout	ND		
71	Ceiling Fireproofing Debris	Maintenance Shop	Poor	Fireproofing	ND		N/A
72	12"x12" Blue & White Vinyl Floor Tile with Tan Mastic	Mill Offices, 2nd Floor	Fair	Vinyl Floor Tile	ND		350 SF
				Mastic	ND		
73	4" Gray Cove with Cream Mastic	Mill Offices, 2nd Floor	Fair	Vinyl Vinyl Cove Base	ND		100 LF
				Mastic	ND		
74	2'x4' Dot and Fissure Ceiling Panel	Mill Offices, 2nd Floor	Poor	Ceiling Panel	ND		350 SF
75	12"x12" Gray Vinyl Floor Tile with **Mastic** & Black Backing	**Mill Offices, 2nd Floor**	**Poor**	Vinyl Floor Tile	ND		**350 SF**
				Mastic	**6%**	**Chrysotile**	
76	4" Black Vinyl Vinyl Cove Base with Brown Mastic	**Mill Offices, 2nd Floor**	**Fair**	Vinyl Vinyl Cove Base	ND		**100 LF**
				Mastic	**2%**	**Chrysotile**	
77	4" Tan Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		1,000 LF
				Mastic	ND		
78	4" Gray Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		800 LF
				Mastic	ND		
79	12"x12" Blue Vinyl Floor Tile with Yellow Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Floor Tile	ND		650 SF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
80	Blue Carpet with Cream Mastic with Gray Leveler	Mill Offices, 3rd Floor	Fair	Carpet	ND		1,200 SF
				Mastic	ND		
				Leveler	ND		
81	Drywall with Joint Compound	Mill Offices, 3rd Floor	Fair	Drywall	ND		N/A
				Joint Compound	ND		
82	2'x4' Dot and Fissure Drop Ceiling Panel	Mill Offices, 3rd Floor	Poor	Ceiling Panel	ND		1,500 SF
83	**White Cementitious Wall Panel with Brown Mastic**	**Mill Offices, Men's Restroom**	**Good**	**Wall Panel with Mastic**	**20%**	**Chrysotile**	**1,025 SF**
84	4" Black Vinyl Vinyl Cove Base with Cream Mastic	Mill Offices, Men's Restroom	Poor	Vinyl Vinyl Cove Base	ND		425 LF
				Mastic	ND		
85	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Mill Offices, 3rd Floor	Poor	Vinyl Vinyl Cove Base	ND		600 LF
				Mastic	ND		
86	4" Light Gray Vinyl Vinyl Cove Base with Tan Mastic	Mill Offices, 3rd Floor	Fair	Vinyl Vinyl Cove Base	ND		200 LF
				Mastic	ND		
87	12"x12" Dot Ceiling Tile with **Black Mastic Dots**	**Mill Offices, 3rd Floor**	**Fair**	**Ceiling Tile with Mastic**	**<1%**	**Chrysotile**	**350 SF**
88	2'x4' Yellow Fiberglass Ceiling Panel with White Layer	Mill Offices, 3rd Floor	Fair	Ceiling Panel	ND		800 SF
				White Layer	ND		
89	12"x12" Brown Vinyl Floor Tile with **Black Mastic**	**Mill Offices, 3rd Floor, Western Offices**	**Fair**	Vinyl Floor Tile	ND		**1,300 SF**
				Mastic	**7%**	**Chrysotile**	
90	Gray Carpet with Cream Mastic over Tan Vinyl Floor Tile with **Black Mastic**	**Mill Offices, 3rd Floor, North Offices**	**Fair**	Carpet	ND		**250 SF**
				Mastic	ND		
				Vinyl Floor Tile	ND		
				Mastic	**7%**	**Chrysotile**	
91	Dark Gray Carpet with Cream Mastic	Mill Offices, 3rd Floor, North Offices	Fair	Carpet	ND		160 SF
				Mastic	ND		
92	12"x12" Tan Vinyl Floor Tile with Black Mastic	Mill Offices, 3rd Floor, Eastern Offices	Fair	Vinyl Floor Tile	ND		720 SF
				Mastic	ND		
93	Red Epoxy Flooring with Cream Mastic	Mill Offices, 3rd Floor, Break Room	Fair	Epoxy Flooring	ND		800 SF
				Mastic	ND		
94	2"x2" Tan Ceramic Tile with Gray Grout and Leveling Compound	Mill Offices, 3rd Floor, Locker Room	Fair	Ceramic Tile	ND		150 SF
				Grout	ND		
				Leveler	ND		
95	White Ceramic Vinyl Vinyl Cove Base with Mortar	Mill Offices, 3rd Floor, Locker Room	Fair	Vinyl Vinyl Cove Base	ND		80 LF
				Mortar	ND		
96	Green Epoxy Flooring with Cream Mastic	Mill Offices, 3rd Floor, Store Room	Fair	Epoxy Flooring	ND		100 SF
				Mastic	ND		
97	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		<1,000 SF
				Drywall	ND		
98	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		RE: 97
				Drywall	ND		
99	Wall Texture with Drywall	Mill Offices, 3rd Floor	Fair	Texture	ND		RE: 97
				Drywall	ND		
100	**Built-up Asphaltic Roofing**	**Mill Offices, 5th Floor, Roof**	**Poor**	**Built-up Roofing**	**10%**	**Chrysotile**	2,355 SF
101	Textured Sheet Vinyl Flooring with Cream Mastic	Mill Offices, 5th Floor	Fair	Sheet Vinyl	ND		550 SF
				Mastic	ND		

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Table 1: Asbestos Survey Results
Former Blue Heron Mill
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Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
102	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		5,250 SF
				Drywall	ND		
103	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
104	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
105	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
106	Orange Texture with Drywall	Mill Offices, 5th Floor	Poor	Texture	ND		RE: 102
				Drywall	ND		
107	White Fiberglass Reinforced Plastic Panels with Mastic	Mill Offices, 5th Floor, Restroom	Good	Fiberglass Reinforced Plastic Panels	ND		150 SF
				Mastic	ND		
108	Laminate Countertop with Thin Tan Mastic	Mill Offices, 5th Floor, Break Area	Fair	Laminate	ND		20 SF
				Mastic	ND		
109	White Wall Panel with **Brown Mastic**	Mill Offices, 4th Floor	Fair	Wall Panel	ND		**480 SF**
				Mastic	**4%**	**Chrysotile**	
110	**Red Sheet Vinyl** with Cream Mastic	**Mill Offices, 4th Floor**	**Fair**	**Sheet Vinyl**	**20%**	**Chrysotile**	**275 SF**
				Mastic	ND		
111	12"x12" Gray Vinyl Floor Tile with Tan Mastic	TMP Refiner Lines, 2nd Story, Control Room	Fair	Vinyl Floor Tile with Mastic	ND		405 SF
112	4" Gray Cove with Cream Mastic	TMP Refiner Lines, 2nd Story, Control Room	Fair	Vinyl Vinyl Cove Base	ND		84 LF
				Mastic	ND		
113	Residual 12"x12" Dark Tan Vinyl Floor Tile with Black Mastic	TMP Refiner Lines, 2nd Story, Control Room	Poor	Vinyl Floor Tile	ND		20 SF
				Mastic	ND		
114	Yellow & Black Sealant	TMP Refiner Lines, Exterior - East	Poor	Sealant	ND		50 SF
115	**Transite Siding**	**TMP Reject Refining & Screening - Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
116	Black Fibrous Debris	TMP Reject, 2nd Floor	Poor	Debris	ND		5 SF
117	4" Gray Cove with Brown Mastic	TMP Area, 1st Floor, Control Room	Poor	Vinyl Vinyl Cove Base	ND		80 LF
				Mastic	ND		
118	4" Blue Cove with Brown Mastic	TMP Area, 1st Floor, Control Room	Poor	Vinyl Cove Base	ND		80 LF
				Mastic	ND		
119	2'x4' Dot and Fissure Drop Ceiling Panels	TMP Area, 1st Floor, Control Room	Poor	Ceiling Panel	ND		770 SF
120	Gray Floor Leveling Compound	TMP Area, 1st Floor, Control Room	Fair	Leveler	ND		770 SF
121	Gray Laminate Countertop with Mastic	TMP Lab, 1st Floor	Fair	Laminate	ND		40 SF
				Mastic	ND		
122	Drywall with Joint Compound	TMP Lab, 1st Floor	Fair	Drywall	ND		1,100 SF
				Joint Compound	ND		
123	Terracotta Tile	Paper Machine #1, 1st Floor, Tank Pit	Fair	Terracotta Tile	ND		N/A
124	Gray Wall Mastic with Concrete	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Poor	Mastic	ND		7 LF
				Concrete	ND		
125	12"x12" White Dot Ceiling Tile with Brown Mastic Dots	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Ceiling Tile	ND		125 SF
				Mastic	ND		
126	Yellow Insulation with and White Paper Wrap	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Fiberglass Insulation	ND		10 LF
				Paper Wrap	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
127	Pink Ceiling Insulation with Brown Paper	Paper Machine #1, 1st Floor, Exterior Of North Control Room	Fair	Fiberglass Insulation	ND		125 SF
				Brown Paper	ND		
128	Gray Carpet with Tan Mastic	Paper Machine #1, 1st Floor, "Microwave" Room	Poor	Carpet	ND		250 SF
				Mastic	ND		
129	**Transite Siding**	**Paper Machine #1, South Exterior**	**Poor**	**Transite**	**17%**	**Chrysotile**	**RE: 25**
130	Black Dot Pattern Vinyl Floor Tile with White Mastic	Paper Machine #1, 1st Floor, Raised Office	Fair	Vinyl Floor Tile	ND		100 SF
				Mastic	ND		
131	4" Black Cove with White Mastic	Paper Machine #1, 1st Floor, Raised Office	Fair	Vinyl Cove Base	ND		44 LF
				Mastic	ND		
132	White Fiberglass Reinforced Plastic Panels with Cream Mastic	Paper Machine #1, 1st Floor, Raised Office	Poor	Fiberglass Reinforced Plastic Panels	ND		480 SF
				Mastic	ND		
133	2'x4' Dot Drop Ceiling Panel	Paper Machine #1, 1st Floor, Raised Office	Fair	Ceiling Panel	ND		100 SF
134	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
135	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
136	Skim Coat with Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
				CMU	ND		
137	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
138	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
139	Skim Coat with Backing over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
				Backing	ND		
140	Skim Coat over CMU	Paper Machine #1, 1st Floor	Fair	Skim Coating	ND		N/A
141	Terracotta Tile with Grout	Paper Machine #1, 1st Floor, Filtrate Tank	Fair	Terracotta Tile	ND		N/A
				Grout	ND		
142	Carpet over Carpet	Paper Machine #1, Roof	Poor	Carpet	ND		200 SF
				Carpet	ND		
143	White Exterior Caulking	Paper Machine #1, Roof	Poor	Caulking	ND		250 LF
144	Built-up Roofing with Black Mastic with Insulation	Paper Machine #1, Roof	Poor	Built-up Roofing	ND		N/A
				Tar/Mastic	ND		
				Insulation	ND		
145	**9"x9" Green Vinyl Floor Tile with Black Mastic**	**Sulphite Plant, 3rd Story, Restroom**	**Poor**	**Vinyl Floor Tile**	**6%**	**Chrysotile**	**450 SF**
				Mastic	**8%**	**Chrysotile**	
146	Brown Mastic	Sulphite Plant, 3rd Story, Restroom	Poor	Mastic	ND		100 LF
147	CMU Block with Grout	Sulphite Plant, 3rd Story, Restroom	Fair	CMU	ND		N/A
				Grout	ND		
148	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		<1,000 SF
149	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		RE: 148
150	Skim Coat over CMU blocks	Sulphite Plant, 3rd Story, Restroom	Fair	Skim Coating	ND		RE: 148
151	**Cement Asbestos Board**	**Sulphite Plant, 4th Floor**	**Poor**	**Cement Asbestos Board**	**18%**	**Chrysotile**	2,784 SF
152	**Fiber Wall Panel with Mastic**	**Sulphite Plant, 4th Floor**	**Fair**	**Wall Panel**	**15%**	**Chrysotile**	**200 SF**
				Mastic	**3%**	**Chrysotile**	
153	**Cement Asbestos Board Panel with Black Mastic**	**Sulphite Plant, 4th Floor**	**Poor**	**Cement Asbestos Board**	**18%**	**Chrysotile**	**RE: 151**
				Mastic	**10%**	**Chrysotile**	
154	**Asphaltic Stair Tread**	**Sulphite Plant, Stairs 4th Story To Roof**	**Poor**	**Stair Tread**	**40%**	**Chrysotile**	**28 SF**

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
155	Silver Paint with **Built-up Roofing** with Built-up Roofing with **Built-up Roofing** with Tar Felt with Black Mastic with Insulation	**Sulphite Plant, Roof**	**Poor**	Silver Paint	ND		6,550 SF
				Built-up Roofing	**55%**	**Chrysotile**	
				Built-up Roofing	ND		
				Built-up Roofing	**60%**	**Chrysotile**	
				Tar Felt	ND		
				Tar/Mastic	ND		
				Insulation	ND		
156	Concrete Block with Gray Grout	TMP Hi-D Tank	Fair	Concrete Block	ND		N/A
				Grout	ND		
157	Gray Sealant on HVAC Duct	Recovery Boiler, Basement, Men's Locker Room	Fair	Sealant	ND		195 LF
158	Fiberglass Reinforced Plastic Panels with Cream Mastic	Recovery Boiler, Basement, Men's Locker Room	Fair	Fiberglass Reinforced Plastic Panels	ND		800 SF
				Mastic	ND		
159	Blue Laminate Countertop with Mastic	Recovery Boiler, Basement, Men's Locker Room	Fair	Laminate	ND		45 SF
				Mastic	ND		
160	Yellow Fiber Insulation with Black "John-Manville" Paper	Boiler Plant, Basement, Adjacent To Sodium Hydrosulfide	Poor	Fiberglass Insulation	ND		350 SF
				Black Paper	ND		
161	Black Asphaltic Felt	Boiler Plant, Basement, Adjacent To Sodium Hydrosulfide	Poor	Felt	ND		350 SF
162	12"x12" White Dot and Fissure Ceiling Tiles with Tan Mastic Dots	Pipe Shop, 1st Floor	Poor	Ceiling Tiles	ND		100 SF
				Mastic	ND		
163	Blue Laminate Countertop with Mastic	Pipe Shop, 1st Floor	Fair	Laminate	ND		20 SF
				Mastic	ND		
164	CMU Block with Grout	Pipe Shop, 1st Floor	Fair	CMU	ND		N/A
				Grout	ND		
165	White Sink Undercoating	Pipe Shop, 2nd Floor	Fair	Sink Undercoating	ND		1 Sink
166	Ceramic Electric Insulator with **Black Mastic**	**Environmental Lab, Western Exterior**	**Poor**	Electric Insulator	ND		**1 Each**
				Mastic	**5%**	**Chrysotile**	
167	12"x12" Cream Vinyl Floor Tile with Brown Mastic	Mill O Conference Room, Nurse's Office	Poor	Vinyl Floor Tile	ND		2,200 SF
				Mastic	ND		
168	4" Brown Vinyl Cove Base with White Mastic	Mill O Conference Room, Nurse's Office	Poor	Vinyl Cove Base	ND		200 LF
				Mastic	ND		
169	Wood Wall Panel with Adhesive	Mill O Conference Room, 1st Floor	Fair	Wall Panel	ND		2,000 SF
170	White Laminate Countertop with Mastic	Mill O Conference Room, 1st Floor	Fair	Laminate	ND		20 SF
				Mastic	ND		
171	2'x4' Dot and Fissure Drop Ceiling Panel	Mill O Conference Room, 1st Floor	Poor	Ceiling Panel	ND		1,200 SF
172	**9"x9" Green Vinyl Floor Tile with Black Mastic**	**Environmental Lab, 1st Floor**	**Poor**	**Vinyl Floor Tile**	**8%**	**Chrysotile**	**250 SF**
				Mastic	**8%**	**Chrysotile**	
173	**9"x9" Brown Vinyl Floor Tile with Black Mastic**	**Environmental Lab, 1st Floor**	**Poor**	**Vinyl Floor Tile**	**4%**	**Chrysotile**	**50 SF**
				Mastic	**7%**	**Chrysotile**	
174	**2'x4' Dot Drop Ceiling Panel**	**Environmental Lab, 1st Floor**	**Poor**	**Ceiling Panel**	**3%**	**Chrysotile**	**150 SF**
175	12"x12" White Dot Ceiling Tiles with Gray Mastic Dots	Environmental Lab, 1st Floor	Fair	Ceiling Tiles	ND		400 SF
				Mastic	ND		
176	**Black Sink Undercoating**	**Environmental Lab, 1st Floor**	**Fair**	**Sink Undercoating**	**9%**	**Chrysotile**	**6 Sinks**
177	4" Black Vinyl Cove Base with Brown Mastic	Environmental Lab, 1st Floor	Fair	Vinyl Cove Base	ND		300 LF
				Mastic	ND		

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Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
178	Blue Plastic Wall Panel with Brown Mastic	Environmental Lab, 1st Floor	Fair	Wall Panel	ND		1,100 SF
				Mastic	ND		
179	**Black Stone Countertop**	**Environmental Lab, 1st Floor**	**Poor**	**Stone**	**12%**	**Chrysotile**	**350 SF**
180	Green Sheet Vinyl with Tan Mastic	Raw Material Storage, 2nd Story	Poor	Sheet Vinyl	ND		100 SF
				Mastic	ND		
181	Black Fiber Panel Flooring	Raw Material Storage, 2nd Story	Poor	Fiber Panel	ND		275 SF
182	**Beige Sheet Vinyl Flooring with Mastic**	**Raw Material Storage, 2nd Story**	**Poor**	**Sheet Vinyl**	**20%**	**Chrysotile**	**2,250 SF**
183	4" Brown Vinyl Cove Base with Tan Mastic	Raw Material Storage, 2nd Floor	Poor	Vinyl Cove Base	ND		400 LF
				Mastic	ND		
184	Fibrous 24" Diameter Plastic Pipe	Raw Material Storage, 2nd Floor	Good	Pipe	ND		130 LF
185	Drywall with Joint Compound	Raw Material Storage, 2nd Floor	Fair	Drywall	ND		N/A
				Joint Compound	ND		
186	White Window Glazing	Raw Material Storage, 2nd Story, Exterior	Poor	Window Glazing	ND		4,800 LF
187	Pipe Wrap with **Mastic** with Insulation	**Sulphite Plant, Southeast Exterior**	**Poor**	Pipe Wrap	ND		**3 LF**
				Mastic	**9%**	**Chrysotile**	
				Insulation	ND		
188	12" Diameter Fiber Insulation with Paper	City Water Pipe, South Of Sulphite Plant	Poor	Insulation	ND		50 LF
				Paper	ND		
189	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		15 LF
190	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		RE: 189
191	9" White Hard Pipe Insulation	Pipe Debris Pile, South Of Sulphite Plant	Fair	Pipe Insulation	ND		RE: 189
192	White Fibrous Insulation	Auto Shop, Southern Wall	Poor	Insulation	ND		2,200 SF
193	White Fibrous Insulation	Auto Shop, Ceiling	Poor	Insulation	ND		RE: 192
194	White Fibrous Insulation	Auto Shop, Floor Debris	Poor	Insulation	ND		RE: 192
195	Black Fibrous Sheet Debris	Deink Hi-D Tank Area	Poor	Debris	ND		15 SF
196	Red Brick with Gray Mortar	Deink Hi-D Tank Area	Poor	Brick	ND		24 SF
				Mortar	ND		
197	Gray Grout Associated with Rock Wall	Deink Hi-D Tank Area	Poor	Grout	ND		N/A
198	Red 12"x12" Bricks with White Grout	Butler Building	Fair	Brick	ND		130 SF
				Grout	ND		
199	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		130 SF
200	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		RE: 199
201	Gray Skim Coat over Bricks	Butler Building	Poor	Skim Coating	ND		RE: 199
202	Asphaltic Decking	Paper Machine #2 Deck	Poor	Decking	ND		900 SF
203	Gray Fibrous Cloth	Paper Machine #2	Poor	Fibrous Cloth	ND		50 SF
204	Yellow Wall Mastic	Paper Machine #2	Poor	Mastic	ND		10 LF
205	Blue Laminate Countertop with Mastic	Mill D Warehouse, 1st Floor, Restrooms	Fair	Laminate	ND		20 SF
				Mastic	ND		
206	White Sink Undercoating	Mill D Warehouse, 1st Floor, Restrooms	Fair	Sink Undercoating	ND		7 Sinks
207	White Fiberglass Reinforced Plastic Panels with Mastic	Mill D Warehouse, 1st Floor, Restrooms	Fair	Fiberglass Reinforced Plastic Panels	ND		360 SF
				Mastic	ND		
208	4x2 Dot and Fissure Drop Ceiling Panel	Mill D Warehouse, 1st Floor, Restrooms	Fair	Ceiling Panel	ND		84 SF
209	4" Cream Cove with Cream Mastic	Mill D Warehouse, 1st Floor, Restrooms	Poor	Vinyl Cove Base	ND		40 LF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
210	Yellow Pipe Wrap with Paper	Mill D Warehouse, 1st Floor, Supply Room	Poor	Pipe Wrap	ND		1 LF
				Paper	ND		
211	White Cloth Gasket	Mill D Warehouse Supply Room	Fair	Gasket	ND		2 Each
212	**Green 9x9 Vinyl Floor Tile with Brown Mastic**	**Mill D, Paint Room**	**Poor**	**Vinyl Floor Tile**	**8%**	**Chrysotile**	**60 SF**
				Mastic	**9%**	**Chrysotile**	
213	White Fibrous Material with Adhesive	Mill D, Rail Car Loading Dock	Fair	Fibrous Material	ND		1 Pallet
				Adhesive	ND		
214	Brown Felt Paper	Mill D Warehouse	Poor	Paper	ND		N/A
215	White Window Glazing	Mill D Warehouse	Poor	Window Glazing	ND		84 LF
216	12"x12" Blue Vinyl Floor Tile with Cream Mastic	Paper Machine #3, Northern Control Room	Poor	Vinyl Floor Tile	ND		225 SF
				Mastic	ND		
217	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		144 SF
				Drywall	ND		
218	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		RE; 217
				Drywall	ND		
219	White Knock Down Texture over Drywall	Mill D, 2nd Floor Landing	Good	Texture	ND		RE: 217
220	**Built-up Roofing** with Silver Paint and Tar Felt	**Mill D, Roof**	**Poor**	**Built-up Roofing**	**5%**	**Chrysotile**	16,975 SF
				Silver Paint	ND		
				Tar Felt	ND		
221	**Black Vibration Dampener**	**Paper Machine #3, Exterior, Riverside**	**Poor**	**Padding**	**80%**	**Chrysotile**	**5 Each**
222	Terracotta Tile with Black Grout Debris	Paper Machine #3, Exterior, Riverside	Poor	Terracotta Tile	ND		10 SF
				Grout	ND		
223	Black Mastic Dot Associated with Wall Mirrors	Fitness Center	Fair	Mastic	ND		70 SF
224	Blue Carpet with Tan Adhesive	Fitness Center	Fair	Carpet	ND		36 SF
				Adhesive	ND		
225	Joint Compound with Drywall	Fitness Center	Fair	Joint Compound	ND		N/A
				Drywall	ND		
226	Yellow Insulation with White Wrap	Water Filter Plant, 3rd Floor, Office	Fair	Insulation	ND		6,400 SF
				Wrap	ND		
227	**Transite Siding**	**Water Filter Plant, 3rd Floor, Office**	**Fair**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
228	Window Glazing	Water Filter Plant, 3rd Floor, Office	Fair	Window Glazing	ND		340 LF
229	**Joint Compound** with Drywall	**Water Filter Plant, 3rd Floor, Office**	**Fair**	**Joint Compound**	**3%**	**Chrysotile**	**3,030 SF**
				Drywall	ND		
230	Asphalt Paper	Water Filter Plant, 3rd Floor, Restroom	Fair	Paper	ND		10 LF
231	**Caulking Behind Transite**	**Water Filter Plant, 2nd Story, Exterior**	**Fair**	**Caulking**	**12%**		420 SF
232	Fibrous Pipe Elbow Wrap	Water Filter Plant, 2nd Story, Covered Exterior	Good	Pipe Elbow Wrap	ND		1 Elbow
233	CMU Block with Grout	Millwright Shop, Office	Good	CMU Block	ND		N/A
				Grout	ND		
234	Cementitious Vinyl Cove Base with Cream Mastic	Millwright Shop, Office	Fair	Vinyl Cove Base	ND		60 LF
				Mastic	ND		
235	Blue Laminate Countertop with Mastic	Millwright Shop, Restroom	Fair	Laminate	ND		25 SF
				Mastic	ND		
236	2'x4' Dot and Fissure Wall Panel with Brown Mastic	Millwright Shop, Office	Fair	Wall Panel	ND		80 SF
				Mastic	ND		

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
237	**Transite Siding**	**Paper Machine #3, 1st Floor, Electrical Room**	**Fair**	**Transite**	**18%**		**RE: 25**
238	**Transite** with Foam	**Paper Machine #3, 1st Floor, Electrical Room**	**Fair**	**Transite**	**17%**	**Chrysotile**	**RE: 25**
				Foam	ND		N/A
239	Drywall with Brown Joint Compound	TMP Refiner Lines, 4th Story Annex	Poor	Drywall	ND		900 SF
				Joint Compound	ND		
240	Tan Drywall with Joint Compound	TMP Refiner Lines, 4th Story Annex	Fair	Drywall	ND		300 SF
				Joint Compound	ND		
241	Orange Mastic	TMP Refiner Lines, 4th Story Annex on Door	Poor	Mastic	ND		4 SF
242	Orange Foam Insulation with Foil Backer	TMP Refiner Lines, 4th Story Annex	Fair	Foam	ND		1,480 SF
				Backing	ND		
243	White Gasket Debris	TMP Refiner Lines, Ext. Dock - East	Poor	Gasket	ND		1 Broken Piece
244	Black Seal	TMP Refiner Lines, Ext. Dock - East	Poor	Sealant	ND		25 LF
245	**Black Asphaltic Pipe Coating**	**Adjacent to Hi-D Tank**	**Poor**	**Coating**	**25%**	**Chrysotile**	**8 SF**
246	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
247	White Coating with Black Wall Mastic	Adjacent to Hi-D Tank	Poor	Coating	ND		2 SF
				Sealant	ND		
248	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
249	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
250	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
251	Texture On Cementitious Blocks For Tank	Hi-D Tank	Fair	Coating	ND		N/A
				Blocks	ND		
252	White/Gray Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Fair	Fire Brick	ND		N/A
253	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
254	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
255	Gray Metallic Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
256	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
257	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
258	Tan-Red Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
259	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
260	Gray Metallic Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
261	Tan-Red Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
262	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
263	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
264	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
265	Brown Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
266	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
267	Cream Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
268	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
269	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
270	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
271	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
272	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
273	Orange Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
274	Gray Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
275	Yellow Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
276	Tan Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
277	Orange Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
278	White Fire Brick (Debris on Slab)	Paper Machine #3, Basement	Poor	Fire Brick	ND		N/A
279	**Transite Siding**	**Garage Adjacent To Guard Shack**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
280	4" Green Vinyl Cove Base with Brown Mastic	Garage Adjacent To Guard Shack	Poor	Vinyl Cove Base Mastic	ND ND		N/A
281	4" Gray Vinyl Cove Base with Tan Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		350 LF
282	4" Black Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		200 LF
283	6" Gray Vinyl Vinyl Cove Base with White Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		180 LF
284	4" Brown Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		50 LF
285	4" Tan Vinyl Vinyl Cove Base with Brown Mastic	Office Adjacent To Guard Shack, 1st Floor: Entry	Poor	Vinyl Vinyl Cove Base Mastic	ND ND		50 LF
286	12"X12" White Dot Ceiling Tile	Office Adjacent To Guard Shack	Poor	Ceiling Tile	ND		N/A
287	2'x4' White Dot and Fissure Drop Ceiling Panel	Office Adjacent To Guard Shack	Poor	Ceiling Panel	ND		N/A
288	**9"X9" White Vinyl Floor Tile with Black Mastic**	**Office Adjacent To Guard Shack**	**Fair**	**Floor Tile** **Mastic**	**2%** **8%**	**Chrysotile** **Chrysotile**	**1,050 SF**
289	**12"X12" Beige Vinyl Floor Tile with Black Mastic**	**Office Adjacent To Guard Shack**	**Poor**	**Floor Tile** **Mastic**	**3%** **6%**	**Chrysotile** **Chrysotile**	200 SF
290	Gray Sheet Vinyl with **Black Mastic**	**Office Adjacent To Guard Shack**	**Poor**	Sheet Vinyl **Mastic**	ND **4%**	 **Chrysotile**	**85 SF**
291	Blue Carpet with Yellow Mastic	Office Adjacent To Guard Shack	Poor	Carpet Mastic	ND ND		N/A
292	Brown Wall Mastic with Cork Board	Office Adjacent To Guard Shack	Poor	Fiberboard Mastic	ND ND		36 Dots
293	Drywall with Joint Compound	Office Adjacent To Guard Shack	Poor	Drywall Joint Compound	ND ND		N/A
294	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
295	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
296	Knockdown Wall Texture On Drywall	Office Adjacent To Guard Shack	Fair	Drywall Texture	ND ND		N/A
297	**Knockdown Wall Texture** with Tape with **Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture** Tape **Texture**	**2%** ND **2%**	**Chrysotile** **Chrysotile**	**200 SF**

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Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
298	**Knockdown Wall Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture**	**2%**	**Chrysotile**	**RE: 297**
299	**Knockdown Wall Texture** On Wood	**Office Adjacent To Guard Shack**	**Fair**	**Texture**	**2%**	**Chrysotile**	**RE: 297**
300	Pink Insulation with Black Paper Backing	Office Adjacent To Guard Shack	Fair	Insulation	ND		N/A
				Backing	ND		
301	Beige Sheet Vinyl with Yellow Mastic	Guard Shack	Fair	Sheet Vinyl	ND		N/A
				Mastic	ND		
302	White Ceiling Panel	Guard Shack	Fair	Ceiling Panel	ND		N/A
303	12"X12" White Vinyl Floor Tile with Brown Mastic	Portable Office (North Of Guard Shack)	Poor	Floor Tile	ND		50 SF
				Mastic	ND		
304	12"X12" Dark Gray Vinyl Floor Tile with Tan Mastic	**Portable Office (North Of Guard Shack)**	**Poor**	**Floor Tile**	**2%**	**Chrysotile**	**50 SF**
				Mastic	ND		
305	White Window Caulking	Portable Office (North Of Guard Shack)	Poor	Caulking	ND		98 LF
306	Gray Stair Tread with Cream Mastic	Mill Offices, Stairs	Poor	Stair Tread	ND		21 Stairs
				Mastic	ND		
307	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, West Side	Poor	Paint	ND		N/A
308	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, North Side	Poor	Paint	ND		N/A
309	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, A Boiler, East Side	Poor	Paint	ND		N/A
310	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, West Side	Poor	Paint	ND		N/A
311	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, North Side	Poor	Paint	ND		N/A
312	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, B Boiler, East Side	Poor	Paint	ND		N/A
313	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Paint	ND		N/A
314	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, South Side	Poor	Paint	ND		N/A
315	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, C Boiler, West Side	Poor	Paint	ND		N/A
316	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, North Side	Poor	Paint	ND		N/A
317	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, West Side	Poor	Paint	ND		N/A
318	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, D Boiler, East Side	Poor	Paint	ND		N/A
319	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, West Side	Poor	Paint	ND		N/A
320	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Paint	ND		N/A
321	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Paint	ND		N/A
					ND		
322	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Boiler, East Side	Poor	Paint	ND		N/A
323	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Boiler, West Side	Poor	Paint	ND		N/A
324	Silver Paint On Metal Boiler	Boiler Plant, 1st Floor, Silver Paint, North Side	Poor	Paint	ND		N/A
325	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, A Boiler, South Side	Poor	Sealant	ND		40 LF
326	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, B Boiler, South Side	Poor	Sealant	ND		RE: 325
327	Gray Sealant on Boiler Hatch	Boiler Plant, 1st Floor, C Boiler, North Side	Poor	Sealant	ND		RE: 325
328	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, A Boiler, West Side	Poor	Sealant	ND		32 LF
329	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, D Boiler, West Side	Poor	Sealant	ND		RE: 328
330	Black Sealant on Boiler Hatch	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Sealant	ND		RE: 328
331	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		1 Gasket
332	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		RE: 331
333	Gray Cloth Gasket	Boiler Plant, 1st Floor, C Boiler, East Side	Poor	Gasket	ND		RE: 331
334	White Caulking with Insulation	Boiler Plant, 1st Floor, A Boiler, South Side	Fair	Caulking	ND		N/A

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
335	White Caulking with Insulation	Boiler Plant, 1st Floor, C Boiler, South Side	Fair	Caulking	ND		N/A
				Caulking	ND		
336	White Caulking with Insulation	Boiler Plant, 1st Floor, D Boiler, North Side	Fair	Caulking	ND		N/A
				Insulation	ND		
337	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, A Boiler, North Side**	**Poor**	**Insulation**	**10%**	**Chrysotile**	4,208 SF
338	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, B Boiler, North Side**	**Poor**	**Insulation**	**8%**	**Chrysotile**	**RE: 337**
339	**Red Boiler Insulation**	**Boiler Plant, 1st Floor, D Boiler, South Side**	**Poor**	**Insulation**	**10%**	**Chrysotile**	**RE: 337**
340	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
341	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
342	White Cloth Tape on Wood Hatch Cover	Boiler Plant, 1st Floor, D Boiler, East Side	Good	Tape	ND		N/A
343	TSI Pipe Insulation Debris (Spill On Ground)	Boiler Plant, Adjacent To South Side Of Green Boiler	Poor	Insulation	ND		N/A
344	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**35%**	**Amosite**	**600 SF**
345	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**35%**	**Amosite**	**RE: 344**
346	**TSI Insulation Debris (Spill On Ground)**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**30%**	**Amosite**	**RE: 344**
347	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
348	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
349	Jacket Insulation with White Insulation	Boiler Plant, 1st Floor, Green Boiler, East Side	Poor	Insulation	ND		N/A
				Insulation	ND		
350	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Silver Boiler, East Side	Poor	Insulation	ND		N/A
351	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Insulation	ND		N/A
352	Hard Off-White Pipe Insulation	Boiler Plant, 1st Floor, Green Boiler, South Side	Poor	Insulation	ND		N/A
353	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**50%**	**Chrysotile**	3,605 SF
354	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**60%**	**Chrysotile**	**RE: 353**
355	**White Boiler Insulation**	**Boiler Plant, 1st Floor, Tm Boiler, East Side**	**Poor**	**Insulation**	**60%**	**Chrysotile**	**RE: 353**
356	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
357	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
358	Gray Fire Brick	Boiler Plant, 1st Floor, Green Boiler	Fair	Fire Brick	ND		N/A
359	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
360	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
361	Boiler Door Insulation	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
362	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**820 SF**
363	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 362**
364	**Cement Asbestos Board Boiler Wall Panel**	**Boiler Plant, Basement, Silver Boiler**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 362**
365	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
366	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
367	Red Boiler Insulation behind Cement Asbestos Board	Boiler Plant, Basement, Silver Boiler	Poor	Insulation	ND		N/A
368	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	4,131 SF
369	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 368**
370	**Cement Asbestos Board Wall Panels**	**Recovery Boiler, 1st Floor, Control Room**	**Poor**	**Cement Asbestos Board**	**20%**	**Chrysotile**	**RE: 368**
371	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**6%**	**Chrysotile**	3,605 SF
372	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**8%**	**Chrysotile**	**RE: 371**
373	**Boiler Insulation**	**Recovery Boiler, 1st Floor**	**Poor**	**Insulation**	**15%**	**Chrysotile**	**RE: 371**

APEX

Table 1: Asbestos Survey Results
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
374	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
375	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
376	Silver Paint On Metal Boiler	Recovery Boiler, 1st Floor	Poor	Paint	ND		N/A
377	**Transite Siding**	**Maintenance Shop - Southern Exterior**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
378	**Transite Siding**	**Boiler Plant, 1st Floor**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
379	**Transite Siding**	**South Substation, 2nd Floor, Exterior**	**Poor**	**Transite**	**20%**	**Chrysotile**	**RE: 25**
380	**Transite Siding**	**Paper Machine #3, 1st Floor, West - Exterior**	**Poor**	**Transite**	**18%**	**Chrysotile**	**RE: 25**
381	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
382	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
383	9" Pipe Elbow Insulation	Carpenter Shop, Box A	Poor	Insulation	ND		N/A
384	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
385	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
386	9" Elbow Mixed with Fiberglass	Carpenter Shop, Box B	Poor	Insulation	ND		N/A
387	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
388	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
389	4" Pipe Insulation	Carpenter Shop, Box C	Poor	Insulation	ND		N/A
390	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Box D	Poor	Insulation	ND		N/A
391	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Pipe Run	Poor	Insulation	ND		N/A
392	4" Pipe Insulation with Fabric Wrap	Carpenter Shop, Box E	Poor	Insulation	ND		N/A
393	Block Insulation	Carpenter Shop, Box F	Fair	Insulation	ND		8 Boxes
394	Block Insulation	Carpenter Shop, Box G	Fair	Insulation	ND		RE: 393
395	Block Insulation	Carpenter Shop, Box H	Fair	Insulation	ND		RE: 393
396	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		1 Box
397	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		RE: 396
398	Block Insulation	Carpenter Shop, Box I	Poor	Insulation	ND		RE: 396
399	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		1 Box
400	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		RE: 399
401	4" Pipe Insulation	Carpenter Shop, Box J	Poor	Insulation	ND		RE: 399
402	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		1 Box
403	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		RE: 402
404	4" Pipe Insulation	Carpenter Shop, Box K	Fair	Insulation	ND		RE: 402
405	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		1 Box
406	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		RE: 405
407	4" Pipe Insulation	Carpenter Shop, Box L	Fair	Insulation	ND		RE: 405
408	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		1 Box
409	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		RE: 408
410	4" Pipe Insulation	Carpenter Shop, Box M	Fair	Insulation	ND		RE: 408
411	12" 1/2 Pipe Insulation	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
412	12" Full Pipe Insulation with Fiber Wrap	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
				Wrap	ND		
413	4" Pipe Insulation with Metal Wrap	Carpenter Shop, Box N	Poor	Insulation	ND		3 LF
				Wrap	ND		
414	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		1 Box
415	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		RE: 414

APEX

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
416	4" Pipe Elbows with Mixed Debris	Carpenter Shop, Box O	Poor	Insulation	ND		RE: 414
417	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		1 Box
418	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		RE: 417
419	3" Pipe Insulation	Carpenter Shop, Box P	Fair	Insulation	ND		RE: 417
420	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		1 Box
421	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		RE: 420
422	12" Pipe Insulation (Broken)	Carpenter Shop, Box Q	Poor	Insulation	ND		RE: 420
423	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		1 Box
424	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		RE: 424
425	4" Pipe Insulation	Carpenter Shop, Box R	Fair	Insulation	ND		RE: 424
426	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		1 Box
427	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		RE: 426
428	1" Pipe Insulation	Carpenter Shop, Box S	Fair	Insulation	ND		RE: 426
429	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		1 Box
				Wrap	ND		
430	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		RE: 429
				Wrap	ND		
431	4" Pipe Insulation with Cloth Wrap	Carpenter Shop, Box T	Poor	Insulation	ND		RE: 429
				Wrap	ND		
432	White Powder In 5 Gallon Bucket	Carpenter Shop	Poor	Powder	ND		5 Gallons
433	Finishing Concrete Powder Spill	Carpenter Shop	Poor	Concrete	ND		50 lbs
434	White Insulation Spill	Carpenter Shop	Poor	Insulation	ND		2 SF
435	12" Pipe Insulation	Carpenter Shop, 1st Floor	Poor	Insulation	ND		1 Box
436	12" Pipe Insulation	Carpenter Shop, 1st Floor	Poor	Insulation	ND		RE: 435
437	12" Pipe Insulation	Carpenter Shop, 1st Floor, Spill On Floor	Poor	Insulation	ND		RE: 435
438	White Rope Gasket	Carpenter Shop, 1st Floor	Poor	Gasket	ND		1 Spool
439	Light Gray Window Glazing	North Side of Bridge between Paper Machine 4 and No. 4 Finishing Room Warehouse	Poor	Window Glazing	ND		N/A
440	Black Fiber Paper with **Black Mastic**	**South Side of Bridge between Paper Machine 4 and No. 4 Finishing Room Warehouse**	**Fair**	Tar Paper	ND		N/A
				Tar/Mastic	**5%**	**Chrysotile**	**110 SF**
441	**Black Pipe Vibration Dampener**	**Adjacent to Paper Machine #3, River Side**	**Poor**	**Vibration Dampener**	**65%**	**Chrysotile**	**RE: 221**
442	Black Sealant	Adjacent to Paper Machine #3; Tank Foundation	Fair	Sealant	ND		N/A
443	Black Gasket	Adjacent to Paper Machine #3; Tank Foundation	Fair	Gasket	ND		N/A
				Mastic	ND		N/A
444	**Black Pipe Sealant**	**Adjacent to Paper Machine #3; Under**	**Fair**	Sealant	ND		N/A
				Backing	**60**	**Chrysotile**	**2,000 LF**
445	Gray paint on CMU blocks	Office Adjacent to Guard Shack; East Exterior	Fair	CMU	ND		N/A
446	Fiber Pipe Wrap	Woolen Mill West Exterior	Good	Fiber Wrap	ND		N/A
447	Tank Material	Deink-H1-D-tank	Fair	Tank Material	ND		N/A
448	Tank Material	Deink-H1-D-tank	Fair	Tank Material	ND		N/A

Table 1: Asbestos Survey Results Former Blue Heron Mill Main Street Oregon City, Oregon							
Sample No.	Material	Location	Condition	Layer	PLM Result	Asbestos Type	Estimated Quantity
449	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**1,260 SF**
450	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
451	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
452	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
453	**Textured Coating on Tank**	**Tank Adjacent to Paper Machine #1**	**Fair**	**Texture**	**10%**	**Chrysotile**	**RE: 449**
454	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		N/A
455	**Skim Coat on Concrete**	**Paper Machine #1**	**Fair**	**Skim Coating**	**0.5%**	**Chrysotile**	**42,000 SF**
456	**Skim Coat on Concrete**	**Paper Machine #1**	**Fair**	**Skim Coating**	**0.5%**	**Chrysotile**	
457	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
458	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
459	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
460	Skim Coat on Concrete	Paper Machine #1	Fair	Skim Coating	ND		
461	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
462	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
463	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
464	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
465	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
466	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
467	Skim Coat on Concrete	Raw Material Storage	Fair	Skim Coating	ND		N/A
468	Black Felt Paper	Weld Shop-Under Transite	Poor	Black felt	ND		N/A
469	Concrete Tile over Blue Foam over Rubber with Sealant over Built-up Asphalt Roofing	Paper Machine #1 - Roof	Poor	Concrete	ND		N/A
				Foam	ND		N/A
				Rubber Membrane	ND		N/A
				Sealant	ND		N/A
				Built-up Roofing	ND		N/A

Notes:

PLM - Polarized Light Microscopy
% by volume refers to the analytical method of Polar Light Microscopy, EPA Method 600/R-93/116, July 1993
ND = No Asbestos Detected
SF = Square Feet
LF = Linear Feet
EA = Each or Individual Unit
RE: = Reference Sample A-XX
N/A = Not Applicable
Bold type indicates at least one sample layer contains regulated quantities of asbestos.
Chrysotile = Chrysotile Asbestos
Amosite = Amosite Asbestos
Crocidolite = Crocidolite Asbestos

Table 2: Summary of Paint Chip Sampling and Analytical Results Former Blue Heron Mill Main Street Oregon City, Oregon					
Sample ID	*Location*	*Color*	*Substrate*	*Component*	*Lead Concentration*
L-01	Truck Dump, SW Exterior	White	Metal	Beam	<0.0098 % wt
L-02	Paper Machine #4, 4th Floor	Gray	Concrete	Wall	0.70 % wt
L-03	Sulphite Tank	Silver	Metal	Tank	<0.010 % wt
L-04	Paper Machine #4 , 1st Floor	Light Green	Metal	Wall / Beam	0.088 % wt
L-05	Ext Body Color Of Paper Machine #4	Light Gray	Concrete	Exterior Wall Beam	<0.010 % wt
L-06	Ext Guardrail; NW Side Of Paper Machine #4	Yellow	Metal	Guardrail	2.7 % wt
L-07	Paper Machine #4; Shipping Shed Control Room	Light Gray	Wood	Wall	<0.0099 % wt
L-08	Paper Machine #4 Finishing Room	Light Green	Wood	Beam	0.033 % wt
L-09	Exterior Beam Of Sulphite Plant	Beige	Metal	Beam	0.028 % wt
L-10	Sulphite Plant Eastern Tank	Gray	Metal	Tank	2.8 % wt
L-11	Fire Control Room 2nd Floor Of Sulphite Plant	Red	Wood	Door	<0.010 % wt
L-12	Chip Silo	White	Concrete	Wall	6.0 % wt
L-13	Weld Shop	Cream	Metal	Sliding Door	0.19 % wt
L-14	Weld Shop	Gray	Metal	Beam	<0.012 % wt
L-15	TMP Refiner Lines Exterior	Gray	Concrete	Wall	0.012 % wt
L-16	TMP Refiner Lines 2nd Floor	Gray	CMU	Wall	0.19 % wt
L-17	Mill Offices 2nd Floor	White	Drywall	Wall	<0.0098 % wt
L-18	Mill Offices Southern Stairwell	White	Wood	Wall	<0.0099 % wt
L-19	Maintenance Shop	Yellow	Metal	Bollard	4.0 % wt
L-20	Maintenance Shop	Light Green	Wood	Wall	<0.0099 % wt
L-21	Maintenance Shop	Green	Wood	Wall	0.045 % wt
L-22	TMP Area 2nd Floor Refiner Lines	Gray	Metal	Beam	0.031 % wt
L-23	TMP Area 4th Floor Refiner Lines	Gray	Drywall	Wall	<0.0098 % wt
L-24	TMP Area 1st Floor Control Room	Light Blue	Drywall	Wall	<0.010 % wt
L-25	TMP Area 1st Floor Control Room	Dark Blue	Metal	Window	0.039 % wt
L-26	TMP Area 1st Floor	Red	Metal	Beam	0.50 % wt
L-27	TMP Area 1st Floor	Green	CMU	Wall	0.012 % wt
L-28	Paper Machine #1	Gray	Concrete	Wall	1.7 % wt
L-29	Paper Machine #1 South Control Room	Yellow	Metal	Wall	<0.0098 % wt
L-30	Paper Machine #1	White	CMU	Wall	0.055 % wt
L-31	TMP Reject Refining	White	Metal	Beam	4.2 % wt
L-32	Boiler Plant Basement	Dark Gray	Metal	Door	0.030 % wt
L-33	Boiler Plant Basement	Silver	Metal	Boiler	0.46 % wt
L-34	TMP Hi D Stairs	Orange	Metal	Stairs	17 % wt
L-35	Boiler Plant Basement	Silver	Brick	Wall	0.021 % wt
L-36	Pipe Shop	White	Metal	Door Frame	0.029 % wt
L-37	Carpenter Shop	Light Gray	Metal	Wall	<0.10 % wt
L-38	Raw Material Storage - Exterior	White	Concrete	Wall	0.051 % wt
L-39	Deink Hi-D Tank Exterior	White	White Blocks	Tank Exterior	<0.0099 % wt
L-40	Mill 0 Covered Storage	Gray	Metal	Beam	<0.013 % wt
L-41	Auto Shop	White	Wood	Wall	<0.012 % wt
L-42	Carpenter Shop - West Exterior Window	Gray	Wood	Window Frame	2.7 % wt
L-43	Mill 0 Conference Room - North Exterior	White	CMU	Wall	0.61 % wt
L-44	Paper Machine #3 Basement	White	Metal	Beam	<0.0097 % wt
L-45	Paper Machine #3 Basement	White	Concrete	Wall	0.073 % wt
L-46	Mill D Warehouse	White	Wood	Wall	0.083 % wt

APEX

Table 2: Summary of Paint Chip Sampling and Analytical Results Former Blue Heron Mill Main Street Oregon City, Oregon					
Sample ID	*Location*	*Color*	*Substrate*	*Component*	*Lead Concentration*
L-47	Mill D; 2nd Floor Landing	Green	Concrete	Wall	0.19 % wt
L-48	Mill D; 2nd Floor Landing	White	Concrete	Wall	0.11 % wt
L-49	Mill D; 2nd Floor	White	Wood	Beam	0.097 % wt
L-50	Mill D; 1st Floor	Red	Metal	Fire System Piping	6.8 % wt
L-51	Filter Plant Exterior Barn Door	Gray	Wood	Door	0.30 % wt
L-52	Filter Plant Exterior	Green	Concrete	Wall	0.17 % wt
L-53	Filter Plant - WND Floor	White	Wood	Door Frame	0.19 % wt
L-54	Filter Plant - WND Floor	Gray	Metal	Beam	0.59 % wt
L-55	Filter Plant - WND Floor	White	Metal	Light Pole	0.39 % wt
L-56	Filter Plant; 3Rd Floor	Gray	Drywall	Wall	0.31 % wt
L-57	Guard Shack	Blue	Metal	Door	0.027 % wt
L-58	Guard Shack	Red	Metal	Cabinet	0.17 % wt
L-59	Guard Shack	Gray	Concrete	Wall	0.10 % wt
L-60	Office; Parking Area	Brown	Concrete	Column	0.045 % wt

Notes:

% = Percent lead as determined by flame atomic absorption spectroscopy (EPA Method SW 846-7420).
< = Less than the Lower Detection Limit of flame atomic absorption spectroscopy (EPA Method SW 846-7420).
Bold type indicates that at least one paint layer was identified to have detectable lead concentrations.
OAR 437, Division 2/Z - 1910.1200 addresses hazardous communication requirements for employees.
OAR 437, Division 3/D - 1926.62, Lead addresses compliance associated with worker protection standards for lead referenced.
Painted materials encountered during demolition (that were not accessible for sampling during this survey) should be assumed to contain detectable concentrations of lead and are, therefore, regulated.

APEX

FIGURES

Note: Base map prepared from USGS 7.5-minute quadrangles of Canby and Oregon City, OR, dated 2017 as provided by USGS.gov.

0 2,000 4,000

Approximate Scale in Feet

Site Location Map

Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		1

DRAFT

CLARIFIER
PORTLAND GENERAL ELECTRIC COMPANY DAM
INTAKE BASIN
TMP REJECT REFINING & SCREENING
TMP HI-D
MILL "G"
BOILER PLANT
#1 BLDG.
PIPE TUNNEL
RECOVERY BOILER (OUT OF SERVICE)
PIPE SHOP
LAB
MILL "O" CONFERENCE ROOM
#2 PUMP STA.
WATER STREET
TMP AREA
MILL "H"
DEINK AREA
CHIP SILO
CHIP SILO
SOUTH SUBSTATION
AUTO SHOP
CARPENTER SHOP
MILLWRIGHT SHOP
KRAFT & BROKE PULPER
RAW MATERIAL STORAGE
No.3 PAPER MACHINE
RAIL CAR LOADING
4th STREET
WATER FILTER PLANT
PARKING LOT
No.2. PAPER MACHINE (OUT OF SERVICE)
MILL "D" WAREHOUSE
PARKING LOT
3rd STREET
No.1 PAPER MACHINE
NO. 1 P.M. SAVEALL, CLEANERS & DECULATOR
BLEACH PLANT
DEINK HI-D
MILL "O" COVERED STORAGE
MILL "O" STORAGE
BUTLER BUILDING
PARKING LOT
TRUCK LOADING
GUARD SHACK
BLUE HERON PAPER OFFICE AREA
MILL "E"
MILL OFFICES
MAINTENANCE SHOPS
No. 5 & 6 TMP REFINER LINES
RECEIVING & STORE ROOM
WELD SHOP
ELEVATED PIPE RACK
SKYWAY
TRUCK SCALE
DEINK OMG PULPER
DEINK ONP REPULPER
CHIP & SAWDUST SILO
SULPHITE PLANT (OUT OF SERVICE)
DIG. (OUT OF SERVICE)
No.4 P.M. SAVE-ALL
No.4 PAPER MACHINE
NORTH SUBSTATION
TRUCK DUMP
GAS STATION
CHIP SILO
KRAFT TANK
No.4 FINISHING ROOM & WAREHOUSE
SHIPPING SHED
UNLOADER CHIP BIN
DEINK DUMP CHEST
CHIP STORAGE
RAIL UNLOADER
MAIN LINE SOUTHERN PACIFIC RAILWAY
U.S. 99E

Legend:

Metro Project Boundary (Approximate)

0 100 200
Approximate Scale in Feet

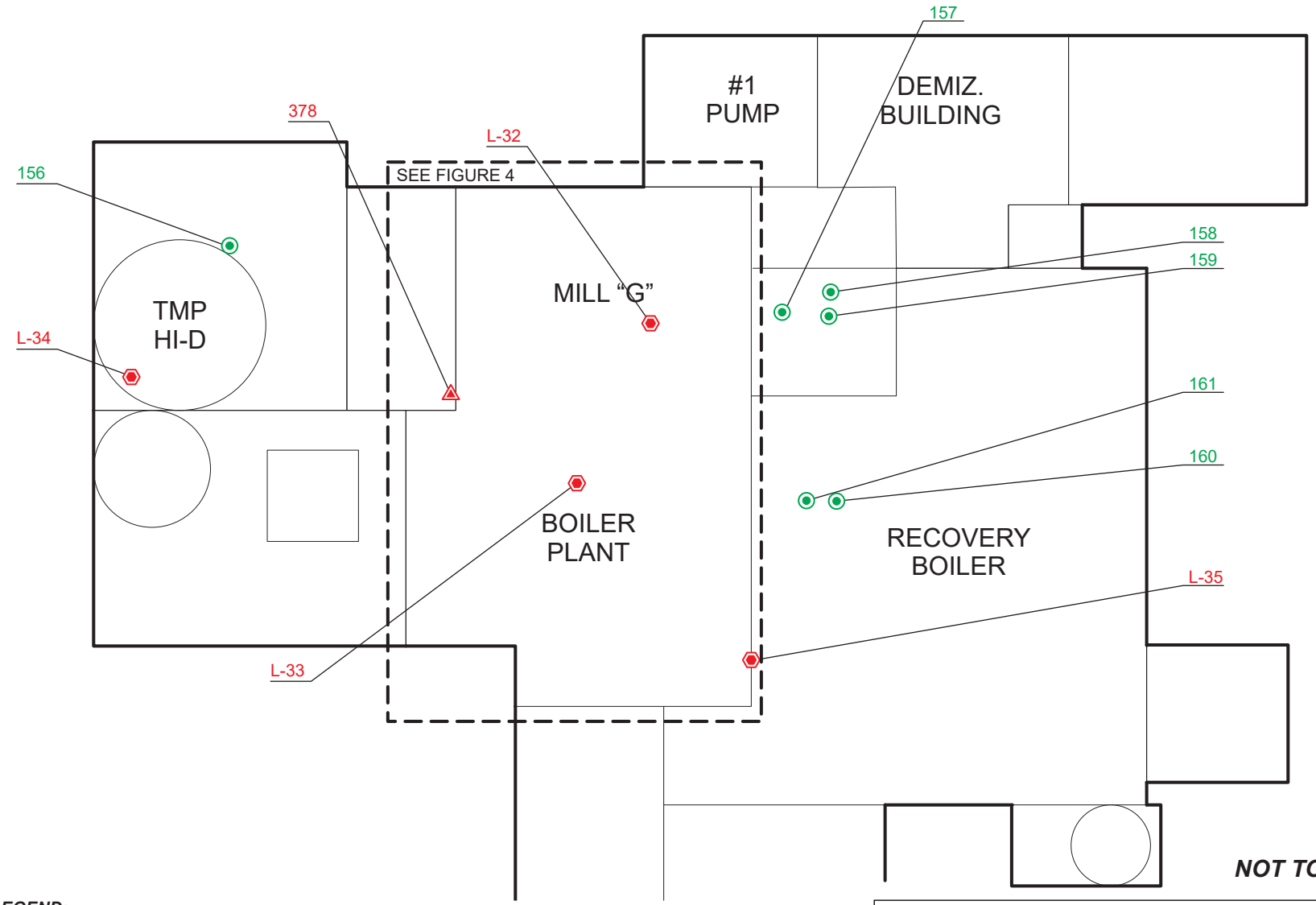
NOTE: Base map prepared from a Mill Map provided by Blue Heron Paper Company (1996) and Google Earth Pro Imagery. Aerial dated July 16, 2018.

Site Plan

Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		2



LEGEND:

157 Negative Asbestos Sample Location

378 Positive Asbestos Sample Location

L-33 Positive Lead Paint Sample Location

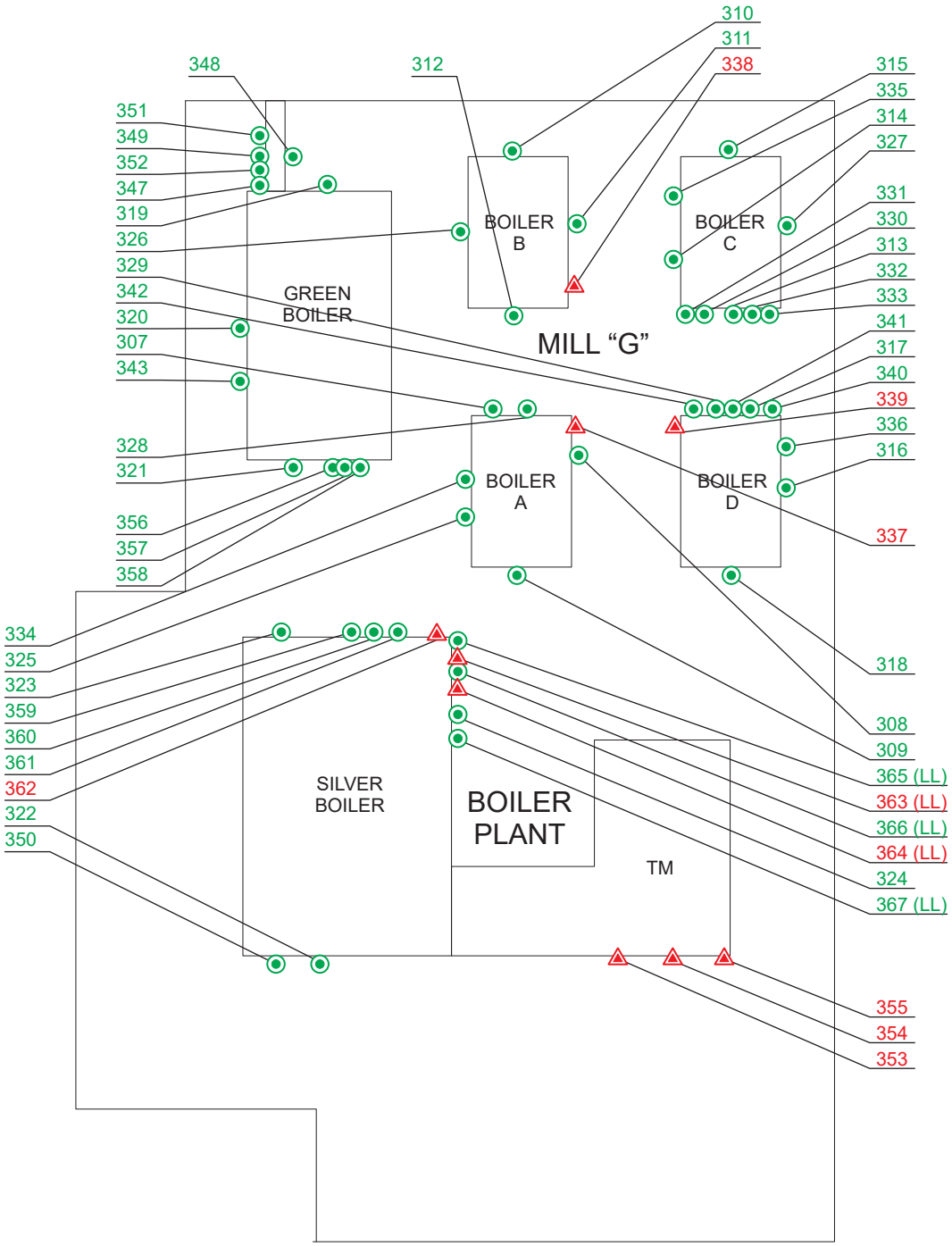
N

Sample Locations

Mill "G" Area, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		3



NOT TO SCALE

LEGEND:

350 ◉ Negative Asbestos Sample Location

353 ▲ Positive Asbestos Sample Location

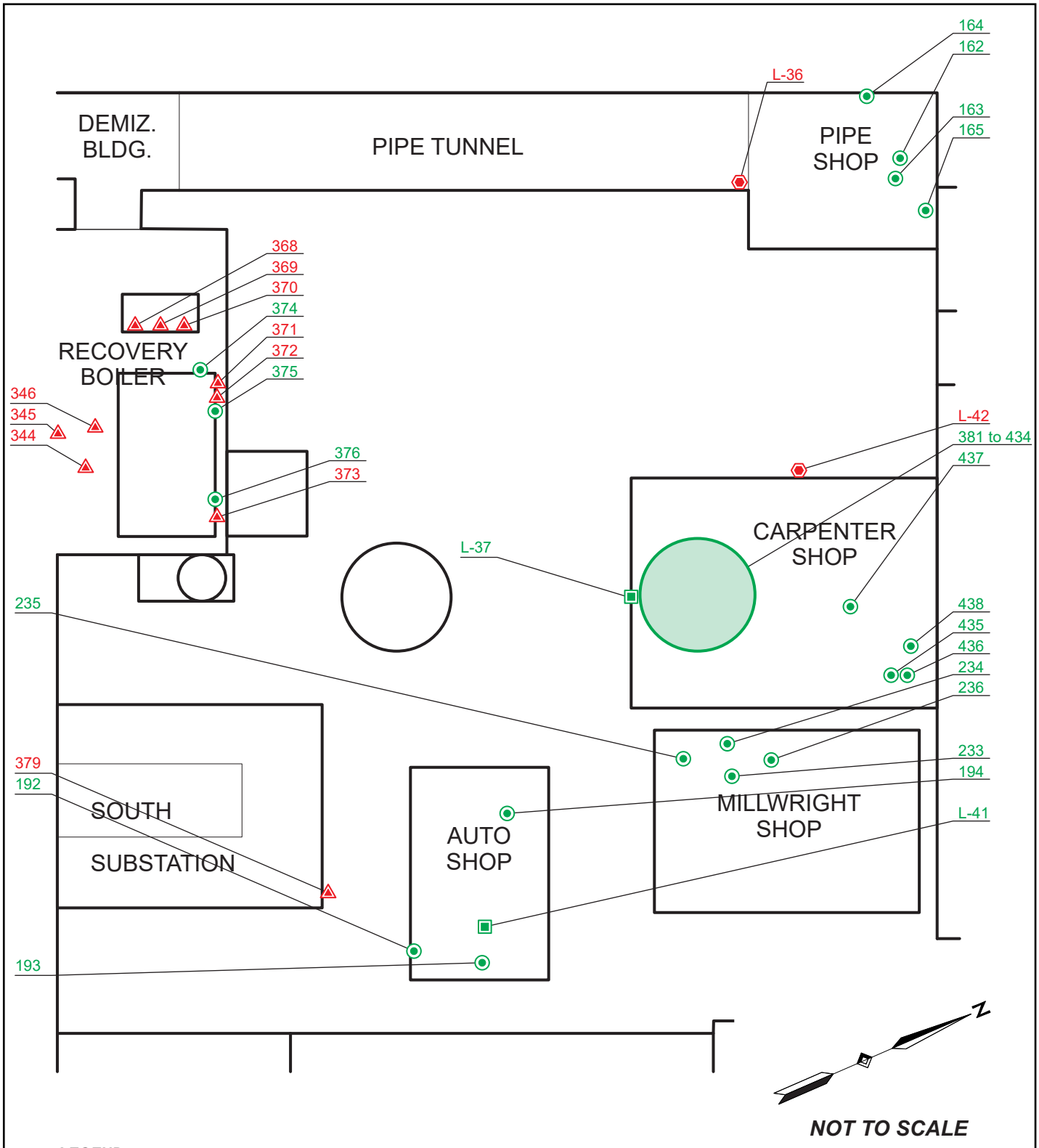
(LL) Lower Level

Sample Locations

Mill "G" Area
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		4



LEGEND:

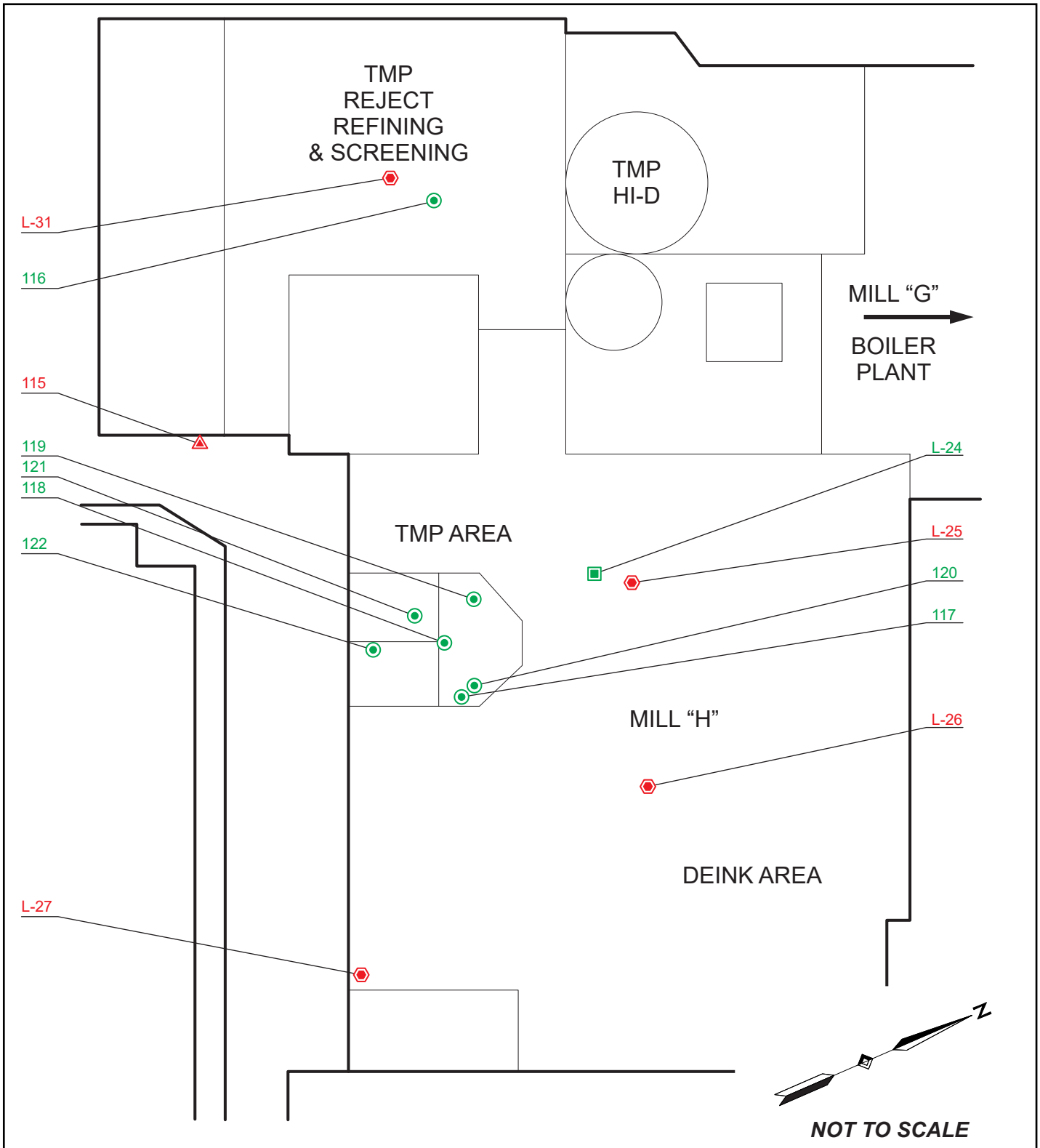
193 ◉	Negative Asbestos Sample Location
379 ▲	Positive Asbestos Sample Location
L-37 ▣	Negative Lead Paint Sample Location
L-36 ⬢	Positive Lead Paint Sample Location
●	Area of Negative Asbestos Sample Locations

Sample Locations

Carpenter, Millwright, Auto, and Pipe Shop
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		5



LEGEND:

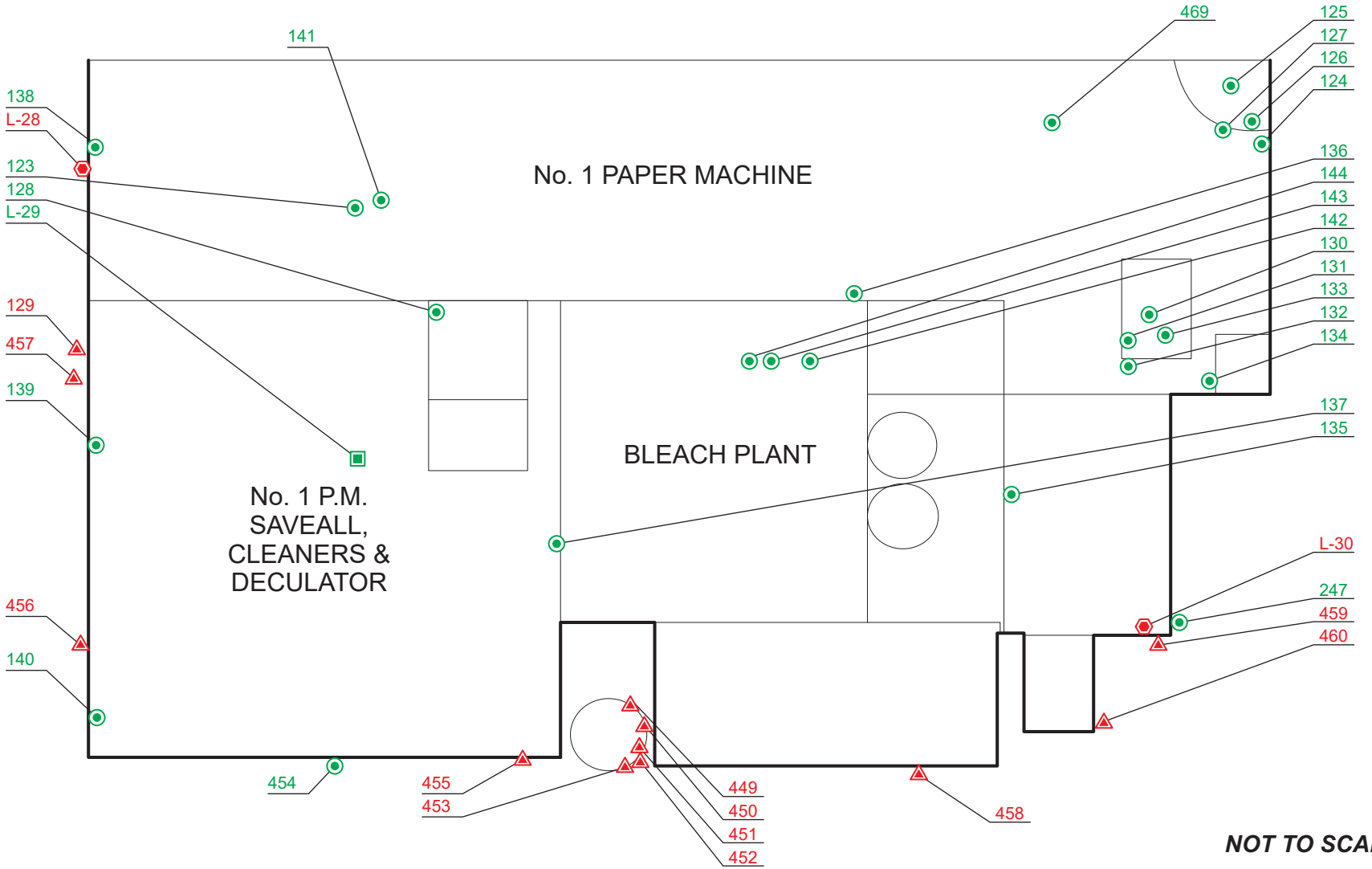
- 122 — Negative Asbestos Sample Location
- 115 — Positive Asbestos Sample Location
- L-24 — Negative Lead Paint Sample Location
- L-27 — Positive Lead Paint Sample Location

Sample Locations

Mill "H" Area, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		6



NOT TO SCALE

LEGEND:

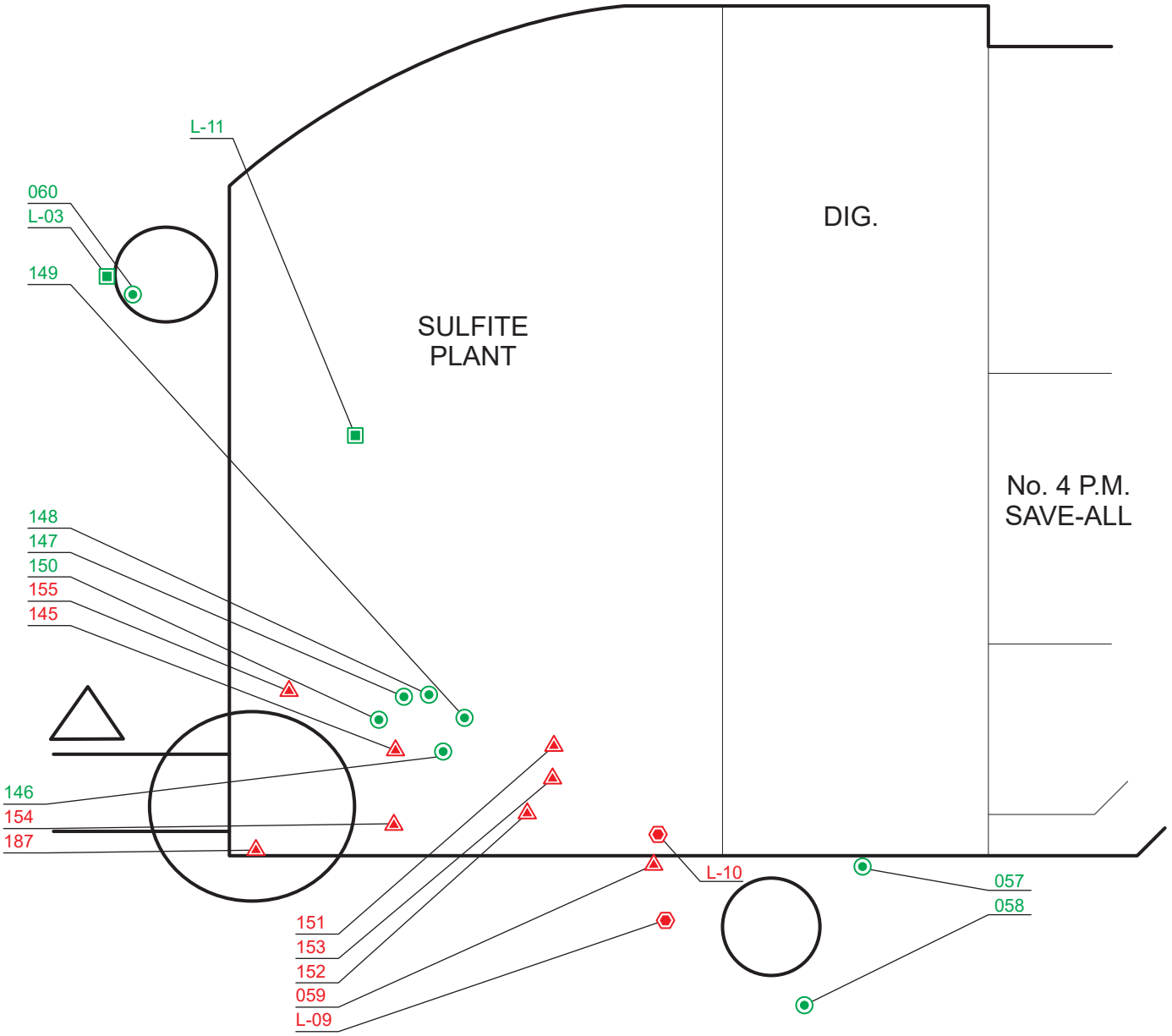
140 ◉	Negative Asbestos Sample Location
129 ▲	Positive Asbestos Sample Location
L-29 ▣	Negative Lead Paint Sample Location
L-28 ⬢	Positive Lead Paint Sample Location

Sample Locations

No. 1 Paper Machine, 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		7



LEGEND:

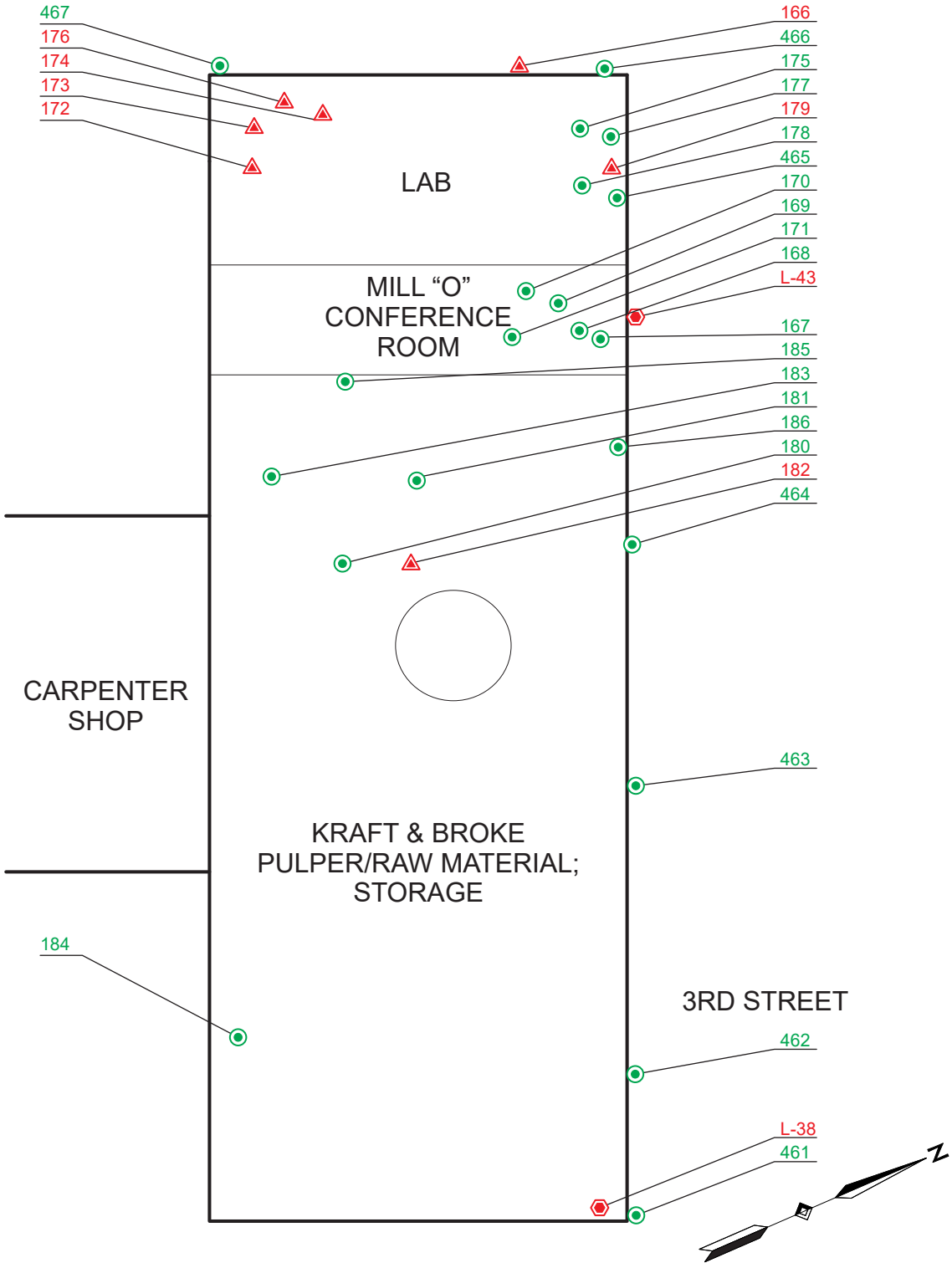
059	Negative Asbestos Sample Location
187	Positive Asbestos Sample Location
L-11	Negative Lead Paint Sample Location
L-09	Positive Lead Paint Sample Location

Sample Locations

Sulfite Plant
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		8



NOT TO SCALE

LEGEND:

184 Negative Asbestos Sample Location

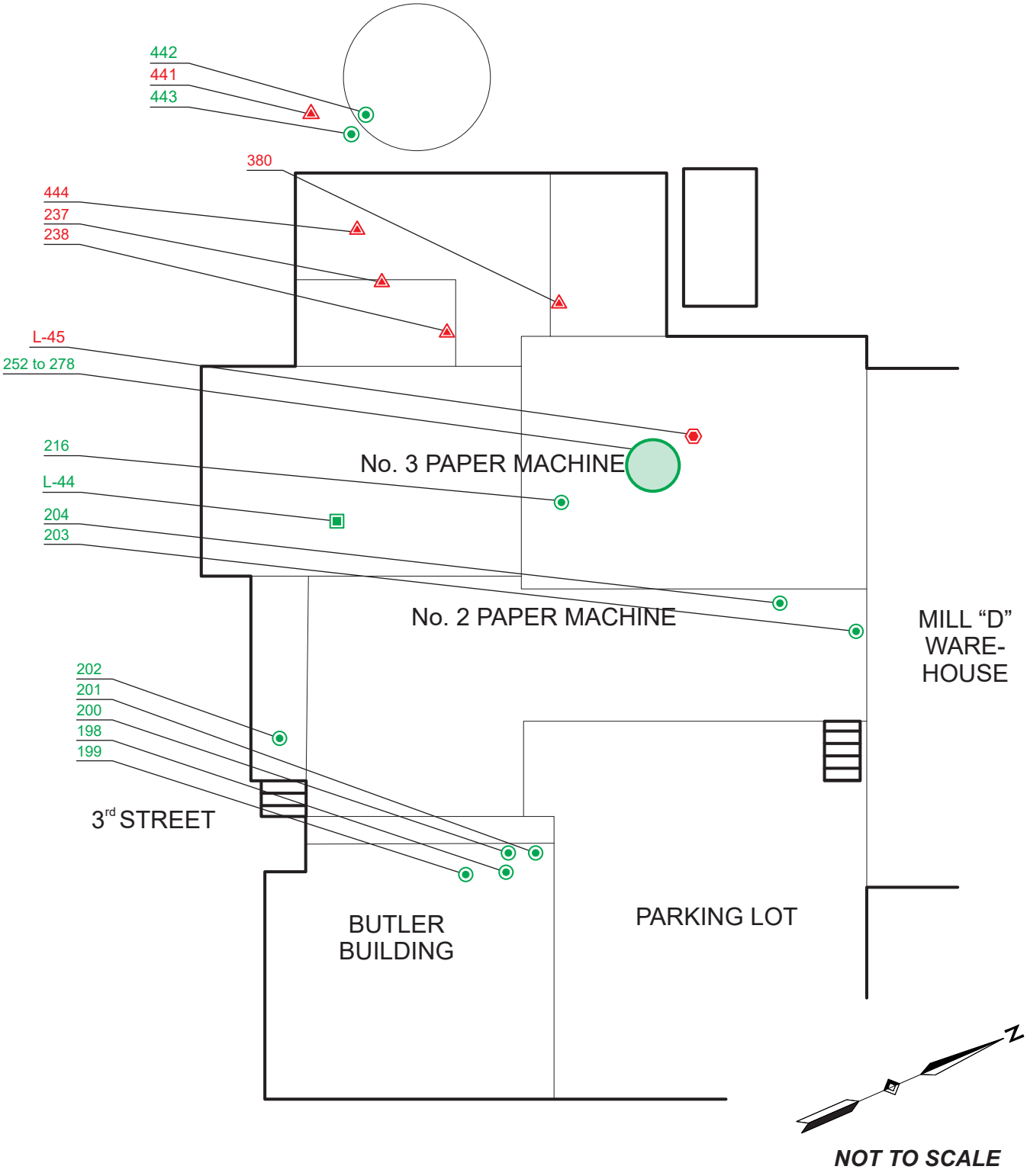
182 Positive Asbestos Sample Location

L-38 Positive Lead Paint Sample Location

Sample Locations

Lab, Mill "O" Conference Room, Pulper and Raw Material Storage
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	2449-00	Figure 9
	December 2018		



LEGEND:

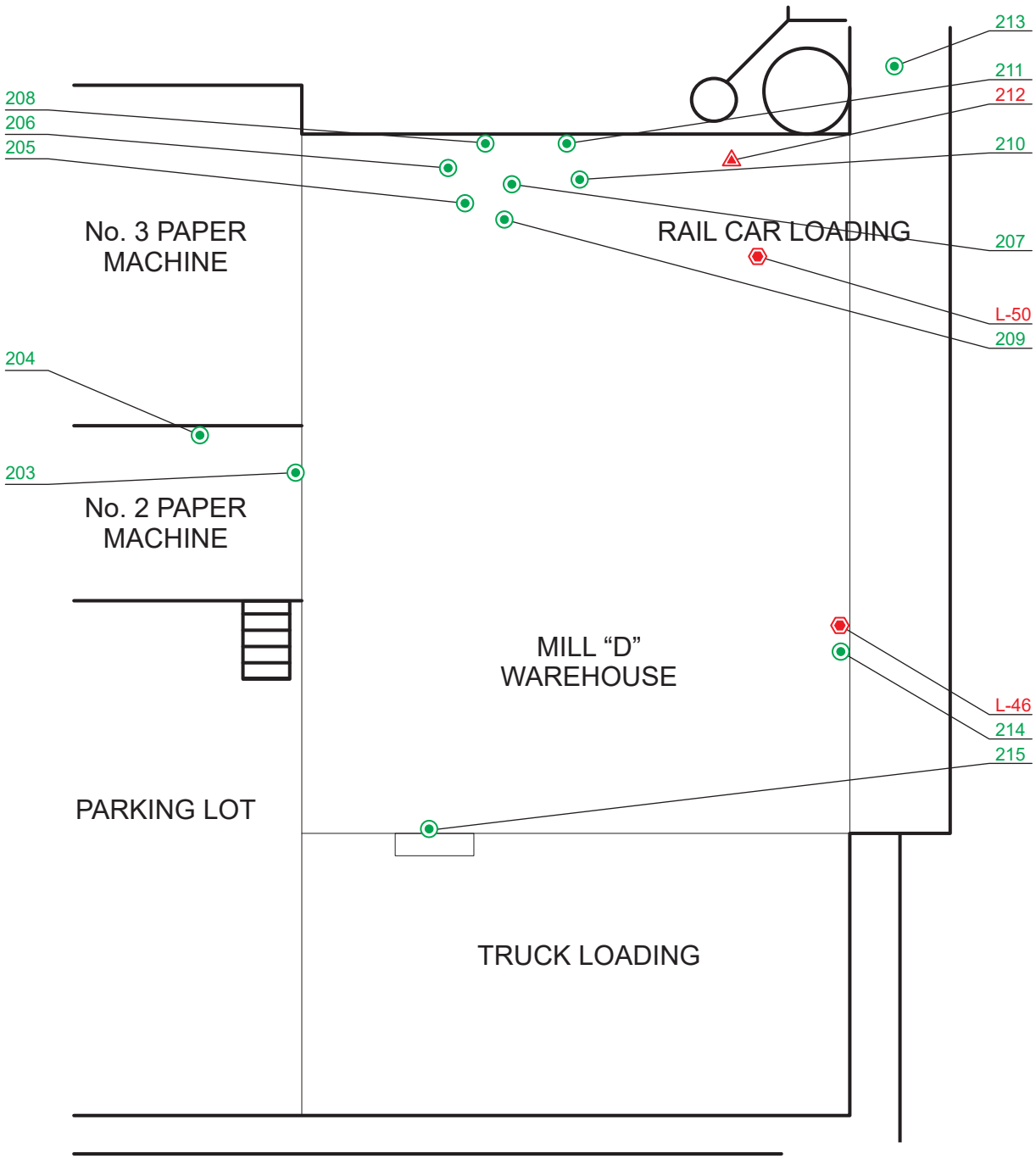
199 ◉	Negative Asbestos Sample Location
237 ▲	Positive Asbestos Sample Location
L-44 ▣	Negative Lead Paint Sample Location
L-45 ⬢	Positive Lead Paint Sample Location
●	Area of Negative Asbestos Sample Locations

Sample Locations

No. 3 and No. 2 Paper Machine, Butler Building
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		10



NOT TO SCALE

LEGEND:

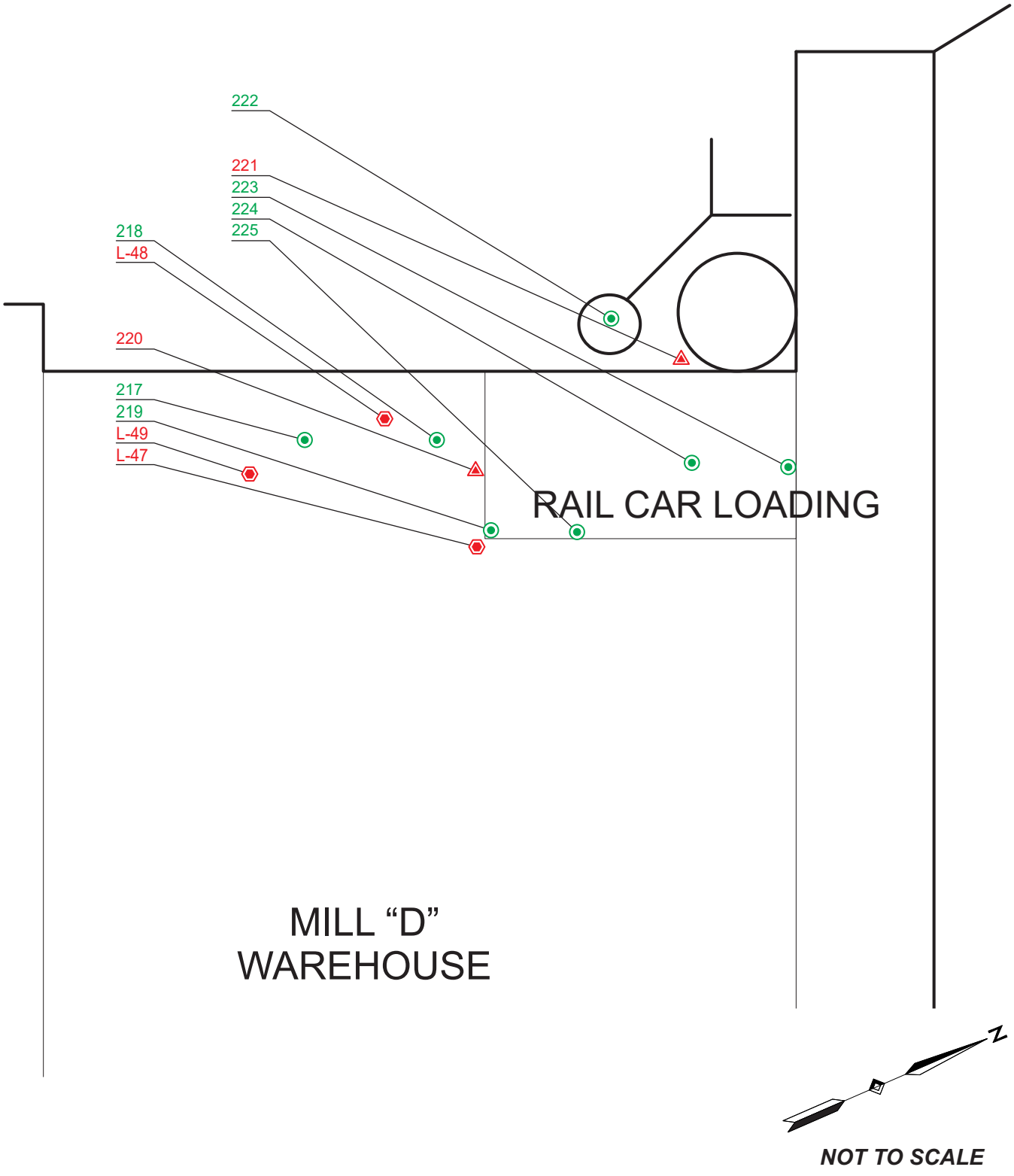
203 ◉	Negative Asbestos Sample Location
215 ▲	Positive Asbestos Sample Location
L-46 ⬢	Positive Lead Paint Sample Location

Sample Locations

Mill "D" Warehouse, 1st Floor and Basement
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		11



NOT TO SCALE

LEGEND:

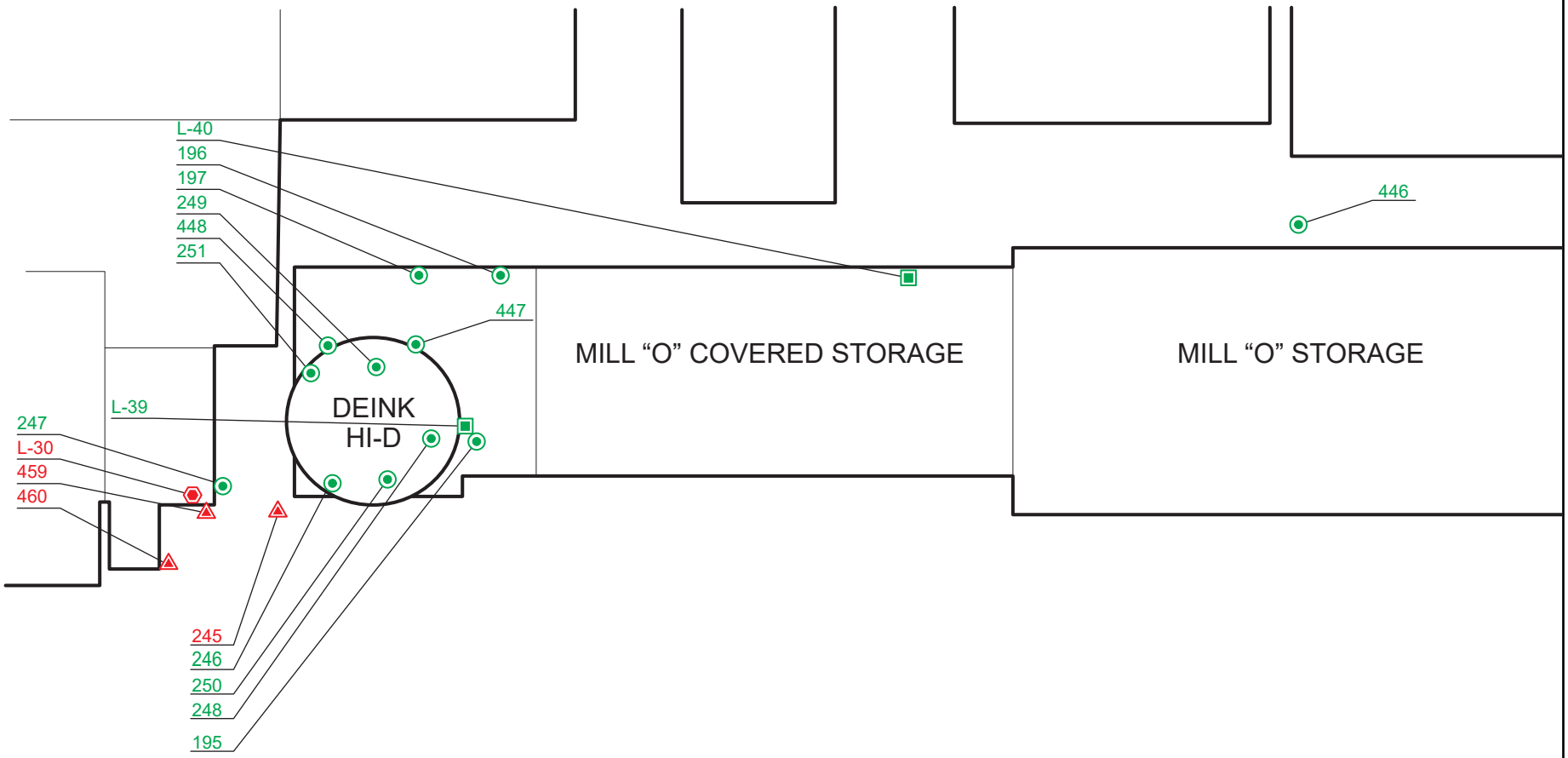
217 ◉	Negative Asbestos Sample Location
221 ▲	Positive Asbestos Sample Location
L-48 ⬢	Positive Lead Paint Sample Location

Sample Locations

Mill "D" Warehouse, 2nd Floor and Roof
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		12



NOT TO SCALE

LEGEND:

246 Negative Asbestos Sample Location

245 Positive Asbestos Sample Location

L-39 Negative Lead Paint Sample Location

L-30 Positive Lead Sample Location

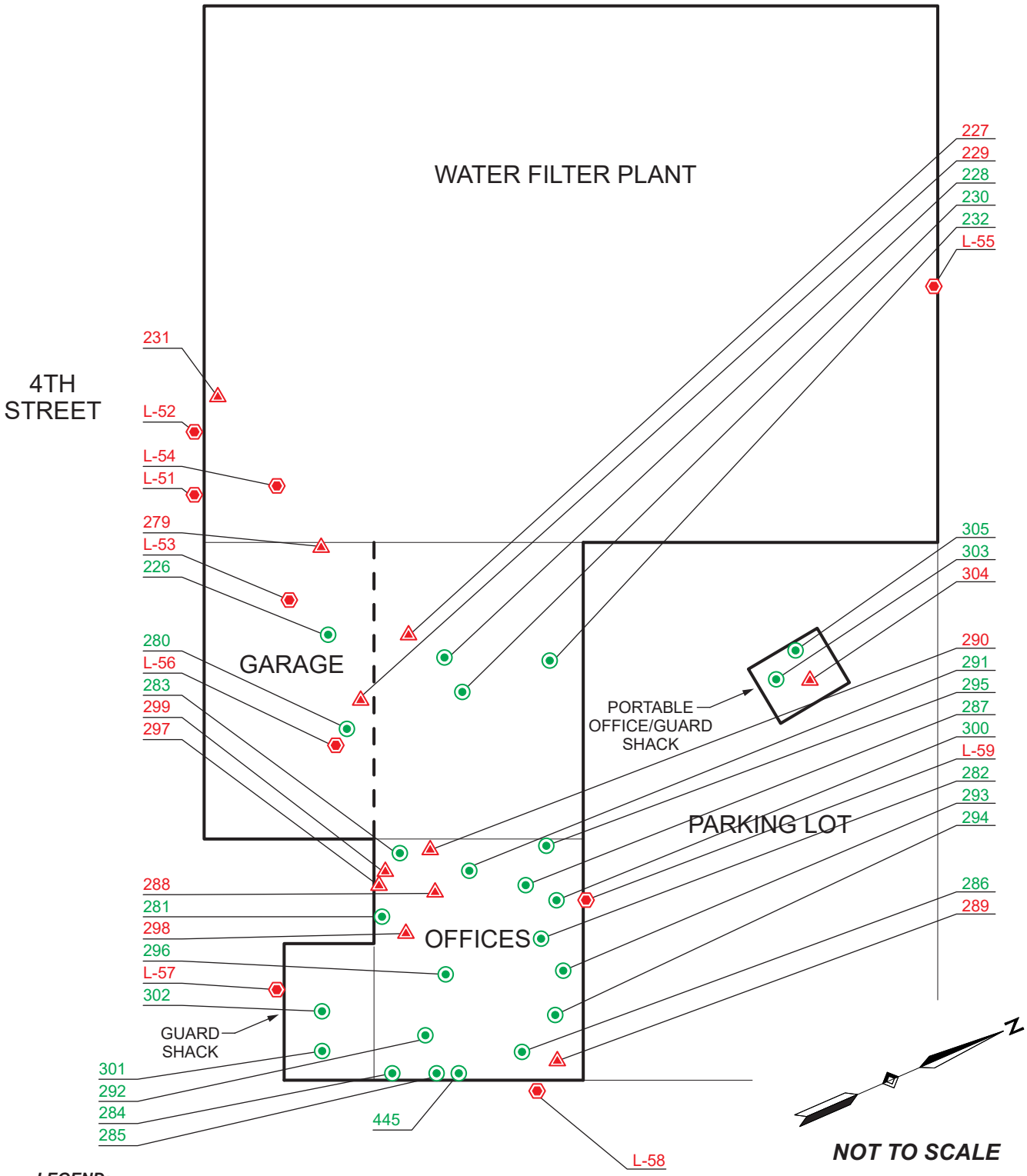
N

Sample Locations

Mill "O" Storage and De-Ink HI-D
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		13



LEGEND:

285 Negative Asbestos Sample Location

298 Positive Asbestos Sample Location

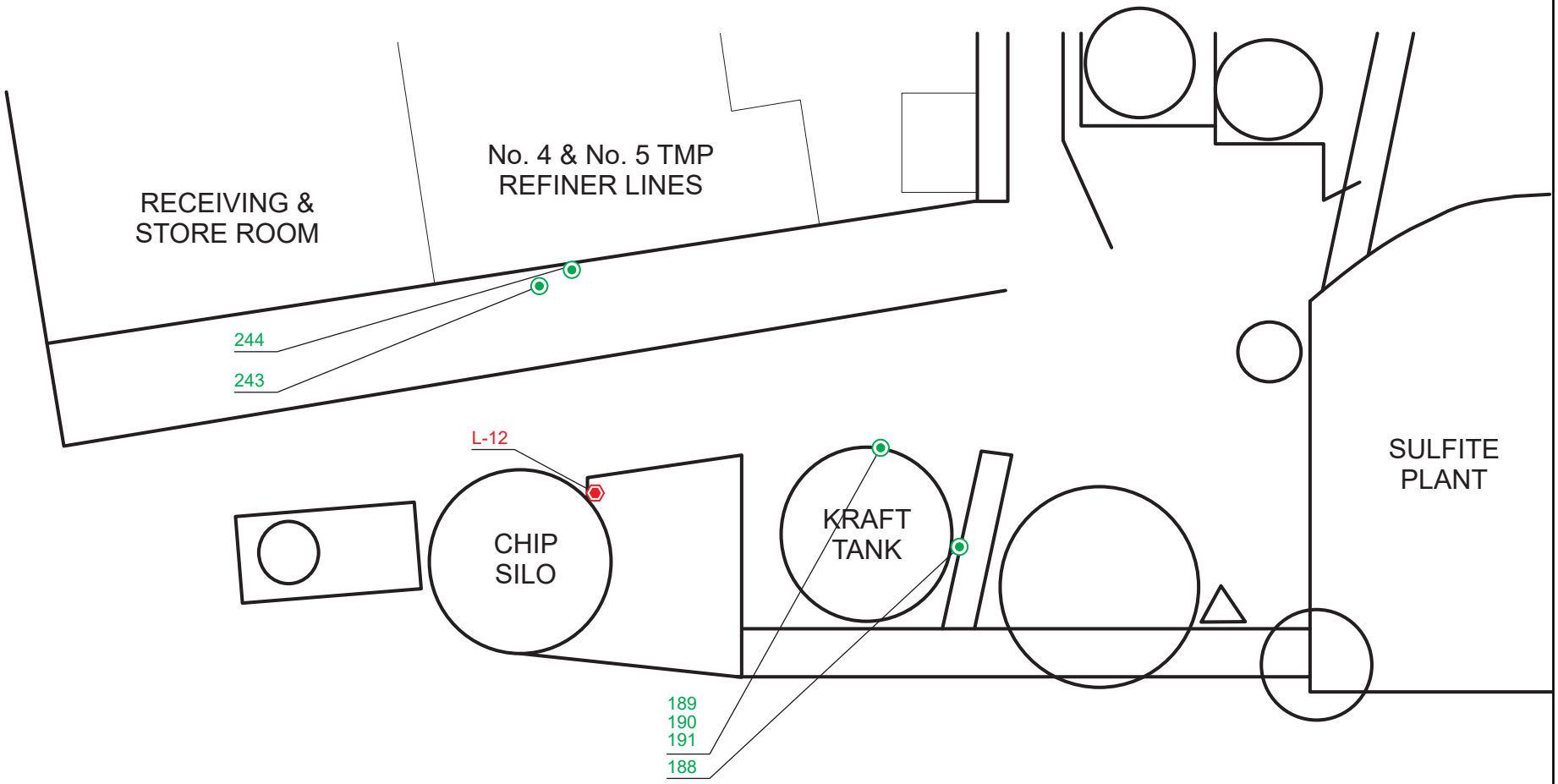
L-58 Positive Lead Paint Sample Location

Sample Locations

Water Filter Plant and Offices
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		14



NOT TO SCALE

LEGEND:

188 Negative Asbestos Sample Location

L-12 Positive Lead Paint Sample Location

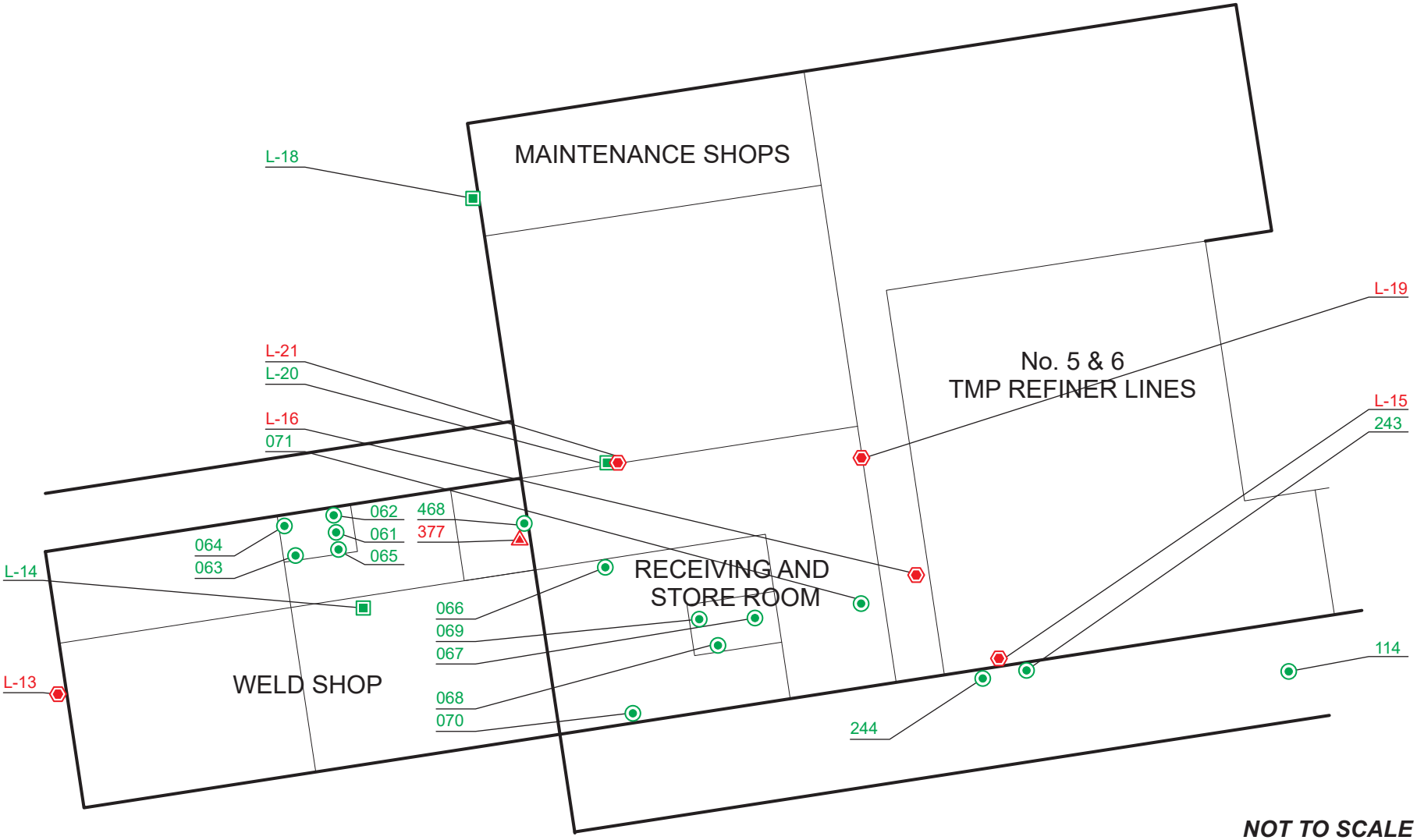
N

Sample Locations

Kraft Tank and TMP Refiner Lines
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		15



LEGEND:

070 ◉	Negative Asbestos Sample Location
377 ▲	Positive Asbestos Sample Location
L-14 ▣	Negative Lead Paint Sample Location
L-13 ⬢	Positive Lead Paint Sample Location

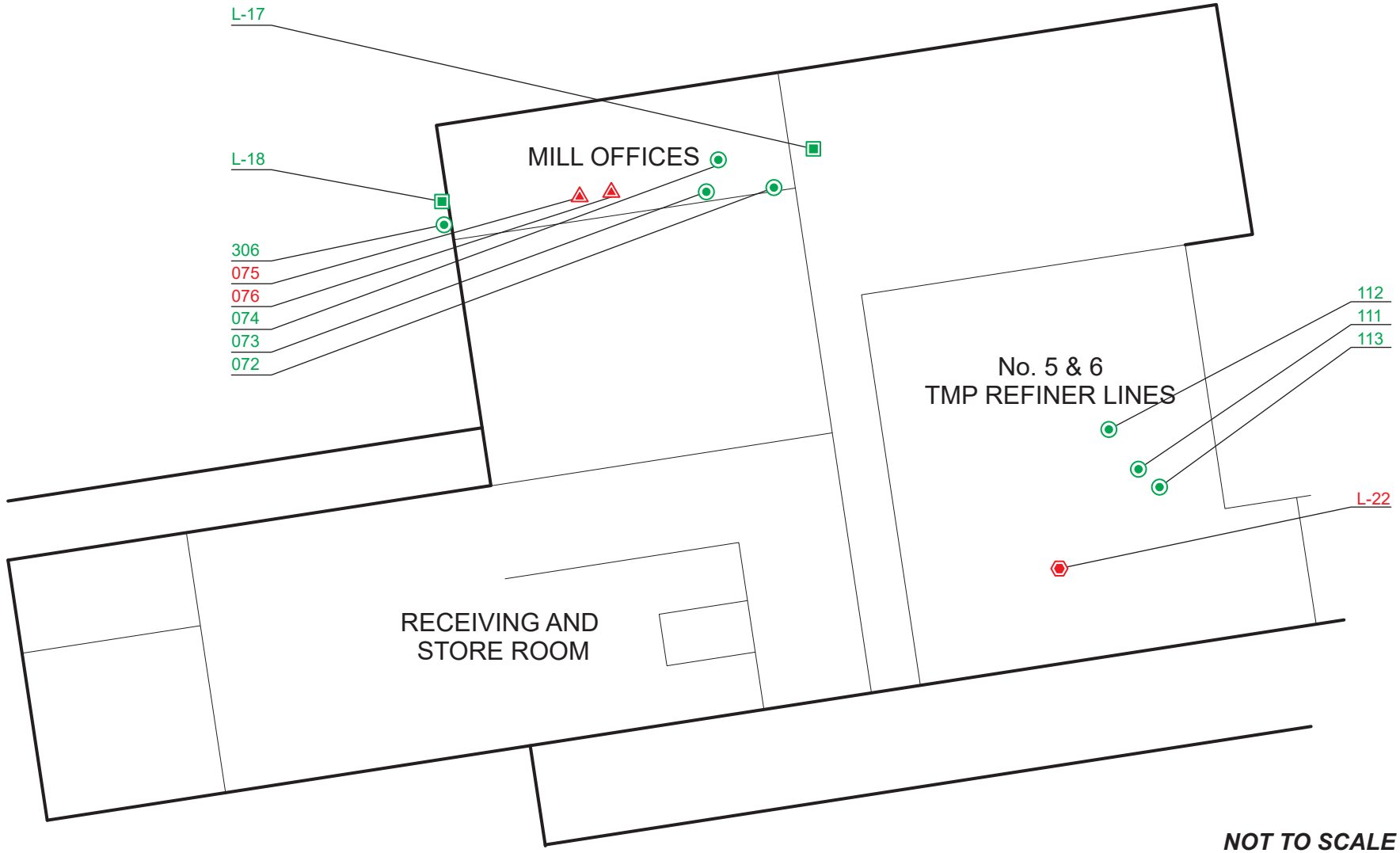
N

Sample Locations

Maintenance Shops, Weld Shop, Refining and Store Room,
No. 5 & 6 Refiner Lines - 1st Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		16



NOT TO SCALE

LEGEND:

- 072 — Negative Asbestos Sample Location
- 075 — Positive Asbestos Sample Location
- L-17 — Negative Lead Paint Sample Location
- L-22 — Positive Lead Paint Sample Location

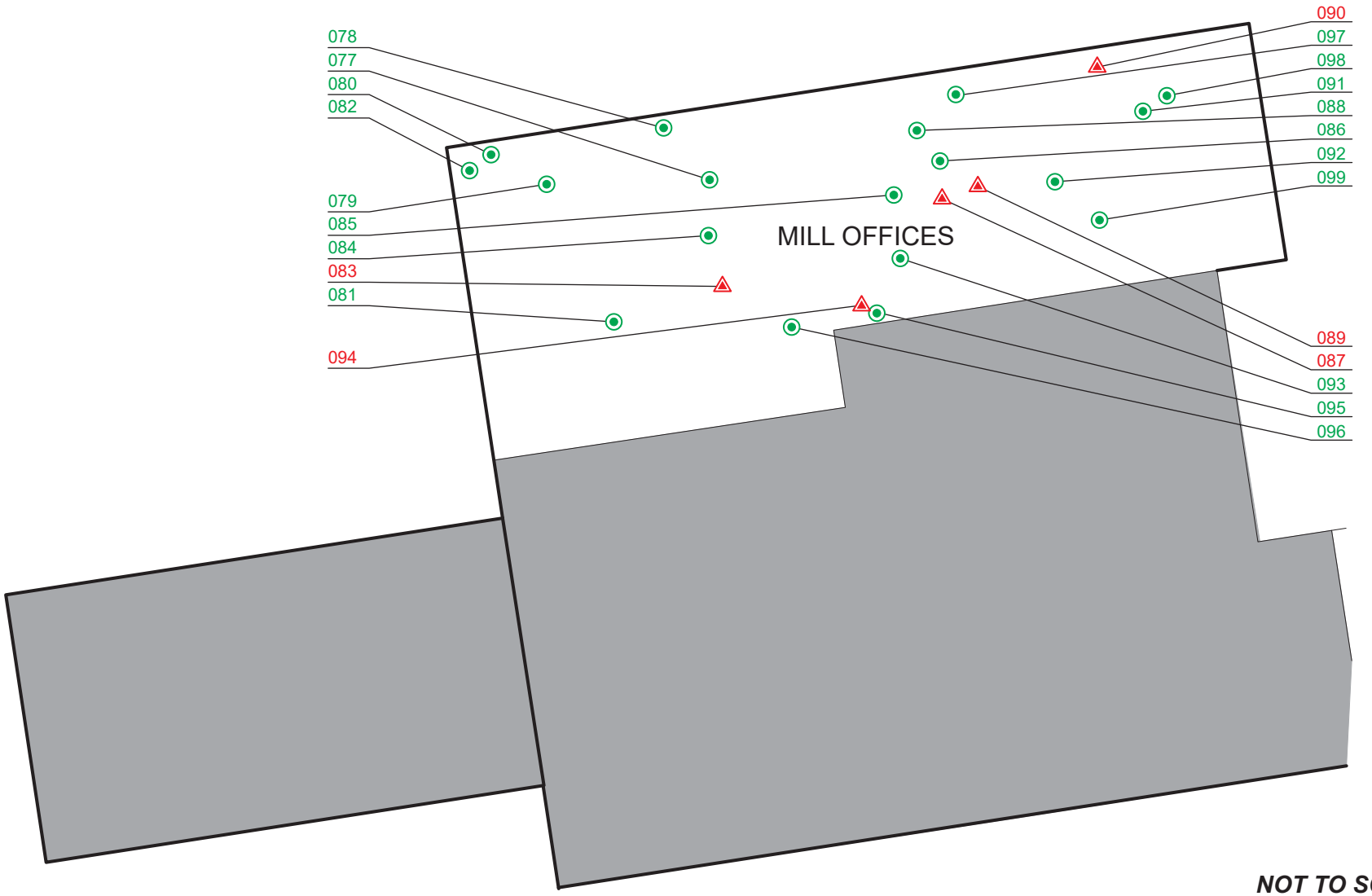
N

Sample Locations

Mill Offices, Receiving and Store Room, and No. 5 & 6 Refiner - 2nd Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		17



NOT TO SCALE

LEGEND:

079 ◉ Negative Asbestos Sample Location

083 ▲ Positive Asbestos Sample Location

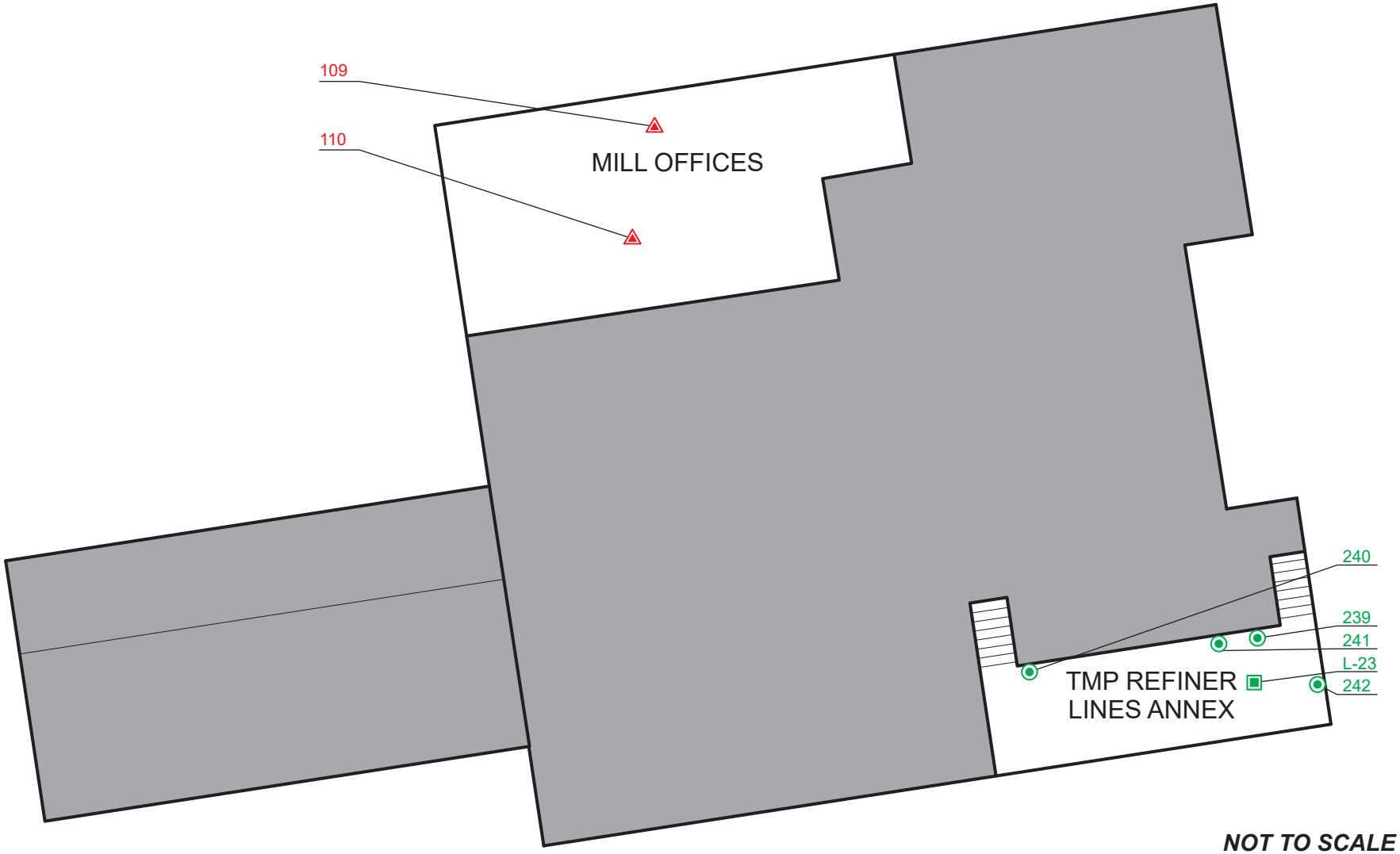
N

Sample Locations

Mill Offices - 3rd Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		18



NOT TO SCALE

LEGEND:

242 Negative Asbestos Sample Location

109 Positive Asbestos Sample Location

L-23 Negative Lead Paint Sample Location

N

Sample Locations

Mill Offices and TMP Refiner Lines Annex - 4th Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		19

NOT TO SCALE

LEGEND:

101 Negative Asbestos Sample Location

100 Positive Asbestos Sample Location

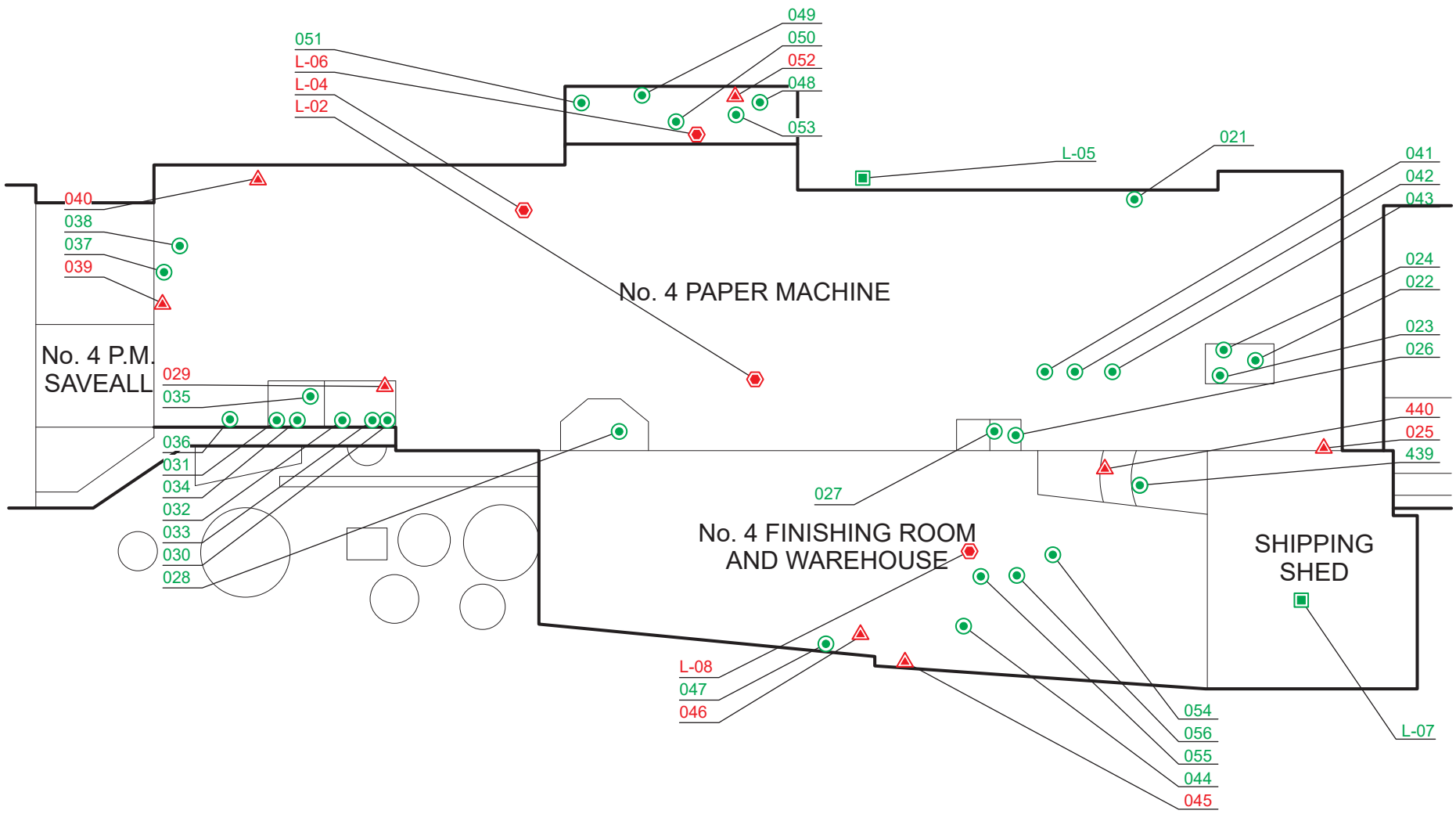
N

Sample Locations

Mill Offices and TMP Refiner Lines Annex - 5th Floor
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		20



NOT TO SCALE

LEGEND:

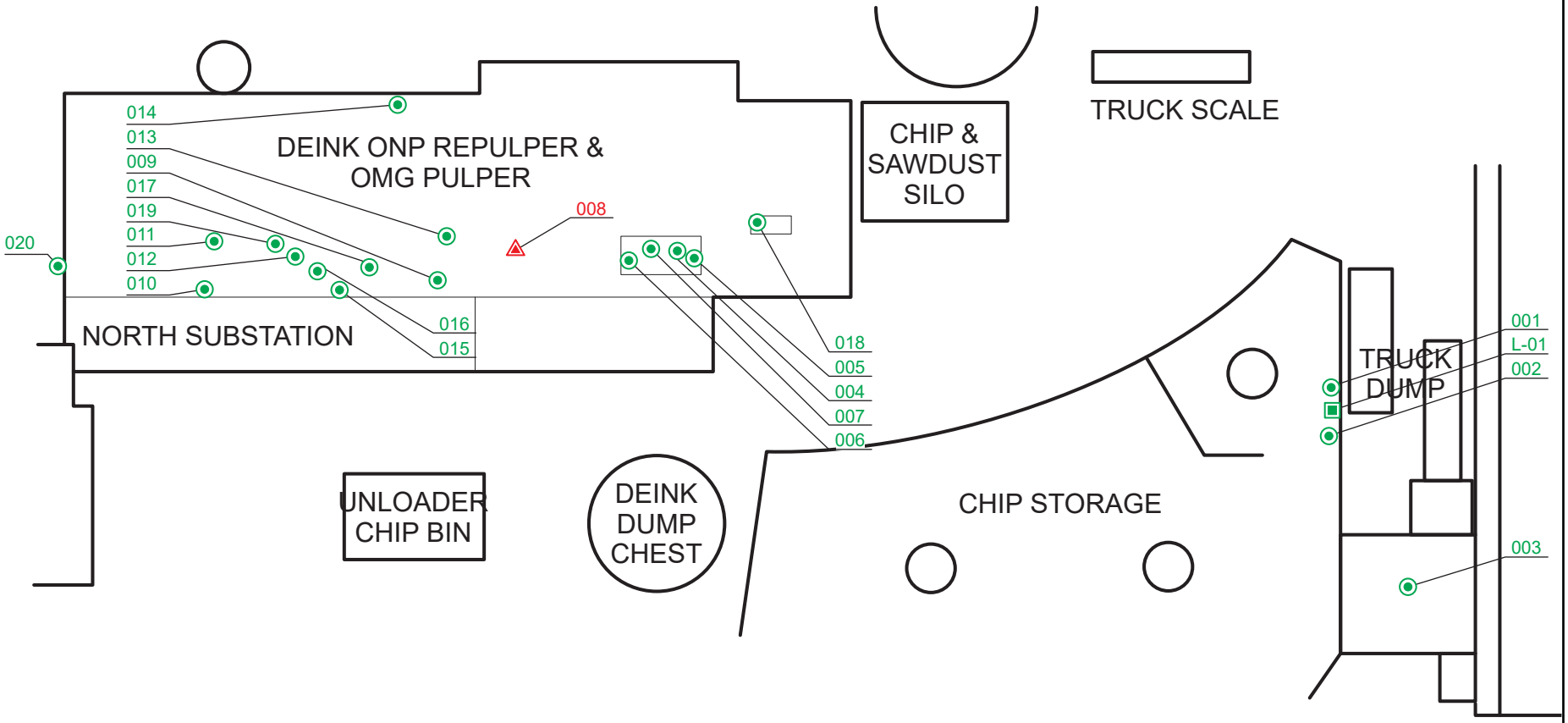
028 ◉	Negative Asbestos Sample Location
046 ▲	Positive Asbestos Sample Location
L-07 ▣	Negative Lead Paint Sample Location
L-08 ⬢	Positive Lead Paint Sample Location

Sample Locations

No. 4 Paper Machine, Finishing Room and Warehouse
Former Blue Heron Mill
Main Street
Oregon City, Oregon

APEX
Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		21



NOT TO SCALE

LEGEND:

010 ◉ Negative Asbestos Sample Location

008 ▲ Positive Asbestos Sample Location

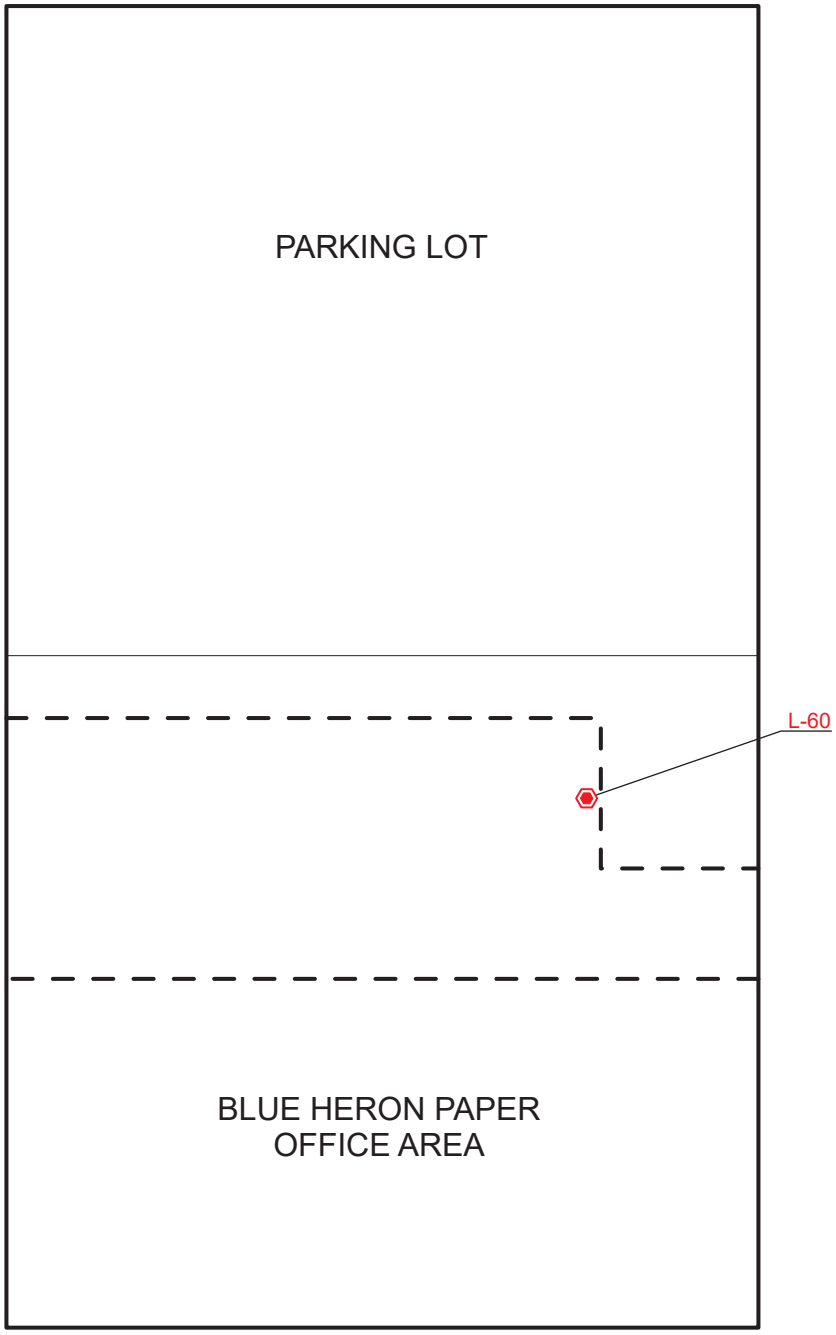
L-01 ▣ Negative Lead Paint Sample Location

N

Sample Locations

Chip Storage and Truck Dump
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	2449-00	Figure 22
	December 2018		



N

NOT TO SCALE

LEGEND:

L-60 Positive Lead Paint Sample Location

Sample Locations

North Parking Lot and Office Area
Former Blue Heron Mill
Main Street
Oregon City, Oregon

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

Project Number	2449-00	Figure
December 2018		23

APPENDIX A

ASBESTOS LABORATORY ANALYTICAL RESULTS, ASSOCIATED CHAIN-OF-CUSTODY DOCUMENTS & LABORATORY CERTIFICATIONS

EMSL Analytical, Inc.

3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134

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

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

EMSL Order:	511803160
Customer ID:	APXP25
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons Apex Companies, LLC 3015 SW First Ave Portland, OR 97201	**Phone:**	(503) 924-4704
		Fax:	
		Received Date:	10/19/2018 8:50 AM
		Analysis Date:	10/22/2018 - 10/25/2018
		Collected Date:	
Project:	2449-00.003		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
001 *511803160-0001*	Truck dump - south wall beam - Brown/gray wall mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
002 *511803160-0002*	Truck dump - south wall - Tan fire brick debris	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
003 *511803160-0003*	Truck dump - elect. Room - CAB	Gray Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
004 *511803160-0004*	Deink ONP Repulper; 2nd floor; control room - 4'x2' D&F Drop ceiling panel	White/Beige Fibrous Homogeneous	75% Cellulose	10% Perlite 15% Non-fibrous (Other)	None Detected
005-Drywall *511803160-0005*	Deink ONP Repulper; 2nd floor; control room - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose 3% Glass	70% Gypsum 17% Non-fibrous (Other)	None Detected
005-Joint Compound *511803160-0005A*	Deink ONP Repulper; 2nd floor; control room - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
006-Cove Base *511803160-0006*	Deink ONP Repulper; 2nd floor; control room - 4" Gray cove with cream mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
006-Mastic *511803160-0006A*	Deink ONP Repulper; 2nd floor; control room - 4" Gray cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
007-Insulation *511803160-0007*	Deink ONP Repulper; 2nd floor; control room - Pink insulation with paper & foil backing	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
007-Backing *511803160-0007A*	Deink ONP Repulper; 2nd floor; control room - Pink insulation with paper & foil backing	Tan/Silver Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected
008 *511803160-0008*	Deink ONP Repulper; roof - Roofing (asphaltic)	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
009 *511803160-0009*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray/Tan/White Non-Fibrous Homogeneous	5% Cellulose	20% Quartz 75% Non-fibrous (Other)	None Detected

Inseparable paint / coating layer included in analysis

HA: 1

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
010 *511803160-0010* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray/White Non-Fibrous Homogeneous	5% Cellulose HA: 1	25% Quartz 70% Non-fibrous (Other)	None Detected
011 *511803160-0011*	Deink ONP Repulper; 3rd story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	4% Cellulose HA: 1	20% Quartz 76% Non-fibrous (Other)	None Detected
012 *511803160-0012*	Deink ONP Repulper; 4th story - Skim coating over concrete	Gray/Green Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
013 *511803160-0013*	Deink ONP Repulper; 4th story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	HA: 1	20% Quartz <1% Mica 80% Non-fibrous (Other)	None Detected
014 *511803160-0014* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 1st story - Skim coating over concrete	Gray Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
015 *511803160-0015* *Inseparable paint / coating layer included in analysis*	Deink ONP Repulper; 1st floor - Skim coating over concrete	Gray/Blue Non-Fibrous Homogeneous	HA: 1	20% Quartz 80% Non-fibrous (Other)	None Detected
016 *511803160-0016*	Deink ONP Repulper; 4th floor - Brown fiber debris	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
017 *511803160-0017*	Deink ONP Repulper; 4th floor - Gasket in debris	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
018 *511803160-0018*	Deink ONP Repulper; 1st floor - Asphalt roofing	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
019 *511803160-0019*	Deink ONP Repulper; 1st floor - White wall mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
020 *511803160-0020*	Deink ONP Repulper; exterior - south - Grout - associated with glass blocks	Gray Non-Fibrous Homogeneous	3% Cellulose	20% Quartz <1% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
021 *511803160-0021*	Paper machine #4; basement - Tan mastic dots	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022-Floor Tile *511803160-0022*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022-Mastic *511803160-0022A*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
022-Leveler *511803160-0022B*	Paper machine #4; 1st floor; north control room - 12"x12" Blue VFT with yellow mastic & white leveling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
023 *511803160-0023*	Paper machine #4; 1st floor; north control room - 4" Tan cove with tan mastic	Gray/White Non-Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
024-Cove Base *511803160-0024*	Paper machine #4; 1st floor; north control room - 12"x12" White ceiling tiles with mastic dots	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
024-Mastic *511803160-0024A*	Paper machine #4; 1st floor; north control room - 12"x12" White ceiling tiles with mastic dots	White Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
025 *511803160-0025*	Paper machine #4; 1st floor; east exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
026-Vinyl Sheet Flooring *511803160-0026*	Paper machine #4; 1st floor; men's restroom - Tan sheet vinyl with mastic	Gray/Tan Fibrous Heterogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
026-Mastic *511803160-0026A*	Paper machine #4; 1st floor; men's restroom - Tan sheet vinyl with mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
027-Paneling *511803160-0027*	Paper machine #4; 1st floor; men's restroom - White FRP with tan mastic	White Fibrous Homogeneous	45% Glass	55% Non-fibrous (Other)	None Detected
027-Mastic *511803160-0027A*	Paper machine #4; 1st floor; men's restroom - White FRP with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
028-Floor Tile *511803160-0028*	Paper machine #4; 1st floor; south control room - 12"x12" Gray vinyl floor tile with mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
028-Mastic *511803160-0028A*	Paper machine #4; 1st floor; south control room - 12"x12" Gray vinyl floor tile with mastic	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
029-Vinyl Sheet Flooring *511803160-0029*	Paper machine #4; 1st floor; computer room - Yellow pebble patterned sheet vinyl	Gray Fibrous Heterogeneous		75% Non-fibrous (Other)	25% Chrysotile
029-Mastic *511803160-0029A*	Paper machine #4; 1st floor; computer room - Yellow pebble patterned sheet vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/25/2018 18:40:37

EMSL Analytical, Inc.
3317 3rd Ave S, Suite D 2nd floor Seattle, WA 98134
Tel/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com / seattlelab@emsl.com

EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
030-Cove Base *511803160-0030*	Paper machine #4; 1st floor; computer room - 4" Brown cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
030-Mastic *511803160-0030A*	Paper machine #4; 1st floor; computer room - 4" Brown cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
031-Texture *511803160-0031*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
031-Texture *511803160-0031A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
031-Concrete *511803160-0031B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	20% Quartz 80% Non-fibrous (Other)	None Detected
032-Texture *511803160-0032*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
032-Texture *511803160-0032A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
032-Concrete *511803160-0032B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	15% Quartz 85% Non-fibrous (Other)	None Detected
033-Texture *511803160-0033*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
033-Texture *511803160-0033A*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
033-Concrete *511803160-0033B*	Paper machine #4; 1st floor; computer room - Wall texture over speckled texture over CMU block	Gray Non-Fibrous Homogeneous	HA: 2	20% Quartz 80% Non-fibrous (Other)	None Detected
034-Concrete *511803160-0034*	Paper machine #4; 1st floor; computer room - CMU block grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
034-Plaster *511803160-0034A*	Paper machine #4; 1st floor; computer room - CMU block grout	Gray/White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
035 *511803160-0035*	Paper machine #4; 1st floor; computer room - 12"x12" White ceiling tiles with mastic	Tan/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
036-Tile *511803160-0036*	Paper machine #4; 1st floor; hatch - Terracotta tile with white grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
036-Grout *511803160-0036A*	Paper machine #4; 1st floor; hatch - Terracotta tile with white grout	Black Non-Fibrous Homogeneous	3% Cellulose	25% Quartz 72% Non-fibrous (Other)	None Detected
037-Cove Base *511803160-0037*	Paper machine #4; 1st floor; women's restroom - 4" Gray cove with mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
037-Mastic *511803160-0037A*	Paper machine #4; 1st floor; women's restroom - 4" Gray cove with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
038-Paneling *511803160-0038*	Paper machine #4; 1st floor; women's restroom - Tan wall panel	Tan/White Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
038-Mastic *511803160-0038A*	Paper machine #4; 1st floor; women's restroom - Tan wall panel	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
039 *511803160-0039*	Paper machine #4; 1st floor; women's restroom - White sink undercoating	Gray Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
040 *511803160-0040*	Paper machine #4; 1st floor; exterior - Window glazing	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
041 *511803160-0041*	Paper machine #4; 2nd floor; restroom - Sink undercoating	White Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
042-Counter Top *511803160-0042*	Paper machine #4; 2nd floor; restroom - Blue laminate countertop	Brown/Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
042-Mastic *511803160-0042A*	Paper machine #4; 2nd floor; restroom - Blue laminate countertop	Tan Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
043 *511803160-0043*	#4 Finishing; 2nd floor; bathroom - 4'x2' Ceiling panel	Gray/White Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
044 *511803160-0044*	#4 Finishing; 4th floor - Carpet over fabric flooring	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
045-Floor Tile *511803160-0045*	#4 Finishing; 4th floor - 9"x9" Green VFT with yellow mastic	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
045-Mastic *511803160-0045A*	#4 Finishing; 4th floor - 9"x9" Green VFT with yellow mastic	Beige Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
046-Floor Tile *511803160-0046*	#4 Finishing; 4th floor - 12"x12" Green VFT with yellow mastic	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
046-Mastic *511803160-0046A*	#4 Finishing; 4th floor - 12"x12" Green VFT with yellow mastic	Beige Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
047-Cove Base *511803160-0047*	#4 Finishing; 4th floor - 2" Brown cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
047-Mastic *511803160-0047A*	#4 Finishing; 4th floor - 2" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Rubber Membrane *511803160-0048*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Foam *511803160-0048A*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
048-Vinyl Sheet Flooring *511803160-0048B*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	Brown/Gray Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
048-Mastic *511803160-0048C*	Paper machine #4; 2nd floor; NW exterior lab - Black rubber with mastic & foam over sheet vinyl with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
049-Cove Base *511803160-0049*	Paper machine #4; 2nd floor; NW exterior lab - 6" Brown coe with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
049-Mastic *511803160-0049A*	Paper machine #4; 2nd floor; NW exterior lab - 6" Brown coe with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
050 *511803160-0050*	Paper machine #4; 2nd floor; NW exterior lab - Black fiber insulation with black felt	Black Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (Other)	None Detected
051-Drywall *511803160-0051*	Paper machine #4; 2nd floor; NW exterior lab - Drywall with joint compound	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
051-Joint Compound *511803160-0051A*	Paper machine #4; 2nd floor; NW exterior lab - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
052-Roofing (Top) *511803160-0052*	Paper machine #4; roof - Built-up roofing material	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
052-Built Up Roofing *511803160-0052A*	Paper machine #4; roof - Built-up roofing material	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
052-Rubber Membrane *511803160-0052B*	Paper machine #4; roof - Built-up roofing material	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
053 *511803160-0053* *Inseparable paint / coating layer included in analysis*	Paper machine #4; roof - Tan roofing caulk with silver paint	Tan/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
054 *511803160-0054*	#4 Finishing; 1st floor; office - 2x2 Patterned 4'x4' drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	5% Perlite 15% Non-fibrous (Other)	None Detected
055-Vinyl Sheet Flooring *511803160-0055*	#4 Finishing; 1st floor; office - Tan sheet vinyl floor with tan mastic	Gray/Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
055-Mastic *511803160-0055A*	#4 Finishing; 1st floor; office - Tan sheet vinyl floor with tan mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
056-Insulation *511803160-0056*	#4 Finishing; 1st floor; office - Insulation with paper backing	Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
056-Backing *511803160-0056A*	#4 Finishing; 1st floor; office - Insulation with paper backing	Tan/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
057 *511803160-0057*	Dig - exterior (east) - Felt cloth	Gray Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
058-Tile *511803160-0058*	Former tank east of dig - Terrcotta tile with white grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
058-Grout *511803160-0058A*	Former tank east of dig - Terrcotta tile with white grout	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
059 *511803160-0059*	Sulphite plant; east exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
060 *511803160-0060*	Sulphite plant; sphere tank - Silver paint	Brown/Red/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
061-Vinyl Sheet Flooring *511803160-0061*	Weld shop office - Tan sheet vinyl flooring with cream mastic	Tan Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
061-Mastic *511803160-0061A*	Weld shop office - Tan sheet vinyl flooring with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
062-Drywall *511803160-0062*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 3	70% Gypsum 20% Non-fibrous (Other)	None Detected
062-Texture *511803160-0062A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	White Non-Fibrous Homogeneous	HA: 3	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
063-Drywall *511803160-0063*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 3	65% Gypsum 20% Non-fibrous (Other)	None Detected
063-Texture *511803160-0063A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	Gray/White Non-Fibrous Homogeneous	HA: 3	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
064-Drywall *511803160-0064*	Weld shop office - Drywall with wall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 3	70% Gypsum 15% Non-fibrous (Other)	None Detected
064-Texture *511803160-0064A* *Inseparable paint / coating layer included in analysis*	Weld shop office - Drywall with wall texture	Gray/White Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
065-Drywall *511803160-0065*	Weld shop office - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose	70% Gypsum 20% Non-fibrous (Other)	None Detected
065-Joint Compound *511803160-0065A*	Weld shop office - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
066-Insulation *511803160-0066*	Receiving & store room - Insulation with paper	Gray Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
066-Wrap *511803160-0066A*	Receiving & store room - Insulation with paper	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
067-Floor Tile *511803160-0067*	Receiving & store room office - 12"x12" tan VFT with orange mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
067-Mastic *511803160-0067A*	Receiving & store room office - 12"x12" tan VFT with orange mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
068-Cove Base *511803160-0068*	Receiving & store room office - 4" Gray cove base	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
068-Mastic *511803160-0068A*	Receiving & store room office - 4" Gray cove base	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
069-Ceiling Tile *511803160-0069*	Receiving & store room office - 12"x12" White dot ceiling tile with tan dots	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
069-Mastic *511803160-0069A*	Receiving & store room office - 12"x12" White dot ceiling tile with tan dots	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
070-Concrete *511803160-0070*	Receiving & store room - CMU block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
070-Grout *511803160-0070A*	Receiving & store room - CMU block grout	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
071 *511803160-0071*	Maintenance shop - Ceiling fireproofing debris	Various Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
072-Floor Tile *511803160-0072*	Mill offices; 2nd floor - 12"x12" Blue & white VFT with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
072-Mastic *511803160-0072A*	Mill offices; 2nd floor - 12"x12" Blue & white VFT with tan mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
073-Cove Base *511803160-0073*	Mill offices; 2nd floor - 4" Gray cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
073-Mastic *511803160-0073A*	Mill offices; 2nd floor - 4" Gray cove with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
074 *511803160-0074*	Mill offices; 2nd floor - 4'x2' D&F Ceiling panel	White/Beige Fibrous Homogeneous	75% Cellulose	10% Perlite 15% Non-fibrous (Other)	None Detected
075-Floor Tile *511803160-0075*	Mill offices; 2nd floor - 12"x12" Gray VFT with mastic & black backing	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
075-Mastic *511803160-0075A*	Mill offices; 2nd floor - 12"x12" Gray VFT with mastic & black backing	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
076-Cove Base *511803160-0076*	Mill offices; 2nd floor - 4" Black cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
076-Mastic *511803160-0076A*	Mill offices; 2nd floor - 4" Black cove with brown mastic	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
077-Cove Base *511803160-0077*	Mill offices; 3rd floor - 4" Tan cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
077-Mastic *511803160-0077A*	Mill offices; 3rd floor - 4" Tan cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
078-Cove Base *511803160-0078*	Mill offices; 3rd floor - 4" Gray cove with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
078-Mastic *511803160-0078A*	Mill offices; 3rd floor - 4" Gray cove with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
079-Floor Tile *511803160-0079*	Mill offices; 3rd floor - 12"x12" Blue VFT with yellow mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
079-Mastic *511803160-0079A*	Mill offices; 3rd floor - 12"x12" Blue VFT with yellow mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
080-Carpet *511803160-0080*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Various Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
080-Mastic *511803160-0080A*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
080-Leveler *511803160-0080B*	Mill offices; 3rd floor - Blue carpet with cream mastic & gray leveler	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
081-Drywall *511803160-0081*	Mill offices; 3rd floor - Drywall with joint compound	Brown Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
081-Joint Compound *511803160-0081A*	Mill offices; 3rd floor - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
082 *511803160-0082*	Mill offices; 3rd floor - 4'x2' D&F Drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
083 *511803160-0083*	Mill offices; men's restroom - White cementitious wall panel with brown mastic	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
084-Cove Base *511803160-0084*	Mill offices; men's restroom - 4" Black cove with cream mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
084-Mastic *511803160-0084A*	Mill offices; men's restroom - 4" Black cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
085-Cove Base *511803160-0085*	Mill offices; 3rd floor - 4" Brown cove with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
085-Mastic *511803160-0085A*	Mill offices; 3rd floor - 4" Brown cove with brown mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
086-Cove Base *511803160-0086*	Mill offices; 3rd floor - 4" Light gray cove with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
086-Mastic *511803160-0086A*	Mill offices; 3rd floor - 4" Light gray cove with tan mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
087 *511803160-0087*	Mill offices; 3rd floor - 12"x12" Dot ceiling tile with black mastic dots	Brown/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	<1% Chrysotile
088-Coating *511803160-0088*	Mill offices; 3rd floor - 4'x2' Ceiling panel yellow with white layer	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
088-Ceiling Tile *511803160-0088A*	Mill offices; 3rd floor - 4'x2' Ceiling panel yellow with white layer	Yellow Non-Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
089-Floor Tile *511803160-0089*	Mill offices; 3rd floor; western offices - 12"x12" Brown VFT with black mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
089-Mastic *511803160-0089A*	Mill offices; 3rd floor; western offices - 12"x12" Brown VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
090-Carpet *511803160-0090*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Gray Fibrous Heterogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
090-Mastic *511803160-0090A*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
090-Floor Tile *511803160-0090B*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
090-Mastic *511803160-0090C*	Mill offices; 3rd floor; north offices - Gray carpet with cream mastic over tan VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
091-Carpet *511803160-0091*	Mill offices; 3rd floor; north offices - Dark gray carpet with cream mastic	Various Fibrous Heterogeneous	85% Synthetic	15% Non-fibrous (Other)	None Detected
091-Mastic *511803160-0091A*	Mill offices; 3rd floor; north offices - Dark gray carpet with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
092-Floor Tile *511803160-0092*	Mill offices; 3rd floor; eastern offices - 12"x12" Tan VFT with black mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 511803160
Customer ID: APXP25
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
092-Mastic *511803160-0092A*	Mill offices; 3rd floor; eastern offices - 12"x12" Tan VFT with black mastic	Black Non-Fibrous Homogeneous	6% Synthetic	94% Non-fibrous (Other)	None Detected
093-Flooring *511803160-0093*	Mill offices; 3rd floor; break room - Red epoxy flooring with cream mastic	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
093-Mastic *511803160-0093A*	Mill offices; 3rd floor; break room - Red epoxy flooring with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
094-Ceramic Tile *511803160-0094*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
094-Grout *511803160-0094A*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
094-Leveler *511803160-0094B*	Mill offices; 3rd floor; locker room - 2"x2" Tan ceramic tile with gray grout & leveling	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
095-Ceramic Tile *511803160-0095*	Mill offices; 3rd floor; locker room - White ceramic cove base	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
095-Mortar *511803160-0095A*	Mill offices; 3rd floor; locker room - White ceramic cove base	White Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
096-Flooring *511803160-0096*	Mill offices; 3rd floor; store room - Green epoxy flooring with cream mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
096-Mastic *511803160-0096A*	Mill offices; 3rd floor; store room - Green epoxy flooring with cream mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
097-Drywall *511803160-0097*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	75% Gypsum 15% Non-fibrous (Other)	None Detected
097-Texture *511803160-0097A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
098-Drywall *511803160-0098*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	70% Gypsum 20% Non-fibrous (Other)	None Detected
098-Texture *511803160-0098A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected

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099-Drywall *511803160-0099*	Mill offices; 3rd floor - Wall texture associated with office drywall	Brown/White Fibrous Heterogeneous	10% Cellulose HA: 4	65% Gypsum 25% Non-fibrous (Other)	None Detected
099-Texture *511803160-0099A*	Mill offices; 3rd floor - Wall texture associated with office drywall	White Non-Fibrous Homogeneous	HA: 4	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
100 *511803160-0100*	Mill offices; 5th floor; roof - Built-up roofing	Black Fibrous Heterogeneous	25% Cellulose 15% Glass	50% Non-fibrous (Other)	10% Chrysotile
101-Vinyl Sheet Flooring *511803160-0101*	Mill offices; 5th floor - Textured vinyl sheet flooring with cream mastic	Gray Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
101-Mastic *511803160-0101A*	Mill offices; 5th floor - Textured vinyl sheet flooring with cream mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
102-Drywall *511803160-0102*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
102-Texture *511803160-0102A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
103-Drywall *511803160-0103*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
103-Texture *511803160-0103A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
104-Drywall *511803160-0104*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected
104-Texture *511803160-0104A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
105-Drywall *511803160-0105*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	20% Cellulose HA: 5	65% Gypsum 15% Non-fibrous (Other)	None Detected
105-Texture *511803160-0105A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
106-Drywall *511803160-0106*	Mill offices; 5th floor - Orange peel drywall texture	Brown/White Fibrous Heterogeneous	15% Cellulose HA: 5	70% Gypsum 15% Non-fibrous (Other)	None Detected

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106-Texture *511803160-0106A*	Mill offices; 5th floor - Orange peel drywall texture	White Non-Fibrous Homogeneous	HA: 5	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
107-Paneling *511803160-0107*	Mill offices; 5th floor; restroom - White FRP with mastic	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
107-Mastic *511803160-0107A*	Mill offices; 5th floor; restroom - White FRP with mastic	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
108-Laminate *511803160-0108*	Mill offices; 5th floor; break area - Laminate countertop	Brown/White Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
108-Mastic *511803160-0108A*	Mill offices; 5th floor; break area - Laminate countertop	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
109-Paneling *511803160-0109*	Mill offices; 4th floor - White wall panel with brown mastic	Brown/White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
109-Mastic *511803160-0109A*	Mill offices; 4th floor - White wall panel with brown mastic	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
110-Vinyl Sheet Flooring *511803160-0110*	Mill offices; 4th floor - Red sheet vinyl with cream mastic	Gray/Red Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
110-Mastic *511803160-0110A*	Mill offices; 4th floor - Red sheet vinyl with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111 *511803160-0111*	TMP refiner lines; 2nd story; control room - 12"x12" Gray VFT with tan mastic	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
112-Cove Base *511803160-0112*	TMP refiner lines; 2nd story; control room - 4" Gray cove with cream	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
112-Mastic *511803160-0112A*	TMP refiner lines; 2nd story; control room - 4" Gray cove with cream	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
113-Vinyl Floor Tile *511803160-0113*	TMP refiner lines; 2nd story; control room - Residual 12"x12" dark tan VFT with black mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
113-Mastic *511803160-0113A*	TMP refiner lines; 2nd story; control room - Residual 12"x12" dark tan VFT with black mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
114 *511803160-0114*	TMP refiner lines; exterior - east - Yellow & black sealant on ext. metal plates	Black/Yellow Non-Fibrous Homogeneous	2% Wollastonite	5% Quartz 93% Non-fibrous (Other)	None Detected
115 *511803160-0115*	TMP reject refining & screening - exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

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116 *511803160-0116*	TMP reject; 2nd floor - Black fibrous debris	Brown/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
117-Cove Base *511803160-0117*	TMP area; 1st floor; control room - 4" Gray cove with brown mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
117-Mastic *511803160-0117A*	TMP area; 1st floor; control room - 4" Gray cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
118-Cove Base *511803160-0118*	TMP area; 1st floor; control room - 4" Blue cove with brown mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
118-Mastic *511803160-0118A*	TMP area; 1st floor; control room - 4" Blue cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
119 *511803160-0119*	TMP area; 1st floor; control room - 4'x2' D&F Drop ceiling panels	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
120 *511803160-0120*	TMP area; 1st floor; control room - Gray floor leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
121-Laminate *511803160-0121*	TMP lab; 1st floor - Gray laminate countertop	Brown/Gray Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
121-Mastic *511803160-0121A*	TMP lab; 1st floor - Gray laminate countertop	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
122-Drywall *511803160-0122*	TMP lab; 1st floor - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
122-Joint Compound *511803160-0122A*	TMP lab; 1st floor - Drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
123 *511803160-0123*	Paper machine #1; 1st floor; tank pit - Terracotta tile	Tan/Beige Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
124-Mastic *511803160-0124*	Paper machine #1; 1st floor; ext of N. control room - Gray wall mastic	Blue/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
124-Concrete *511803160-0124A*	Paper machine #1; 1st floor; ext of N. control room - Gray wall mastic	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
125-Ceiling Tile *511803160-0125*	Paper machine #1; 1st floor; ext of N. control room - 12"x12" White dot ceiling tile with brown mastic dots	Tan Fibrous Homogeneous	70% Cellulose	5% Perlite 25% Non-fibrous (Other)	None Detected

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125-Mastic *511803160-0125A*	Paper machine #1; 1st floor; ext of N. control room - 12"x12" White dot ceiling tile with brown mastic dots	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
126-Insulation *511803160-0126*	Paper machine #1; 1st floor; ext of N. control room - Yellow with white paper insulation	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
126-Wrap *511803160-0126A*	Paper machine #1; 1st floor; ext of N. control room - Yellow with white paper insulation	White/Silver Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material *Inseparable paint / coating layer included in analysis*					
127-Insulation *511803160-0127*	Paper machine #1; 1st floor; ext of northern control room - Pink ceiling insulation with brown paper	Pink Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
127-Paper *511803160-0127A*	Paper machine #1; 1st floor; ext of northern control room - Pink ceiling insulation with brown paper	Brown/Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
128-Carpet *511803160-0128*	Paper machine #1; 1st floor; "microwave" room - Gray carpet with tan mastic	Gray/Tan/Black Non-Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
128-Mastic *511803160-0128A*	Paper machine #1; 1st floor; "microwave" room - Gray carpet with tan mastic	Gray/Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
129 *511803160-0129*	Paper machine #2; exterior -south - Transite siding	Gray Non-Fibrous Homogeneous		83% Non-fibrous (Other)	17% Chrysotile
130-Cove Base *511803160-0130*	Paper machine #1; 1st floor; raised office - Black dot pattern VFT with white mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
130-Mastic *511803160-0130A*	Paper machine #1; 1st floor; raised office - Black dot pattern VFT with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Cove Base *511803160-0131*	Paper machine #1; 1st floor; raised office - 4" Black cove with white mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
131-Mastic *511803160-0131A*	Paper machine #1; 1st floor; raised office - 4" Black cove with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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132-FRP *511803160-0132*	Paper machine #1; 1st floor; raised office - White FRP with cream mastic	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
132-Mastic *511803160-0132A*	Paper machine #1; 1st floor; raised office - White FRP with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
133 *511803160-0133*	Paper machine #1; 1st floor; raised office - 4'x2' Dot drop ceiling panel	Gray Fibrous Homogeneous	45% Cellulose 25% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
134 *511803160-0134*	Paper machine #1; 1st floor - Skim coat over CMU	Gray/Green Non-Fibrous Homogeneous	5% Cellulose	15% Quartz 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis *Result includes a small amount of inseparable attached material*			HA: 6		
135 *511803160-0135*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
			HA: 6		
136-Coating *511803160-0136*	Paper machine #1; 1st floor - Skim coat over CMU	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis			HA: 6		
136-Skim Coat *511803160-0136A*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 6		
137 *511803160-0137*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous	3% Cellulose	10% Quartz 87% Non-fibrous (Other)	None Detected
			HA: 6		
138 *511803160-0138*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
			HA: 6		
139-Skim Coat *511803160-0139*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
			HA: 6		
139-Backing *511803160-0139A*	Paper machine #1; 1st floor - Skim coat over CMU	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
			HA: 6		
140 *511803160-0140*	Paper machine #1; 1st floor - Skim coat over CMU	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
			HA: 6		
141-Ceramic Tile *511803160-0141*	Paper machine #1; 1st floor; filtrative tank - Terracotta tile	Tan Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
141-Grout *511803160-0141A*	Paper machine #1; 1st floor; filtrative tank - Terracotta tile	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

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142-Carpet 1 *511803160-0142*	Paper machine #1; roof - Carpet over carpet	Brown/Tan Fibrous Homogeneous	25% Cellulose 60% Synthetic	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
142-Carpet 2 *511803160-0142A*	Paper machine #1; roof - Carpet over carpet	Brown Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
143 *511803160-0143*	Paper machine #1; roof - White exterior caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Built Up Roofing *511803160-0144*	Paper machine #1; roof - Built-up roofing	Tan/Black Fibrous Homogeneous	60% Synthetic	3% Quartz 37% Non-fibrous (Other)	None Detected
144-Tar *511803160-0144A*	Paper machine #1; roof - Built-up roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
144-Insulation *511803160-0144B*	Paper machine #1; roof - Built-up roofing	Tan Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
145-Vinyl Floor Tile *511803160-0145*	Sulphite plant; 3rd story; restroom - 9"x9" Green VFT with black mastic	Green Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
145-Mastic *511803160-0145A*	Sulphite plant; 3rd story; restroom - 9"x9" Green VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
146 *511803160-0146*	Sulphite plant; 3rd story; restroom - Brown mastic on wall from remove cove	Brown Non-Fibrous Homogeneous	8% Fibrous (Other)	92% Non-fibrous (Other)	None Detected
147-CMU *511803160-0147*	Sulphite plant; 3rd story; restroom - CMU block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
147-Grout *511803160-0147A*	Sulphite plant; 3rd story; restroom - CMU block grout	Gray Non-Fibrous Homogeneous		15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
148 *511803160-0148*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
149 *511803160-0149*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
150 *511803160-0150*	Sulphite plant; 3rd story; restroom - Skim coat over CMU blocks	Gray Non-Fibrous Homogeneous	HA: 7	15% Quartz 2% Micaceous Flakes 83% Non-fibrous (Other)	None Detected
151 *511803160-0151*	Sulphite plant; 4th floor - CAB	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
152-Wall Panel *511803160-0152*	Sulphite plant; 4th floor - Fiber wall panel	Gray Non-Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile

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152-Mastic *511803160-0152A*	Sulphite plant; 4th floor - Fiber wall panel	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
153-C.A.B. *511803160-0153* *Result includes a small amount of inseparable attached material*	Sulphite plant; 4th floor - CAB Panel with black mastic	Gray/Tan Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
153-Mastic *511803160-0153A*	Sulphite plant; 4th floor - CAB Panel with black mastic	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
154 *511803160-0154*	Sulphite plant; stairs 4th story to roof - Asphaltic stair tread	Brown/Gray/Black Fibrous Homogeneous	30% Cellulose 15% Glass	5% Quartz 10% Non-fibrous (Other)	40% Chrysotile
155-Silver Paint *511803160-0155*	Sulphite plant; roof - Built-up silver roofing	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
155-Built Up Roofing *511803160-0155A*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	25% Cellulose	20% Non-fibrous (Other)	55% Chrysotile
155-Built Up Roofing *511803160-0155B*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	65% Glass	35% Non-fibrous (Other)	None Detected
155-Built Up Roofing *511803160-0155C*	Sulphite plant; roof - Built-up silver roofing	Brown/Black Fibrous Homogeneous	20% Cellulose	20% Non-fibrous (Other)	60% Chrysotile
155-Tar Felt *511803160-0155D*	Sulphite plant; roof - Built-up silver roofing	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
155-Tar *511803160-0155E*	Sulphite plant; roof - Built-up silver roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
155-Insulation *511803160-0155F*	Sulphite plant; roof - Built-up silver roofing	Yellow Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
156-Concrete *511803160-0156*	TMP Hi-D tank - Concrete block with gray grout	White Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
156-Grout *511803160-0156A*	TMP Hi-D tank - Concrete block with gray grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
157 *511803160-0157*	Recovery boiler; basement; men's locker room - Gray sealant on HVAC duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
158-FRP *511803160-0158*	Recovery boiler; basement; men's locker room - FRP with cream mastic	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
158-Mastic *511803160-0158A*	Recovery boiler; basement; men's locker room - FRP with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
159-Laminate *511803160-0159*	Recovery boiler; basement; men's locker room - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
159-Mastic *511803160-0159A*	Recovery boiler; basement; men's locker room - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
160-Insulation *511803160-0160*	Boiler plant; basement; adj. to sodium hydrosulfide - Yellow fiber insulation with black "John-Manville" paper	Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
160-Paper *511803160-0160A*	Boiler plant; basement; adj. to sodium hydrosulfide - Yellow fiber insulation with black "John-Manville" paper	Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
161 *511803160-0161*	Boiler plant; basement; adj. to sodium hydrosulfide - Black asphaltic felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
162-Ceiling Tile *511803160-0162*	Pipe shop; 1st floor - 12"x12" White D&F ceiling tiles with tan mastic dots	Gray Fibrous Homogeneous	30% Cellulose 45% Min. Wool	25% Non-fibrous (Other)	None Detected
162-Mastic *511803160-0162A*	Pipe shop; 1st floor - 12"x12" White D&F ceiling tiles with tan mastic dots	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
163-Laminate *511803160-0163*	Pipe shop; 1st floor - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
163-Mastic *511803160-0163A*	Pipe shop; 1st floor - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
164-CMU *511803160-0164*	Pipe shop; 1st floor - CMU Block grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
164-Grout *511803160-0164A*	Pipe shop; 1st floor - CMU Block grout	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
165 *511803160-0165*	Pipe shop; 2nd floor - White sink undercoating	Brown/White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
166-Ceramic Tile *511803160-0166*	Environmental lab; western exterior - Ceramic elect. insulator	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
166-Mastic *511803160-0166A*	Environmental lab; western exterior - Ceramic elect. insulator	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
167-Vinyl Floor Tile *511803160-0167*	Mill 0 conference room; nurse's office - 12"x12" Cream VFT with brown mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
167-Mastic *511803160-0167A*	Mill 0 conference room; nurse's office - 12"x12" Cream VFT with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Cove Base *511803160-0168*	Mill 0 conference room; nurse's office - 4" Brown cove base with white mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
168-Mastic *511803160-0168A*	Mill 0 conference room; nurse's office - 4" Brown cove base with white mastic	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
169 *511803160-0169*	Mill 0 conference room; 1st floor - Wood wall panel with adhesive	Gray/Tan Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
170-Laminate *511803160-0170*	Mill 0 conference room; 1st floor - White laminate countertop	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
170-Mastic *511803160-0170A*	Mill 0 conference room; 1st floor - White laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
171 *511803160-0171*	Mill 0 conference room; 1st floor - 4'x2' D&F Drop ceiling panel	Gray Fibrous Homogeneous	45% Cellulose 30% Min. Wool	10% Perlite 15% Non-fibrous (Other)	None Detected
172-Vinyl Floor Tile *511803160-0172*	Environmental lab; 1st floor - 9"x9" Green VFT with black mastic	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
172-Mastic *511803160-0172A*	Environmental lab; 1st floor - 9"x9" Green VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
173-Vinyl Floor Tile *511803160-0173*	Environmental lab; 1st floor - 9"x9" Brown VFT with black mastic	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
173-Mastic *511803160-0173A*	Environmental lab; 1st floor - 9"x9" Brown VFT with black mastic	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
174 *511803160-0174*	Environmental lab; 1st floor - 4'x2' Dot drop ceiling panel	Gray Fibrous Homogeneous	25% Cellulose 45% Min. Wool	27% Non-fibrous (Other)	3% Chrysotile
175-Ceiling Tile *511803160-0175*	Environmental lab; 1st floor - 12"x12" White dot ceiling tiles with gray mastic dots	Gray/White Fibrous Homogeneous	45% Cellulose 50% Min. Wool	5% Non-fibrous (Other)	None Detected
175-Mastic *511803160-0175A*	Environmental lab; 1st floor - 12"x12" White dot ceiling tiles with gray mastic dots	Brown Non-Fibrous Homogeneous	5% Fibrous (Other)	95% Non-fibrous (Other)	None Detected
176 *511803160-0176*	Environmental lab; 1st floor - Black sink undercoating	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
177-Cove Base *511803160-0177*	Environmental lab; 1st floor - 4" Black cove base with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
177-Mastic *511803160-0177A*	Environmental lab; 1st floor - 4" Black cove base with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
178-Wall Panel *511803160-0178*	Environmental lab; 1st floor - Blue plastic wall panel with brown mastic	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
178-Mastic *511803160-0178A*	Environmental lab; 1st floor - Blue plastic wall panel with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
179 *511803160-0179*	Environmental lab; 1st floor - Black countertop	Black Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
180-Vinyl Sheet Flooring *511803160-0180*	Raw material storage; 2nd story - Green sheet vinyl with mastic	Tan/Green Fibrous Homogeneous	10% Cellulose 20% Glass	70% Non-fibrous (Other)	None Detected
180-Mastic *511803160-0180A*	Raw material storage; 2nd story - Green sheet vinyl with mastic	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
181 *511803160-0181*	Raw material storage; 2nd story - Black fiber panel flooring	Brown/Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
182 *511803160-0182*	Raw material storage; 2nd story - Beige sheet vinyl flooring with mastic	Tan/Beige Fibrous Homogeneous	35% Cellulose	45% Non-fibrous (Other)	20% Chrysotile
Result includes a small amount of inseparable attached material					
183-Cove Base *511803160-0183*	Raw material storage; 2nd floor - 4" Brown cove with tan mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
183-Mastic *511803160-0183A*	Raw material storage; 2nd floor - 4" Brown cove with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
184 *511803160-0184*	Raw material storage; 2nd floor - Fibrous 24" dia. plastic pipe	Gray Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
185-Drywall *511803160-0185*	Raw material storage; 2nd floor - Dyrwall with joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass	60% Gypsum 10% Non-fibrous (Other)	None Detected
185-Joint Compound *511803160-0185A*	Raw material storage; 2nd floor - Dyrwall with joint compound	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
186 *511803160-0186*	Raw material storage; 2nd story - exterior - White window glazing	White/Beige Non-Fibrous Homogeneous		65% Ca Carbonate 35% Non-fibrous (Other)	None Detected
187-Wrap *511803160-0187*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	White Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
187-Mastic *511803160-0187A*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
187-Insulation *511803160-0187B*	Sulphite plant; SE exterior - TSI pipe wrap - fiber with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
188-Insulation *511803160-0188*	City water pipe - south of sulphite plant - 12" Dia. fiber insulation with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
188-Paper *511803160-0188A*	City water pipe - south of sulphite plant - 12" Dia. fiber insulation with paper	White/Silver Fibrous Homogeneous	15% Cellulose 35% Glass	50% Non-fibrous (Other)	None Detected
189 *511803160-0189*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	5% Cellulose 8% Glass HA: 8	87% Non-fibrous (Other)	None Detected
190 *511803160-0190*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	5% Cellulose 8% Glass HA: 8	87% Non-fibrous (Other)	None Detected
191 *511803160-0191*	Pipe debris pile - south of sulphite plant - 9" Hard pipe insulation - white under metal	White/Yellow Non-Fibrous Homogeneous	3% Cellulose 10% Glass HA: 8	87% Non-fibrous (Other)	None Detected
192 *511803160-0192*	Auto shop - southern wall - White fiber insulation	Gray/White Fibrous Homogeneous	97% Min. Wool HA: 9	3% Non-fibrous (Other)	None Detected
193 *511803160-0193*	Auto shop - ceiling - White fiber insulation	Gray/White Fibrous Homogeneous	97% Min. Wool HA: 9	3% Non-fibrous (Other)	None Detected
194 *511803160-0194* *Result includes a small amount of inseparable attached material*	Auto shop - floor debris - White fiber insulation	Gray/White Fibrous Homogeneous	5% Synthetic 90% Min. Wool HA: 9	5% Non-fibrous (Other)	None Detected
195 *511803160-0195*	Deink Hi-D tank area - Black fibrous sheet debris	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
196-Brick *511803160-0196*	Deink Hi-D tank area - Red brick with gray mortar	Red Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
196-Mortar *511803160-0196A*	Deink Hi-D tank area - Red brick with gray mortar	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
197 *511803160-0197*	Deink Hi-D tank area - Gray grout associated with rock wall	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
198-Brick *511803160-0198*	Butler building - Red 12"x12" bricks with white grout	Red Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
198-Grout *511803160-0198A*	Butler building - Red 12"x12" bricks with white grout	White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
199 *511803160-0199*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
200 *511803160-0200*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
201 *511803160-0201*	Butler building - Gray skim coat over bricks	Gray Non-Fibrous Homogeneous		15% Quartz 3% Micaceous Flakes 82% Non-fibrous (Other)	None Detected
202 *511803160-0202*	Paper machine #2 deck - Asphaltic decking	White/Black Fibrous Homogeneous	40% Glass	2% Quartz 58% Non-fibrous (Other)	None Detected
203 *511803160-0203*	Paper machine #2 - Gray fibrous cloth	Gray/White Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (Other)	None Detected
204 *511803160-0204*	Paper machine #2 - Yellow wall mastic	Gray/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
205-Laminate *511803160-0205*	Mill D warehouse; 1st floor; restrooms - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
205-Mastic *511803160-0205A*	Mill D warehouse; 1st floor; restrooms - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
206 *511803160-0206*	Mill D warehouse; 1st floor; restrooms - White sink undercoating	White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
207-FRP *511803160-0207*	Mill D warehouse; 1st floor; restrooms - White FRP	White Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
207-Mastic *511803160-0207A*	Mill D warehouse; 1st floor; restrooms - White FRP	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
208 *511803160-0208*	Mill D warehouse; 1st floor; restrooms - 4x2 D&F Drop ceiling panel	Gray Fibrous Homogeneous	25% Min. Wool 40% Glass	35% Non-fibrous (Other)	None Detected
209-Cove Base *511803160-0209*	Mill D warehouse; 1st floor; restrooms - 4" Cream cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
209-Mastic *511803160-0209A*	Mill D warehouse; 1st floor; restrooms - 4" Cream cove with cream mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
210-Wrap *511803160-0210*	Mill D warehouse; 1st floor; supply room - Yellow pipe wrap with paper	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
210-Paper *511803160-0210A*	Mill D warehouse; 1st floor; supply room - Yellow pipe wrap with paper	White/Silver Fibrous Homogeneous	55% Cellulose 20% Glass	25% Non-fibrous (Other)	None Detected
211 *511803160-0211*	Mill D warehouse supply room - White cloth gasket	White Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected

Result includes a small amount of inseparable attached material

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
212-Vinyl Floor Tile *511803160-0212*	Mill D; paint room - Green 9x9 VFT w/brown mastic	Green Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
212-Mastic *511803160-0212A*	Mill D; paint room - Green 9x9 VFT w/brown mastic	Black Non-Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
213-Wrap *511803160-0213*	Mill D; rail car loading doc - White fibrous material w/adhesive	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
213-Mastic *511803160-0213A*	Mill D; rail car loading doc - White fibrous material w/adhesive	Yellow/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
214 *511803160-0214*	Mill D warehouse - Brown felt paper	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
215 *511803160-0215*	Mill D warehouse - White window glazing	White/Beige Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected
216-Vinyl Floor Tile *511803160-0216*	Paper machine #3, northern control room - 12"x12" blue VFT w/cream mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
216-Mastic *511803160-0216A*	Paper machine #3, northern control room - 12"x12" blue VFT w/cream mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
217-Texture *511803160-0217*	Mill D; 2nd floor landing - White knock down texture over drywall	White Non-Fibrous Homogeneous	HA: 11	45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
217-Drywall *511803160-0217A*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass HA: 11	60% Gypsum 10% Non-fibrous (Other)	None Detected
218-Texture *511803160-0218*	Mill D; 2nd floor landing - White knock down texture over drywall	White Non-Fibrous Homogeneous	HA: 11	50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
218-Drywall *511803160-0218A*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 8% Glass HA: 11	60% Gypsum 12% Non-fibrous (Other)	None Detected
219 *511803160-0219*	Mill D; 2nd floor landing - White knock down texture over drywall	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass HA: 11	55% Gypsum 15% Non-fibrous (Other)	None Detected
220-Built Up Roofing *511803160-0220*	Mill D; roof - Built-up roofing w/silver paint	Black Fibrous Heterogeneous	20% Synthetic 20% Glass	55% Non-fibrous (Other)	5% Chrysotile
220-Silver Paint *511803160-0220A*	Mill D; roof - Built-up roofing w/silver paint	Silver Non-Fibrous Homogeneous	5% Wollastonite	95% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
220-Tar Felt *511803160-0220B*	Mill D; roof - Built-up roofing w/silver paint	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
221 *511803160-0221*	Paper machine #3; exterior - riverside - Black fiber padding	Black Fibrous Homogeneous		20% Non-fibrous (Other)	80% Chrysotile
222-Ceramic Tile *511803160-0222*	Paper machine #3; exterior - riverside - Terracotta tile w/black grout debris	Beige/Orange Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
222-Grout *511803160-0222A*	Paper machine #3; exterior - riverside - Terracotta tile w/black grout debris	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
223 *511803160-0223*	Fitness center - Black mastic dot associated with wall mirrors	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
224-Carpet *511803160-0224*	Fitness center - Blue carpet w/wall (tan) adhesive	White/Black/Blue Fibrous Homogeneous	20% Cellulose 80% Synthetic		None Detected
224-Mastic *511803160-0224A*	Fitness center - Blue carpet w/wall (tan) adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
225-Joint Compound *511803160-0225*	Fitness center - Joint compound	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
225-Drywall *511803160-0225A*	Fitness center - Joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 7% Glass	60% Gypsum 13% Non-fibrous (Other)	None Detected
226-Insulation *511803160-0226*	Water filter plant, 3rd floor; office - Yellow insulation with white layer	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
226-Wrap *511803160-0226A*	Water filter plant, 3rd floor; office - Yellow insulation with white layer	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
227 *511803160-0227*	Water filter plant, 3rd floor; office - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile <1% Crocidolite
228 *511803160-0228*	Water filter plant, 3rd floor; office - Window glazing	White/Beige Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
229-Joint Compound *511803160-0229*	Water filter plant, 3rd floor; office - Drywall with joint compound	Gray/White Non-Fibrous Homogeneous		35% Ca Carbonate 62% Non-fibrous (Other)	3% Chrysotile
229-Drywall *511803160-0229A*	Water filter plant, 3rd floor; office - Drywall with joint compound	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass	65% Gypsum 5% Non-fibrous (Other)	None Detected
230 *511803160-0230* *Result includes a small amount of inseparable attached material*	Water filter plant; 3rd floor; restroom - Asphalt paper	Brown/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
231 *511803160-0231*	Water filter plant; 2nd story - exterior - Caulking behind transite	Tan Non-Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
232 *511803160-0232*	Water filter plant; 2nd story - covered exterior - Fibrous pipe elbow wrap	White/Silver Fibrous Homogeneous	80% Glass	2% Quartz 18% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
233-CMU *511803160-0233*	Millwright shop; office - CMU Block & grout	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected
233-Grout *511803160-0233A*	Millwright shop; office - CMU Block & grout	White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
234-Cementitious Cove *511803160-0234*	Millwright shop; office - Cementitious cove with cream mastic	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
234-Mastic *511803160-0234A*	Millwright shop; office - Cementitious cove with cream mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
235-Laminate *511803160-0235*	Millwright shop; restroom - Blue laminate countertop	Brown/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
235-Mastic *511803160-0235A*	Millwright shop; restroom - Blue laminate countertop	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
236-Ceiling Tile *511803160-0236*	Millwright shop; office - 4'x2' D&F Wall panel with brown mastic	Gray Fibrous Homogeneous	45% Cellulose 30% Min. Wool	10% Perlite 15% Non-fibrous (Other)	None Detected
236-Mastic *511803160-0236A*	Millwright shop; office - 4'x2' D&F Wall panel with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
237 *511803160-0237*	Paper machine #3; 1st floor; electrical room - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
238-Transite *511803160-0238*	Paper machine #3; 1st floor; electrical room - CAB	Gray Non-Fibrous Homogeneous		83% Non-fibrous (Other)	17% Chrysotile <1% Crocidolite
238-Foam *511803160-0238A*	Paper machine #3; 1st floor; electrical room - CAB	Yellow/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Ehrin Baul (185)
Jason Stuhr (211)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

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EMSL Order:	511803234
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Attention:	Dan Fitzgibbons	**Phone:**	(206) 399-5267
	Apex Companies, LLC	**Fax:**	
	600 Stewart Street	**Received Date:**	10/25/2018 8:00 AM
	Suite 400	**Analysis Date:**	10/26/2018 - 10/29/2018
	Seattle, WA 98101	**Collected Date:**	
Project:	320002449-00, Task 003		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
239-Drywall *511803234-0001*	TMP refiner lines; 4th story annex - Drywall with joint compound (brown)	Brown/Tan Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
239-Joint Compound *511803234-0001A*	TMP refiner lines; 4th story annex - Drywall with joint compound (brown)	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
240-Drywall *511803234-0002*	TMP refiner lines; 4th story annex - Tan drywall with joint compound	Brown/Tan Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 18% Non-fibrous (Other)	None Detected
240-Joint Compound *511803234-0002A*	TMP refiner lines; 4th story annex - Tan drywall with joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
241 *511803234-0003*	TMP refiner lines; 4th story annex - Orange door/sign mastic	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Foam *511803234-0004*	TMP refiner lines; 4th story annex - Orange foam insulation with foiler backer	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
242-Backing *511803234-0004A*	TMP refiner lines; 4th story annex - Orange foam insulation with foiler backer	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
243 *511803234-0005*	TMP refiner lines; ext. dock - east - White gasket debris	Gray/Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
244 *511803234-0006*	TMP refiner lines; ext. dock - east - Black seal	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
245 *511803234-0007*	Adj. to HI-D tank - Black asphaltic paper coating	Brown/Black Fibrous Homogeneous	30% Cellulose	45% Non-fibrous (Other)	25% Chrysotile
246-Finish Coat *511803234-0008*	HI-D tank - Texture on cementitious blcoks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
246-Base Coat *511803234-0008A*	HI-D tank - Texture on cementitious blcoks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Coating *511803234-0009*	Adj. to HI-D Tank - White with black wall mastic	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
247-Sealant *511803234-0009A*	Adj. to HI-D Tank - White with black wall mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
248-Finish Coat *511803234-0010*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
248-Base Coat *511803234-0010A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Finish Coat *511803234-0011*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
249-Base Coat *511803234-0011A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Finish Coat *511803234-0012*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
250-Base Coat *511803234-0012A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Finish Coat *511803234-0013*	HI-D tank - Texture on cementitious blocks for tank	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
251-Base Coat *511803234-0013A*	HI-D tank - Texture on cementitious blocks for tank	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
252 *511803234-0014*	Paper machine #3; basement - White/gray fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
253 *511803234-0015*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
254 *511803234-0016*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
255 *511803234-0017*	Paper machine #3; basement - Gray metallic brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
256 *511803234-0018*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
257 *511803234-0019*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
258 *511803234-0020*	Paper machine #3; basement - Tan-red fire brick	Tan/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
259 *511803234-0021*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
260 *511803234-0022*	Paper machine #3; basement - Gray metallic brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
261 *511803234-0023*	Paper machine #3; basement - Tan-red fire brick	Tan/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
262 *511803234-0024*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
263 *511803234-0025*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
264 *511803234-0026*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
265 *511803234-0027*	Paper machine #3; basement - Brown fire brick	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
266 *511803234-0028*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
267 *511803234-0029*	Paper machine #3; basement - Cream fire brick	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
268 *511803234-0030*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
269 *511803234-0031*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
270 *511803234-0032*	Paper machine #3; basement - White fire brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
271 *511803234-0033*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
272 *511803234-0034*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
273 *511803234-0035*	Paper machine #3; basement - Orange fire brick	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
274 *511803234-0036*	Paper machine #3; basement - Gray fire brick	Gray Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
275 *511803234-0037*	Paper machine #3; basement - Yellow fire brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
276 *511803234-0038*	Paper machine #3; basement - Tan fire brick	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
277 *511803234-0039*	Paper machine #3; basement - Orange fire brick	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
278 *511803234-0040*	Paper machine #3; basement - White fire brick	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
279 *511803234-0041*	Garage adj. to guard shack - Transite siding	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
280-Cove Base *511803234-0042*	Garage adj. to guard shack - 4" Green cove with brown mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
280-Mastic *511803234-0042A*	Garage adj. to guard shack - 4" Green cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
281-Cove Base *511803234-0043*	Office adj to guard shack; 1st floor: entry - 4" Gray cove with tan mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
281-Mastic *511803234-0043A*	Office adj to guard shack; 1st floor: entry - 4" Gray cove with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282-Cove Base *511803234-0044*	Office adj to guard shack; 1st floor; hallway - 4" Black cove with brown mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
282-Mastic *511803234-0044A*	Office adj to guard shack; 1st floor; hallway - 4" Black cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283-Cove Base *511803234-0045*	Office adj to guard shack; 1st floor; restroom - 6" Gray cove with white mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
283-Mastic *511803234-0045A*	Office adj to guard shack; 1st floor; restroom - 6" Gray cove with white mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
284-Cove Base *511803234-0046*	Office adj to guard shack; 1st floor; side room - 4" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
284-Mastic *511803234-0046A*	Office adj to guard shack; 1st floor; side room - 4" Brown cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
285-Cove Base *511803234-0047*	Office adj to guard shack; 1st floor; side room - 4" Tan cove with brown mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
285-Mastic *511803234-0047A*	Office adj to guard shack; 1st floor; side room - 4" Tan cove with brown mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
286 *511803234-0048*	Office adj to guard shack - 12"x12" White dot ceiling tile	Brown/White Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
287 *511803234-0049*	Office adj to guard shack - 4'x2' White D&F drop ceiling panel	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	10% Perlite 10% Non-fibrous (Other)	None Detected
288-Floor Tile *511803234-0050*	Office adj to guard shack - 9"x9" White VFT with black mastic	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
288-Mastic *511803234-0050A*	Office adj to guard shack - 9"x9" White VFT with black mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
289-Floor Tile *511803234-0051*	Office adj to guard shack - 12"x12" Beige VFT with black mastic	Beige Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
289-Mastic *511803234-0051A*	Office adj to guard shack - 12"x12" Beige VFT with black mastic	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
290-Flooring *511803234-0052*	Office adj to guard shack - Gray sheet vinyl with black mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
290-Mastic *511803234-0052A*	Office adj to guard shack - Gray sheet vinyl with black mastic	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
291-Carpet *511803234-0053*	Office adj to guard shack - Blue carpet with yellow mastic	Gray Fibrous Homogeneous	85% Synthetic	15% Non-fibrous (Other)	None Detected
291-Mastic *511803234-0053A*	Office adj to guard shack - Blue carpet with yellow mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
292-Fiberboard *511803234-0054*	Office adj to guard shack - Brown wall mastic with cork board	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
292-Mastic *511803234-0054A*	Office adj to guard shack - Brown wall mastic with cork board	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
293-Drywall *511803234-0055*	Office adj to guard shack - Drywall with joint compound	Brown/White Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 2% Micaceous Flakes 16% Non-fibrous (Other)	None Detected
293-Joint Compound *511803234-0055A* *Inseparable paint / coating layer included in analysis*	Office adj to guard shack - Drywall with joint compound	White Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
294-Drywall *511803234-0056*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose 2% Glass	70% Gypsum 18% Non-fibrous (Other)	None Detected
294-Texture *511803234-0056A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	None Detected
295-Drywall *511803234-0057*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
295-Texture *511803234-0057A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
296-Drywall *511803234-0058*	Office adj to guard shack - Knockdown wall texture on drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	75% Gypsum 15% Non-fibrous (Other)	None Detected
296-Texture *511803234-0058A*	Office adj to guard shack - Knockdown wall texture on drywall	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (Other)	None Detected
297-Texture *511803234-0059*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
297-Tape *511803234-0059A*	Office adj to guard shack - Knockdown wall texture on wood	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
297-Texture *511803234-0059B*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
298 *511803234-0060*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		50% Ca Carbonate 48% Non-fibrous (Other)	2% Chrysotile
299 *511803234-0061*	Office adj to guard shack - Knockdown wall texture on wood	White Non-Fibrous Homogeneous		55% Ca Carbonate 43% Non-fibrous (Other)	2% Chrysotile
300-Insulation *511803234-0062*	Office adj to guard shack - Pink insulation with black paper backing	Pink Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
300-Backing *511803234-0062A*	Office adj to guard shack - Pink insulation with black paper backing	Brown/Black/Silver Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
301-Vinyl Sheet Flooring *511803234-0063*	Guard shack - Beige sheet vinyl with yellow mastic	Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
301-Mastic *511803234-0063A*	Guard shack - Beige sheet vinyl with yellow mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
302 *511803234-0064*	Guard shack - White ceiling panel	Tan/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
303-Floor Tile *511803234-0065*	Portable office (north of guard shack) - 12"x12" White VFT with brown	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
303-Mastic *511803234-0065A*	Portable office (north of guard shack) - 12"x12" White VFT with brown	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
304-Floor Tile *511803234-0066*	Portable office (north of guard shack) - 12"x12" Dark gray VFT with tan mastic	Gray/Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
304-Mastic *511803234-0066A*	Portable office (north of guard shack) - 12"x12" Dark gray VFT with tan mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
305 *511803234-0067*	Portable office (north of guard shack) - White window caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
306-Stair Tread *511803234-0068*	Mill offices; stairs - Gray stair tread with cream mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
306-Mastic *511803234-0068A*	Mill offices; stairs - Gray stair tread with cream mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
307 *511803234-0069*	Boiler plant; 1st floor; A boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
308 *511803234-0070*	Boiler plant; 1st floor; A boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
309 *511803234-0071*	Boiler plant; 1st floor; A boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
310 *511803234-0072*	Boiler plant; 1st floor; B boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
311 *511803234-0073*	Boiler plant; 1st floor; B boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
312 *511803234-0074*	Boiler plant; 1st floor; B boiler; east side - Silver paint on metal boiler	Silver/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
313 *511803234-0075*	Boiler plant; 1st floor; C boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
314 *511803234-0076*	Boiler plant; 1st floor; C boiler; south side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
315 *511803234-0077*	Boiler plant; 1st floor; C boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
316 *511803234-0078*	Boiler plant; 1st floor; D boiler; north side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
317 *511803234-0079*	Boiler plant; 1st floor; D boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
318 *511803234-0080*	Boiler plant; 1st floor; D boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
319 *511803234-0081*	Boiler plant; 1st floor; green boiler; west side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
320 *511803234-0082*	Boiler plant; 1st floor; green boiler; south side - Silver paint on metal boiler	Brown/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
321-Silver Paint *511803234-0083*	Boiler plant; 1st floor; green boiler; east side - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
321-Paint *511803234-0083A*	Boiler plant; 1st floor; green boiler; east side - Silver paint on metal boiler	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322 *511803234-0084*	Boiler plant; 1st floor; silver boiler; east side - Silver paint on metal boiler	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
323 *511803234-0085*	Boiler plant; 1st floor; silver boiler; west side - Silver paint on metal boiler	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
324 *511803234-0086*	Boiler plant; 1st floor; silver paint; north side - Silver paint on metal boiler	Brown/Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
325 *511803234-0087*	Boiler plant; 1st floor; A boiler; south side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
326 *511803234-0088*	Boiler plant; 1st floor; B boiler; south side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 15% Glass	80% Non-fibrous (Other)	None Detected
327 *511803234-0089*	Boiler plant; 1st floor; C boiler; north side - Gray sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
328 *511803234-0090*	Boiler plant; 1st floor; A boiler; west side - Black sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected
329 *511803234-0091*	Boiler plant; 1st floor; D boiler; west side - Black sealant @ boiler hatch	Gray Non-Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (Other)	None Detected
330 *511803234-0092*	Boiler plant; 1st floor; C boiler; east side - Black sealant @ boiler hatch	Gray/Black Non-Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
331 *511803234-0093*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	10% Cellulose 80% Glass	10% Non-fibrous (Other)	None Detected
332 *511803234-0094*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
333 *511803234-0095*	Boiler plant; 1st floor; C boiler; east side - Gray cloth gasket	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
334 *511803234-0096*	Boiler plant; 1st floor; A boiler; south side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
335-Caulk *511803234-0097*	Boiler plant; 1st floor; C boiler; south side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
335-Caulk *511803234-0097A*	Boiler plant; 1st floor; C boiler; south side - White caulking with insulation	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Caulk *511803234-0098*	Boiler plant; 1st floor; D boiler; north side - White caulking with insulation	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
336-Insulation *511803234-0098A*	Boiler plant; 1st floor; D boiler; north side - White caulking with insulation	Gray Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
337 *511803234-0099*	Boiler plant; 1st floor; A boiler; north side - Red boiler insulation	Red Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	10% Chrysotile
338 *511803234-0100*	Boiler plant; 1st floor; B boiler; north side - Red boiler insulation	Brown/Red Non-Fibrous Homogeneous	60% Min. Wool	32% Non-fibrous (Other)	8% Chrysotile
339 *511803234-0101*	Boiler plant; 1st floor; D boiler; south side - Red boiler insulation	Red Non-Fibrous Homogeneous	60% Min. Wool	30% Non-fibrous (Other)	10% Chrysotile
340 *511803234-0102*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	White Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
341 *511803234-0103*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	Tan/White Non-Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
342 *511803234-0104*	Boiler plant; 1st floor; D boiler; east side - White cloth tape @ wood hatch cover	Tan/White Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
343 *511803234-0105*	Boiler plant; adj. to south side of green boiler - TSI pipe insulation debris (spill on ground)	White Fibrous Homogeneous	35% Synthetic	2% Mica 63% Non-fibrous (Other)	None Detected
344 *511803234-0106* *The sample group is not homogeneous*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Non-Fibrous Homogeneous		65% Non-fibrous (Other)	35% Amosite
345 *511803234-0107*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Fibrous Homogeneous		65% Non-fibrous (Other)	35% Amosite
346 *511803234-0108*	Recovery boiler; 1st floor - TSI insulation debris (spill on ground)	White Fibrous Homogeneous		70% Non-fibrous (Other)	30% Amosite
347-Insulation *511803234-0109*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
347-Insulation *511803234-0109A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
348-Insulation *511803234-0110*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
348-Insulation *511803234-0110A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
349-Insulation *511803234-0111*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
349-Insulation *511803234-0111A*	Boiler plant; 1st floor; green boiler; east side - Jacket insulation with white insulation	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
350 *511803234-0112*	Boiler plant; 1st floor; silver boiler; east side - Pipe insulaiton hard; off-white	Beige Non-Fibrous Homogeneous	3% Glass	97% Non-fibrous (Other)	None Detected
351 *511803234-0113*	Boiler plant; 1st floor; green boiler; south side - Pipe insulation (hard; off-white)	Beige Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
352 *511803234-0114*	Boiler plant; 1st floor; green boiler; south side - Pipe insulation (hard; off-white)	Beige Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
353 *511803234-0115*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		50% Non-fibrous (Other)	10% Amosite 40% Chrysotile
354 *511803234-0116*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	15% Amosite 45% Chrysotile
355 *511803234-0117*	Boiler plant; 1st floor; TM boiler; east side - Boiler insulation (white - chalk-like)	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	15% Amosite 45% Chrysotile
356 *511803234-0118*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
357 *511803234-0119*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
358 *511803234-0120*	Boiler plant; 1st floor; green boiler - Fire brick - gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
359 *511803234-0121*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
360 *511803234-0122*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
361 *511803234-0123*	Boiler plant; basement; silver boiler - Boiler door insulation	Gray/White Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
362 *511803234-0124*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
363 *511803234-0125*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
364 *511803234-0126*	Boiler plant; basement; silver boiler - Boiler wall panel (CAB)	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
365 *511803234-0127*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
366 *511803234-0128*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
367 *511803234-0129*	Boiler plant; basement; silver boiler - Red boiler insulation (behind CAB)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
368 *511803234-0130*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
369 *511803234-0131*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
370 *511803234-0132*	Recovery boiler; 1st floor; control room - CAB wall panels	Gray/Green Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
371 *511803234-0133*	Recoever boiler; 1st floor - Boiler insualtion	Gray Fibrous Homogeneous	45% Min. Wool	49% Non-fibrous (Other)	6% Chrysotile
372 *511803234-0134*	Recoever boiler; 1st floor - Boiler insualtion	Gray Fibrous Homogeneous	50% Min. Wool	42% Non-fibrous (Other)	8% Chrysotile
373 *511803234-0135* *Result includes a small amount of inseparable attached material*	Recoever boiler; 1st floor - Boiler insualtion	Gray/White Fibrous Homogeneous	55% Min. Wool	30% Non-fibrous (Other)	7% Amosite 8% Chrysotile
374 *511803234-0136*	Recoever boiler; 1st floor - Silver paint on metal boiler	Brown/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
375 *511803234-0137*	Recoever boiler; 1st floor - Silver paint on metal boiler	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
376 *511803234-0138*	Recoever boiler; 1st floor - Silver paint on metal boiler	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
377 *511803234-0139*	Maintenance shop - southern exterior - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
378 *511803234-0140* *Inseparable paint / coating layer included in analysis*	Boiler plant; 1st floor - Transite siding	Gray/Silver Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
379 *511803234-0141*	South substation; 2nd floor; exterior - Transite siding	Gray Non-Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile <1% Crocidolite
380 *511803234-0142*	Paper machine #3; 1st floor; west - exterior - Transite siding	Gray Non-Fibrous Homogeneous		82% Non-fibrous (Other)	18% Chrysotile
381 *511803234-0143*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
382 *511803234-0144*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	17% Synthetic 10% Glass	73% Non-fibrous (Other)	None Detected
383 *511803234-0145*	Carpenter shop; box A - Pipe insulation - 9" elbow	White Fibrous Homogeneous	17% Synthetic 10% Glass	73% Non-fibrous (Other)	None Detected
384 *511803234-0146*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
385 *511803234-0147*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
386 *511803234-0148*	Carpenter shop; box B - 9" Elbow mixed with fiberglass	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
387 *511803234-0149*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	20% Synthetic 5% Glass	75% Non-fibrous (Other)	None Detected
388 *511803234-0150*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	15% Synthetic 5% Glass	80% Non-fibrous (Other)	None Detected
389 *511803234-0151*	Carpenter shop; box C - 3.5" Pipe insulation	White Fibrous Homogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
390 *511803234-0152*	Carpenter shop; box D - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
391 *511803234-0153*	Carpenter shop; lone pipe run - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
392 *511803234-0154*	Carpenter shop; box E - 4" Pipe insulation with fabric wrap	White Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
393 *511803234-0155*	Carpenter shop; box F - Block insulation	Gray Fibrous Homogeneous	5% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 20% Non-fibrous (Other)	None Detected
394 *511803234-0156*	Carpenter shop; box G - Block insulation	Gray Fibrous Homogeneous	15% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 10% Non-fibrous (Other)	None Detected

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Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
395 *511803234-0157*	Carpenter shop; box H - Block insulation	Gray Fibrous Homogeneous	15% Cellulose 60% Min. Wool 10% Wollastonite	5% Perlite 10% Non-fibrous (Other)	None Detected
396 *511803234-0158*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
397 *511803234-0159*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
398 *511803234-0160*	Carpenter shop; box I - Block insulation	White Fibrous Homogeneous	30% Cellulose 5% Glass 3% Wollastonite	62% Non-fibrous (Other)	None Detected
399 *511803234-0161*	Carpenter shop; box J - 4" Pipe insul	White Fibrous Homogeneous	25% Cellulose 20% Synthetic 10% Glass	45% Non-fibrous (Other)	None Detected
400 *511803234-0162*	Carpenter shop; box J - 4" Pipe insul	White/Green Fibrous Homogeneous	25% Cellulose 15% Synthetic 5% Glass	55% Non-fibrous (Other)	None Detected
401 *511803234-0163*	Carpenter shop; box J - 4" Pipe insul	White/Green Fibrous Homogeneous	30% Cellulose 10% Synthetic 3% Glass	57% Non-fibrous (Other)	None Detected
402 *511803234-0164*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	30% Cellulose 5% Synthetic	65% Non-fibrous (Other)	None Detected
403 *511803234-0165*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	35% Cellulose 5% Synthetic	60% Non-fibrous (Other)	None Detected
404 *511803234-0166*	Carpenter shop; box K - 1/2" Pipe insul with fabric wrap	White Fibrous Homogeneous	35% Cellulose 5% Synthetic	60% Non-fibrous (Other)	None Detected
405 *511803234-0167*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	25% Cellulose 15% Synthetic 3% Glass	57% Non-fibrous (Other)	None Detected
406 *511803234-0168*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	25% Cellulose 15% Synthetic 2% Glass	58% Non-fibrous (Other)	None Detected
407 *511803234-0169*	Carpenter shop; box L - 1" Pipe insul	White Fibrous Homogeneous	30% Cellulose 20% Synthetic	50% Non-fibrous (Other)	None Detected
408 *511803234-0170*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	20% Synthetic	3% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
409 *511803234-0171*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
410 *511803234-0172*	Carpenter shop; box M - 1.5" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
411 *511803234-0173*	Carpenter shop; box N - 12" 1/2 Pipe insul	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
412-Pipe Insulation *511803234-0174*	Carpenter shop; box N - 12" (Full) pipe insul with fiber wrap	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
412-Wrap *511803234-0174A*	Carpenter shop; box N - 12" (Full) pipe insul with fiber wrap	Gray/Beige Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected

Initial report from: 10/30/2018 11:15:54

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EMSL Order: 511803234
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
413-Pipe Insulation *511803234-0175*	Carpenter shop; box N - 4.5" Pipe with metal wrap	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
413-Wrap *511803234-0175A*	Carpenter shop; box N - 4.5" Pipe with metal wrap	Beige Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (Other)	None Detected
414 *511803234-0176*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
415 *511803234-0177*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	25% Synthetic 5% Glass	70% Non-fibrous (Other)	None Detected
416 *511803234-0178*	Carpenter shop; box O - 4.5" Pipe elbows with mixed debris	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
417 *511803234-0179*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
418 *511803234-0180*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
419 *511803234-0181*	Carpenter shop; box P - 3" Pipe insulation	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
420 *511803234-0182*	Carpenter shop; box Q - 12" Pipe insul (broken)	White Fibrous Homogeneous	20% Synthetic 10% Glass	70% Non-fibrous (Other)	None Detected
421 *511803234-0183* *Result includes a small amount of inseparable attached material*	Carpenter shop; box Q - 12" Pipe insul (broken)	Gray/White Fibrous Homogeneous	15% Cellulose 25% Synthetic 5% Glass	55% Non-fibrous (Other)	None Detected
422 *511803234-0184*	Carpenter shop; box Q - 12" Pipe insul (broken)	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
423 *511803234-0185*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
424 *511803234-0186*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	25% Synthetic 5% Glass	70% Non-fibrous (Other)	None Detected
425 *511803234-0187*	Carpenter shop; box R - 1/2" Pipe insul	White Fibrous Homogeneous	25% Synthetic	75% Non-fibrous (Other)	None Detected
426 *511803234-0188*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	20% Synthetic	3% Micaceous Flakes 77% Non-fibrous (Other)	None Detected
427 *511803234-0189*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
428 *511803234-0190*	Carpenter shop; box S - 1" Pipe insul	Tan/White Fibrous Homogeneous	25% Synthetic	3% Micaceous Flakes 72% Non-fibrous (Other)	None Detected
429-Pipe Insulation *511803234-0191*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Peach Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected

Initial report from: 10/30/2018 11:15:54

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EMSL Order: 511803234
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
429-Wrap *511803234-0191A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
430-Pipe Insulation *511803234-0192*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	White Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
430-Wrap *511803234-0192A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
431-Pipe Insulation *511803234-0193*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	White Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (Other)	None Detected
431-Wrap *511803234-0193A*	Carpenter shop; box T - 1.5" Pipe insul with cloth wrap	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
432 *511803234-0194*	Carpenter shop - White powder in SGAL bucket	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
433 *511803234-0195*	Carpenter shop - Finishing concrete powder spill	Gray Fibrous Homogeneous	10% Cellulose 70% Glass	20% Non-fibrous (Other)	None Detected
434 *511803234-0196*	Carpenter shop - White insulation spill	White Fibrous Homogeneous	3% Cellulose 60% Glass	37% Non-fibrous (Other)	None Detected
435 *511803234-0197*	Carpenter shop; 1st floor - 12" Pipe insulation	White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
436 *511803234-0198*	Carpenter shop; 1st floor - 12" Pipe insulation	White Fibrous Homogeneous	20% Cellulose 3% Glass	77% Non-fibrous (Other)	None Detected
437 *511803234-0199*	Carpenter shop; 1st floor; spill on floor - 12" Pipe insulation	White Fibrous Homogeneous	25% Cellulose 5% Glass	70% Non-fibrous (Other)	None Detected
438 *511803234-0200*	Carpenter shop; 1st floor - White rope gasket	White Fibrous Homogeneous	75% Synthetic	25% Non-fibrous (Other)	None Detected

Analyst(s)

Ehrin Baul (67)
Jason Stuhr (142)
Rudy Baum (33)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

Initial report from: 10/30/2018 11:15:54

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EMSL Order:	511803406
Customer ID:	APXW42
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons	**Phone:**	(206) 399-5267
	Apex Companies, LLC	**Fax:**	
	600 Stewart Street	**Received Date:**	11/12/2018 8:23 AM
	Suite 400	**Analysis Date:**	11/13/2018 - 11/14/2018
	Seattle, WA 98101	**Collected Date:**	
Project:	2449-00.002		

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
439 *511803406-0001*	Light gray window glazing	Gray/Beige Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
440-Tar Paper *511803406-0002*	Black fiber paper	Gray/Black Fibrous Homogeneous	30% Glass	10% Quartz 60% Non-fibrous (Other)	None Detected
440-Tar *511803406-0002A*	Black fiber paper	Brown/Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
441 *511803406-0003*	Adj. to paper machine #3, river side - Pipe vib. Pad (black)	Black Fibrous Homogeneous		35% Non-fibrous (Other)	65% Chrysotile
442 *511803406-0004*	Adj. to paper machine #3; tank foundation - Black sealant	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
443-Gasket *511803406-0005*	Adj. to paper machine #3; tank foundation - Black gasket	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
443-Mastic *511803406-0005A*	Adj. to paper machine #3; tank foundation - Black gasket	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
444-Sealant *511803406-0006*	Adj. to paper machine #3; under - Black pipe sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
444-Backing *511803406-0006A*	Adj. to paper machine #3; under - Black pipe sealant	Brown/Black Fibrous Homogeneous	5% Synthetic	35% Non-fibrous (Other)	60% Chrysotile
445 *511803406-0007*	Office adj to guard shack; ext-East - Gray paint on CMU blocks	Gray/Green/Beige Non-Fibrous Homogeneous		3% Quartz 97% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
446 *511803406-0008*	Woolen mill ext-West - Fiber pipe wrap	White/Yellow Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached material					
447 *511803406-0009*	Deink-H1-D-tank - Tank material	Gray/Green Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
448 *511803406-0010*	Deink-H1-D-tank - Tank material	White/Green Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
449 *511803406-0011*	Tank adj to P.M. #1 - Textured coating on tank	Black Non-Fibrous Homogeneous		3% Quartz 87% Non-fibrous (Other)	10% Chrysotile
450 *511803406-0012*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)

Initial report from: 11/13/2018 16:26:51

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EMSL Order: 511803406
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
451 *511803406-0013*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
452 *511803406-0014*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
453 *511803406-0015*	Tank adj to P.M. #1 - Textured coating on tank				Positive Stop (Not Analyzed)
454 *511803406-0016* *Inseparable paint / coating layer included in analysis* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
455 *511803406-0017* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
456-Skim Coat 1 *511803406-0018* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
456-Skim Coat 2 *511803406-0018A* *Inseparable paint / coating layer included in analysis* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
457 *511803406-0019* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
458 *511803406-0020* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
460 *511803406-0022* *The sample group is not homogeneous*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
461 *511803406-0023*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
462 *511803406-0024*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
463 *511803406-0025*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
464 *511803406-0026*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
465 *511803406-0027*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
466 *511803406-0028*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

Initial report from: 11/13/2018 16:26:51

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EMSL Order: 511803406
Customer ID: APXW42
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
467 *511803406-0029*	Raw material storage - Skim coat on concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
468 *511803406-0030*	Weld shop-under transite - Black felt paper	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
469-Concrete *511803406-0031*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
469-Foam *511803406-0031A*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
469-Rubber Membrane *511803406-0031B*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Tan/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
469-Sealant *511803406-0031C*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
469-Built Up Roofing *511803406-0031D*	Paper machine #1-roof - Concrete tile over blue foam, over rubber w/ sealant over built-up asphalt roofing	Black Non-Fibrous Homogeneous	10% Glass	3% Quartz 87% Non-fibrous (Other)	None Detected
459 *511803406-0032*	Paper machine #1 - Skim coat on concrete	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected

The sample group is not homogeneous

Analyst(s)
Ehrin Baul (36)

Lauren Kerber, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

Initial report from: 11/13/2018 16:26:51

EMSL Analytical, Inc.

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EMSL Order:	511803406
Customer ID:	APXW42
Customer PO:	
Project ID:	

Attention:	Dan Fitzgibbons Apex Companies, LLC 600 Stewart Street Suite 400 Seattle, WA 98101	**Phone:**	(206) 399-5267
		Fax:	
		Received:	11/12/2018 8:23 AM
		Analysis Date:	11/30/2018
		Collected:	
Project:	2449-00.002		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
455 *511803406-0017*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
456-Skim Coat 2 *511803406-0018A*	Paper machine #1 - Skim coat on concrete	Green Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**

Analyst(s)

Jason Stuhr (2)

Lauren Kerber, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from: 12/03/2018 09:24:51

OrderID: 511803160

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*:

#511803160

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: APEX COMPANIES	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 3015 SW FIRST AVE	
City: PORTLAND **State/Province:** OR	**Zip/Postal Code:** 97201 **Country:** USA
Report To (Name): DAN FITZGIBBONS	**Telephone #:**
Email Address: dan.fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 2449-00.003	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: OR	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
☒ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

SOME

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 10/15 to 10/18

Samplers Name: JOHN HATHAWAY & CHRIS CLOUGH **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description

SEE ATTACHED PAGES

Client Sample # (s): 001 to 238 **Total # of Samples:** 238

Relinquished (Client): **Date:** 10/18/18 **Time:** 1600

Received (Lab): **Date:** 10/19/18 **Time:** 8:30AM

Comments/Special Instructions:
POSITIVE STOP REQUESTED ON HIGHLIGHTED SAMPLES. PCM EA

Controlled Document – Asbestos COC – R6 – 11/29/2012

Page 1 of _____ pages

APEX

ASBESTOS INSPECTIC ORM #511803160

Page 1 of

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
001		BROWN/GRAY WALL MASTIC	TRUCK DUMP – SOUTH WALL BEAM	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	10	LF
002		TAN FIRE BRICK DEBRIS	TRUCK DUMP – SOUTH WALL	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	10 BRICKS	
003		C.A.B	TRUCK DUMP – ELECT. ROOM	Surf. / (Misc.) / TSI	(Y) / N	G / (F) / P	3,500	SF
004		4'x2 D&F DROP CEILING PANEL	DEINK ONP REPULPER; 2ND FLOOR; CONTROL ROOM	Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	350	SF
005		DRYWALL WITH JOINT COMPOUND		Surf. / (Misc.) / TSI	Y / (N)	G / (F) / P	500	SF
006		4" GRAY COVE WITH CREAM MASTIC		Surf. / (Misc.) / TSI	Y / (N)	G / (F) / (P)	250	SF
007		PINK INSULATION W/TH PAPER & FOIL BACKING		Surf. / (Misc.) / TSI	(Y) / N	G / F / (P)	300	SF
008		ROOFING (ASPHALTIC)	; ROOF	Surf. / (Misc.) / TSI	Y / (N)	G / (F) / P		
009	1	SKIM COATING OVER CONCRETE	; 3RD STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
010	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
011	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
012	1		; 4TH STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
013	1			(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		
014	1		; 1ST STORY	(Surf.) / Misc. / TSI	(Y) / N	G / (F) / P		

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APEX

ASBESTOS INSPECTION FORM #511803160

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
015	1	SKIM COATING OVER CONCRETE	DE-INK-ON-P-- DEFIBER; 1ST FLOOR	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		
016		BROWN FIBER DEBRIS	; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	80	SF
017		GASKET IN DEBRIS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	2 EACH	
018		ASPHALT ROOFING	; 1ST FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
019		WHITE WALL MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	<5	LF
020		GROUT - ASSOCIATED WITH GLASS BLOCKS	; EXTERIOR-SOUTH	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	50	LF
021		TAN ~~MASTIC~~ MASTIC DOTS	PAPER MACHINE #4; BASEMENT	Surf. | Misc. | TSI	Y | N	G | F | P	2	SF
022		12" x 12" BLUE VFT WITH YELLOW MASTIC & WHITE LEVELING	; 1ST FLOOR; NORTH CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	300	SF
024		4" TAN COVE WITH TAN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	~~300~~ 70	SF
023		12" x 12" WHITE CEILING TILES WITH MASTIC DOTS		Surf. | Misc. | TSI	Y | N	G | F | P	~~200~~ 300	LF
025		TRANSITE SIDING	; EAST EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
026		TAN SHEET VINYL WITH MASTIC	; MEN'S RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	100	LF
027		WHITE FRP WITH TAN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	250	SF
028		12" x 12" GRAY VINYL FLOOR TILE WITH MASTIC	; SOUTH CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	250	SF

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ASBESTOS INSPECTIC ORM

#511803160

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
029		YELLOW PEBBLE PATTERNED SHEET VINYL	PAPER MACHINE #4; 1ST FLOOR; COMPUTER ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	50	SF
030		4" BROWN COVE BASE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
031	2	WALL TEXTURE OVER SPECKLED TEXTURE OVER CMU BLOCK		(Surf.) | Misc. | TSI	Y | N	G | F | (P)	<1,000	SF
032	2			(Surf.) | Misc. | TSI	Y | N	G | F | (P)	RE:31	
033	2			(Surf.) | Misc. | TSI	Y | N	G | (F) | P	RE:31	
034		CMU BLOCK GROUT		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
035		12" X 12" WHITE CEILING TILES WITH MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | P	150	SF
036		TERRACOTTA TILE WITH WHITE GROUT	; HATCH	Surf. | (Misc.) | TSI	Y | (N)	G | F | P		
037		4" GRAY COVE WITH MASTIC	; WOMEN'S RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	75	LF
038		TAN WALL PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
039		WHITE SINK UNDERCOATING		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1 SINK	
040		WINDOW GLAZING	; EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	25	LF
041		SINK UNDERCOATING	; 2ND FLOOR; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1 SINK	
042		BLUE LAMINATE COUNTERTOP		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	25	SF

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
043		4'X2 CEILING PANEL	#4 FINISHING; 2ND FLOOR; BATHROOM	Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	150	SF
044		CARPET OVER FABRIC FLOORING	#4 FINISHING; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	200	SF
045		9"x9" GREEN VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	100	SF
046		12"x12" GREEN VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	100	SF
047		2" BROWN COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
048		BLACK RUBBER WITH MASTIC & FOAM OVER SHEET VINYL WITH CREAM MASTIC	PAPER MACHINE #4; 2ND FLOOR; NW EXTERIOR LAB	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	400	SF
049		6" BROWN COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	~~75~~	LF
050		BLACK FIBER INSULATION WITH BLACK FELT		Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	15	LF
051		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	600	SF
052		BUILT-UP ROOFING MATERIAL	; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	400	SF
053		TAN ROOFING CAULK WITH SILVER PAINT		Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	20	LF
054		2x2-PATTERNED 4'x2' DROP CEILING PANEL	#4 FINISHING; 1ST FLOOR; OFFICE	Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	400	SF
055		TAN SHEET VINYL FLOOR WITH TAN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	20	SF
056		INSULATION WITH PAPER BACKING		Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	1,000	SF

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
057		FELT CLOTH	DIG - EXTERIOR (EAST)	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	200	SF
058		TERRACOTTA TILE WITH WHITE GROUT	FORMER TANK EAST OF DIG	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	900	SF
059		TRANSITE SIDING	SULPHITE PLANT; EAST EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
060		SILVER PAINT	SULPHITE PLANT; EXT SPHERE TANK	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
061		TAN SHEET VINYL FLOORING WITH CREAM MASTIC	WELD SHOP OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G (F) P	60	SF
062	3	DRYWALL WITH WALL TEXTURE		(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	350	SF
063	3			(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	RE: 062	
064	3			(Surf.) | Misc. | TSI	(Y) | N	(G) | F | P	RE: 062	
065		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G (F) P	350	SF
066		INSULATION WITH PAPER	RECEIVING & STORE ROOM	Surf. | Misc. | (TSI)	(Y) | N	(G) | F | P	1,000	SF
067		12" x 12" TAN VFT WITH ORANGE MASTIC	RECEIVING & STORE ROOM OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	300	SF
068		4" GRAY COVE BASE		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	70	SF
069		12" x 12" WHITE DOT CEILING TILE WITH TAN DOTS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	300	SF
070		CMU BLOCK GROUT	RECEIVING & STORE ROOM	Surf. | (Misc.) | TSI	Y | (N)	G (F) P		

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CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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071		CEILING FIREPROOFING DEBRIS	MAINTENANCE SHOP	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
072		12" x 12" BLUE & WHITE VFT WITH TAN MASTIC	MILL OFFICES, 2ND FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	350	SF
073		4" GRAY COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	LF
074		4' x 2' D&F CEILING PANEL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	350	SF
075		12" x 12" GRAY VFT WITH MASTIC & BLACK BACKING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	350	SF
076		4" BLACK COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	LF
077		4" TAN COVE WITH CREAM MASTIC	; 3RD FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1,000	LF
078		4" GRAY COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	800	LF
079		12" x 12" BLUE VFT WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	650	SF
080		BLUE CARPET WITH CREAM MASTIC & GRAY LEVELER		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	1,200	SF
081		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
082		4' x 2' D&F DROP CEILING PANEL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	1,500	SF
083		WHITE CEMENTITIOUS WALL PANEL WITH BROWN MASTIC	; MEN'S RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
084		4" BLACK COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	425	LF

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Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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085		4" BROWN COVE WITH BROWN MASTIC	MILL OFFICES; 3RD FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	600	LF
086		4" LIGHT GRAY COVE WITH TAN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | F | P	200	LF
087		12" X 12" POT CEILING TILE WITH BLACK MASTIC DOTS		Surf. | (Misc) | TSI	Y | (N)	G | F | P	350	SF
088		~~YELLOW~~ 4'x2' CEILING PANEL YELLOW WITH WHITE LAYER		Surf. | (Misc) | TSI	Y | (N)	G | F | P	800	SF
089		12" X 12" BROWN VFT WITH BLACK MASTIC	; ; WESTERN OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	1,300	SF
090		GRAY CARPET WITH CREAM MASTIC OVER TAN VFT WITH BLACK MASTIC	; NORTH OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	250	SF
091		DARK GRAY CARPET WITH CREAM MASTIC	; NORTH OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	160	SF
092		12" X 12" TAN VFT WITH BLACK MASTIC	; EASTERN OFFICES	Surf. | (Misc) | TSI	Y | (N)	G | F | P	720	SF
093		RED EPOXY FLOORING WITH CREAM MASTIC	; BREAK ROOM	Surf. | Misc. | TSI	Y | (N)	G | F | P	800	SF
094		2" X 2" TAN CERAMIC TILE WITH GRAY GROUT & LEVELING	; LOCKER ROOM	Surf. | (Misc) | TSI	Y | (N)	G | F | P	150	SF
095		WHITE CERAMIC COVE BASE		Surf. | (Misc) | TSI	Y | (N)	G | F | P	80	LF
096		GREEN EPOXY FLOORING WITH CREAM MASTIC	; STORE ROOM	Surf. | (Misc) | TSI	Y | (N)	G | F | P	100	SF
097	4	WALL TEXTURE ASSOCIATED WITH OFFICE DRYWALL		Surf. | Misc. | TSI	Y | N	G | F | P	<1000	SF
098	4			Surf. | Misc. | TSI	Y | N	G | F | P	RE 097	

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
099	4	WALL TEXTURE ASSOCIATED WITH OFFICE DRYWALL	MILL OFFICES; 3RD FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 097	
100		BUILT-UP ROOFING	; 5TH FLOOR; ROOF	Surf. | Misc. | TSI	Y | N	G | F | P		
101		TEXTURED VINYL SHEET FLOORING WITH CREAM MASTIC	; 5TH FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	550	SF
102	5	ORANGE PEEL DRYWALL TEXTURE		Surf. | Misc. | TSI	Y | N	G | F | P	5,250	SF
103	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
104	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
105	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
106	5			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 102	
107		WHITE FRP WITH MASTIC	; RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	150	SF
108		LAMINATE COUNTERTOP	; BREAK AREA	Surf. | Misc. | TSI	Y | N	G | F | P	20	SF
109		WHITE WALL PANEL WITH BROWN MASTIC	; 4TH FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	480	SF
110		RED SHEET VINYL WITH CREAM MASTIC		Surf. | Misc. | TSI	Y | N	G | F | P	275	SF
111		12" X 12" GRAY VFT WITH TAN MASTIC	TMP REFINER LINES; 2ND STORY; CONTROL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P	405	SF
112		4" GRAY COVE WITH CREAM		Surf. | Misc. | TSI	Y | N	G | F | P	84	LF

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113		RESIDUAL 12"x12" DARK TAN VFT WITH BLACK MASTIC	TMP REFINER LINES; 2ND FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	<10	SF
114		YELLOW & BLACK SEALANT ON EXT. METAL PLATES	TMP REFINER LINES; EXTERIOR - EAST	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	<50	SF
115		TRANSITE SIDING	TMP REJECT REFINING & SCREENING - EXTERIOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
116		BLACK FIBEROUS DEBRIS	TMP REJECT; 2ND FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	5	SF
117		4" GRAY COVE WITH BROWN MASTIC	TMP AREA; 1ST FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
118		4" BLUE COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	80	LF
119		4'x2' D&F DROP CEILING PANELS		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	770	SF
120		GRAY FLOOR LEVELER		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	770	SF
121		GRAY LAMINATE COUNTERTOP	TMP LAB; 1ST FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | P	40	SF
122		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | P	1,100	SF
123		TERRACOTTA TILE	PAPER MACHINE #1; 1ST FLOOR; TANK PIT	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
124		GRAY WALL [illegible] MASTIC	PAPER MACHINE #1; 1ST FLOOR; EXT OF N. CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	7	LF
125		12"x12" WHITE DOT CEILING TILE WITH BROWN MASTIC DOTS		Surf. | (Misc.) | TSI	(Y) | N	G | F | P	125	SF
126		YELLOW WITH WHITE PAPER INSULATION		Surf. | Misc. | (TSI)	(Y) | N	G | F | P	10	LF

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803160

APEX

ASBESTOS INSPECTION FORM

#511803160

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
127		PINK CEILING INSULATION WITH BROWN PAPER	PAPER MACHINE #1, 1ST FLOOR, EXT OF NORTHERN CONTROL ROOM	Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	125	SF
128		GRAY CARPET WITH TAN MASTIC	PAPER MACHINE #1, 1ST FLOOR, "MICROWAVE" ROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	250	SF
129		TRANSITE SIDING	PAPER MACHINE #1, EXTERIOR - SOUTH	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
130		BLACK DOT PATTERN VFT WITH WHITE MASTIC	PAPER MACHINE #1, 1ST FLOOR, RAISED OFFICE	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	SF
131		4" BLACK COVE WITH WHITE MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	44	LF
132		WHITE FRP WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	480	SF
133		4'x2' DOT DROP CEILING PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	100	SF
134	6	SKIM COAT OVER CMU	PAPER MACHINE #1, 1ST FLOOR	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
135	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
136	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
137	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
138	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
139	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
140	6			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		

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Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
141		TERRACOTTA TILE	PAPER MACHINE #1; 1ST FLOOR; FILTRATE TANK	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
142		CARPET OVER CARPET	PAPER MACHINE #1; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	200	SF
143		WHITE EXTERIOR CAULKING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	250	LF
144		BUILT-UP ROOFING		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
145		9"x9" GREEN VFT WITH BLACK MASTIC	SULPHITE PLANT; 3RD STORY; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	450	SF
146		BROWN MASTIC ON WALL FROM REMOVE COVE		Surf. | (Misc.) | TSI	Y | N	G | F | (P)	100	LF
147		CMU BLOCK GROUT		Surf. | (Misc.) | TSI	Y | N	G | (F) | P		
148	7	SKIM COAT OVER CMU BLOCKS		(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	<1,000	SF
149	7			(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	RE: 148	
150	7			(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P	RE: 148	
151		C.A.B	SULPHITE PLANT; 4TH FLOOR	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
152		FIBER WALL PANEL		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	200	SF
153		C.A.B PANEL WITH BLACK MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
154		ASPHALTIC STAIR TREAD	SULPHITE PLANT; STAIRS 4TH STORY TO ROOF	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	28	SF

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ASBESTOS INSPECTION FORM #511803160

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
155		BUILT-UP SILVER ROOFING	SULPHITE PLANT; ROOF	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)		
156		CONCRETE BLOCK WITH GRAY GROUT	TMP HI-D TANK	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P		
157		GRAY SEALANT ON HVAC DUCT	RECOVERY BOILER; BASEMENT; MEN'S LOCKERROOM	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	195	LF
158		FRP WITH CREAM MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	800	SF
159		BLUE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	45	SF
160		YELLOW FIBER INSULATION WITH BLACK "JOHN-MANVILLE" PAPER	BOILER PLANT; BASEMENT; ADJ. TO SODIUM HYDROSULFIDE TANKS	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	350	SF
161		BLACK ASPHALTIC FELT		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	350	SF
162		12" x 12" WHITE D&F CEILING TILES WITH TAN MASTIC DOTS	PIPE SHOP; 1ST FLOOR;	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	100	SF
163		BLUE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	20	SF
164		CMU BLOCK GROUT		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P		
165		WHITE SINK UNDERCOATING	PIPE SHOP; 2ND FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	1 SINK	
166		CERAMIC ELECT. INSULATOR	ENVIRONMENTAL LAB; WESTERN EXTERIOR	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	1 EACH	
167		12" x 12" CREAM VFT WITH BROWN MASTIC	MILL 0 CONFERENCE ROOM; NURSE'S OFFICE	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	2,200	SF
168		4" BROWN COVE BASE WITH WHITE MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	200	LF

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ASBESTOS INSPECTION FORM #511803160

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
169		WOOD WALL PANEL WITH ADHESIVE	MILL & CONFERENCE ROOM, 1ST FLOOR	Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	2,000	SF
170		WHITE LAMINATE COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	20	SF
171		4'x2' D&F DROP CEILING PANEL		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	1,200	SF
172		9"x9" GREEN VFT WITH BLACK MASTIC	ENVIRONMENTAL LAB, 1ST FLOOR	Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	250	SF
173		9"x9" BROWN VFT WITH BLACK MASTIC		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	50	SF
174		4'x2' DOT DROP CEILING PANEL		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	150	SF
175		12"x12" WHITE DOT CEILING TILES WITH GRAY MASTIC DOTS		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	400	SF
176		BLACK SINK UNDERCOATING		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	6 SINKS	
177		4" BLACK COVE WITH BROWN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	300	LF
178		BLUE PLASTIC WALL PANEL WITH BROWN MASTIC		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	1,100	SF
179		BLACK COUNTERTOP		Surf. | (Misc) | TSI	Y | (N)	G | (F) | P	350	SF
180		GREEN SHEET VINYL WITH MASTIC	RAW MATERIAL STORAGE, 2ND STORY	Surf. | (Misc) | TSI	Y | (N)	G | F | (P)	100	SF
181		BLACK FIBER PANEL FLOORING		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	275	SF
182		BEIGE SHEET VINYL FLOORING WITH MASTIC		Surf. | (Misc) | TSI	(Y) | N	G | F | (P)	2,250	SF

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
183		4" BROWN COVE WITH TAN MASTIC	RAW MATERIAL STORAGE; 2ND FLOOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	400	LF
184		FIBEROUS 24" DIA. PLASTIC PIPE		Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P	130	LF
185		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
186		WHITE WINDOW GLAZING	RAW MATERIAL STORAGE; 2ND STORY - EXTERIOR	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	4,800	LF
187		TSI PIPE WRAP - FIBER WITH PAPER	SULPHITE PLANT; SE EXTERIOR	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	3	LF
188		12" DIA. FIBER INSULATION WITH PAPER	CITY WATER PIPE - SOUTH OF SULPHITE PLANT	Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	50	LF
189	8	9" HARD PIPE INSULATION - WHITE UNDER METAL	PIPE DEBRIS PILE - SOUTH OF SULPHITE PLANT	Surf. | Misc. | (TSI)	Y | N	G | F | P	15	LF
190	8			Surf. | Misc. | (TSI)	Y | N	G | F | P	RE: 189	
191	8			Surf. | Misc. | (TSI)	Y | N	G | F | P	RE: 189	
192	9	WHITE FIBER INSULATION	AUTO SHOP - SOUTHERN WALL	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	2,200	SF
193	9		AUTO SHOP - CEILING	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	RE: 192	
194	9		AUTO SHOP - FLOOR DEBRIS	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)	RE: 192	
195		BLACK FIBEROUS SHEET DEBRIS	DEINK HI-D TANK AREA	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	15	SF
196		RED BRICK WITH GRAY MORTAR		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	24	SF

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APEX

ASBESTOS INSPECTIC ORM

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CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
197		GRAY GROUT ASSOCIATED WITH ROCK WALL	[redacted] DEINK HI-D TANK AREA	Surf. (Misc.) TSI	Y (N)	G (F) P		
198		RED 12"x12" BRICKS WITH WHITE GROUT	BUTLER BUILDING	Surf. (Misc.) TSI	Y (N)	G (F) P	130	SF
199	10	GRAY SKIM COAT OVER BRICKS		Surf. (Misc.) TSI	(Y) N	G (F) P	130	SF
200	10			Surf. (Misc.) TSI	(Y) N	G (F) P	RE: 199	
201	10			Surf. (Misc.) TSI	(Y) N	G (F) P	RE: 199	
202		ASPHALTIC DECKING	PAPER MACHINE #2 DECK	Surf. (Misc.) TSI	(Y) N	G (F) P	900	SF
203		GRAY FIBEROUS CLOTH	PAPER MACHINE # 2	Surf. (Misc.) TSI	(Y) N	G (F) P	50	SF
204		YELLOW WALL MASTIC		Surf. (Misc.) TSI	(Y) N	G (F) P	10	LF
205		BLUE LAMINATE COUNTERTOP	MILL D WAREHOUSE; 1ST FLOOR; RESTROOMS	Surf. (Misc.) TSI	Y (N)	G (F) P	20	SF
206		WHITE SINK UNDERCOATING		Surf. (Misc.) TSI	(Y) N	G (F) P	7 SINKS	
207		WHITE FRP		Surf. (Misc.) TSI	Y (N)	G (F) P	360	SF
208		4x2 D&F DROP CEILING PANEL		Surf. (Misc.) TSI	Y (N)	G (F) P	84	SF
209		4" CREAM COVE WITH CREAM MASTIC		Surf. (Misc.) TSI	Y (N)	G (F) P	40	LF
210		YELLOW PIPE WRAP WITH PAPER	MILL D WAREHOUSE; 1ST FLOOR; SUPPLY ROOM	Surf. (Misc.) (TSI)	(Y) N	G (F) P	1	LF

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211		WHITE CLOTH GASKET	MILL D WAREHOUSE SUPPLY ROOM	Surf. | Misc. (TSI)	(Y) N	G | (F) | P	2 EACH	
212		GREEN 9x9 VFT w/ BROWN MASTIC	MILL D; PAINT ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	60	SF
213		WHITE FIBEROUS MATERIAL w/ ADHESIVE	MILL D; RAIL CAR LOADING DOC	Surf. | (Misc.) | TSI	(Y) N	G | (F) | P	1	PALLET
214		BROWN FELT PAPER	MILL D WAREHOUSE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
215		WHITE WINDOW GLAZING	↓	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	84	LF
216		12"x12" BLUE VFT w/ CREAM MASTIC	PAPER MACHINE #3, NORTHERN CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	225	SF
217	11	WHITE KNOCK-DOWN TEXTURE OVER DRYWALL	MILL D; 2ND FLOOR LANDING	(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	144	SF
218	11	↓	↓	(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	RE: 217	
219	11			(Surf.) | Misc. | TSI	(Y) N	(G) | F | P	RE: 217	
220		BUILT-UP ROOFING w/ SILVER PAINT	MILL D; ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
221		BLACK FIBER PADDING	PAPER MACHINE #3; EXTERIOR - RIVERSIDE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	5 EACH	
222		TERRACOTTA TILE w/ BLACK GROUT DEBRIS	↓	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	10	SF
223		BLACK MASTIC DOT ASSOCIATED WITH WALL MIRRORS	FITNESS CENTER	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	70	SF
224		BLUE CARPET w/ WALL (TAN) ADHESIVE	↓	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	36	SF

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City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

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225		JOINT COMPOUND	FITNESS CENTER	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
226		YELLOW INSULATION WITH WHITE LAYER	WATER FILTER PLANT, 3RD FLOOR; OFFICE	Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P	6,400	SF
227		TRANSITE SIDING		Surf. | Misc. | TSI	Y | N	G | F | P		
228		WINDOW GLAZING		Surf. | Misc. | TSI	Y | N	G | F | P	340	LF
229		DRYWALL WITH JOINT COMPOUND		Surf. | Misc. | TSI	Y | N	G | F | P		
230		ASPHALT PAPER	WATER FILTER PLANT; 3RD FLOOR; RESTROOM	Surf. | Misc. | TSI	Y | N	G | F | P	10	LF
231		CAULKING BEHIND TRANSITE	WATER FILTER PLANT; 2ND STORY - EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P	15	LF
232		FIBEROUS PIPE ELBOW WRAP	WATER FILTER PLANT; 2ND STORY - COVERED EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P	1 ELBOW	
233		CMU BLOCK & GROUT	MILLWRIGHT SHOP; OFFICE	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
234		CEMENTICOUS COVE WITH CREAM MASTIC		Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P	60	LF
235		BLUE LAMINATE COUNTERTOP	; RESTROOM	Surf. | (Misc.) | TSI	Y (N)	G | (F) | P	25	SF
236		4'x2' D&F DRYWALL PANEL WITH BROWN MASTIC	; OFFICE	Surf. | Misc. | TSI	Y | N	G | F | P	80	SF
237		TRANSITE SIDING	PAPER MACHINE #3; 1ST FLOOR; ELECTRICAL ROOM	Surf. | Misc. | TSI	Y | N	G | F | P		
238		C.A.B.		Surf. | Misc. | TSI	Y | N	G | F | P		

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

#511803234

PHONE:
FAX:

Company Name: Apex Companies, LLC		**EMSL Customer ID:**	
Street: 600 Stewart Street, Suite 400		**City:** Seattle	**State/Province:** WA
Zip/Postal Code: 98101	**Country:** USA	**Telephone #:** 206-399-5267	**Fax #:**
Report To (Name): Dan Fitzgibbons		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: Dan.Fitzgibbons@apexcos.com		**Purchase Order:**	
Project Name/Number: 320002449		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: ~~WA~~ OR		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM EPA 600/R-93/116 with milling prep (<1%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
- ☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: John Hathaway/Chris Clough

Samplers Signature: John Hathaway

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	See Attached Bulk Sample Logs		
	(3 bags of samples)		
	Sample logs will be emailed		

Client Sample # (s): - **Total # of Samples:**

Relinquished (Client): John Hathaway **Date:** 10/24/18 **Time:**

Received (Lab): [signature] **Date:** 10/25/18 **Time:** ~~8:00~~ DB

Comments/Special Instructions:

Page 1 of _____ pages

APEX

ASBESTOS INSPECTION FORM

#5118032234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
239		DRYWALL WITH JOINT COMPOUND (BLOWN)	TMP REFINER LINES; 4TH STORY ANNEX	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	900	SF
240		TAN DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	300	SF
241		ORANGE DOOR/SIGN MASTIC		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	4	SF
242		ORANGE FOAM INSULATION WITH FOIL BACKER		Surf. | (Misc.) | TSI	(Y) | N	G | (F) | P	1,440	SF
243		WHITE GASKET DEBRIS	TMP REFINER LINES; EXT. DOCK - EAST	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	1 BROKEN PIECE	
244		BLACK SEAL		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	25	LF
245		BLACK ASPHALTIC PIPE COATING	ADJ. TO HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	8	SF
246		TEXTURE ON CEMENTITIOUS BLOCKS FOR TANK	HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
247		WHITE WITH BLACK WALL MASTIC	ADJ TO HI-D TANK	Surf. | (Misc.) | TSI	Y | (N)	G | F | P	2	SF
248		TEXTURE ON CEMENTITIOUS BLOCKS FOR TANK	HI-D TANK	(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
249				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
250				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
251				(Surf.) | (Misc.) | TSI	Y | (N)	G | (F) | P		
252		WHITE/GRAY FIRE BRICK	PAPER MACHINE #3; BASEMENT	(Surf.) | (Misc.) | TSI	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 5118032234

APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx Quantity #	Observations: Approx Quantity SF/LF
253		WHITE FIRE BRICK	PAPER MACHINE #3; BASEMENT	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
254		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
255		GRAY METALIC BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
256		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
257		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
258		TAN-RED FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
259		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
260		GRAY METALIC BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
261		TAN-RED FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
262		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
263		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
264		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
265		BROWN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
266		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		

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ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
267		CREAM FIRE BRICK	PAPER MACHINE #3; BASEMENT	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
268		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
269		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
270		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
271		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
272		TAN FIRE BRICK		Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
273		ORANGE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
274		GRAY FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
275		YELLOW FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
276		TAN FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
277		ORANGE FIRE BRICK		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
278		WHITE FIRE BRICK		Surf. | (Misc.) | TSI	Y (N)	G | F | (P)		
279		TRANSITE SIDING	GARAGE ADJ. TO GUARD SHACK	Surf | (Misc.) | TSI	(Y) | N	G | F | P		
280		4" GREEN COVE WITH BROWN MASTIC		Surf. | Misc. | TSI	Y | N	G | F | (P)		

Sampling Date:

Collected by (print):

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTIC ORM

CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJEC	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
281		4" GRAY COVE ~~TAN~~ TAN MASTIC WITH	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; ENTRY	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	350	LF
282		4" BLACK COVE WITH BROWN MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; HALLWAY	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	200	LF
283		6" GRAY COVE WITH WHITE MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; RESTROOM	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)	180	LF
284		4" BROWN COVE WITH BROWN MASTIC	OFFICE ADJ TO GUARD SHACK; 1ST FLOOR; SIDE ROOM	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)	50	LF
285		4" TAN ~~MAS~~ COVE WITH BROWN MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)	50	LF
286		12"x12" WHITE DOT CEILING TILE	OFFICE ADJ TO GUARD SHACK	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
287		4'x2' WHITE D&F DROP CEILING PANEL		Surf. | (Misc.) | TSI	(Y) N	G | F (P)		
288		9"x9" WHITE VFT WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
289		12"x12" BEIGE VFT WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)		
290		GRAY SHEET VINYL WITH BLACK MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P		
291		BLUE CARPET WITH YELLOW MASTIC		Surf. | (Misc.) | TSI	Y | (N)	G | F (P)		
292		BROWN WALL MASTIC WITH CORK BOARD		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	36 PCTS	
293		DRYWALL WITH JOINT COMPOUND		Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
294		KNOCKDOWN WALL TEXTURE ON DRYWALL		(Surf.) | Misc. | TSI	(Y) | N	G | (F) | P		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #511803234

2 of

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
295		KNOCKDOWN WALL TEXTURE ON DRYWALL	OFFICE ADJ TO GUARD SHACK	Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
296		↓	↓	Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
297		KNOCKDOWN WALL TEXTURE ON WOOD		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
298		↓		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
299		↓		Surf. | Misc. | TSI	(Y) | N	G | (F) | P		
300		PINK INSULATION WITH BLACK PAPER BACKING	↓	Surf. | Misc. | TSI	Y | N	G | F | P		
301		BEIGE SHEET VINYL WITH YELLOW MASTIC	GUARD SHACK	Surf. | Misc. | TSI	Y | N	G | F | P		
302		WHITE CEILING PANEL	↓	Surf. | Misc. | TSI	Y | N	G | F | P		
303		12"x12" WHITE ~~VFT~~ WITH BROWN	PORTABLE OFFICE (NORTH OF GUARD SHACK)	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	50	SF
304		12"x12" DARK GRAY VFT WITH TAN MASTIC	↓	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	50	SF
305		WHITE WINDOW CAULKING	↓	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)	98	LF
306		GRAY STAIR TREAD ~~WITH~~ CREAM MASTIC	MILL OFFICES; STAIRS	Surf. | (Misc.) | TSI	Y | (N)	G | (F) | P	21	STAIRS
307		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; A BOILER; WEST SIDE	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		
308		↓	BOILER PLANT; 1ST FLOOR; A BOILER; NORTH SIDE	Surf. | Misc. | TSI	(Y) | N	G | F | (P)		

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APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
309		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; A BOILER EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
310			BOILER PLANT; 1ST FLOOR; B BOILER WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
311			BOILER PLANT; 1ST FLOOR; B BOILER NORTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
312			BOILER PLANT; 1ST FLOOR; B BOILER, EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
313			BOILER PLANT; 1ST FLOOR; C BOILER EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
314			BOILER PLANT; 1ST FLOOR; C BOILER SOUTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
315			BOILER PLANT; 1ST FLOOR; C BOILER; WEST ~~NORTH~~ SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
316			BOILER PLANT; 1ST FLOOR; D BOILER; NORTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
317			BOILER PLANT; 1ST FLOOR; D BOILER WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
318			BOILER PLANT; 1ST FLOOR; D BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
319			BOILER PLANT; 1ST FLOOR; GREEN BOILER; WEST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
320			BOILER PLANT; 1ST FLOOR; GREEN BOILER; SOUTH SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
321			BOILER PLANT; 1ST FLOOR; GREEN BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		
322			BOILER PLANT; 1ST FLOOR; SILVER BOILER; EAST SIDE	(Surf.) Misc. | TSI	(Y) N	G | F | (P)		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #5118032 34

CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJECT	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
323		SILVER PAINT ON METAL BOILER	BOILER PLANT; 1ST FLOOR; SILVER BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
324			BOILER PLANT; 1ST FLOOR; SILVER PAINT; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
325		GRAY SEALANT @ BOILER HATCH	BOILER PLANT; 1ST FLOOR; A BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	40	LF
326			BOILER PLANT; 1ST FLOOR; B BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 325	
327			BOILER PLANT; 1ST FLOOR; C BOILER; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 325	
328		BLACK SEALANT @ BOILER HATCH	BOILER PLANT; 1ST FLOOR; A BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	32	LF
329			BOILER PLANT; 1ST FLOOR; D BOILER; WEST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 328	
330			BOILER PLANT; 1ST FLOOR; C BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 328	
331		GRAY CLOTH GASKET	BOILER PLANT; 1ST FLOOR; C BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P	1	GASKET
332				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 331	
333				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 331	
334		WHITE CAULKING WITH INSULATION	BOILER PLANT; 1ST FLOOR; A BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
335			BOILER PLANT; 1ST FLOOR; C BOILER; SOUTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
336			BOILER PLANT; 1ST FLOOR; D BOILER; NORTH SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 5118032 34

APEX

ASBESTOS INSPECTION FORM #511803234

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
337		RED BOILER INSULATION	BOILER PLANT; 1ST FLOOR; A BOILER B; NORTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
338			BOILER PLANT; 1ST FLOOR; B BOILER B; NORTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
339			BOILER PLANT; 1ST FLOOR; D BOILER; SOUTH SIDE	Surf. | Misc. (TSI)	(Y) N	G | F (P)		
340		WHITE CLOTH TAPE @ WOOD HATCH COVER	BOILER PLANT; 1ST FLOOR; D BOILER; EAST SIDE	Surf. (Misc.) | TSI	Y | (N)	(G) | F | P		
341				Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
342				Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
343		TSI PIPE INSULATION DEBRIS (SPILL ON GROUND)	BOILER PLANT; ADJ. TO SOUTH SIDE OF GREEN BOILER	Surf. | Misc. | TSI	Y | N	G | F | P		
344		TSI INSULATION DEBRIS (SPILL ON GROUND)	RECOVERY BOILER; 1ST FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P		
345				Surf. | Misc. | TSI	Y | N	G | F | P		
346				Surf. | Misc. | TSI	Y | N	G | F | P		
347		JACKET INSULATION WITH WHITE INSULATION	BOILER PLANT; 1ST FLOOR; GREEN BOILER; EAST SIDE	Surf. | Misc. | TSI	Y | N	G | F | P		
348				Surf. | Misc. | TSI	Y | N	G | F | P		
349				Surf. | Misc. | TSI	Y | N	G | F | P		
350		PIPE HANGER FITTINGS INSULATION HARD; OFFWHITE	BOILER PLANT · 1ST FLOOR; SILVER BOILER; EAST SIDE	Surf. | Misc. (TSI)	(Y) | N	G | F (P)		

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

OrderID: 511803234

APEX

ASBESTOS INSPECTION FORM #5118032 34

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture; etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity If	Observations: Approx. Quantity SF/LF
351		PIPE INSULATION (HARD; OFFWHITE)	BOILER PLANT; 1ST FLOOR; GREEN BOILER; SOUTH SIDE	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
352				Surf. | Misc. | TSI	Y | N	G | F | P		
353		BOILER INSULATION (WHITE-CHALK-LIKE)	BOILER PLANT; 1ST FLOOR; TM BOILER; EAST SIDE	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
354				Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P		
355				Surf. | Misc. | (TSI)	(Y) | N	G | (F) | P		
356		FIRE BRICK - GRAY	BOILER PLANT; 1ST FLOOR; GREEN BOILER	Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
357				Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
358				Surf. | Misc. | (TSI)	Y | (N)	G | (F) | P		
359		BOILER DOOR INSULATION	BOILER PLANT; BASEMENT; SILVER BOILER	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
360				Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
361				Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
362		BOILER WALL PANEL (C.A.B.)		Surf. | (Misc.) | (TSI)	(Y) | N	G | F | (P)		
363				Surf. | (Misc.) | (TSI)	(Y) | N	G | F | (P)		
364				Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

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ASBESTOS INSPECTION FORM #511803234

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Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
365		RED BOILER INSULATION (BEHIND C.A.B.)	BOILER PLANT; BASEMENT; SILVER BOILER	Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
366				Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
367				Surf. | Misc. (TSI)	(Y) N	G | F | (P)		
368		C.A.B. WALL PANELS	RECOVERY BOILER; 1ST FLOOR; CONTROL ROOM	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
369				Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
370				Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
371		BOILER INSULATION	RECOVERY BOILER; 1ST FLOOR	Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
372				Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
373				Surf. | Misc. | (TSI)	(Y) N	G | F | (P)		
374		SILVER PAINT ON METAL BOILER		(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
375				(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
376				(Surf.) | Misc. | TSI	(Y) N	G | F | (P)		
377		TRANSITE SIDING	MAINTENANCE SHOP - SOUTHERN EXTERIOR	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		
378		TRANSITE SIDING	BOILER PLANT; 1ST FLOOR	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)		

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ASBESTOS INSPECTIC ORM #511803234

Page __ of __

CLIENT		SITE		PROJECT	
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Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
379		TRANSITE SIDING	SOUTH SUBSTATION; 2ND FLOOR, EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
380		TRANSITE SIDING	PAPERMACHINE #3, 1ST FLOOR, WEST - EXTERIOR	Surf. | Misc. | TSI	Y | N	G | F | P		
381		PIPE INSULATION - 9" PIPE ELBOW	CARPENTER SHOP; BOX A	Surf. | Misc. | (TSI)	(Y) | N	G | F | (P)		
382				Surf. | Misc. (TSI)	Y | N	G | F | P		
383				Surf. | Misc. (TSI)	Y | N	G | F | P		
384		9" ELBOW - MIXED WITH FIBERGLASS	; BOX B	Surf. | Misc. (TSI)	Y | N	G | F | P		
385				Surf. | Misc. (TSI)	Y | N	G | F | P		
386				Surf. | Misc. (TSI)	Y | N	G | F | P		
387		3.5" PIPE INSULATION:	; BOX C	Surf. | Misc. (TSI)	Y | N	G | F | P		
388				Surf. | Misc. (TSI)	Y | N	G | F | P		
389				Surf. | Misc. (TSI)	Y | N	G | F | P		
390		4" PIPE INSULATION WITH FABRIC WRAP	BOX D	Surf. | Misc. (TSI)	Y | N	G | F | P		
391			; LONE PIPE RUN	Surf. | Misc. (TSI)	Y | N	G | F | P		
392			BOX E	Surf. | Misc. (TSI)	Y | N	G | F | P		

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ASBESTOS INSPECTION FORM #511803234

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CLIENT	Name:	Apex Companies, LLC	SITE	Site Name:	Former Blue Heron Mill	PROJECT	Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
393		BLOCK INSULATION	CARPENTER SHOP; BOX F	Surf. | Misc. (TSI)	(Y) | N	G (F) P	8 BOXES	
394			; BOX G	Surf. | Misc. (TSI)	(Y) | N	G (F) P	RE: 393	
395			; BOX H	Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 393	
396			; BOX I	Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	1 BOX	
397				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 396	
398				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 396	
399		4" PIPE INSL.	; BOX J	Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	1 BOX	
400				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE: 399	
401				Surf. | Misc. (TSI)	(Y) | N	G | F | (P)	RE 399	
402		1/2" PIPE INSUL WITH FABRIC WRAP	; BOX K	Surf. | Misc. (TSI)	(Y) | N	G (F) P	1 BOX	
403				Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 402	
404				Surf. | Misc. (TSI)	(Y) | N	G | (F) | P	RE: 402	
405		1" PIPE INSL.	; BOX L	Surf. | Misc. | TSI	Y | N	G | (F) | P	1 BOX	
406				Surf. | Misc. | TSI	Y | N	G | (F) | P	RE 405	

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ASBESTOS INSPECTIC ORM

#5118032 34

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CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
407		1" PIPE INSUL	CARPENTER SHOP; BOX L	Surf. | Misc. | TSI	Y | N	G | F | P	RE 405	
408		1.5" PIPE INSUL.	; BOX M	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
409				Surf. | Misc. | TSI	Y | N	G | F | P	RE 408	
410				Surf. | Misc. | TSI	Y | N	G | F | P	RE 408	
411		12" ½ PIPE INSUL	; BOX N	Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
412		12" (FULL) PIPE INSUL WITH FIBER WRAP		Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
413		4.5" PIPE WITH METAL WRAP		Surf. | Misc. | TSI	Y | N	G | F | P	3 FEET	
414		4.5" PIPE ELBOWS WITH MIXED DEBRIS	; BOX O	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
415				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 414	
416				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 414	
417		3" PIPE INSULATION	; BOX P	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
418				Surf. | Misc. | TSI	Y | N	G | F | P	RE 417	
419				Surf. | Misc. | TSI	Y | N	G | F | P	RE 417	
420		12" PIPE INSUL. (BROKEN)	; BOX Q	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	

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ASBESTOS INSPECTION FORM

#511803234

Page ___ of ___

CLIENT			SITE			PROJECT		
	Name:	Apex Companies, LLC		Site Name:	Former Blue Heron Mill		Project #:	320002449-00, Task 003
	Address:	3015 SW 1st Avenue		Address:	Main & McLoughlin		Apex Manager:	Dan Fitzgibbons
	City, State, Zip:	Portland, OR 97201		City, State, Zip:	Oregon City, OR		Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
421		12" PIPE INSUL. (BROKEN)	CARPENTER SHOP; BOX Q	Surf. | Misc. | (TSI)	(Y) N	G | F (P)	RE: 420	
422				Surf. | Misc. (TSI)	(Y) N	G | F (P)	RE: 420	
423		1/2" PIPE INSUL.	; BOX R	Surf. | Misc. (TSI)	(Y) N	G | (F) P	1 BOX	
424				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 424	
425				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 424	
426		1" PIPE INSUL.	; BOX S	Surf. | Misc. (TSI)	(Y) N	G | (F) P	1 BOX	
427				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 426	
428				Surf. | Misc. (TSI)	(Y) N	G | (F) P	RE: 426	
429		1.5" PIPE INSUL. WITH CLOTH WRAP.	; BOX T	Surf. | Misc. (TSI)	(Y) N	G | F | (P)	1 BOX	
430				Surf. | Misc. (TSI)	(Y) N	G | F (P)	RE: 429	
431				Surf. | Misc. (TSI)	(Y) N	G | F | (P)	RE 429	
432		WHITE POWDER IN 5GAL BUCKET		Surf. (Misc.) | TSI	(Y) N	G | F (P)	5 GAL.	
433		FINISHING CONCRETE POWDER SPILL		Surf. | (Misc.) | TSI	(Y) N	G | F (P)	50 LBS	
434		WHITE INSULATION SPILL		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	2 SF	

Sampling Date: | Collected by (print): | Inspector's Signature: | Inspector's License/Cert No.:

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ASBESTOS INSPECTION FORM #511803234

Page ___ of ___

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
435		12" PIPE INSULATION	CARPENTER SHOP; 1ST FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	1 BOX	
436				Surf. | Misc. | TSI	Y | N	G | F | P	RE: 435	
437			; SPILL ON FLOOR	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 435	
438		WHITE ROPE GASKET		Surf. | Misc. | TSI	Y | N	G | F | P	1 SPOOL.	
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:	Collected by (print):	Inspector's Signature:	Inspector's License/Cert No.:

OrderID: 511803234

OrderID: 511803406

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*:

#511803406

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: APEX COMPANIES LLC	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 600 STEWART STREET, SUITE 400	*Third Party Billing requires written authorization from third party*
City: SEATTLE **State/Province:** WA	**Zip/Postal Code:** 98101 **Country:** USA
Report To (Name): DAN FITZGIBBONS	**Telephone #:**
Email Address: dan.fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 24492000.002	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken: OREGON	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☒ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM – Bulk
☒ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

☒ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 11/8 & 11/9/2018

Samplers Name: CHRIS CLOUGH **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description

SEE SAMPLE LOG

Client Sample # (s): 439 - 469 **Total # of Samples:** 31

Relinquished (Client): **Date:** **Time:**

Received (Lab): **Date:** 11/14/18 **Time:** 8:23

Comments/Special Instructions: POSITIVE STOP EACH H.A. (A, B, C, OR D)

Controlled Document – Asbestos COC – R6 – 11/29/2012

Page 1 of 4 pages

APEX

ASBESTOS INSPECTION FORM

#511803406

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Condition (Good, Fair, Poor)	Approx. Quantity #	Approx. Quantity SF/LF
439		LIGHT GRAY WINDOW GLAZING		Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	<10	SF
440		BLACK FIBER PAPER		Surf. | (Misc.) | TSI	(Y) N	G | (F) | P	110	SF
441		PIPE VIB. PAD (BLACK)	ADJ. TO PAPERMACHINE #3, RIVER SIDE	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	5	EA
442		BLACK SEALANT	; TANK FOUNDATION	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	150	SF
443		BLACK GASKET	; TANK FOUNDATION	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	1	EACH
444		BLACK PIPE SEALANT	; UNDER	Surf. | (Misc.) | TSI	Y (N)	G | F | (P)	80	SF
445		GRAY PAINT ON CMU BLOCKS	OFFICE ADJ TO GUARD SHACK; EXT - EAST	Surf. | (Misc.) | TSI	(Y) N	G | F | (P)	1,135	SF
446		FIBER PIPE WRAP	WOOLEN MILL EXT - WEST	Surf. | (Misc.) | TSI	Y | (N)	(G) | F | P		
447	A	TANK MATERIAL	DEINK-HI-D TANK	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
448	A			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P		
449	B	TEXTURED COATING ON TANK	TANK ADJ TO P.M. #1	(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	1,260	SF
450	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	
451	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	
452	B			(Surf.) | Misc. | TSI	Y | (N)	G | (F) | P	RE: 449	

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

APEX

ASBESTOS INSPECTION FORM

#511803406

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Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
453	B	TEXTURED COATING ON TANK	TANK ADJ. TO P.M. #1	Surf. | Misc. | TSI	Y | N	G | F | P	RE: 449	
454	C	SKIM COAT ON CONCRETE.	PAPERMACHINE #1	Surf. | Misc. | TSI	Y | N	G | F | P		
455	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE: 454	
456	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
457	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
458	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
459	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
460	C			Surf. | Misc. | TSI	Y | N	G | F | P	RE 454	
461	D	SKIM COAT ON CONCRETE	RAW MATERIAL STORAGE	Surf. | Misc. | TSI	Y | N	G | F | P		
462	D			Surf. | Misc. | TSI	Y | N	G | F | P		
463	D			Surf. | Misc. | TSI	Y | N	G | F | P		
464	D			Surf. | Misc. | TSI	Y | N	G | F | P		
465	D			Surf. | Misc. | TSI	Y | N	G | F | P		
466	D			Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

APEX

ASBESTOS INSPECTIC ORM

#5 1 1 8 0 3 4 0 6

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample #	HA #	Material Type (Color, Texture, etc.)	Location (functional space, component/system)	Classification	Observations: Friable	Observations: Condition (Good, Fair, Poor)	Observations: Approx. Quantity #	Observations: Approx. Quantity SF/LF
467	D	SKIM COAT ON CONCRETE	RAW MATERIALS STORAGE	Surf. | Misc. | TSI	Y | (N)	G | (F) | P		
468		BLACK FELT PAPER	WELD SHOP – UNDER TRANSITE	Surf. | (Misc.) | TSI	(Y) | N	G | F | (P)		
469		CONCRETE TILE OVER BLUE FOAM, OVER RUBBLE W/ SEALANT OVER BUILT-UP ASPHALT ROOFING	PAPER MACHINE #7 – ROOF	Surf. | (Misc.) | TSI	Y | (N)	G | F | (P)		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		
				Surf. | Misc. | TSI	Y | N	G | F | P		

Sampling Date:

Collected by (print): CHRIS CLOUGH

Inspector's Signature:

Inspector's License/Cert No.:

OrderID: 511803406

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200613-0

EMSL Analytical, Inc.

Seattle, WA

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

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-10-01 through 2019-09-30

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
3317 3rd Avenue S, Suite D
Seattle, WA 98134
Ms. Lauren Kerber
Phone: 206-269-6310 Fax: 206-900-8789
Email: lkerber@emsl.com
http://www.emsl.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200613-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

APPENDIX B

LEAD PAINT CHIP LABORATORY ANALYTICAL RESULTS, ASSOCIATED CHAIN-OF-CUSTODY DOCUMENTS & LABORATORY CERTIFICATIONS

EMSL Analytical, Inc.
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Phone/Fax: (206) 269-6310 / (206) 900-8789
http://www.emsl.com seattlelab@emsl.com

EMSL Order: 511803254
CustomerID: APXW42
CustomerPO:
ProjectID:

Attn: **Dan Fitzgibbons**
Apex Companies, LLC
600 Stewart Street
Suite 400
Seattle, WA 98101

Phone: (206) 496-3897
Fax:
Received: 10/25/18 8:00 AM
Collected:

Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-01 *511803254-0001*	Site: Truck dump, SW ext Desc: White, metal, beam	10/31/2018	0.2032 g	0.0098 % wt	<0.0098 % wt
L-02 *511803254-0002*	Site: Paper machine #4, 4th floor Desc: Gray/cream, concrete, wall	10/31/2018	0.2004 g	0.10 % wt	0.70 % wt
L-03 *511803254-0003*	Site: Sulphite tank Desc: Silver, metal, tank	10/31/2018	0.201 g	0.010 % wt	<0.010 % wt
L-04 *511803254-0004*	Site: Paper machine #4 , 1st floor Desc: Light green, metal, wall/beam	10/31/2018	0.2002 g	0.010 % wt	0.088 % wt
L-05 *511803254-0005*	Site: Ext body color of paper machine #4 Desc: Light gray, concrete, ext. wall beam	10/31/2018	0.2006 g	0.010 % wt	<0.010 % wt
L-06 *511803254-0006*	Site: Ext guardrail; NW side of paper machine #4 Desc: Yellow, metal, guardrail	10/31/2018	0.2055 g	0.19 % wt	2.7 % wt
L-07 *511803254-0007*	Site: PM #4; shipping shed control room Desc: Light gray, wood	10/31/2018	0.2028 g	0.0099 % wt	<0.0099 % wt
L-08 *511803254-0008*	Site: #4 Finishing room Desc: Light green, wood, beam	10/31/2018	0.201 g	0.010 % wt	0.033 % wt
L-09 *511803254-0009*	Site: Ext beam of sulphite plant - SE side Desc: Beige, metal, beam	10/31/2018	0.2015 g	0.0099 % wt	0.028 % wt

Lauren Kerber, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 10/31/2018 15:25:17

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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-10 *511803254-0010*	Site: Sulphite plant eastern tank Desc: Gray, metal, tank	10/31/2018	0.2025 g	0.20 % wt	2.8 % wt
L-11 *511803254-0011*	Site: Fire control room; 2nd floor of sulphite plant Desc: Red, wood, walk/door	10/31/2018	0.2005 g	0.010 % wt	<0.010 % wt
L-12 *511803254-0012*	Site: Chip silo - exterior Desc: White, concrete	10/31/2018	0.2023 g	0.30 % wt	6.0 % wt
L-13 *511803254-0013*	Site: Southern exterior of weld shop Desc: Cream over red, metal, sliding door	10/31/2018	0.2043 g	0.0098 % wt	0.19 % wt
L-14 *511803254-0014*	Site: Weld shop; 1st floor Desc: Gray, metal, beam	10/31/2018	0.1666 g	0.012 % wt	<0.012 % wt
L-15 *511803254-0015*	Site: East exterior - TMP refiner line Desc: Gray, concrete, exterior wall	10/31/2018	0.2028 g	0.0099 % wt	0.012 % wt
L-16 *511803254-0016*	Site: TMP refiner lines, 1st floor Desc: Gray, CMU block, wall	10/31/2018	0.2006 g	0.010 % wt	0.19 % wt
L-17 *511803254-0017*	Site: Mill offices, 2nd floor Desc: White, drywall, wall	10/31/2018	0.2041 g	0.0098 % wt	<0.0098 % wt
L-18 *511803254-0018*	Site: Mill offices; southern stair well - between 1st & 2nd floor Desc: White, wood, wall	10/31/2018	0.203 g	0.0099 % wt	<0.0099 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Phone: (206) 496-3897
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-19 *511803254-0019*	Site: Maintenance shops Desc: Yellow over red, metal, bollard	10/31/2018	0.2068 g	0.24 % wt	4.0 % wt
L-20 *511803254-0020*	Site: Maintenance shop Desc: Light green, wood, wall	10/31/2018	0.2011 g	0.0099 % wt	<0.0099 % wt
L-21 *511803254-0021*	Site: Maintenance shop Desc: Green, wood, wall	10/31/2018	0.2002 g	0.010 % wt	0.045 % wt
L-22 *511803254-0022*	Site: TMP refiner lines, 2nd floor Desc: White over light green, metal, beam	10/31/2018	0.2029 g	0.0099 % wt	0.031 % wt
L-23 *511803254-0023*	Site: TMP refiner lines, 4th floor Desc: Gray, drywall, wall	10/31/2018	0.2051 g	0.0098 % wt	<0.0098 % wt
L-24 *511803254-0024*	Site: TMP area; control room; 1st floor Desc: Light blue, drywall, wall	10/31/2018	0.2009 g	0.010 % wt	<0.010 % wt
L-25 *511803254-0025*	Site: TMP area; 1st floor; control room Desc: Dark blue, metal, window	10/31/2018	0.2008 g	0.010 % wt	0.039 % wt
L-26 *511803254-0026*	Site: TMP area; 1st floor Desc: Red, metal, beam	10/31/2018	0.2039 g	0.0098 % wt	0.50 % wt
L-27 *511803254-0027*	Site: TMP area; 1st floor Desc: Green on white, CMU, wall	10/31/2018	0.2034 g	0.0098 % wt	0.012 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Seattle, WA

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Fax:
Received: 10/25/18 8:00 AM
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-28 *511803254-0028*	Site: Paper machine #1 - exterior body color Desc: Bright gray, concrete, wall	10/31/2018	0.206 g	0.097 % wt	1.7 % wt
L-29 *511803254-0029*	Site: Paper machine #1; 1st floor; south control room Desc: Yellow, metal, wall	10/31/2018	0.2047 g	0.0098 % wt	<0.0098 % wt
L-30 *511803254-0030*	Site: Paper machine #1; 1st floor Desc: White over green, skim coat over CMU, wall	10/31/2018	0.205 g	0.0098 % wt	0.055 % wt
L-31 *511803254-0031*	Site: TMP reject refining; 1st floor Desc: White over light green, metal, beam	10/31/2018	0.2035 g	0.25 % wt	4.2 % wt
L-32 *511803254-0032*	Site: Boiler plant; basement Desc: Light gray over dark gray, metal, door/door frame	10/31/2018	0.2013 g	0.0099 % wt	0.030 % wt
L-33 *511803254-0033*	Site: Boiler plant; basement Desc: Silver, metal, boiler	10/31/2018	0.2012 g	0.0099 % wt	0.46 % wt
L-34 *511803254-0034*	Site: TMP HI-D; tank stairs Desc: Orange, metal, stairs	10/31/2018	0.2021 g	0.99 % wt	17 % wt
L-35 *511803254-0035*	Site: Boiler plant; basement Desc: Silver, brick, wall	10/31/2018	0.2007 g	0.010 % wt	0.021 % wt
L-36 *511803254-0036*	Site: Pipe shop - exterior Desc: White, metal, door frame	10/31/2018	0.2016 g	0.0099 % wt	0.029 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 10/31/2018 15:25:17

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Attn: **Dan Fitzgibbons**
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Phone: (206) 496-3897
Fax:
Received: 10/25/18 8:00 AM
Collected:

Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-37 *511803254-0037*	Site: Carpenter shop - exterior Desc: Light gray, metal, wall	10/31/2018	0.0194 g	0.10 % wt	<0.10 % wt
L-38 *511803254-0038*	Site: Raw material storage - exterior Desc: White, concrete, wall	10/31/2018	0.2011 g	0.0099 % wt	0.051 % wt
L-39 *511803254-0039*	Site: Deink HI-D tank exterior Desc: White over light green, white blocks, tank exterior	10/31/2018	0.2014 g	0.0099 % wt	<0.0099 % wt
L-40 *511803254-0040*	Site: Mill 0 covered storage Desc: Bright gray, metal, beam	10/31/2018	0.1567 g	0.013 % wt	<0.013 % wt
L-41 *511803254-0041*	Site: Auto shop Desc: White, wood, wall	10/31/2018	0.1625 g	0.012 % wt	<0.012 % wt
L-42 *511803254-0042*	Site: Carpenter shop - west ext. window Desc: Gray, wood, window frame	10/31/2018	0.2004 g	0.20 % wt	2.7 % wt
L-43 *511803254-0043*	Site: Mill 0 conference room - north exterior Desc: White, CMU, wall	10/31/2018	0.2012 g	0.099 % wt	0.61 % wt
L-44 *511803254-0044*	Site: Paper machine #3, basement Desc: White, metal, beam	10/31/2018	0.2052 g	0.0097 % wt	<0.0097 % wt
L-45 *511803254-0045*	Site: Paper machine #3, basement Desc: White, concrete, wall	10/31/2018	0.2006 g	0.010 % wt	0.073 % wt

Lauren Kerber

Lauren Kerber, Laboratory Manager
or other approved signatory

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Received: 10/25/18 8:00 AM
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-46 *511803254-0046*	Site: Mill D warehouse Desc: White over gray, wood, wall	10/31/2018	0.201 g	0.010 % wt	0.083 % wt
L-47 *511803254-0047*	Site: Mill D; 2nd floor landing Desc: Green, concrete, wall	10/31/2018	0.2021 g	0.0099 % wt	0.19 % wt
L-48 *511803254-0048*	Site: Mill D; 2nd floor landing Desc: White, concrete, wall	10/31/2018	0.2045 g	0.0098 % wt	0.11 % wt
L-49 *511803254-0049*	Site: Mill D; 2nd floor Desc: White, wood, beam	10/31/2018	0.2014 g	0.0099 % wt	0.097 % wt
L-50 *511803254-0050*	Site: Mill D; 1st floor Desc: Red/orange, metal, fire system piping	10/31/2018	0.2036 g	0.29 % wt	6.8 % wt
L-51 *511803254-0051*	Site: Ext. barn door @ filter plant Desc: Gray, wood, door	10/31/2018	0.2017 g	0.0099 % wt	0.30 % wt
L-52 *511803254-0052*	Site: Filter plant exterior Desc: Green, concrete, wall	10/31/2018	0.2018 g	0.0099 % wt	0.17 % wt
L-53 *511803254-0053*	Site: Filter plant - wnd floor Desc: White, wood, door frame	10/31/2018	0.2033 g	0.0098 % wt	0.19 % wt
L-54 *511803254-0054*	Site: Filter plant - wnd floor Desc: Gray, metal, beam	10/31/2018	0.2016 g	0.099 % wt	0.59 % wt

Lauren Kerber, Laboratory Manager
or other approved signatory

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Received: 10/25/18 8:00 AM
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Project: **320002449**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L-55 *511803254-0055*	Site: Filter plant - wnd floor Desc: White, metal, light pole	10/31/2018	0.203 g	0.0099 % wt	0.39 % wt
L-56 *511803254-0056*	Site: Filter plant; 3rd floor Desc: Gray, drywall, wall	10/31/2018	0.2003 g	0.010 % wt	0.31 % wt
L-57 *511803254-0057*	Site: Guard shack Desc: Blue, metal, door	10/31/2018	0.2006 g	0.010 % wt	0.027 % wt
L-58 *511803254-0058*	Site: Guard shack Desc: Red, metal, cabinet	10/31/2018	0.2007 g	0.010 % wt	0.17 % wt
L-59 *511803254-0059*	Site: Guard shack Desc: Gray, concrete, wall	10/31/2018	0.2014 g	0.0099 % wt	0.10 % wt
L-60 *511803254-0060*	Site: Office; parking area Desc: Brown, concrete, column	10/31/2018	0.2027 g	0.0099 % wt	0.045 % wt

Lauren Kerber, Laboratory Manager
or other approved signatory

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

#511803254

PHONE: ( )
FAX: ( )

Company: Apex Companies, LLC	**EMSL-Bill to:** ■ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 600 Stewart Street, Suite 400	*Third Party Billing requires written authorization from third party*
City: Seattle **State/Province:** WA	**Zip/Postal Code:** 98101 **Country:** USA
Report To (Name): Dan Fitzgibbons	**Telephone #:** 206-399-5267
Email Address: Dan.Fitzgibbons@apexcos.com	**Fax #:** **Purchase Order:**
Project Name/Number: 320002449	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken: OR	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ■ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ■ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	[x]
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: John Hathaway/Chris Clough **Signature of Sampler:** John Hathaway

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #s - **Total # of Samples:**

Relinquished (Client):	John Hathaway	**Date:**	10/24/18	**Time:**	
Received (Lab):		**Date:**	10/25/18	**Time:**	8:00

Comments: Sample log will be emailed DB

APEX

#511803254

Page ___ o _

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-49	WHITE	WOOD	BEAM		MILL D; 2ND FLOOR	
L-50	RED/ORANGE	METAL	FIRE SYSTEM PIPING		MILL D; 1ST FLOOR	
L-51	GRAY	WOOD	DOOR		EXT. BARN DOOR @ FILTER PLANT.	
L-52	GREEN	CONCRETE	WALL		FILTER PLANT EXTERIOR	
L-53	WHITE	WOOD	DOOR FRAME		FILTER PLANT – 2ND FLOOR	
L-54	GRAY	METAL	BEAM			
L-55	WHITE	METAL	LIGHT POLE			
L-56	GRAY	DECKING	WALL		FILTER PLANT; 3RD FLOOR	
L-57	BLUE	METAL	DOOR		GUARD SHACK	
L-58	RED	METAL	CABINET		GUARD SHACK	
L-59	GRAY	CONCRETE	WALL		GUARD SHACK	
L-60	BROWN	CONCRETE	COLUMN		OFFICE; PARKING AREA.	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254

APEX

Page ___ o _

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-01	WHITE	METAL	BEAM		TRUCK DUMP, SW EXT	
L-02	GRAY/ CREAM	CONCRETE	WALL		PAPER MACHINE #4, 4TH FLOOR	
L-03	SILVER	METAL	TANK		SULPHITE TANK	
L-04	LIGHT GREEN	METAL	WALL/BEAM		PAPER MACHINE #4, 1ST FLOOR	
L-05	LIGHT GRAY	CONCRETE	EXT WALL/ BEAM		EXT BODY COLOR OF PAPER MACHINE #4	
L-06	YELLOW	METAL	GUARDRAIL		EXT GUARDRAIL, NW SIDE OF PAPER MACHINE #4	
L-07	LIGHT GRAY	WOOD			PM#4, SUPPLY FED CONTROL ROOM	
L-08	LIGHT GREEN	WOOD	BEAM		#4 FINISHING LOOM	
L-09	BEIGE	METAL	BEAM		EXT BEAM OF SULPHITE PLANT - SE SIDE	
L-10	GRAY	METAL	TANK		SULPHITE EASTERN TANK	
L-11	RED	WOOD	WALL/ DOOR		FIRE CONTROL ROOM; 2ND FLOOR OF SULPHITE PLANT	
L-12	WHITE	CONCRETE			CHIP SILO - EXTERIOR	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254

APEX

Page ___ o

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

Sample No.	Color	Substrate	Surface	Condition	Sample Location	Quantity
L-13	CREAM OVER RED	METAL	SLIDING DOOR		SOUTHERN EXTERIOR OF WELD SHOP	
L-14	GRAY	METAL	BEAM		WELD SHOP, 1ST FLOOR	
L-15	GRAY	CONCRETE	EXTERIOR WALL		EAST EXTERIOR - TMP REFINER LINE	
L-16	GRAY	CMU BLOCK	WALL		TMP REFINER LINES, 1ST FLOOR.	
L-17	WHITE	DRYWALL	WALL		MILL OFFICES, 2ND FLOOR	
L-18	WHITE	WOOD	WALL		MILL OFFICES; SOUTHERN STAIR WELL - BETWEEN 1ST & 2ND FLOOR	
L-19	YELLOW OVER RED	METAL	BOLLARD		MAINTENANCE SHOPS	
L-20	LIGHT GREEN	WOOD	WALL		MAINTENANCE SHOP	
L-21	GREEN	WOOD	WALL		MAINTENACE SHIP	
L-22	WHITE OVER LIGHT GREEN	METAL	BEAM		TMP REFINER LINES, 2ND FLOOR	
L-23	GRAY	DRYWALL	WALL		TMP REFINER LINES, 4TH FLOOR	
L-24	LIGHT BLUE	DRYWALL	WALL		TMP AREA; CONTROL ROOM; 1ST FLOOR	

Date:	Collected by (print):	Notes:

OrderID: 511803254

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BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-25	PARK BLUE	METAL	WINDOW		TMP AREA; 1ST FLOOR; CONTROL ROOM.	
L-26	RED	METAL	BEAM		TMP AREA; 1ST FLOOR	
L-27	GREEN ON WHITE	CMU	WALL		TMP AREA; 1ST FLOOR	
L-28	LIGHT GRAY	CONCRETE	WALL		PAPER MACHINE #1 - EXTERIOR BODY COLOR	
L-29	YELLOW	METAL	WALL		PAPER MACHINE #1 & 1ST FLOOR; SOUTH. CONTROL ROOM.	
L-30	WHITE OVER GREEN	SKIM COAT OVER CMU	WALL		PAPER MACHINE #1; 1ST FLOOR	
L-31	WHITE OVER LIGHT GREEN	METAL	BEAM		TMP REJECT REFINING; 1ST FLOOR	
L-32	LIGHT GRAY OVER DARK GRAY	METAL	DOOR/ DOOR FRAME		~~BASEMENT~~ BOILER PLANT; BASEMENT	
L-33	SILVER	METAL	BOILER		BOILER PLANT; BASEMENT	
L-34	ORANGE	METAL	STAIRS		TMP HI-D; TANK STAIRS	
L-35	SILVER	BRICK	WALL		BOILER PLANT; BASEMENT	
L-36	WHITE	METAL	~~ORANGE~~ DOOR FRAME		PIPE SHOP - EXTERIOR	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

#511803254 Page ___ of

BULK PAINT CHIP SAMPLE FORM

CLIENT		SITE		PROJECT	
Name:	Apex Companies, LLC	Site Name:	Former Blue Heron Mill	Project #:	320002449-00, Task 003
Address:	3015 SW 1st Avenue	Address:	Main & McLoughlin	Apex Manager:	Dan Fitzgibbons
City, State, Zip:	Portland, OR 97201	City, State, Zip:	Oregon City, OR	Email Results To:	Dan.Fitzgibbons@apexcos.com

SAMPLE NO.	COLOR	SUBSTRATE	SURFACE	CONDITION	SAMPLE LOCATION	QUANTITY
L-37	LIGHT GRAY	~~WOOD~~ METAL	WALL		CARPENTER SHOP - EXTERIOR	
L-38	WHITE	CONCRETE	WALL		RAW MATERIAL STORAGE - EXTERIOR	
L-39	WHITE OVER LIGHT GREEN	WHITE BLOCKS	TANK EXTERIOR		DEINK HI-D TANK EXTERIOR	
L-40	LIGHT GRAY	METAL	BEAM		MILL O COVERED STORAGE	
L-41	WHITE	WOOD	WALL		AUTO SHOP	
L-42	GRAY	WOOD	WINDOW FRAME		CARPENTER SHOP - WEST EXT. WINDOW	
L-43	WHITE	CMU	WALL		MILL O CONFERENCE ROOM - NORTH EXTERIOR	
L-44	WHITE	METAL	BEAM		PAPER MACHINE #3, BASEMENT	
L-45	WHITE	CONCRETE ~~BLOCK~~	WALL		PAPER MACHINE #3, BASEMENT	
L-46	WHITE OVER GRAY	WOOD	WALL		MILL D WAREHOUSE	
L-47	GREEN	CONCRETE	WALL		MILL D; 2ND FLOOR LANDING	
L-48	WHITE	CONCRETE	WALL		MILL D; 2ND FLOOR LANDING	

Sampling Date:	Collected by (print):	Notes:

OrderID: 511803254

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: 167337

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

☐	**INDUSTRIAL HYGIENE**	Accreditation Expires:
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: June 01, 2019
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: December 01, 2018
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 05/31/2017

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: **167337**
Issue Date: 05/31/2017

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 06/01/2017

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (*for internal methods only*)
Paint		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

APPENDIX C

APEX PERSONNEL CERTIFICATIONS

THIS IS TO CERTIFY THAT

CHRIS CLOUGH

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date: 03/08/2018

Course Location: Portland, OR

Certificate: IR-18-2128B

PBS

4-Hour Online Inspector Refresher Training

Expiration Date: 03/08/2019

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Gregory M. Baker

Greg Baker, Instructor

Certificate of Completion

This is to certify that

John W. Hathaway

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

EPA Provider # 1085

169632
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 3, 2018 — Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

Instructor

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

Certificate of Completion

This is to certify that

Dan J. Fitzgibbons

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

EPA Provider # 1085

167823
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

May 30, 2018 — Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

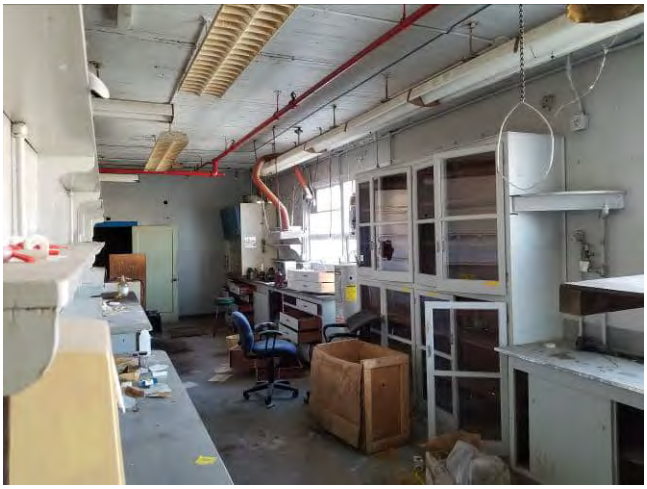
Instructor

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

APPENDIX D

SITE PHOTOGRAPHS

Exterior of Mill H.



Interior of the Environmental Lab.

Interior of TMP Reject Refining & Screening Building.

Exterior of Mill Office Building.

Roof of Mill Office Looking North.

Basement of Paper Machine 3.

Lower Level Exterior of Paper Machine 3.

Exterior of Water Filtration Plant.

Exterior of Rail Car Loading Area.

Exterior of Recovery Boiler.

Second Floor of the Carpenter Shop.

Second Floor of Boiler Plant.

Cement Asbestos Board on The Electrical Room of The Truck Dump.

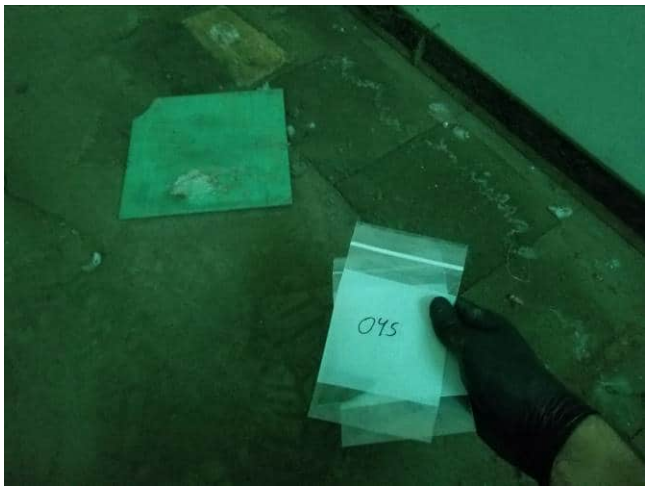
Asphaltic Roofing on The Roof of Deink ONP Repulper.

Transite Siding on Exterior of TMP Reject Refining & Screening, Paper Machine #1, Sulphite Plant, Paper Machine #4, Water Filter Plant Garage Adjacent to Guard Shack.

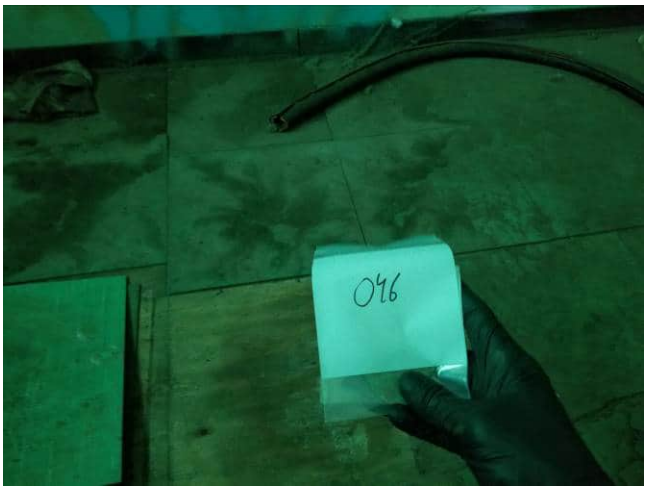
Yellow Pebble Patterned Sheet Vinyl with Mastic in Computer Room in First Floor of Paper Machine #4.

White Sink Undercoating in Women's Restroom on First Floor of Paper Machine #4.

Window Glazing on Exterior First Floor Windows of Paper Machine #4.

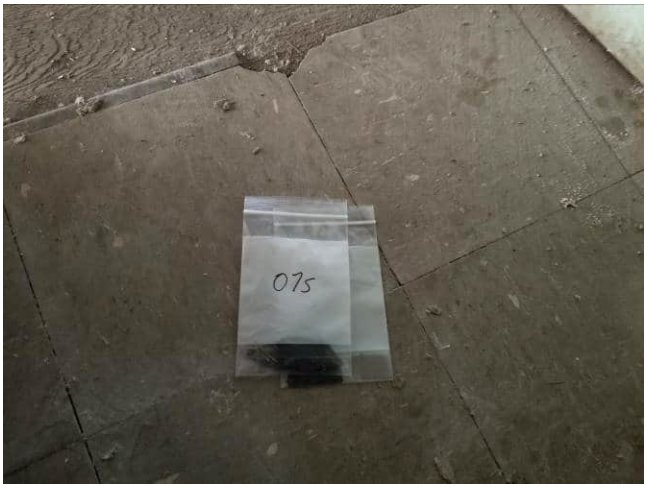


9x9” Green VFT With Yellow Mastic On 4th Floor Of #4 Finishing Building.



12x12” Green VFT With Yellow Mastic On 4th Floor Of #4 Finishing Building.

Built-Up Roofing Material Associated with Built-Up Roofing Material with Rubber Membrane on Roof of Paper Machine #4.



Mastic Associated With 12x12” Gray VFT And Black Backing On 2nd Floor of Mill Offices.

Brown Mastic Associated With 4” Black Cove On 2nd Floor Mill Offices.

White Cementitious Wall Panel with Brown Mastic in Men’s Restroom of Mill Offices.

Black Mastic Dots Associated With 12x12" Dot Ceiling Tile On 3rd Floor of Mill Offices.

Black Mastic Associated With 12x12" Brown Vinyl Floor Tile in Western Offices On 3rd Floor of Mill Offices.

Black Mastic Associated with Tan Vinyl Floor Tile and Gray Carpet with Cream Mastic in North Offices On 3rd Floor of Mill Offices.

Built-Up Roofing on Roof of Mill Offices.

Brown Mastic Associated with White Wall Panel On 4th Floor of Mill Offices.

Red Sheet Vinyl with Cream Mastic On 4th Floor of Mill Offices.

9x9" Green Vinyl Floor Tile with Black Mastic in Restroom On 3rd Floor of Sulphite Plant.

Cement Asbestos Board On 4th Floor of Sulphite Plant.

Fiber Wall Panel with Mastic On 4th Floor of Sulphite Plant.

Cement Asbestos Board Panel with Black Mastic On 4th Floor of Sulphite Plant.

Asphaltic Stair Tread on Stairs 4th Story to Roof of Sulphite Plant.

Built-Up Roofing with Silver Paint with Built-Up Roofing with Built-Up Roofing with Tar Felt with Tar with Insulation on Roof of Sulphite Plant.

Mastic Associated with Ceramic Electric Insulator on West Exterior of Environmental Lab.

9x9" Green Vinyl Floor Tile with Black Mastic On 1st Floor of Environmental Lab

9x9" Brown Vinyl Floor Tile with Black Mastic On 1st Floor of Environmental Lab.

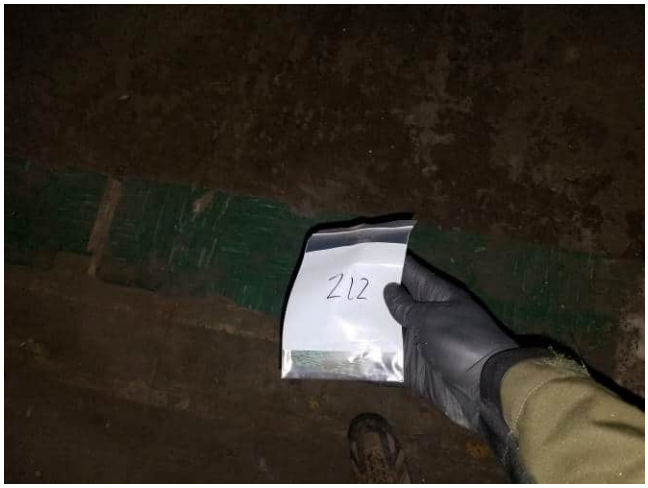
2x4' Dot Drop Ceiling Panel On 1st Floor of Environmental Lab.

Black Sink Undercoating On 1st Floor of Environmental Lab.

Black Chemstone Countertop On 1st Floor of Environmental Lab.

Beige Sheet Vinyl Flooring with Mastic On 2nd Floor of Raw Material Storage.

Mastic Associated with Pipe Wrap with Insulation on Southeast Exterior of Sulphite Plant.



Green 9x9 Vinyl Floor Tile with Brown Mastic in Paint Room of Mill D.

Built-Up Roofing with Silver Paint and Tar Felt on Roof of Mill D.

Black Fiber Padding on Riverside Exterior of Paper Machine #3.

Joint Compound with Drywall In 3rd Floor Office of Water Filter Plant.

Caulking Behind Transite on 2nd Floor Exterior of Water Filter Plant.

Black Asphaltic Pipe Coating Adjacent to Hi-D Tank.

9X9" White Vinyl Floor Tile with Black Mastic in Office Adjacent to Guard Shack.

12X12" Beige Vinyl Floor Tile with Black Mastic in Office Adjacent to Guard Shack.

Black Mastic Associated with Gray Sheet Vinyl in Office Adjacent to Guard Shack.

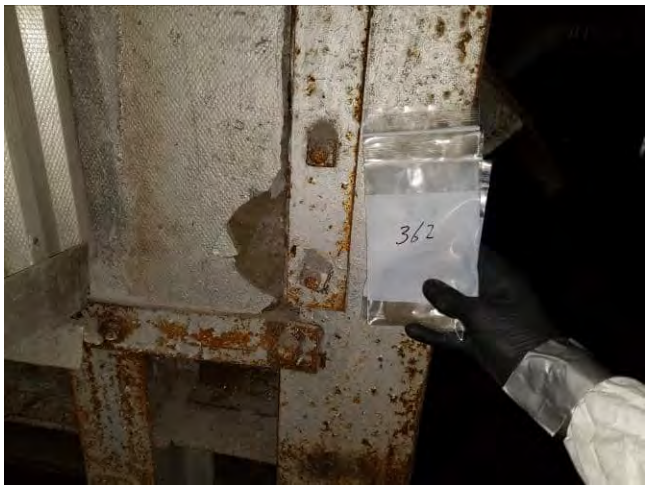
Knockdown Wall Texture on Plywood in Office Adjacent to Guard Shack.

12X12" Dark Gray Vinyl Floor Tile with Tan Mastic in Portable Office in North of Guard Shack

Red Boiler Insulation in Boilers A, B, C, And D On 1st Floor of Boiler Plant.

TSI Insulation Debris Spilled on Ground in Front Of 1st Floor of Recovery Boiler.

White Boiler Insulation on The East Side of TM Boiler In 1st Floor of Boiler Plant.



Cement Asbestos Board Boiler Wall Panel on Silver Boiler in The Basement of Boiler Plant.

Cement Asbestos Board Wall Panels in The Control Room on the 1st Floor of The Recovery Boiler.

Boiler Insulation on the 1st Floor of The Recovery Boiler.

Krysta Krippaehne-Stein

From: Jason Samek <JasonSamek@elderdemo.com>
Sent: Thursday, April 3, 2025 2:45 PM
To: Krysta Krippaehne-Stein
Cc: Kathy Lombardi
Subject: FW: Hg Bulbs and PCBs
Attachments: Lights__.pdf

[External Sender - Confirm Sender and Beware of Links and Attachments]

Krysta,

Please see email below. Let me know if you have any questions.
Thanks,

Jason Samek
Project Manager/Estimator
Elder Demo LLC. | PO Box 10 | Wisonville, OR 97070
Office: 503-760-6330 | Fax: 503-760-2266 | Cell: 503-515-8326
jasonsamek@elderdemo.com

From: Rodriguez, Rick J <Rick.Rodriguez2@terracon.com>
Sent: Thursday, April 3, 2025 12:49 PM
To: Jason Samek <JasonSamek@elderdemo.com>
Subject: Hg Bulbs and PCBs

Good morning Jason,

Circling back on Hg Bulbs and PCB Ballast, etc., during the walk through these components were not readily observed within the three general buildings. The majority of the light fixtures were non-ballast containing and many of the fixtures were missing bulks or the bulbs were broken in place. I have attached a few photos with representative light. Please see the summary below for each building.

Building	PCBs Ballast	Hg Bulbs	HID	Fluorescent light Tubes	Comments
Sulphite Plant	None observed	~5 Observed throughout building	~4 along south side, fourth floor	None observed	Majority of fixture observed were missing bulbs or the bulbs were broken in place
No. 4 Paper Machine	Lab (1), Control Rooms (2),	Not Estimated.	~ 8 to 10 along roof perimeter	~ 6 tubes	Majority of fixture observed were missing bulbs or the

			~6 interior fixture on main level		bulbs were broken in place
DeInk Building	2nd floor Lab (4)	Not Estimated.	~4 – 6 along roof perimeter	~8 tubes	Majority of fixture observed were missing bulbs or the bulbs were broken in place

Please note that not all areas across the building were accessible so materials listed above may still be present. Since there was no power, we could not test any fixtures, so all ballasts should be assumed PCB containing unless the components is labeled as non-PCB containing.

Let me know if you have any questions.
Rick

Rick Rodriguez
Senior Project Manager I Group Manager I Industrial Hygiene + Hazmat

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Appendix D

Elder Demolition Health and Safety Plan

MAUL FOSTER ALONGI

(rev 03/22/2024)

SAFETY POLICY
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Elder Demolition is dedicated to the safety and well-being of our employees. It is our policy to provide a safe environment for everyone to work in. Statistics and our experience show that most injuries are costly and preventable. With a joint worker/management safety committee we can help prevent loss of time due to injuries by making recommendations for change. The best prevention of accidents is by education. With the help of all individuals, we can educate not only new employees but those around us as well. We have established a program that will adapt fundamental occupational safety and health concepts that will help us prevent injuries due to hazards. Its purpose will be to bring workers and management together in a non-adversarial, cooperative effort to promote safety and health in the workplace. Employee involvement at all levels of the company is critical for us to be successful in this effort. Elder. shall conform with all OSHA laws applicable as well as Oregon 29 CFR 1926 and WAC 296-155 construction codes.

1.0 INJURY and ILLNESS PREVENTION RESPONSIBILITIES

1.1 PROJECT MANAGER

Project Managers responsibility is the prevention of injury and accidents because management is held accountable for all issues under their span of control. Management provides direction and full support to Superintendents, Foreman, and employees regarding all safety and health procedures, job training, and hazard elimination practices. We must be kept fully informed on safety and health issues throughout the company, to constantly review the effectiveness of our safety and health program. The Project Managers responsibilities include, but are not limited, to the following.

- Inspect work areas and operations to identify work hazards and document any unsafe work practices or conditions.
- Implement actions to correct any unsafe work areas or operations.
- Communicate with customers, clients, and other authorities on safety-related matters.

1.2 SAFETY DEPARTMENT

Safety Coordinator will aid Project Managers and Project Superintendents/Foreman in an advisory capacity and will monitor and enforcement of this safety policy. The Safety Departments responsibilities include, but not limited to, the following

- Inspect work areas and operations to identify work hazards and document any unsafe work practices or conditions.
- Implement actions to correct any unsafe work areas or operations.
- Organize and monitor weekly and monthly safety meetings and provide documentation regarding safety issues.
- Coordinate safety responsibilities.
- Communicate with customers, clients, and other authorities on safety-related matters.
- Pre job hazard assessment.
- Investigate all accidents, regardless of severity, to determine cause and take corrective measures.
- Plan and develop any additional jobsite accident prevention requirements recognized during demolition
- Assist Superintendent/Forman with JHA's

1.3 SUPERVISOR/SUPERINTENDENT/FOREMAN

Supervisors are directly responsible for supervising and job training their workers. This includes proper procedures, work practices and safe methods to do the job. Supervisors must enforce company rules and take immediate corrective action to eliminate hazardous conditions and practices. They will not permit safety to be sacrificed for any reason. In addition, they will be held accountable to all safety and health issues. The responsibilities include, but are not limited to the following:

- Hold and participate in weekly toolbox safety meetings held on Mondays.
- Implement and monitor the safety policy.
- Train and teach any new employees on safe practices
- Conduct daily inspections of job site to identify and correct unsafe work practices or unsafe conditions.
- Encourage employees to report any unsafe conditions or unsafe work practice.
- Investigate accidents, and near misses.
- Actively use JHA's for every new task on the job.
- Safety orientation for employees new to the job site.

1.4 SAFETY COMMITTTEE

The safety committee consists of management and employee representatives who have an interest in the general promotion of safety and health for Elder Demolition. The committee is responsible for making recommendation on how to improve safety and health in the workplace. They have been charged with the responsibility to define problems and remove obstacles to accident prevention; identify hazards and recommend corrective actions; help identify employee safety training needs; update safety procedures and programs; establish accident investigation procedures for our company.

1.5 EMPLOYEES

Each employee, regardless of their position within the company, is expected to cooperate in all aspects of the company's safety and health program. All employees are expected to; report immediately to a supervisor of any accidents or hazardous conditions; wear required personal protective equipment at all times (NO Exceptions); participate and support the safety committee activities. The responsibilities include, but are not limited to:

- Obey all safety procedures, rules, and regulations.
- Use all required PPE and safety devices provided or required
- Report any unsafe conditions and or unsafe work practices to the Foreman, or Supervisor
- Actively participate in toolbox safety meetings held Mondays at 7:00am.
- Report all injuries to the Foreman, or Supervisor.

1.6 EMPLOYEE CONDUCT & DISCIPLINARY ACTION

Employee Conduct and Work Rules

To ensure orderly operations and provide the best possible work environment, Elder Demolition expects employees to follow rules of conduct that will protect the interests and safety of all employees and the organization.

It is not possible to list all the forms of behavior that are considered unacceptable in the workplace. The following are examples of infractions of rules of conduct that may result in disciplinary action, up to and including termination of employment:

- Theft or inappropriate removal or possession of property
- Falsification of timekeeping records
- Working under the influence of alcohol or illegal drugs
- Possession, distribution, sale, transfer, or use of alcohol or illegal drugs in the workplace, while on duty, or while operating employer-owned vehicles or equipment
- Fighting or threatening violence in the workplace
- Boisterous or disruptive activity in the workplace

- Negligence or improper conduct leading to damage of employer-owned or customer-owned property
- Insubordination or other disrespectful conduct
- Violation of safety or health rules
- Smoking in prohibited areas
- Sexual or other unlawful or unwelcome harassment
- Possession of dangerous or unauthorized materials, such as explosives or firearms, in the workplace
- Excessive absenteeism or any absence without notice
- Unauthorized absence from workstation during the workday
- Unauthorized use of telephones, mail system, or other employer-owned equipment
- Unauthorized disclosure of business "secrets" or confidential information
- Violation of personnel policies
- Unsatisfactory performance or conduct

Employment with Elder Demolition, is at the mutual consent of Elder Demolition, and the employee, and either party may terminate that relationship at any time, with or without cause, and with or without advance notice.

Progressive Discipline

The purpose of this policy is to state Elder Demolition's position on administering equitable and consistent discipline for unsatisfactory conduct in the workplace. The best disciplinary measures are the one that does not have to be enforced and comes from good leadership and fair supervision at all employment levels. Superintendents, Project Managers and Executive Management are ultimately responsible for disciplinary measures.

Elder Demolition's own best interest lies in ensuring fair treatment of all employees and in making certain that disciplinary actions are prompt, uniform, and impartial. The major purpose of any disciplinary action is to correct the problem, prevent recurrence, and prepare the employee for satisfactory service in the future. Management shall conduct periodic workplace inspections to ensure safety rules are being followed.

Although employment with Elder Demolition, is based on mutual consent and both the employee and Elder Demolition, have the right to terminate employment at will, with or without cause or advance notice, Elder Demolition, may use progressive discipline at its discretion.

Disciplinary action may call for any of four steps -- verbal warning, written warning, suspension with or without pay, or termination of employment -- depending on the severity of the problem and the number of occurrences. There may be circumstances when one or more steps are bypassed. Once a safety violation has been issued (unless it requires immediate dismissal), the violation is filed in the employee file. Depending on the situation a follow up meeting will be scheduled to ensure no future repeat occurs.

Progressive discipline means that, with respect to most disciplinary problems, these steps will normally be followed: a first offense may call for a verbal warning; a next offense may be followed by a written warning; another offense may lead to a suspension, and still another offense may then lead to termination of employment.

Elder Demolition recognizes that there are certain types of employee problems that are serious enough to justify either a suspension, or, in extreme situations, termination of employment, without going through the usual progressive discipline steps.

While it is impossible to list every type of behavior that may be deemed a serious offense, the Employee

Conduct and Work Rules policy includes examples of problems that may result in immediate suspension or termination of employment. However, the problems listed are not all necessarily serious offenses, but may be examples of unsatisfactory conduct that will trigger progressive discipline.

By using progressive discipline, we hope that most employee problems can be corrected at an early stage, benefiting both the employee and Elder Demolition.

2.0 TRAINING AND EDUCATION (Prior to initial assignment and yearly)

It is our policy and responsibility to ensure that every employee is properly trained and educated to perform the work necessary safely. Training shall be done prior to initial assignment and shall be documented including the employee's name, dates of training and subject. Each employee must be educated for every task that they undertake. It is the supervisor's responsibility for ensuring that their workers are able and capable of performing each task safely. The following are guidelines towards achieving this task.

- All new employees are to receive a new employee packet containing a written safety plan, a policy book, and an employee safety manual test.
- New employees should be shown how to perform their tasks in a safe manner. Initially they should be actively supervised by either their direct supervisor or an experienced employee to make certain that they can perform any assigned task safely.
- No employee is to be assigned to any task that the employee is not qualified to perform until that employee is properly trained and is made aware of the hazards associated with the assigned task. This training and certification must be documented and turned in the office weekly.
- No employee is to perform any task which cannot be made safe, or which places the employee in danger of injury.

2.1 STOP WORK AUTHORITY

Should an employee feel they are put into a situation that they have not been properly trained or they feel is unsafe in any way they may exercise a Stop Work Authority with their immediate supervisor. All employees at some point may be in a supervisory roll and not just management, therefore all employees must be prepared to honor a direct stop work incident. Together with managements support of stop work initiatives we can create a culture that stop work authority is exercised freely.

- Stop work authority should be covered in the initial employee orientation.
- No work shall resume until the issue at hand has been resolved or the employee has received proper training.
- No employee shall be reprimanded for exercising a stop work authority.
- If a stop work authority is exercised, the following steps shall be taken:
  1) Notify the Project Manager/ Safety Director / Management
  2) Correct the issue or education.
  3) Resume work
  4) Document the stop work
  5) Review the documentation with Supervisor, Safety Department or Management for additional corrective recommendation
  6) Follow up with employee by Management to ensure actions have been sufficient.

3.0 GENERAL SAFETY RULES

We have developed these safety rules patterned after the Federal OSHA requirements. Read and become familiar with these rules and other safety rules that apply to your job.

1. An approved hard hat and safety glasses and footwear must be always worn.
2. Fall protection equipment is required whenever there are openings in floor or walls.
3. You may be assigned certain personal protective safety equipment. This equipment should be available for use on the job every day and be maintained and in good condition.
4. Lead paint can be present on any project. You must know the location of any lead containing material on every site. You also need to know what trigger tasks are for each condition (torching metal is most hazardous, grinding metal or lead painted walls for instance).
5. A hazardous material survey will contain the locations of lead and asbestos on every jobsite we work. A hazardous material survey needs to be on site for access of all employees to read. Our Foremen will go over the locations of all the hazards on the job site. Always know the exact location where there are hazardous materials on your job.
6. Fluorescent light tubes are to be handled with care and disposed of properly.
7. You should not perform any tasks unless you are trained to do so and are aware of the hazards associated with that task.
8. Learn safe work practices. When in doubt about performing a task safely contact your supervisor for instruction and training.
9. Scissor lifts are very handy but very dangerous if not properly used. You are required to be trained in the proper use of scissor lifts and follow the RENDER IT DEAD, HIT THE RED program. This program requires that every time you are in a scissor lift, and you get to the working height, you must push the safety button to disable the lift. Also, whenever you leave the platform, you should hit the button as well to prevent any accidental movement of the lift.
10. Always perform your assigned task in a safe and proper manner, do not take shortcuts. The taking of shortcuts and the ignoring of established safety rules is the leading cause of injury.
11. Be alert to hazards that could affect you and your fellow employees.
12. Each job site should have a written emergency response plan.
13. First aid training is required for at least one employee designated on each job site. Generally, it will be the Foreman.
14. If you do not have current certified first aid training, do not move, or treat an injured person unless there is an immediate peril such as profuse bleeding or immediate fire danger.
15. Horseplay is always prohibited.
16. Report any injury to your supervisor immediately
17. Fighting will not be tolerated.
18. Report any unsafe conditions to your supervisor.
19. The use of alcohol or drugs on the job will not be tolerated. Any employee discovered under the influence of alcohol or drugs will be terminated.
20. The riding of a hoist hook or other equipment not designed for such purposes is, prohibited at all times.
21. Do not approach operating machinery from the blind side make sure the operator sees you.
22. Locate all fire extinguishers and first aid kits.
23. Always maintain a general condition of good housekeeping in all work areas
24. When operating and riding in company vehicles or using your personal vehicle for business purposes a seatbelt must be worn.
25. Obey safety signs and tags

4.0 PRE JOB-SURVEY & COMMON JOB SITE HAZARDS 29 CFR 1926.850 (a) / WAC 296-155-775

Prior to beginning a project, the project Superintendent / Foreman or qualified individual shall complete an engineering survey of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure as well as our Site- Specific Hazard Analysis (JSA) form. The JSA shall identify all potential hazards on the site and address the protective measures to be taken to avoid injury. All personnel including sub-contractors brought onto the job site shall read and be trained as necessary for the specific hazards present. All employees and sub-contractors shall have the opportunity to be actively involved in the hazard identification process. Risks/hazards are classified or ranked by severity and shall be placed on the form accordingly. Once trained the form shall be signed. Employees shall be trained in identifying risks and hazards as well as the process to ensure the JSA's are a working plan for all projects.

4.1 EXAMPLES OF JSA:

PERSONAL PROTECTIVE EQUIPMENT

HEAD PROTECTION	Must wear hard hats anytime there is an overhead hazard. Barricade off area under hazardous activity
EYE PROTECTION	100% When you enter the job you must be wearing your safety glasses and leave on until you leave the job site. Safety glasses, goggles or a face shield must be worn whenever, grinding, drilling, cutting, nailing, pouring concrete, chipping, performing overhead work, using compressed air, etc.
HEARING PROTECTION	Must use earplugs or ear protectors if noise level is above 80db for an 8-hour project. If no testing has been done, then using the gauge of raising your voice to a shout level constitutes ear protection.
RESPIRATORS	Must use in dusty conditions or in other hazardous areas.
GLOVES	Employees should wear gloves whenever handling sharp edged metal, treated or splintered wood, cables etc.
BOOTS	Should be always worn on the job.

FALL PROTECTION

OPEN SIDED FLOORS	Use a standard guardrail, tie off using a full body harness, or place red rope with signage & flagging 10' back from the edge. Toe boards must be used if workers are walking underneath.

OPENINGS IN FLOORS	Cover hole and write, “hole” on cover or place a guardrail around it. You also should nail the cover to the floor.
OPENINGS IN WALLS	Place a guardrail across it or use red rope, signage, and flagging 10’ back from the opening.
STAIRS	Guardrails/handrails are required on all stairs

WARNING SIGNS

DANGER TAPE	Red Danger tape shall be placed at barriers to keep workers and other trades out of the area of falling objects and hazards. A sign with the specific hazard, individual to contact for entry, and the expiration of the hazard shall be affixed to the tape.
RED ROPE	Red Rope shall be used as a more sturdy or permanent replacement for Danger Tape. The same signage requirements shall be in place.
FALLEN TAPE	All Danger Tape shall be kept in place and any tape on the ground shall be picked up and disposed of immediately to avoid confusion.
YELLOW CAUTION TAPE	Caution tape is used to warn against potential hazards when there is work in the area but not immediate danger of injury to other workers.

MISCELLANEOUS

SCAFFOLDS	Must be full planked, have guardrails, access ladder, cross braces, and pins.
STEP LADDERS	Must be full spread open, not leaned against wall or another object. Do not stand on top two steps
EXTENTION LADDERS	Bottom and top must be tied off, must extend 3 feet past landing, good feet support.
EQUIPMENT GUARDS	All rotating parts on equipment must be guarded.
ELECTRICAL	All electrical tools and cords must be checked and marked with appropriate colored tape.
FIRE PROTECTION	Fire extinguishers must be kept near all sources of flame, torches, and welders.
EXCAVATIONS	Must slope or use shoring if over 4 feet deep, provide access in and out. Use barricade tape as a warning.

4.2 BLANK COPY OF ENGINEERING SURVEY:

ENGINEERING SURVEY

29CFR1926.850 / WAC 296-155-775

DESCRIPTION OF STRUCTURE TO BE REMOVED: (Include separate page for each structure)

Name of Structure _____

Original Function _____

Length of Structure _____ Width _____ Height _____ Basement Depth ___

Structural Framing type or material _____

Foundation material and description _____

Roof Framing and description _____

Wall Framing _____

Floor Framing _____

KNOWN STRUCTURAL HAZARDS

Physical Damage Yes _____ No _____ Locations _____

Structural Damage Yes _____ No _____ Locations _____

Fire Damage Yes _____ No _____ Locations _____

ADJACENT STRUCTURES

Describe structure and conditions _____

Location to project _____

STRUCTURAL STABILIZATION REQUIREMENTS

Temporary Structural Stabilization Required Yes _____ No _____

If yes, please describe: _____

Describe the Demolition sequence planned to safely remove the building while preventing structural collapse or damage. _____

5.0 LEAD PAINT EXPOSURE

SCOPE

This Program Is intended to apply to all Elder Demolition, jobsites in all states we are currently working in. All employees at Elder Demolition, are subject to the requirements of this Program.

PURPOSE

The purpose of the Elder Demolition, Lead Program is to prevent lead exposure, to employees, other trades on the job, visitors, and to help prevent the potential for building contamination from lead during demolition activities. It is also the intent to comply with OROSHA 1926.62 Lead and WAC 296-155-176 Lead.

HEALTH EFFECTS

Common health effects from lead exposure include, impaired kidney function, high blood pressure, nervous system, and neurobehavioral effects. In addition to these there are serious side effects for children under the age of 6 if dust is transmitted home with you post work shift.

EMPLOYEE INFORMATION AND TRAINING

- Elder Demolition shall assure that employees are trained in lead awareness, by a certified industrial hygienist. All training as well as refresher training shall be documented and logged into the appropriate record keeping system. The employees will be re- trained every 12 months.
- Employees shall be knowledgeable of the potential places lead can be contained in the construction area. Painted surfaces being the most common that we encounter.
- Employees shall not disturb lead containing material without proper protective clothing, engineering controls and lead plan in effect.

MULTI-CONTRACTOR WORKSITES

- Elder Demolition shall assure that employees are protected on jobsites that involve multi-contractor conditions. Elder Demolition shall ensure coordination with all ongoing as well as potential lead operations with other sub-contractors and contractors to ensure no employee exposure.

WAC DEFINITIONS

- **Action Level** means employee exposure, to an airborne concentration of lead of 30 micrograms per cubic meter of air **(30 ug/m3)** calculated as an 8-hour time weighted average (TWA).
- **Competent Person** means one who can identify existing and predictable lead hazards in the surroundings or working conditions and who has authorization to take prompt corrective measures to eliminate them.
- **Director** means the director of labor and industries, or his/her designated representative.
- **Lead** means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.
- **This Section** means WAC 296-155-176 through 296-155-17656.

OROSHA DEFINITIONS

- **Action Level** means employee exposure, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 ug/m3) calculated as an 8-hour time weighted average (TWA).
- **Assistant Secretary** means the Assistant Secretary of Labor for Occupational Safety and Health, U.S. Department of Labor, or designee.
- **Competent Person** means one who can identify existing and predictable lead hazards in the surroundings or working conditions and who has authorization to take prompt corrective measures to eliminate them.
- **Director** means the Director, National Institute for Occupational Safety and Health and Human Services, or designee.
- **Lead** means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.
- **This Section** means standard 1926.62.

PERMISSIBLE EXPOSURE ASSESSMENT

- Elder Demolition, will assure that no employee is exposed to lead at concentrations greater than fifty micrograms per cubic meter of air (50 ug/m3) averaged over an 8-hour period. Referred to as PEL (permissible exposure limits).
- Any employee exposed over 8 hours in any workday shall be reduced according to the following formula:
  Allowable employee exposure (in ug/m3) =400 divided by hours in the day.
- Respirators may be used to limit employee exposure. Every employee that uses a respirator must be cleared by Elder Demolition safety department. The following is a general usage summary of respirators.
  Half face respirator- Use in dusty conditions when engineering controls will not suffice.
  Supplied air respirator or PAPR - This is used in the exposure assessment or initial air monitoring. Also used in the torching of steel with lead paint if necessary.

EXPOSURE ASSESSMENT

- On all projects, Elder Demolition will presume lead is present until written proof has been provided or established. When written proof cannot be provided an initial air monitoring will be conducted.

- Initial air monitoring is required for all trigger tasks associated on our projects. Trigger tasks include torching of steel, power tools cutting or grinding walls with lead paint, cutting metal with Sawzall. During initial air monitoring we must set it up with worst case results in mind. For that we need to have protective, removable clothing, proper respiratory protection, changing room and wash station present.

PROTECTIVE WORK CLOTHING AND EQUIPMENT

- Provisions and use. Where an employee is exposed to lead above the PEL without regard to the use of respirators, where employees are exposed to lead compounds which may cause skin or eye irritation and as interim protection for employees performing exposure assessment. Elder Demolition, shall provide at no cost to the employee and assure that the employee uses appropriate protective work clothing and equipment that prevents contamination of the employee and the employee's garments such as, but not limited to:
- Coveralls, Tyvek Suits, or similar full-body work clothing.
- Gloves, hats or hoods, and shoes or disposable shoe coverlets; and
- Face shields, vented goggles, or other appropriate protective equipment which complies with eye protection.

CLEANING AND REPLACEMENT

- Elder Demolition shall provide the protective clothing required in a clean and dry condition at least weekly, and daily to employees whose exposure levels without regard to a respirator are over 200 ug/m3 of lead as an 8-hour TWA.
- Elder Demolition shall provide for the cleaning, laundering, and disposal of protective clothing and equipment required.
- Elder Demolition shall repair or replace required protective clothing and equipment as needed to maintain their effectiveness.
- The employer shall assure that all protective clothing is removed at the completion of a work shift only in change areas provided for that purpose.
- Elder Demolition shall assure that contaminated protective clothing which is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area which prevents dispersion of lead outside the container.
- Elder Demolition shall inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
- All containers that contain lead contaminated protective clothing and equipment are labeled as follows:

Caution: Clothing contaminated with lead.
Do not remove dust by blowing or shaking.
Dispose of lead contaminated wash water in
Accordance with applicable local, state, or
Federal regulations.

HOUSEKEEPING

- All surfaces shall be maintained as free as practicable of accumulations of lead.
- Clean-up of floors and other surfaces where lead accumulates shall wherever possible, be cleaned by vacuuming or other methods that minimize the likelihood of lead becoming airborne.
- Shoveling, dry or wet sweeping, and brushing may be used only where vacuuming or other equally effective methods have been tried and found not to be effective.
- Where vacuuming methods are selected, the vacuums shall be equipped with HEPA filters and used and emptied in a manner which minimizes the reentry of lead into the workplace.
- Compressed air shall not be used to remove lead from any surface unless the compressed air is used in conjunction with a ventilation system designed to capture the airborne dust created by the compressed air.

HYGIENE FACILITIES AND PRACTICES

- Elder Demolition will assure that in areas where employees are exposed to lead above the PEL without regard to the use of respirators, food or beverages is not present or consumed, tobacco products are not present or used, and cosmetics are not applied.

CHANGE AREAS

- Elder Demolition will provide clean change areas for employees whose airborne exposure to lead is above the PEL, and as interim protection for employees performing exposure assessment.
- Elder Demolition will assure that change areas are equipped with separate storage facilities for protective work clothing and equipment and for street clothes which prevent cross-contamination.
- Elder Demolition will assure that employees do not leave the workplace wearing any protective clothing or equipment that is required to be worn during the work shift

SHOWERS

- Elder Demolition shall provide shower facilities, where feasible, for use by employees whose airborne exposure to lead is above the PEL.
- Elder Demolition will assure, where shower facilities are available, that employees shower at the end of the work shift and shall provide an adequate supply of cleansing agents and towels for use by affected employees.

EATING FACILITIES

- Elder Demolition will provide lunchroom facilities or eating areas for employees whose airborne exposure to lead is above the PEL, without regard to the use of respirators.
- Lunchroom facilities or eating areas are as free as practicable from lead contamination and are readily accessible to employees
- Employees whose airborne exposure to lead is above the PEL, without regard to the use of a respirator, wash their hands and face prior to eating, drinking, smoking, or applying cosmetics.
- Employees do not enter lunchroom facilities or eating areas with protective work clothing or equipment unless surface lead dust has been removed by vacuuming, downdraft booth or other cleaning method that limits dispersion of lead dust.

HAND WASHING FACILITIES

- Elder Demolition shall provide adequate hand washing facilities for use by employees exposed to lead.
- Where showers are not provided Elder Demolition shall assure that employees wash their hands and face at the end of the work shift.

MEDICAL SURVEILLANCE

- Elder Demolition shall make available initial medical surveillance to employees occupationally exposed on any day to lead at or above the action level. Initial medical surveillance consists of biological monitoring in the form of blood sampling and analysis for lead and zinc protoporphyrin levels.
- Any employee exposed at or above the action level for more than 30 days in any consecutive 12 months must be tested every 2 months for the first 6 months and every 6 months thereafter. Providence Occupational Medicine Clinic will be Elder Demolitions licensed physician.
- Any employee whose last blood sampling and analysis indicated a blood lead level at or above 40ug/dl, at least every 2 months. This frequency shall continue until two consecutive blood samples and analyses indicate a blood lead level below 40 ug/dl. Also, for each employee who is removed from exposure to lead due to an elevated blood lead level at least monthly during the removal period.
- Any employee with level at or above 50ug/dl will be removed from jobs that have an exposure to lead.

SIGNS

- Elder Demolition shall post the following warning signs each work area where an employees' exposure to lead is above the PEL. The sign will read as follows:

  WARNING LEAD WORK AREA POISON

  NO SMOKING OR EATING
- The signs will be in a highly visible area and kept always cleaned. The area will have red barricade tape that says *DANGER*.

6.0 FIRST AID AND EMPLOYEE HEALTH

In the absence of medical assistance that is reasonably accessible in terms of time and distance to the worksite, a person who has a valid certificate in first aid shall be available to render first aid. All projects regardless of the number of individuals shall have at least one person that is certified in first aid. The individual should have a valid multimedia first aid card and know CPR. The certificate shall be obtained from the US Bureau of Mines, American Heart Association, or equivalent training that can be verified by documentary evidence. **All projects shall have a written rescue or emergency action plan with phone numbers and directions to the nearest hospital along with proper address and directions to the project should 911 need to be notified.**

Each location and each crew vehicle should be equipped with a first aid kit that is approved by a physician. It should be highly visible inspected and replenished on a regular basis.

Where chemical hazards exist, eye or eye/face wash station and showers should be available. These facilities should be inspected monthly. Units, which contain water, have a useful shelf life, and require replacement on a periodic basis. There is generally an expiration date on the container.
All injuries, regardless of size, must be reported to a supervisor immediately.

6.1 BLOOD BORNE PATHOGENS

It is our policy and responsibility to ensure that every employee is properly trained and educated to perform the work necessary safely. Training shall be done prior to initial assignment and shall be documented including the employees' name, dates of training and subject. Each employee must be educated for every task that they undertake and on a yearly basis. It is the supervisor's responsibility for ensuring that their workers are able and capable of performing each task safely. Employees shall have access to a copy of every exposure control plan. They may also request a copy of such plan and be assured it will arrive in a reasonable time, place, and manner to them.
A **Pathogen** is any microscopic organism, specifically a bacteria, virus, or parasite that can cause disease in a human being. The term **Blood Borne** infers being contained or carried in blood, blood-contaminated material, or other body fluids. Universal precautions shall be observed and under circumstances in which differential between body fluids is difficult or impossible; all body fluids will be considered potentially infectious. Hand washing facilities are readily available at all work locations or we shall ensure antiseptic solutions or wipes will be available for use. Appropriate PPE shall be always worn depending on the task and shall be provided at no cost to the employee.
The most common event when you might encounter true Blood Borne Pathogens in the workplace would be while rendering first aid to a co-worker. The HIV and the hepatitis B and C viruses are the most dangerous pathogens in these instances. Only employees that are trained shall administer CPR. Proper hand and mouth protection shall be utilized in any situation of this nature. Any exposure to blood shall be reported and followed up with checkup from a Dr. If a situation occurs where blood has been present the areas shall be properly cleaned prior to work commencing. Hepatitis B vaccine shall be made available to all employees with occupational exposure at no cost.
Any employee exposure shall be documented, and training records kept for no less than 3 yrs. and medical records for 30 years past employment.
Specifically in demolition we can also encounter needles. Needles shall be properly disposed of, and never attempt to put a cap back on a needle found on a construction site as this is a leading cause of injury with needles.

6.2 HEAT ILLNESS PREVENTION

To work effectively in hot conditions, certain precautions must be taken. Over-exposure to high temperature and humidity levels during prolonged physical exertion may result in heat disorders such as Heat Cramps, Heat Exhaustion or Heat Stroke. Common sense and thoughtful scheduling are the best way to prevent heat related illnesses. Supervisors will be trained in preventing heat related illnesses prior to supervising employees. The following are measures to be in place to control the effects of environmental factors contributing to heat related illnesses:

- Employees shall be provided with potable drinking water.

- Employees shall be provided access to shade or company provided shade to get out of the heat when necessary.
- Work schedules shall be varied as necessary in extreme weather.
- Clothing shall be evaluated in extreme weather.
- Supervisors will be trained in emergency response procedures related to heat illnesses.
- Physical & Personal factors can affect and contribute to heat related illness and should be taken into consideration by supervisors when assigning tasks.
- Supervisors will have the authority to adjust work schedules and methods and personnel to ensure that high heat related illnesses are prevented including the use of mechanical means instead of physical labor if possible.

7.0 SUBCONTRACTORS

As a subcontractor you are required to comply with the Elder Demolition general safety rules as well as applicable OSHA standards. To accomplish our goal of an accident-free workplace all subcontractors are expected to perform their work in a safe manner. The Elder Demolition safety program was developed to create a safe work environment for everyone.

All subcontractors shall be pre-qualified by the Elder Demolition safety team including checking said subcontractors EMR and safety program prior to commencing work or on a yearly basis. If subcontractors work on a specific project is considerable then they shall be invited to the pre-job meetings for planning. All subcontractors shall attend Elder Demolition tailgate safety and pre-task meetings while on site. Foremen are to report any post job safety performance issues to the safety department on a regular basis.

No employee should be allowed to work alone in the field without processing a means of two-way communication. Those employees working alone should check in at regularly scheduled times.

If employees are exposed to noise levels above 80 decibels, they should be wearing ear protection.

8.0 SAFETY PROCEDURES FOR SPECIFIC TASKS

8.1 LIFTING

Lifting injuries are one of the most common industrial accidents. Limiting the need to bend by storing loads off the floor can reduce your risks. Always do an assessment before manual lifting occurs, listing the potential hazards and mechanical options or alternatives if possible. All employees shall be properly trained in lifting as to prevent musculoskeletal injuries. These tips are designed to show you how to lift heavy or odd shaped loads with a minimum risk of injury.

- Never lift more than you can comfortably handle, reduce the size of the load, or get help.
- Position feet firmly with one foot beside the load and the other foot slightly behinds the load.
- Pick the lifting position that feels most comfortable with or without a straight back.
- Get a grip on the load with your fingers under it if possible.
- Prepare your back, legs, hips, and arms to take the load.

- Lift slowly and gradually; do not make any sudden jerking or twisting motions.
- Walk slowly without twisting, do not turn with your waist, and use your feet.
- Put the load down slowly.
- Keep the load close to you; avoid reaching as you lift and lower.
- The company shall provide any manual lifting equipment and engineering controls necessary to safely complete manual lifts.

Should an injury occur while lifting an investigation by the safety team shall be completed and assessing the options to avoid such injuries in the future. If there is a situation of repeated lifting a supervisor will periodically evaluate the process and employee's technique to assess the potential for and prevention of injury.

8.2 SCAFFOLDING

Prior to using scaffolding, you must be trained in the safe use of the scaffold by a certified individual. Training shall include any hazards near the scaffolding such as fall, electrical, falling objects, proper use / load capacity and personal fall protection requirements. Training shall be completed and renewed on a yearly basis as well as when conditions change and require more training.
Prior to the initial use and daily the scaffolding shall be inspected by a competent person. Should any portion of the scaffold be found to be unsafe then a lock out tag shall be installed and used to keep employees off and safe.
In other words, written TAGS shall be used when defective equipment or unsafe conditions are found to ensure employee awareness.
Guardrails should be always used, never stand on the rails.
Use pins in scaffolding at each joint and wheels.
Use the locks on all four wheels.
The scaffolding needs to be checked daily for loose pins and braces.

8.3 ELECTRICAL SAFETY

Electrical current will flow to ground by the path of the least resistance whether it is through the employee or a wire. All employees shall be trained in general electrical safety as well as any projects or conditions that have specific electrical hazards. The following rules are to keep employees from becoming a path of least resistance:

- Whenever working near deenergized parts they are to be treated as live until the employee has confirmation, they are safe. Employees are not authorized to work near exposed energized parts or equipment without a specific written plan by the safety director. This plan would include apparel that is non-conductive or covering such materials if necessary.
- Proper illumination is required in all areas work is to occur. No employee shall enter a room with energized parts or equipment that is not properly illuminated.
- No employees shall work on/repair energized parts or equipment ever.
- We do not utilize qualified employees for adherence to table S5. Only licensed Electricians will be hired should this work need to be done.
- In the case of confined or enclosed spaces the permit shall include any protective or insulating measures necessary if working around electrical hazards.
- All extension cords should be inspected for defects before use, damaged cords are not to be used. They are to be taken out of service and reported to a supervisor.
- All extension cords and temporary wiring must be three wire conductor and connected only to a properly grounded outlet connection.

- Know whether circuit wires are energized before beginning work near any exposed electrical wiring or components.
- Do not make electrical repairs, connections, or installations unless you are qualified to do so.
- Protect extension cords and wiring from damage by being run over, sharp corners and pinching.
- Do not wear metal or conductive hard hats when working near exposed overhead wires or other exposed electrical wiring and components.
- Do not use any electrical power tools that are not properly grounded or double insulated.
- Do not use any electrical power tools that have the electrical prong missing. Any tool that has the prong missing or has been damaged needs to be Tagged out for non-use. Either danger tape tied to the cord, complete a tag with the description of the issue wired to the cord.
- Do not use any extension cords smaller than 12 gauge.
- Like aerial lifts, employees must maintain a minimum distance of 10' while working around power lines either on the ground, lift or vehicles/equipment.
- Portable ladders shall have non-conductive side rails should the circumstance require.

8.4 AERIAL LIFTS

Working from aerial lifts can cause serious harm if not used in the correct way. Under no circumstances shall a lift be modified from its factory condition. Only authorized persons are allowed to operate equipment and aerial lifts. All employees shall be properly trained in the use of aerial lifts prior to ascending. Training shall include at a minimum the expectation to know how to lower a basket from the ground controls in the case of an emergency. A pre-use inspection including testing the controls before use. During pre-use inspection include the calculations to ensure that the load limits are not exceeded and that all alarms are in full working order. Employees shall stand firmly on the deck of an aerial lift and used approved fall restraint and arrest systems that are attached to the appropriate location on the basket, boom or required location. Equipment and aerial lifts will have working back up alarm or spotter when backing. Vehicle has reverse signal audible above surrounding noise level.
Aerial lifts shall only be used on smooth, firm, level surfaces and always maintain a minimum clearance between electrical lines of 10'.

8.5 LADDERS

Ladders are one of the most common causes of injury in the construction and can get taken for granted since they are so prevalent. All employees shall be trained in the proper use of ladders prior to using. All ladders shall be inspected prior to each use for damage.

- Each ladder must be the proper size and strength of construction for its intended use and load limits shall not be exceeded.
- All ladders must be free from cracks, splits, or damage. Damaged ladders shall be removed from the site.
- Extension ladders must extend 3 feet above the top edge and be secured at top and bottom.
- Extension ladders should be placed at a safe angle for use. The ultimate angle is 4:1 ratio.
- Tools or heavy materials shall be hoisted up with a rope vs. carried up the ladder.
- All ladders shall meet OSHA/ANSI standards for uniform spacing etc.
- Ladders shall only be used as intended and not for platforms or other tasks not intended during the design of ladders.

8.6 CRANES

Most of our crane work is subcontracted out to professional crane companies but applies to hoisting of equipment and building components with our excavators as well. All ground conditions shall be able to support the equipment and any supporting materials. During pre-task or lift plan address all hazard areas by marking swing radius with warning lines or barriers. Operators must be qualified per state regulations prior to operating cranes. All manufacturer instructions and prohibitions must be followed when assembling equipment and during any lifts and shall be directed or supervised by a competent and qualified person. Operator's manual shall be always readily available in the cab during lifts. No modifications to factory equipment are allowed.

All lifts shall constitute a pre-task plan or lift plan ensuring work zone is clear of at least 20' to nearest power lines, proper conditions and sizing of crane has been done. If required to work closer than 20' to a power line, then proper precautions shall be required including flagging and potentially protecting or removing line depending on the situation. All rigging equipment shall be visually inspected prior to each shift. Any company owned rigging equipment shall be inspected by a competent person monthly and documented. All safety devices must be in proper working order before operation begins. Follow all manufacturers procedures, have procedures available in the cab.

All operators (company employed or subcontracted) have the right to stop and refuse to handle loads if they feel it is a safety concern. The signal person must be in unobstructed view or have constant communication with the operator and properly trained.

8.7 RIGGING / MATERIAL HANDLING

Only qualified persons should ever perform hoisting and lifting operations. Riggers work with hoisting tackle and gear that consists of hooks, blocks, eye-rings, webbed netting, slings and many more. Before starting any lifting operations, a meeting should be had by all involved personnel to review the "LIFT PLAN". This plan should include a detailed process and sketch if necessary to serve as a visual guide.

All rigging personnel shall be properly trained prior to initial assignment. They should inspect all rigging equipment prior to each shift and any defective or damaged equipment must be removed from the site immediately or at a minimum tagged out. During rigging operations all rigging equipment shall be inspected as necessary to ensure that it is safe prior to each pick. All rigging shall be clean and free from grease and oils as well as all load tags in place and able to read. No rigging shall be loaded beyond the safe working load recommended on the tag. Slings are not to be shortened during picks by wrapping or in other ways reducing the capacity. All hooks shall be equipped with and in proper working condition a latch to prevent the sling from slipping off the hook in flight. When not in use the rigging equipment shall be stored in a clean environment or removed from the job until needed again. Any custom design grabs, hooks or other lifting accessories must be proof tested to 125 percent of their rated load and marked to indicate such. Custom design items are not permitted to be done by Elder Employees and must be done by a third-party engineer.
We recommend the use of tag lines attached to loads to help guide in the air. Ensure tag line is long enough so that the rigger does not get underneath the load while guiding it. No employees shall pass under a load while a lift is in motion.

8.8 TRENCHING / SHORING EXCAVATIONS

Jobsites can change daily, and excavations are made quickly with the use of modern machinery. Even before there is a hazard from excavating, we need to ensure the utilities have been located and identified by the proper people. Open trenches and excavations are especially hazardous if not properly marked, barricaded, or shored. The following are guidelines for working around open trenches and excavations on the job:

- Prior to creating a trenching or soils shoring plan the soils engineer must be consulted and soil samples be tested to ensure the protection system is being properly used.
- Any excavation or trench must be properly barricaded or flagged to alert personnel to the hazard.
- Spoil piles are to be stored a minimum 2 feet from the edge of the excavation.
- Daily inspection of excavations and protective systems must be made by a competent person. The competent person shall be responsible for inspecting the soils condition looking for any changes due to weather or additional work that has been completed near the excavation as well as the shoring and flagging to ensure workers safety.
- Do not operate vehicles adjacent to any open trenches or excavations to avoid collapse.
- Employees are not to work underneath buckets as excavation is occurring to avoid falling objects.
- Employees are required to wear reflective garments for protection from vehicular traffic.
- If an excavation becomes a confined space, then tests will be conducted to ensure air quality and confined space training will kick in.
- If water is accumulating in the excavation, then a dewatering plan will be created to ensure employees are not at risk.
- If an excavation requires a ramp down in the hole, then a maximum travel distance of 25' will be allowed for safe egress.
- If walkways are needed, then the proper guardrails will be installed.
- All major excavations and shoring operations shall be coordinated with the soils engineer of record and review all the soil types to ensure protection systems are adequate. This shall include classifying and stabilizing of the soils.
- Each excavation plan shall include provisions for rescue in the event of a collapse.

9.0 ASSURED EQUIPMENT GROUNDING PROGRAM

We have established and implemented assured equipment grounding conductor program on our construction sites covering all cord sets, receptacles that are not a part of the permanent wiring of the building or structure, and equipment connected by cord and plug, which are available for use by our employees. Each jobsite shall have a designated competent person or the site supervisor to oversee the Assured Grounding Program.

Each cord set, attachment cap, plug and receptacle of cord sets, and any equipment connected by cord Ground Fault Circuit Interrupter (GFCI) plug except cord sets and receptacle which are fixed and not exposed to damage, shall be visually inspected before each days' use for external defects. Defects such as deformed or missing pins or insulation damage and for indication of possible internal damage. Equipment found damaged or defective may not be used until repaired.

- All equipment grounding conductors shall be tested for continuity and shall be electrically continuous.

- Each receptacle and attachment cap or plug shall be tested for contact attachment of the equipment-grounding conductor. The equipment-grounding conductor shall be connected to its proper terminal.

All required tests shall be performed:

- Before first use.
- Before equipment is returned to service following repairs.
- Before equipment is used after any incident which can be reasonably suspected to have caused damage (i.e., cord is ran over.)

A copy of the description of our program is available on each jobsite and in our main office for inspections by the Department of Insurance and Finance and any affected employee.

10.0 POWER TOOLS AND EQUIPMENT

Working on a construction project you will be required to operate and work around power tools and equipment. These tools and equipment must be operated in a safe manner as well as kept in a safe condition. When you are assigned to operate a power, tool make sure you are familiar with its safe operation. Do not operate it until you understand the operations manual, and a foreman has explained how to use it safely.

- Make sure all required guards are on equipment.
- Ensure you have the proper PPE for the specific power tool.
- Render it dead, Hit the red. Always push the red safety button on a scissor lift once you are at your working height or once you leave the platform to avoid any accidental movement.
- Make sure hand operated power tools have been marked “safe” by an Electrical Equipment Testing program.
- Make sure the tool has a trigger release that will not lock the tool in a continuous operation mode.
- Power actuated tools, forklifts, cranes, and lift unite require a special operator card. Have the appropriated certification card before operating this equipment.
- It is the responsibility of the company of supplying the tool or equipment to assure it is in safe working condition when it arrives on the project.
- Anything found not to be in safe working condition must immediately be tagged out of service and returned to the tool supply area or removed from the project.
- Only authorized personnel handle the equipment maintenance.
- Tools and equipment must be disconnected whenever you are involved in maintenance even changing a saw blade.
- To prevent a hazard, any equipment requiring service that would put a worker in jeopardy of being pinched or crushed, must be blocked up.

11.0 SKID STEER/HEAVY EQUIPMENT SAFETY

All personnel operating heavy equipment shall be properly trained before operating. They will also be certified by a competent person on a yearly basis. As an operator for Elder Demolition the employee

should perform a daily inspection of the equipment. This procedure will help identify any mechanical or other potential hazards before operation.

- After completing the daily inspection of the equipment walk through the work area and inspect all debris containers before loading. Identify potential hazards and notify a supervisor.
- When operating skid steer, a clean path for load out is extremely important. A clean path will eliminate tripping hazards and be more efficient.
- Avoid tunnel vision. Situations in demolition areas are constantly changing, keep your eyes working peripherally, seeing all potential hazards before they are accidents.
- Never fuel or oil equipment near storm or sewer drains.
- Employees working around equipment must wear a reflective vest.
- While unloading equipment or vehicles, employees must ensure that the trailer chocks or dock plates are in place and proper prior to unloading.

Should the competent person or an incident warrant retraining, the company may choose at any point to have the operator attend some additional training or revise their operator certificates.

11.1 FORKLIFT

Forklifts are a very useful machine but can be involved in many job-site injuries and accidents. All employees shall be properly trained and certified yearly by a qualified/certified instructor to operate a forklift and refresher training on a yearly basis. All forklift operators shall also be subject to re-evaluation every 3 years. Training may include formal classroom instruction as well as practical training and operator evaluation in the workplace. Training shall include critical activities such as load capacity ratings, machine specific instructions, distances around machines and above ground, refueling, navigating ramps, visibility, and counterbalances. As with all heavy equipment, Forklifts shall be inspected daily before each shift or first use of the day if they are used round the clock.

- Always ensure that the load capacity is rated correct for the load you are attempting to lift.
- Never tilt the load forward while the load is elevated, or the forklift is moving downhill.
- All manufactures guarding including an overhead guard must remain in place and unaltered.
- Always operate on solid and level ground.
- Never use a forklift as a man-lift.
- Do not allow other personnel to stand underneath the load as it is suspended.
- Always wear your seatbelt as roll over incidents are extremely dangerous.
- Maintain good visibility or employ a spotter to assist you.
- While unloading trucks, use trailer chocks or dock plates.

12.0 PERSONAL PROTECTIVE SAFETY EQUIPMENT

Proper usage of company-supplied equipment is necessary for safety on all Elder Demolition job sites. All employees will be trained in the proper use of PPE including when to wear certain PPE, what should be worn, how to put on and take off/adjust certain PPE. Training will also cover the proper sizing and fitting of PPE as well as the sanitary maintenance of PPE. All PPE shall be provided by the company, used, and maintained in a sanitary and reliable condition. Any defective equipment that is in disrepair must be discarded or removed from service. Employee-owned PPE is not allowed. Should there be any reason or suspicions that an employee does not understand or is using PPE incorrectly the employee shall be retrained. All training shall be refreshed on a yearly basis and documented. Retraining shall be conducted

when the workplace changes, making the earlier training obsolete; the type of PPE changes' or when the employee demonstrates lack of use, improper use, or insufficient skill or understanding.

Prior to the project beginning the PPE requirements specific to the project will be assessed as a part of the job hazard analysis. The certified hazard analysis shall be in writing and signed by all employees present on the job.

The following equipment is always required:

- Hard Hat
- Safety Glasses
- Leather Boots
- Noise Control (Always use ear plugs or muffs when you must raise your voice to talk to other workers.)

Additional requirements for specific tasks are as follows:

- Skid Steer Operation
  - Ear Plugs
  - Respirator when necessary

- Electric or Pneumatic Hammers/Drills
  - Ear Plugs
  - Respirator
  - Gloves

- Electric or Gas Abrasive cut off Saws
  - Ear Plugs
  - Fire Extinguisher
  - Gloves
  - Full face shields are required
  - Leather chaps are required
  - Respirator when necessary

- Cutting Torch
  - Welding Gloves
  - Dark Goggles
  - Leathers
  - Fire Extinguisher
  - Respirator with OV/P100 cartridges when necessary

- Work Above Six Feet
  - Full Body Harness
  - Appropriate Tie Offs
  - Refer to Fall Protection section for addition detail

- Breaking glass

- Full face shields are required when breaking glass,
- Leather chaps and full arm sleeve protective devise (leather or Kevlar).
- Only break glass by hand as a last resort if no safer ways can be employed.
- Ensure that the tool being used is longer that the area behind the glass so that your hand and arm will not be able to reach through the frame and risk serious cut injury.

13.0 HEARING CONSERVATION PROGRAM

WHAT IS OCCUPATIONAL NOISE EXPOSURE

Sound consists of pressure changes in a medium (usually air), caused by vibration or turbulence. These pressure changes produce waves emanating away from the turbulent or vibrating source. Exposure to high levels of noise causes hearing loss and may cause other harmful health effects as well. The extent of damage depends primarily on the intensity of the noise and the duration of the exposure.

Noise-induced hearing loss can be temporary or permanent. Temporary hearing loss results from short-term exposures to noise, with normal hearing returning after period of rest. Generally, prolonged exposure to high noise levels over an extended period gradually causes permanent damage.

OSHA's hearing conservation program is designed to protect workers with significant occupational noise exposures from hearing impairment even if they are subject to such noise exposures over their entire working lifetimes.

WHAT MONITORING IS REQUIRED

OSHA requires Elder Demolition monitor noise exposure levels in a way that accurately identifies employees exposed to noise at or above 85 (dB) averaged over 8 working hours, or an 8-hour time-weighted average (TWA).

Employees are entitled to observe monitoring procedures and must receive notification of the results of exposure monitoring. Elder Demolition will notify employees with company memos.

Evaluation of hearing protector attenuation shall be done as part of the pre task planning and as needed should the environment and or situation change. All evaluations shall be in writing and available to employees. Should employees want protection above and beyond it shall be provided at no additional cost.

BASELINE AUDIOGRAM

The baseline audiogram is the reference audiogram against which future audiograms are compared. Elder Demolition will provide baseline audiograms within 6 months of an employee's first exposure at or above an 8-hour TWA of 85 dB. All employees are required to wear hearing protectors whenever they are

exposed to noise levels above a TWA of 85. All hearing protectors are available to employees at no cost and will be provided by the company.

Employees should not be exposed to workplace noise for 14 hours before the baseline test or wear hearing protectors during this time.

ANNUAL AUDIOGRAMS

Elder Demolition will provide annual audiograms within 1 year of the baseline. It is important to test workers' hearing annually to identify deterioration in their hearing ability as early as possible. This enables Elder Demolition to initiate protective follow up measures before hearing loss progresses. Elder Demolition will compare annual audiograms to baseline audiograms to determine whether the audiogram is valid and whether the employee has lost hearing ability or experienced a standard threshold shift (STS). An STS is an average shift in either ear of 10 dB or more at 2,000, 3,000 and 4,000 hertz. Records of these tests will be kept at the office and available to employees for a period of at least 7 years.

FOLLOWING AN AUDIOGRAM EVALUATION

Elder Demolition will fit or refit any employee showing an STS with adequate hearing protectors, show the employee how to use them, and require the employee to wear them. Elder Demolition will notify employees in writing within 21 days after the determination that their audiometric test results show an STS. Some employees with an STS may need further testing if the professional determines that their test results are questionable or if they have an ear problem thought to be caused or aggravated by wearing hearing protectors. If the suspected medical problem is not thought to be related to wearing hearing protection, Elder Demolition must advise the employee to see a physician. If subsequent audiogram is not persistent, employees whose exposure to noise is less than a TWA of 90dB may stop wearing hearing protectors.

TRAINING

Employee training is very important. Training will be done on an annual basis in conjunction with the annual audiogram and shall be updated to be consistent with changes in the PPE and work environment or process. Workers who understand the reasons for the hearing conservation programs and the need to protect their hearing will be more motivated to wear their protectors and take audiometric tests. Required training consists of; the purpose, advantages, and disadvantages of various types of hearing protectors. Also, the selections, fit, and care of protectors, and the purpose and procedures of audiometric testing. The training program may be structured in any format, with different portions conducted by different individuals and at different times, if the required topics are covered. All records of annual testing as well as exposure assessment shall be available for review in the main office.

14.0 SAFETY, TOOLBOX AND SAFETY COMMITTEE MEETINGS

14.1 TOOLBOX MEETINGS

To promote job specific safety, toolbox safety meetings should be held with all employees on a regular basis. The minimum frequency of these meetings should be once a week. Those locations that have a higher hazard potential should be held daily.

Besides discussing safety in general, a specific relevant topic should be chosen and discussed. The selection of the topic is the responsibility of the supervisor and or project manager. The topic chosen should be relevant to past accidents, loss prevention, current activities, etc. Employees are encouraged to bring attention to their safety concerns as topics for discussion.

Location supervisors should lead toolbox safety meeting, all employees are required to attend, and their active participations are encouraged.

A record of each toolbox safety meetings should be retained at the jobsite. The safety meeting form found in the form section of the safety manual should be used for this purpose. A copy of this, needs to be turned into the office.
Items brought up during toolbox meetings that require corrective action should be documented on the safety meeting form. A procedure should be established to make certain that any required corrective action is carried out. These items shall be brought up in the safety committee meeting to ensure they were taken care of.

14.2 SAFETY COMMITTEE MEETINGS

The safety committee consists of equal members from the office and the field. The safety committee shall meet monthly to discuss areas of concern and make appropriate recommendations. There shall be a new topic discussed at each of these meeting. It shall be the responsibility of the corporate safety director to determine what will be discussed. Whenever possible there will be a guest speaker or video on certain topics. All employees are welcome to attend and participate in these meetings.

14.3 RECORD KEEPING

All safety and toolbox meeting minutes shall be made available in the corporate office to all employees. Each employee will be reviewed and evaluated by the safety committee to combat recurring problems.

15.0 ACCIDENT PROCEDURES

The goal of the Elder Demolition Safety Program is to prevent accidents and promote a safe work environment for all employees. We strive to learn from similar operations or situations to help prevent incidents or reoccurrence. Should an accident occur on the job we must be prepared to handle it effectively. An emergency medical plan must be posted in the project office. In the event of a very serious or fatal on the job accident, the following procedures must be followed.

- Immediate first aid, transportation or professional medical treatment must be provided. Stabilize the victim and call for help.
- Contact emergency medical transportation and the hospital listed on the Project Emergency Medical Plan.
- Clear a path and help direct emergency vehicles to the appropriate area(s).
- Secure the accident area for a thorough investigation.
- Immediately notify the Elder Demolition Safety Department. New rules require notification of OSHA within four hours of serious and/or fatal accidents.
- The superintendent or foreperson will accompany or follow the injured worker to the hospital.

- The foreman and superintendent will fill out an accident report form and Elder Demolition report of accident form. These forms must be submitted to the Elder Demolition office by the end of the shift.
- Arrangements should be made by the foreperson or co-workers to secure the injured workers tools and personal belongings.
- Work will not continue around accident area until cause has been identified and corrective action to prevent reoccurrence has been taken.
- The project superintendent will notify appropriate family members of the accident victim.
- All incident's (accident or near miss) will be investigated and documented by the safety team and any corrective actions will be documented and implemented as a result. Any new personnel tasked with investigating an incident will be properly trained in doing so and any equipment necessary.
- Major accidents will be investigated by a third-party consultant and consist of in-depth identification and assessment, collection, and preservation of evidence. They will conduct witness interviews and gather statements.
- Reporting accidents to the appropriate regulatory agencies (State, Federal and workman's comp) shall be within 8 hours and to the host facility within 24 hours.

16.0 ASBESTOS POLICY

The purpose of this program is to ensure the safety of Elder Demolition employees and compliance with the OSHA Asbestos Standard. Employees may be exposed to "Asbestos Containing Materials" (ACM) in building mechanical rooms, crawl spaces, or attics. As a result, this program is designed to ensure the health and safety of our employees. Health effects of Asbestos include respiratory disease and have caused various types of cancer. A Hazardous Material survey is required to be present on all projects. All ACM shall be removed prior to any demolition and the Asbestos company will provide proof of clearance testing prior to work beginning so we do not require exposure monitoring. At the onset of project and periodically throughout the project, the Superintendent or Foreman shall review the Hazardous Material Survey with all employees so they know what material is either present or what material was removed so that they can keep an eye out for any potential hazards. All employees shall be properly Asbestos trained prior to initial assignment. Training shall be documented and include name and subject. All training materials will be available to employees upon request.

Prior to beginning any project, we require proof of Asbestos testing in writing.

Ongoing Abatement Activity

Should there be Asbestos removal ongoing in any portion of the building or site we are working on, Supervisor shall ensure that the area is properly marked and sealed off from public or from our workers prior to our demolition crews working on site. All Asbestos removal is done within airtight containment to prevent outside exposure.

RESPONSIBILITIES

Project Manager - Will request an asbestos site survey when considering performing work on any structure regardless of the date built. A copy of this survey will be sent to the main office before dispatching of employees to the job. The survey will be available to any employee asked to work on the project.

Site Supervisor – Will communicate the results of the site-specific survey with all employees on site. The Site Supervisor will ensure that if ACM is present, all on-site employees have received the required Asbestos Awareness training and applicable annual refreshers prior to being dispatched to the jobsite. When working on multi-contractor sites, supervisors shall ensure that employees are protected from exposure from others.

Employee Responsibility – Employees will make certain they are familiar with the site-specific ACM survey and all locations where they may come into the proximity of ACM. Employees will be familiar with the identification of ACM and will be trained yearly in awareness. In the event employees are working in the same building or site that active asbestos removal is occurring, they shall abide by warning signs and labels and will not disturb the Asbestos Containing Materials or areas.

Employees will report to their supervisor immediately upon identification of any material they presume to be ACM.

17.0 FALL PROTECTION (OSHA 1926.501, 1926.503, & 1926.503) (WAC 296-155-24601-24624)

Fall protection at Elder Demolition is accomplished by a thorough analysis and pre-planning before work begins. Each site-specific Fall Hazard analysis (potential falls over 6') shall be completed by a qualified person. Fall protection pre-task plans shall include specifically the prompt rescue of employees in the event of a fall including the prior planning of such anchor locations or rescue lifts etc. Due to the seriousness of fall injuries employees must exercise extreme caution. If for any reason you are uncomfortable working at heights notify your supervisor immediately. If you have not been trained by a qualified person on how to wear and use fall protection, you are not to use fall protection or be in a situation that requires fall protection. Use of fall protection systems and equipment is mandatory on our projects. Any employee found in violation of the Elder Demolition Fall Protection Requirements is subject to termination. Any accidents or near miss situations involving fall protection shall be investigated by management or third-party consultant to evaluate the fall protection plan for potential updates and training.

Fall Protection system Means personal fall arrest system, fall restraint system, positioning device system, guardrail system, safety net system, warning line system, or slide guard system. All systems and equipment shall meet ANSI, ASTM, or OSHA requirements including raw materials for anchoring etc. All equipment shall be inspected prior to use and recertified as required by the manufacturer on a yearly basis.

Fall protection that Elder Demolition uses

- Body Harness
- Lanyard
- Safety-Retracting Lifeline/Lanyard
- Rope Grab
- Anchors

Site Specific Fall Protection Plan:

- Each project shall have a site-specific safety plan created by a qualified individual. Should the site-specific hazard analysis indicate a fall hazard then a site-specific fall protection plan shall be created by qualified individual.

Holes:

- All Elder Demolition employees will abide by all local, state, and federal regulations while working around holes and will be protected using personal fall protection or guardrail system.
- Each employee on a walking/working surface shall be protected from tripping in or stepping into or through holes (including skylights) by covers or toe boards.
- Each employee on a walking/working surface shall be protected from objects falling through holes (including skylights) by covers or toe boards.
- Smoke domes or skylights fixtures are not considered covers unless they meet the strengths requirements.

Wall Openings:

- All Elder Demolition employees will abide by all local, state, and federal regulations while working on, at, above, or near wall openings (including those with chutes attached) and will be protected from falling, using personal fall protection, or guard rail system.

Establish floors, mezzanines, balconies, and walkways:

- Each employee on established floors, mezzanines, balconies, and walkways, with an unprotected side or edge, shall be protected from falling by the use of personal fall protection or guardrail systems.

Excavations:

- Each Elder Demolition employee working at the edge of an excavation shall follow all local, state, and federal rules pertaining to the depth of excavation. The employee shall be protected from falling by guardrail systems, fences, or barricades.
- Each Elder Demolition employee working at the edge of a well, pit, shaft, or similar excavation, shall follow all local, state, and federal rules pertaining to such work. Employees shall be protected from falling by guardrail systems, fences, barricades, or covers.

Dangerous Equipment:

- Each employee shall be protected from falls into or onto dangerous equipment by personal fall protection, guardrail systems, or equipment guards.

Inspection Considerations:

- Any component with any significant defect, such as cuts, tears, abrasions, mold, or undue stretching; contact with fire, acids, or other corrosives; distorted hooks or faulty hook or faulty hook springs; tongues unfitted to the shoulder of buckles; loose or damaged mountings; non-functioning parts; or wearing or internal deterioration in the ropes must be withdrawn from service immediately and should be tagged or marked as unusable or destroyed. Fall protection must be inspected before every use.

Proper Usage:

- The body harness must be properly adjusted so that the harness is not loose but also not tight. The ring on your back should be in-between your shoulder blades. There should not be any loose straps hanging from your harness. Check and see that the harness has a factory tag that is readable.

- The yo-yo should be pulled out and checked for damage to wire and check to see if break works properly. The D ring should snap close and lock in a closed position. The tag should be readable on the case. The yo-yo must be off the ground when it is being used.

- The anchor point must be able to hold a 5000 lbs. minimum tensile strength. The anchor must have a label on it or be engineered and have paperwork.

- The anchor point shall be placed as to limit the distance of free fall. This free fall distance shall be no more than 6 feet.

- Positioning of Anchor point shall be considered to avoid any potential swing fall hazard as well. Making sure in the instance of a fall the employee will not swing into an additional hazard based on placement of the anchor.

Training:

- A qualified person will do training on the job. The person learning must demonstrate that he or she understands when and how to use the equipment. Training shall be documented and include the date of training, who was trained, signature of employee and trainer.
- Fall protection classes will be held periodically as needed as well as refreshing on a yearly basis.
- Job specific training will take place as conditions or workplace changes occur.
- Retraining shall occur when fall protection systems or equipment changes from the manufacturer are updated or old ones become obsolete. Retraining shall also occur when deficiencies in training are found & when the workplace changes.

Rescue Procedures:

- Rescue during a fall is a critical procedure that needs to be prioritized on an equal level during the fall protection plan. When creating a fall protection plan you must look at the potential for rescue during each decision to place an anchor.
- Limiting suspension time to avoid suspension trauma knowing that the employee may not be able to help in the rescue. Each case is different and may involve a lift or ladder access or additional tie off point with rescue devise pre-installed.
- Workers shall be trained in rescue procedures and training shall be documented.

18.0 HOUSEKEEPING

Housekeeping is an important issue on our projects. A neat clean job reflects directly on workmanship of the employees and the contractor. Many times, housekeeping is the first thing that people observe, and it creates a lasting impression. We are a service-oriented business, if the people we are serving observe that

our projects are in disarray it reflects directly on our ability as a contractor. We cannot afford this; good housekeeping directly affects safety, quality, and production.

It is the responsibility of every worker on the job to keep his or her work area neat, clean, and organized. When this happens every employee and contractor have a safer area to work in. Never rely on others to maintain your work area. Good housekeeping is especially critical in general access areas. Aisles, passageways, stairs, floor perimeters, entrances and exits must be kept clear of debris/tripping hazards.

All floors, roof holes and/or other openings must be securely covered with ¾" min plywood and marked, "HOLE DO NOT REMOVE". Guardrail systems with toe boards are required on all projects. Loose material should not be thrown off a floor or through an opening. Use trash chutes and skip boxes for moving loose materials. Barricade off areas and post safety monitors.

19.0 FIRE PROTECTION AND HOT WORK

A fire on any of our projects would be devastating; fire prevention is a function of planning, organization, housekeeping, and safe work practice by all employees. All employees shall be trained in the proper use of fire extinguishers and prevention associated with fire prior to initial assignment and at least annually thereafter. A hot work permit will be generated by the onsite supervisor or the facility we are working in prior to performing hot work. It shall be in the form of a written plan and used to authorize welding and cutting operations and prevent fire.

The most common elements that cause fires on jobsites are:

- Combustible Materials
- Heat Sources
- Oxygen

The most important element under our control is ignition sources. Any work that could be an ignition source such as welding and cutting will require a Hot Work Plan before cutting or welding can commence. All personnel performing welding or torch cutting shall be trained in the proper use of the device as well as the fire prevention methods mentioned below. If welding or cutting cannot be conducted safely it should not be done and another method shall be employed. If a fire watch is necessary, then a competent or trained employee shall stand fire watch. Fire extinguishers will be provided throughout the project and in special hot work area. Employees should be trained to identify the appropriate fire extinguisher and when to call for professional assistance. Fire extinguishers are subjected to monthly visual inspections (signing and dating the back of the tag) and an annual maintenance check by a third-party certified company. Defective hot work equipment shall be immediately removed from the site. Emergency fire procedures and medical services will be posted at the project office.

The next element under our control is good housekeeping. If the object being cut or welded can be moved to a secure non-flammable location, then keep combustible material picked up and stored in a dedicated area away from ignition sources. Loose materials or debris will not be tolerated. If the element can't be moved and there is still ignition source present, then it shall be guarded against fire with protective measures relative to the source. Do not torch or weld in any dusty environment or confined area that can result in a dust explosion. Proper ventilation and respiratory equipment shall be employed when hazardous fumes, gases or dust may be present.

Personal protective equipment such as clothing and respiratory protection shall be employed as needed to protect against fumes, burns and other hazards. If such conditions evolve, supervisor shall assist in creating a new hot work plan specific to the fumes or other hazards present before continuing. Should any equipment become defective, operators shall report immediately and discontinue to use until it has been repaired or replaced. Repairs will only be made by a qualified person or third-party company certified to do repairs.

All welding or torching shall stop 30 min prior to the end of shift, or a fire watch person is assigned to stay a minimum of 30 minutes and ensure the area is free from fire danger. Fire watch is required when any welding, cutting, or torching is performed near combustible materials or locations where fire may develop. Employees shall report any equipment defects and remove them from service until repairs are made.

Local fire service providers should be contacted during the initial phase of the project. They should be familiar with the location of the project. If a fire occurs, one person should attempt to extinguish and control while the second person calls for help.

When working in existing facilities, project safety plans and protocols specifically relating to the project must be developed in conjunctions with the facilities personnel.

20.0 HAZARD COMMUNICATION PROGRAM (Global Harmonized System 29 CFR 1910.1200)

The following Hazard Communication Program has been developed for Elder Demolition. The written program is available at the main office for employee review.

CONTAINER LABELING / HAZARD IDENTIFICATION

The superintendent will verify that all containers received for usage at the job site will:

- Be clearly and properly labeled as to hazardous chemical content.
- Labels will list applicable hazards and necessary work practice warnings and guidelines.
- Labels will list the product name and address of the manufacturer, the Chemical identity, Hazard pictograms, a warning statement, message, or symbol along with safe handling procedures. Secondary contains, not for immediate use will also be properly labeled.
- Key signal words in identifying hazardous materials: CAUTION, MODERATE RISK, WARNING, DANGER, SERIOUS RISK, MAJOR RISK.
- Labels shall not be defaced or removed.
- Employees must understand from training the picture and hazard of each material as shown below.

SAFETY DATA SHEETS (SDS'S)

For each substance brought on site by employer, employees shall obtain SDS's from the manufacturer. Copies of the SDS'S for all hazardous chemicals on the job sites will be maintained at each job site location and at the main office. These are readily available for employees to review upon request. SDS'S will be updated when new products are used, and old products discontinued.

EMPLOYEE TRAINING

Employees that are assigned to any job site where hazardous chemicals may be involved will be given the following information and the Superintendent will provide training.

- Overview of the Hazardous Communication Standard
- Hazardous chemicals in the work area.
- Work practices and personal protective equipment to prevent adverse exposure to these chemicals
- Warning properties and types of exposure (i.e., odor, welding smoke, skin contact, ventilation).
- Emergency procedures to follow if adverse exposure occurs.
- Emergency procedures for spills or non-routine tasks such as confined space entry.

TOOL BOX TALKS AND JOB SITE ORIENTATION

Toolbox will be conducted at least one a week. On certain jobs there may be a safety meeting done daily. In these meetings Hazard Communication will be discussed and reviewed. Every day before lunch there is a five to ten minute meeting called the HazCom Huddle. This meeting discusses any new hazards found during the first half of the shift, and what will take place during the second half of the shift. On certain jobs the general contractor will have a job site orientation. This orientation is specific to that job and may include, but not limited to, fall hazards, Lead, Asbestos, overhead work, and other hazards. The Elder Demolition foreman will also have an orientation that will discuss any hazards on the job site and any site-specific safety rules, like smoking on the owner's property. All information on chemicals present shall be consistent across multiple worksites or if employees are working for multiple employer worksites.

NON-ROUTINE TASKS

Employees who undertake duties not normally addressed in their day-to-day routine will be instructed regarding labeling, SDS, and notified that Hazardous Communications Notebooks are kept at each job site and a master copy at the main office.

CHEMICAL IN PIPES

Employees in areas where chemicals are transferred through pipes often perform work activities. Prior to starting work in these areas, the employees shall contact the Superintendent for information regarding:

- The chemical in the pipes, or the insulation material on the pipe.
- Potential hazards.
- Safety precautions, which should be taken.

SUBCONTRACTORS/SUPPLIERS

Subcontractors, suppliers or other who may encounter hazardous material on the project site will be notified prior to move in by mail or Project Manager with SDS on the particular material they may be exposed to.

HAZARDOUS CHEMICAL LIST

A complete list of hazardous chemicals that are used on the job site is located in the front of the SDS binder. Questions regarding this information should be addressed to the safety personnel at the main office.

21.0 EMERGENCY PREPAREDNESS

Each location should have a written emergency response plan. The emergency response plan should identify the different types of emergencies that could occur at the location, what responses will be taken for each of these emergencies, who is responsible to notify needed emergency response services, and those who are assigned to oversee and administer the emergency response program. The plan should be placed and maintained in an emergency response plan folder in the main office for a period of at least 18 months.

Emergency numbers posted should include police, fire, and medical/ambulance. A periodic emergency drill should be held so that employees will know how to respond to various emergencies. The minimum period between drills should not be more than six months. A written record of all drills should be kept for a period of at least eighteen months.

Management on a periodic basis to keep current with job operations should review the emergency response plan.

Should an evacuation take place an accounting of all personnel should be determined. If a response to an emergency requires the shutting down of equipment previously determined employees should carry out the required shut down task.

Where practical an emergency response team should be formed and trained. Needed equipment for such a response should assembled and maintained at the location.

22.0 CONFINED SPACES (OSHA 29 CFR 19.10.146)

Confined Spaces tend to compound existing hazards that may create dangerous situations. The leading cause of fatalities in confined spaces is asphyxiation but there are many others so confined space training is required in all such instances.
Classification of Confined Space:
Supervisor and/or safety director shall walk project to identify and classify any areas as confined space prior to work beginning.
Training:
All employees shall be properly trained, and proficiency documented prior to entering a confined space and prior to initial assignment as well as prior to a change in assigned duties or if a new hazard has been created including deviations from original plan. The confined space plan shall be reviewed on a yearly basis and revised as necessary.
Regarding permitted confined space, no one is to enter a confined space (manhole, boiler, pipeline, pits, trenches, etc.) without a permit being posted at the entry. Confined spaces shall be barricaded to prevent accidental or unauthorized entry. All hazardous materials or hazardous energy/gases shall be addressed or removed prior to work beginning inside confined space. Designated persons will be "authorized entrants", "attendants" and "entry supervisors". **Single attendants are prohibited from monitoring multiple confined spaces at one time.** The permit shall include the name the attendant working with the employee that is inside the confined space, the rescue plan. All entrants shall be involved in the preparation of the permit and have access to the air monitoring equipment calibration data as requested. If any additional monitoring is requested by entrants' company shall provide.
Duties:
Authorized Entrants duties are to perform the work within the confined space while fully understanding the permit and the plan for safe operation. Entrants shall know all the hazards, present and always comply with the permit.

Entry Supervisors primary duty is the responsibility for determining if acceptable entry conditions are present at a permit space where entry is planned to include informing entrants of pre-entry atmospheric test results, for authorizing entry and overseeing entry operations, and for terminating entry as required by this section. Knowing the hazards that may be faced during entry. Understanding possible behavioral effects of hazard exposure. Maintaining an accurate count of authorized entrants. Ensuring that there is continuous monitoring while entrants are inside. Employees shall be authorized to request additional monitoring at any time should they feel condition is unsafe.

Attendants' primary duty is to station themselves outside of confined space and monitor entrants. Knowing the hazards that may be faced during entry. Understanding possible behavioral effects of hazard exposure. Maintaining an accurate count of authorized entrants.

Workers inside a confined space are to have some form of communication between the attendants as well as communication with emergency personnel should it be required. The attendant is charged with monitoring the employee inside the confined space as well as the environment outside in case of potential changes in the hazards outside of space including vehicles and pedestrians if present. Attendants are not allowed to monitor more than one confined space at a time. Once the work is complete the permit is to be canceled and taken down. If area is still considered a confined space but no additional work is to be done in the area, then proper signage shall be left behind to ensure others safety. Coordination must occur if multiple employers are working in a confined space from multiple companies.

Rescue is a part of every permit. Rescue services will vary depending on the situation and workplace. Unauthorized personnel are prohibited from attempting a rescue unless properly trained and qualified. The permit shall include a detailed rescue service plan whether it be provided by the host facility, an outside service (which will be given the opportunity to examine the entry site, practice rescue and decline as appropriate) or provided by Elder Demolition, by selecting a rescue team that is equipped and trained to perform the needed rescue services.
If a confined space is deemed immediate dangerous to life and health (IDLH) then a specific permit and plan shall be in place including on site professional rescue personnel.

Cancelation of permit:
The Entry Supervisor shall terminate entry and cancel the entry permit when the operations covered by the permit have been completed. The permit shall be retained in the office for at least 1 year to facilitate the review for the permit-required confined space program required.

23.0 SILICA DUST

About Crystalline Silica

What is it?
Crystalline silica is the scientific name for a group of *minerals* containing silicon and oxygen. *Crystalline* means that the oxygen and silicon atoms are arranged in a specific pattern.

Forms of Crystalline Silica
Crystalline silica exists in several forms, including *quartz, cristobalite,* and *tridymite.* Tridymite is the most potent, but least common form. Cristobalite, which occurs naturally in volcanic rock, is often found with quartz in the Pacific Northwest. Of these forms, quartz is the most common; in fact, it is the second most common mineral on the planet. (Feldspar is the most common.)

The Cause of Silicosis is linked to Cancer:
Crystalline silica causes silicosis, but it has also been linked to cancer. As a result, any material that contains more than 0.1 percent crystalline silica must meet the labeling, information, and training requirements of the *Hazard Communication Standard*.

What is Silicosis?
Silicosis is a progressive, disabling lung disease caused by breathing dust-containing particles of crystalline silica – particles so small you can see them only with a microscope. The cause of silicosis has been known for centuries – the earliest cases of silicosis were recorded before the first century – yet workers continue to die every year from the disease. Crystalline silica exists almost everywhere in our natural environment. It is abundant in soil, sand, dust, quartz, and granite rock. Not surprisingly, crystalline silica also exists in products that we make or use every day at home and at work. For example, China tableware is made from materials containing silica flour, which is finely ground quartz. In addition, unwashed root vegetables like potatoes are coated with soil containing crystalline silica – a possible health hazard for those who harvest, sort, and bag them without appropriate exposure controls.

Keep in mind that crystalline silica can cause silicosis only when we breathe it into our lungs as dust or a fine powder. Here is what happens: The silica particles become trapped in the lungs and damage the tissue. As

a result, the lung tissue scars and forms small, rounded masses called nodules. Over time, the nodules grow, making breathing increasingly difficult.

Though silicosis shows no symptoms at first, the victim eventually has trouble breathing and develops a severe cough. Other symptoms include fatigue, loss of appetite, chest pains, and fever. Only a complete work history, a chest X-ray, and a lung-function test will determine whether a worker has the disease. Those who think they may have silicosis should see a medical doctor who specializes in occupational medicine.

- **Chronic Silicosis** -

Silicosis can affect you in three ways. Most workers who get silicosis do not show any symptoms for 10 or more years. That is because their exposures to crystalline silica are low, but frequent. They develop a condition called *chronic silicosis*.

- **Accelerated Silicosis** –

As exposure levels increase, however, silicosis symptoms can appear much earlier. For example, those diagnosed with *accelerated silicosis* show symptoms within five to 10 years.

- **Acute Silicosis** -

Workers exposed to extremely high levels of crystalline silica dust may develop *acute silicosis*, a condition that can show symptoms within only a few weeks of an initial exposure. Acute silicosis is most common among sand blasters because of the high levels of silica dust they breathe.

Activities That Could Put Workers at Risk

- Chipping, hammering, and drilling rock
- Crushing, loading, hauling, and dumping rock
- Abrasive blasting
- Sawing, hammering, drilling, grinding, and chipping masonry or concrete
- Demolition of concrete or masonry structures
- Dry sweeping or using pressurized air to blow concrete, rock, or sand dust

Control Methods to Eliminate Exposure to:

- **Dust-Contaminant System**

Other ways to eliminate exposure include installing dust-collection systems on machines that generate dust or using enclosed cabinets with gloved armholes to do hazardous tasks.

- **Wet Method**

Use wet drilling or sawing methods to control dust. Remove dust and debris with a wet vacuum or hose it down rather than blowing it around with compressed air or dry sweeping it.

- **Ventilate**

Use local-exhaust ventilation systems to keep work areas dust free.

- **Personal Protective Equipment**

Personal Protective Equipment (PPE) can protect workers from hazards, but it does not eliminate hazards. If the equipment fails, or it is not appropriate for a particular task, a worker can still be exposed.

Respirators are a special type of personal protective equipment. When carefully selected, worn, and used, respirators will protect workers from inhaling crystalline silica dust. Respirators will be used only when the dust cannot be eliminated or controlled with any other method, and employees needs to understand the requirements for using respirators." Refer to Respirator section of the on-site safety Manual Don't use a respirator as your only means of protection!

- **Air Monitoring**

Air monitoring is a method of determining workers' exposures to silica dust. Air monitoring results can also help you decide the most appropriate methods for controlling crystalline silica dust.

Workers who may be exposed to crystalline silica dust should have regular medical exams. They should be examined before they begin their jobs and at least every three years thereafter. Examinations should include medical and work histories, chest X-rays, and tuberculosis evaluations. Medical examinations should supplement air monitoring and other control methods – not replace them.

- **Personal Hygiene**

Those who work with materials containing crystalline silica should wash their hands before eating, drinking, or smoking. They should shower, if possible, and change into clean clothes before leaving the worksite. They should never eat, drink, or use tobacco in abrasive blasting areas.

- **Communicate**

Make sure any product that contains silica has a label that says so. Materials or products that contain more than 0.1 percent crystalline silica must have a Material Safety Data Sheet. (See the Hazard Communication Program for more information on labeling and Material Safety Data Sheets.)

- **Warning Signs**

Put up signs that identify the work areas, tasks, and equipment that may expose workers to crystalline silica. The signs should warn workers about crystalline-silica hazards and identify any required Personal Protective Equipment.

24.0 BACTERIA

It has become apparent that water damage building material contains substances specifically bacteria that can affect the health of people associated with the handling of these materials. This policy has been developed to protect our employees from this newly discovered health risk.

- Provide all employees with effective information and training about handling these materials at the time of their initial assignment.
- Provide each employee visual identification of place on site where the hazardous material exists.
- Assume all occurring areas are hazardous. These bacteria are difficult to detect and even more difficult to distinguish hazardous form non-hazardous. Furthermore, each bacterium affects

everyone differently, i.e., what makes one employee sick may not affect another employee. Handle all contaminated material in the way the site-specific handling plan mandates.

- Develop a site-specific handling plan to establish how all materials are to be removed and disposed of prior to any work being done. This plan will require input from the owner of the project, the general contractor, and may require input from an environmental consultant. This plan will be posted onsite usually in the job box along with normal safety plans and hazardous material handling policies.

25.0 DEMOLITION WASTE AND RECYCLING

As a leading recycling company in our industry, we strive to keep as much material from being diverted to the landfills as possible. All employees should be aware of our commitment to recycling and do their part to ensure its success. Most of the material we haul from a job site is taken to a recovery center, so we must comply with their policies as well. Material flow will be taken into consideration prior to work beginning and employees made aware of the proper method to dispose of wastes. The following are some basic waste and recycling rules to follow:

- Materials we commonly sort out from being hauled to the recovery center are Wood, Scrap Metal/wire, concrete, brick, and some roofing.
- No flat roofing is allowed at the recovery center, so it needs to be sorted to go to a lined landfill instead.
- If any specific means or method is required, all employees will be made aware and properly trained.
- While storing materials on site, consideration needs to be made regarding surfaces that material is stored on, as to not impact any environmental issues.

26.0 RESPIRATOR PROGRAM

Purpose

Elder Demolition has determined that certain of its employees are or can be exposed to respiratory hazards. The purpose of this program is to ensure that all employees are protected from exposure to these hazards. If conditions are IDLH (immediate dangerous to life and health) atmospheres, then a specific plan shall be created by management and include professional on-site rescue personnel and equipment not standard issue.

Engineering controls such as ventilation and substitution of less toxic materials are the first line of defense. However, engineering controls have not always been feasible for some of our operations or have not always completely controlled the identified hazards. In these situations, respirators and other protective equipment must be used. Respirators are also utilized for protection during emergencies.

Scope and Application

This program applies to all employees who are required to wear respirators during normal work operations and during certain non-routine or emergency operations. Employees participating in the respiratory protection program do so at no cost to them. The expense associated with medical evaluations, training, and respiratory protection equipment will be borne by the company.

Employees who voluntarily choose to use a cartridge style respirator when the respirator is not required are subject to the medical evaluation, cleaning, maintenance, and storage elements of this program. These individuals will also receive training covering proper procedures for cleaning, maintenance, and storage of their respirators. In addition, the information specified in "Appendix D to 1910.134 (Mandatory) Information for Employees Using Respirators When Not Required Under the Standard" will be provided to all voluntary users of respirators.

Employees who voluntarily choose to use a filtering face piece respirator (i.e., a dust mask style respirator) are excluded from all other requirements of this program.

Voluntary use does not require employers to pay for respirators, but program costs (e.g., medical evaluations when a cartridge style respirator is used) are the responsibility of the employer.

Responsibilities

Respirator Program Administrator

The Respirator Program Administrator is responsible for overseeing the respiratory protection program and to conduct the required evaluations of program effectiveness thereby ensuring that all the requirements of this program are fully implemented, as necessary.

Duties of the Program Administrator include:

- Identifying work areas, processes or tasks that require workers to wear respirators, and evaluating hazards.
- Selection of respiratory protection options.
- Monitoring respirator use, to ensure that respirators are used in accordance with their certifications.
- Arranging for and/or conducting training.
- Ensuring proper storage and maintenance of respiratory protection equipment.
- Conducting qualitative/quantitative fit testing.
- Administering the medical surveillance program.
- Maintaining records required by the program.
- Evaluating the program.
- Updating the written program as necessary to reflect workplace changes that affect respirator use.

Supervisors

Supervisors are responsible for ensuring that the respiratory protection program is implemented in their areas. In addition to being knowledgeable about the program requirements for their own protection, supervisors must also ensure that the program is understood and followed by the employees under their charge. Duties of the supervisor include:

- Ensuring that employees under their supervision (including new hires) have received appropriate training, fit testing, and medical evaluation.
- Ensuring the availability of appropriate respirators and accessories.
- Being aware of tasks requiring the use of respiratory protection.
- Enforcing the proper use of respiratory protection when necessary.
- Ensuring that respirators are properly cleaned, maintained, and stored according to the respiratory protection plan.
- Ensuring that respirators fit well and do not cause discomfort.
- Continually monitoring work areas and operations to identify changes in respiratory hazards.
- Coordinating with the Program Administrator on how to address respiratory hazards or other concerns regarding the program.

Employees

Each employee has the responsibility to wear his or her respirator when and where required and in the manner in which they were trained. Employees must also:

- Care for and maintain their respirators as instructed and store them in a clean and sanitary location.
- Inform their supervisor if the respirator no longer fits well and request a new one that fits properly.
- Inform their supervisor or the Program Administrator of any respiratory hazards that they feel are not adequately addressed in the workplace and of any other concerns that they have regarding the program.
- Notify their supervisor or the Program Administrator of any other problems associated with using their respirator.

Respirator Selection

The Program Administrator is responsible to ensure that the respirator selected will be adequate to effectively reduce exposure to the respirator user under all conditions of use including reasonably foreseeable emergency situations.

Evaluating Respiratory Hazards

The Program Administrator will select respirators to be used on-site based on the hazards to which workers are exposed and in accordance with all local, state, and federal standards. The Program Administrator will conduct a hazard evaluation for each operation, process, or work area where airborne contaminants may be present in routine operations or during an emergency. The hazard evaluation will include:

- Identification of respiratory hazard sources and development of a hazardous substance list used in the workplace by location or work process.

- Review of work processes to determine where hazardous exposures occur and the magnitude of the exposures. This review will be conducted by surveying the workplace, reviewing process records, obtaining objective data (if available), and talking with employees and supervisors.

- When necessary, exposure monitoring will be conducted to measure potential hazardous exposures. Monitoring will be conducted by Jones Environmental, Sterling Technologies, or similar company.

The results of the hazard evaluation are summarized in Table 1.

TABLE 1: HAZARD EVALUATION SUMMARY				
Department	Contaminants	**Exposure Monitoring**	Permissible Exposures	Controls
Demolition	Lead	20 µg/m3 TWA	50 µg/m3 TWA 30 µg/m3 AL	Hand scraping only
Demolition	Manual Demolition of walls that contain 5000ppm of Lead	NON-DETECT	50 µg/m3 TWA 30 µg/m3 AL	Fans and water
Demolition	Torch Cutting of steel with lead paint 1433ppm	NON-DETECT	50 µg/m3 TWA 30 µg/m3 AL	Torch cutting outside using 5' torch
Demolition	Using Brokk with breaker on CMU wall with Lead Paint	NON-DETECT	50 µg/m3 TWA 30 µg/m3 AL	Fans and Water
Demolition	Torch Cutting of steel covered with lead paint 9700ppm	15.0 µg/m3 TWA	50 µg/m3 TWA 30 µg/m3 AL	Full face supplied air respirator was used during test.

Hazard Evaluation Update

The Program Administrator is responsible to revise and update the hazard evaluation as needed (i.e., any time work process changes may potentially affect employee exposure). If an employee feels that respiratory protection is needed during a particular activity, the employee is to contact Supervisor. The Program Administrator will evaluate the potential hazard. The Program Administrator will then communicate the results of that assessment back to the affected employees. If it is determined that respiratory protection is necessary, all other elements of this program will be in effect for those tasks and this program will be updated accordingly.

Workplace and User Factors

The Program Administrator will review the job operation, the equipment or tools that will be used, and any motion or travel required which can interfere with the type of respirator to be selected. When powered, air-purifying respirators or continuous-flow airline respirators are used, the physical demands affecting breathing rate will be evaluated.

The Program Administrator will ensure that respirators selected will not impair the worker's vision, hearing, communication, and physical movement necessary to perform jobs safely. *(For example, airline respirators should not be used by mobile employees around moving machinery to avoid entanglement of the respirator in the equipment, and connection to a clean air source must be considered.)*

Respirator Selection Table

Respirators have been selected for protection against gases, vapors, and particulate. Respirators are required for all employees engaged in tasks specified in Table 2.

TABLE 2: RESPIRATOR SELECTION	
Respirator	**Department/Process**
Half-face piece P100 filter	Manual Demolition when surfaces contain lead unless an exposure assessment has been completed to prove that levels are below the action level
Tight fitting Full-face supplied air	This respirator is used when doing an exposure assessment when torching on steel paint.
Tight fitting full-face powered air purifying respirator	This respirator is used when doing an exposure assessment when torching steel with paint.
Half-face piece P100 filter	Nuisance dust
Half-face piece P100 filter	Breaking or grinding of concrete

NIOSH Certification

All respirators must be certified by the National Institute for Occupational Safety and Health (NIOSH) and shall be used in accordance with the terms of that certification. All filters, cartridges, and canisters must be labeled with the appropriate NIOSH approval label. The label must not be removed or defaced while it is in use.

Assigned Protection Factors

The assigned protection factors in "29 CFR 1910.134(d)(3)(i)(A), Table 1--Assigned Protection Factors" will be used when selecting respirators. Half-mask respirators can provide adequate protection for routine respirator use, where employee exposures do not exceed ten times the permissible exposure limit. The Program Administrator will determine the type of respirator to be selected for non-routine or reasonably foreseeable emergency situations.

Contaminant Breakthrough Warning Systems

For vapor or gas air purifying respirators the two systems in place to warn respirator wearers of contaminant breakthrough include using respirator cartridges equipped with an end-of-service life indicator (ESLI) or using a cartridge replacement schedule based on manufacturer breakthrough test data.

Employees using cartridges not equipped with ESLIs must replace cartridges in accordance with the instruction provided by Table 3.

TABLE 3: VAPOR AND PARTICULATE CARTRIDGE REPLACEMENT SCHEDULES			
Cartridge Color Identification	**Contaminant Concentration**	**Replace every:**	**Work Site Conditions**
Magenta	P100 Particulate Filter (99.97% Minimum Filter Efficiency)	Whenever the wearer detects a change in breathing resistance.	Dusty conditions and when dealing with lead in a particulate matter
Magenta double stack with black label	Organic Vapor Cartridge & P100 Particulate Filter (99.97% Minimum Filter Efficiency)	Shall be site specific based on initial exposure assessment	When torching or making lead into a vapor matter

For respirators worn exclusively for protection against particles, filters will be changed per the manufacturer's specification and whenever the wearer detects a change in breathing resistance.

Medical Evaluation

Employees assigned to tasks where respirators are utilized must be physically able to perform the work while using the respirator. Accordingly, the company has the responsibility of ensuring that employees are medically fit and able to tolerate the physical and psychological stress imposed by respirator use, as well as the physical stress originating from job and workplace conditions. Employees will not be allowed to wear respirators until a physician or other licensed health care professional (PLHCP) has determined that they are medically able to do so.

Any employee refusing the medical evaluation cannot work in an area requiring respirator use.

Employees voluntarily using filtering face piece respirators (dust masks) and employees using loose fitting escape-only respirators (provided that is the only respirator used) are exempt from the requirements of the medical evaluation program.

Providence Occupational Medicine Clinic will provide initial and any follow-up medical evaluations.

Information Provided to the PLHCP

The Program Administrator will provide the PLHCP the following general information before evaluations begin:

- A copy of this written respiratory protection program including a list of respirators used by the company and a copy of the fit testing procedures used by the company.
- A copy of chapter "CFR 1910.134, Respiratory protection."

In addition, the "Employer Provided Information for Medical Evaluations" of this written program will be used to compile the necessary user-specific information to be provided to the PLHCP. The user-specific information describes:

- The type and weight of the respirator to be used by the employee.
- The duration and frequency of respirator use (e.g., for routine, rescue, and escape tasks).
- The expected physical work effort (e.g., "low", "medium" or "high").
- Additional protective clothing and equipment to be worn.
- Estimates of temperature and humidity extremes that may be encountered.
- Any special or hazardous conditions the employee could encounter.

Medical Questionnaire Administration

Employees assigned to tasks requiring the use of respirators will be required to complete the Respirator Medical Evaluation Questionnaire. The Program Administrator will make available a copy of the questionnaire to all employees requiring medical evaluations. The medical evaluation will be administered confidentially and during working hours at a place on site that is convenient to employees.
A stamped and addressed envelope for mailing the questionnaire to the PLHCP will be provided.
Employees will be paid their wages during questionnaire administration. If the questionnaire is completed at time of orientation, then the employee will take with to the Physician.

To the extent feasible for maintaining confidentiality, the Program Administrator or his/her designee will aid employees who are unable to read the questionnaire by providing reading assistance. To ensure confidentiality, the questionnaire will not be reviewed at any time by the Program Administrator or designee. The Program Administrator or designee will not review completed questions and there will be no employee/employer interaction that could be considered a breach of confidentiality. Where confidentiality cannot be maintained during administration of the questionnaire, the employee will be sent to the PLHCP for medical evaluation.

If needed, employees will have the opportunity to discuss the questionnaire content and/or examination results with the PLHCP via telephone call. During questionnaire administration, the PLHCP's phone number will be given to employees and access to a phone will be provided at no charge to the employee.
All records from medical evaluations, including completed questionnaires, will remain confidential between the employee and the PLHCP.

PLHCP's Written Recommendations

The company will obtain a written recommendation from the PLHCP on whether/or not the employee is medically able to wear a respirator. The recommendation must identify any limitations on the employee's

use of the respirator, as well as the need for periodic or future medical evaluations that are required by the PLHCP.

A powered air-purifying respirator (PAPR) will be provided to any employee if information from the PLHCP's written recommendation indicates that the employee can use a PAPR but not a negative pressure respirator. If, after this evaluation, the PLHCP determines that the employee can wear a negative pressure respirator, the company will no longer be required to provide a PAPR to that employee.

The employee will receive a copy of the PLHCP's written recommendations directly from the PLHCP. Information concerning diagnosis, test results, or other confidential medical information will not be disclosed to the company by the PLHCP.

Additional Medical Evaluations

The company will provide additional medical evaluation or medical re-evaluation for any employee when:

- The employee reports medical signs or symptoms that are related to the employee's ability to use a respirator.
- A PLHCP, supervisor, or the respirator program administrator observes that the employee is having a medical problem during fit testing or workplace respirator use.
- Information from the respiratory protection program, including observations made during fit testing and program evaluation, indicates a need for employee re-evaluation.
- A change occurs in workplace conditions (e.g., physical work effort, type of respirator used, protective clothing, temperature) that may result in a substantial increase in the physiological burden placed on an employee.

The content of such additional medical evaluations will be determined by the PLHCP.

Fit Testing

Fit testing will be required for all respirators with a tight-fitting facepiece. Fit testing will be performed:

- After an employee has completed their medical evaluation and prior to being allowed to wear any respirator with a tight fitting facepiece in the work environment.
- Whenever a different respirator facepiece is used.
- At least annually thereafter.
- When there are changes in the employee's physical condition that could affect respiratory fit (e.g., obvious change in body weight, facial scarring, etc.)

Employees will be fit tested with the make, model, and size of respirator that they will wear. Employees will be provided with several models and sizes of respirators so that they may find the optimal fit.

Fit testing of tight-fitting, Full-face PAPRs is to be conducted in negative pressure mode. For Fit testing, the respirator will be converted into a negative pressure respirator equipped with the appropriate cartridge.

Fit testing of tight-fitting airline respirators will be conducted using an identical negative pressure air purifying respirator facepiece as a substitute test mask.

If for any reason an employee finds that the respirator fit is unacceptable, a reasonable opportunity to select a different facepiece and to be retested will be provided.

Employees who voluntarily chose to use air-purifying respirators are not required to be fit tested.

Fit Testing Procedure

Elder Demolition, Safety Coordinator, Providence Occupational Health, or Mallory Safety Supply will conduct fit testing. It has been determined that employee exposures will not exceed airborne concentrations more than 10 times the Permissible Exposure Limit (PEL), therefore qualitative fit tests can be conducted on Half-face respirators. Qualitative fit testing can be conducted on Full-face air purifying respirators when the protection factor of 10 need not be exceeded. A Quantitative fit test will be administered on any Full-face air purifying respirator that needs to meet the full assigned protection factor of 50.

Qualitative Fit testing will be administered by using the OSHA accepted qualitative fit test protocols found in "CFR 1910.134 App A", The qualitative fit test protocol that will be used at Elder Demolition is the Irritant Smoke protocol.
If the Program Administrator has deemed Quantitative fit testing is necessary, or when working in a state which mandate Quantitative fit testing for specific respirator use, Quantitative Fit testing will be administered by using the OSHA accepted quantitative fit test protocol found in "CFR 1910.134 App A."

Fit Testing Exercises

When qualitative fit tests are to be conducted, the Program Administrator will ensure that the test exercises described in "CFR 1910.134 App A." are performed.

While a fit test is in progress, the respirator must not be adjusted.

Employees will perform fit test exercises in the test environment while wearing other safety equipment that will be worn during actual respirator use that could interfere with respirator fit.

If the employee exhibits breathing difficulty during the fit test, they will be referred to the PHLCP to determine whether a respirator can be worn while performing his or her duties.

Respirator Use

The Program Administrator and/or Project Foreman will monitor the work area to be aware of changing conditions where employees are using respirators.

Facepiece Seal Protection

The company will not permit respirators with tight-fitting facepieces to be worn by employees who have conditions that would compromise the facepiece-to-face seal. Examples of these conditions include facial hair (e.g., stubble, bangs) that interferes with the facepiece seal or valve function, absence of normally

worn dentures, facial deformities (e.g., scars, deep skin creases, prominent cheekbones), or the use of jewelry or headgear that projects under the facepiece seal.

Corrective glasses or goggles, or other personal protective equipment, must be worn in such a way that they do not interfere with the seal of the facepiece to the face. Full-facepiece respirators will be provided where either corrective glasses or eye protection is required, since corrective lenses can be mounted inside a full-facepiece respirator. The use of contact lenses with respirators where the wearer has successfully worn such lenses before will be allowed.

A user seal check *(also known as a fit check)* will be performed every time a tight-fitting respirator is put on or adjusted to ensure proper seating of the respirator to the face. The user seal check conducted must be either the positive and/or negative pressure checks described in "CFR 1910.134 Appendix B-1: User Seal Check Procedures," or the manufacturer's recommended procedures when equally protective.

Monitoring Respirator Effectiveness

The Program Administrator and/or Supervisors (foreperson, lead, etc.) will be responsible to maintain appropriate surveillance of changes in work area conditions that may increase employee exposure or stress.

Employees will be permitted to leave the respirator use area to wash their faces and respirator facepieces as needed to prevent skin or eye irritation associated with respirator use.

Whenever the respirator user can detect vapor or gas breakthrough (by odor, taste, and/or irritation effects), a change in breathing resistance or leakage of the facepiece, the employee will be allowed to leave the respirator use area to replace the respirator or the filter, cartridge, or canister elements.

Employees will be permitted to leave the respirator use area if they are replacing cartridge or canister elements according to the established replacement schedule or when the end-of-service-life indicator (ESLI) shows that the canister or cartridge(s) must be changed.

Employees will be permitted to leave the respirator use area if the respirator is not properly functioning and must be replaced, repaired, or discarded. The employee will be allowed back into the respirator use area only after the respirator has been replaced or repaired.

Employees will be permitted to leave the respirator use area if the employee experiences severe discomfort in wearing the respirator or if the employee experiences sensations of dizziness, nausea, weakness, breathing difficulty, coughing, sneezing, vomiting, fever, and chills.

Maintenance and Care

The Program Administrator will oversee the maintenance and care program.

Cleaning and Disinfecting

Respirators will be cleaned and disinfected by the employee who is wearing it. Using the respirator manufacturer's cleaning procedures.

Respirators will be cleaned and disinfected as follows:

- Respirators that are issued for the exclusive use of an employee will be cleaned and disinfected as often as necessary to be maintained in a sanitary condition. Employees will be responsible to clean and disinfect respirators issued for their exclusive use.

- Respirators used by more than one employee will be cleaned and disinfected prior to being used by a different individual.

- During fit-tests, disinfectant wipes can be used in between respirator wears to minimize the risk for spreading cold, influenza or other respiratory illness. ***Note:*** *The person cleaning respirators with disinfectant wipes must be so trained.* At the end of the day, each respirator will be completely disassembled and cleaned by immersion.

Storage

Respirators will be stored so that they are protected against damage, contamination, dust, sunlight, temperature extremes, excessive moisture, and damaging chemicals. When respirators are packed or stored, the facepiece and exhalation valve will be stored in a manner that prevents deformation. Each respirator should be positioned so that it retains its natural configuration.

Inspection

Respirators used in routine situations will be inspected before each use and during cleaning.

To ensure the continued reliability of respiratory equipment, it must be inspected on a regular basis. The frequency of inspection and the procedures to be followed depend on whether the respirator is intended for non-emergency, emergency, or escape use only.

Respirator inspections will include a check of respirator function, tightness of connections, and the condition of the various parts including but not limited to: The facepiece, head straps, valves, connecting tube, and cartridges, canisters, or filters. In addition, the elastomeric parts must be evaluated for pliability and signs of deterioration.

Repair

The Program Administrator or designee will ensure that respirators which fail to pass inspection or are otherwise found to be defective will be removed from service and repaired or adjusted properly. If a respirator cannot be repaired or adjusted, it will be discarded.

Repairs or adjustments to respirators will be done by Mallory Safety Supply**.** Only NIOSH-approved manufacturer's replacement parts designed for that respirator will be used. Repairs will be made in accordance with the manufacturer's recommendations and specifications regarding the type and extent of repairs to be performed. In most cases the employee will receive a new mask of the same make, model, and size.

Compressors

Compressors used for supplying breathing air must be constructed and situated so contaminated air cannot enter the air-supply system. The location of the air intake will be in an uncontaminated area where exhaust gases from nearby vehicles, the internal combustion engine that is powering the compressor itself *(if*

applicable), or other exhaust contaminants being ventilated will not be picked up by the compressor air intake.

Compressors will be equipped with suitable in-line, air-purifying sorbent beds and filters to further ensure breathing air quality and to minimize moisture content so that the dew point at 1 atmosphere pressure is 10°F (5.56°C) below the ambient temperature. Sorbent beds and filters will be maintained and replaced or refurbished periodically according to the manufacturer's recommendations. An inspection tag will be kept at the compressor indicating the most recent change date and the signature of the Program Administrator or designee authorized to perform the maintenance.

Only non-oil-lubricated compressors will be used at Elder Demolition.
The Program Administrator will ensure that the compressor intake will not allow the introduction of carbon monoxide greater than 10 parts per million (ppm) into the system. ***Note:*** *This could be from sources other than the compressor such as forklifts/vehicles or other gas-powered equipment.* Where this is not possible or feasible, it may be necessary to combine the use of a carbon monoxide alarm with a carbon monoxide sorbent bed when conditions are such that a reliable carbon monoxide-free area for air intake cannot be found.

Breathing air couplings must be incompatible with outlets for non-respirable plant air or other gas systems to prevent accidental servicing of airline respirators with non-respirable gases or oxygen. No asphyxiating substance *(e.g., nitrogen)* will be allowed in the breathing airlines.

Identification of Filters, Cartridges and Canisters

The Program Administer will ensure that all filters, cartridges, and canisters used in the workplace are labeled and color-coded with the NIOSH approval label and ensure that the label is not removed and remains legible.

Training and Information

The Safety Coordinator will provide training to respirator users, supervisors, and any person issuing respirators on the contents of the company's Respiratory Protection Program and their responsibilities under it, and on the OSHA respiratory protection standard.

Employees will be trained prior to using a respirator in the workplace. Supervisors will be trained prior to using a respirator in the workplace or prior to supervising employees who wear respirators.

Employees who voluntarily use filtering facepiece (dust mask) respirators are exempt from the training requirements. Voluntary users of elastomeric air-purifying respirators will receive limited training regarding cleaning and storage.

The information specified in "Appendix D, to 1910.134 (Mandatory) Information for employees using respirators when not required under the standard." will be provided to all voluntary users of respirators.

Respiratory Protection Training Guideline

The Respiratory Protection Training course materials will cover the following information:

- Information regarding the consequences of improper fit, usage, or maintenance on respirator effectiveness will be provided to employees. Inadequate attention to any of these program elements would obviously defeat the effectiveness of the respirator. Proper fit, usage, and maintenance of respirators are critical to ensure employee protection.

- Employees will be provided an explanation of the limitations and capabilities of the respirator selected for employee use. A discussion of the limitations and capabilities of the respirator will address how the respirator operates. Training will include an explanation of how the respirator provides protection by either filtering the air, absorbing the vapor or gas, or providing clean air from an uncontaminated source, as applicable. Training will include limitations on the use of the equipment such as prohibitions against using an air-purifying respirator in IDLH (Immediately Dangerous to Life or Health) atmospheres and an explanation of why such a respirator must not be used in these situations.

- Employees will be provided an explanation to understand how to use the respirator effectively in emergency situations including those in which the respirator malfunctions. Comprehensive training will be provided where respirators are used in IDLH situations including oxygen-deficient atmospheres such as those that occur in rescue operations.

- Training will include the procedures for inspecting the respirator, donning, and doffing it, checking the fit and respirator seal, and wearing the respirator. Employees will be capable of recognizing any problems that may threaten the continued protective capability of the respirator. The training will include the steps employees are to follow if they discover any problems during inspection, that is, whom the problems are to be reported to and where they can obtain replacement equipment if necessary.

- Instructions will be given to respirator users regarding the proper procedures for maintenance and storage of respirators.

- Employees will be provided with medical information that is sufficient for them to recognize the signs and symptoms of medical conditions (e.g., shortness of breath, dizziness) that may limit or prevent the effective use of respirators.

- Employees will be informed of the general requirements of the WISHA respiratory protection standard. This discussion will inform employees that employers are obligated to develop a written program, properly select respirators, evaluate respirator use and correct deficiencies in use, conduct medical evaluations, provide for the maintenance, storage, and cleaning of respirators, and retain and provide access to specific records.

Employees will demonstrate their understanding of the information covered in the training through hands-on exercises. The Program Administrator will document respirator training and the documentation will include the type, model, and size of respirator for which each employee has been trained and fit tested.

Frequency of Training

Annual training is necessary and appropriate to ensure that employees know about the respiratory protection program and that they cooperate and actively participate in the program. Training and interaction with respirator instructors on at least an annual basis reinforce employee knowledge about the

correct use of respirators and other pertinent elements of the respiratory protection program. It also builds employee confidence when using respirators.

New employees will be provided respirator training prior to using a respirator in the workplace.

Employees will be retrained annually and more often as needed (e.g., if they change area/location/position and need to use a different respirator).

Retraining will occur if the Program Administrator or Supervisor determines that any employee has not retained or demonstrated the knowledge, understanding, or skill level required by the company's training program.

Program Evaluation

The Program Administrator is responsible to conduct evaluations of the workplace, as necessary. Periodic program evaluation is required to ensure that the provisions of the respiratory protection program are being implemented for all employees using respirators. In addition, evaluations will be conducted to ensure the continued effectiveness of the program. Evaluations of the workplace will determine whether the correct respirators are being used and worn properly and will also serve to determine whether the training program is effective.

Supervisors are responsible to periodically monitor employee use of respirators to ensure that they are being used and worn properly.

The Program Administrator will regularly consult with employees wearing respirators to ascertain the employees' views on program effectiveness and to identify any problems so that corrective action can be taken.

The following factors will be evaluated to determine program effectiveness:

- Respirators are properly fitted and if employees can wear respirators without interfering with effective workplace performance.
- Respirators are correctly selected for the hazards encountered.
- Respirators are used properly depending on the workplace conditions encountered.
- Respirators are being maintained and stored properly.

The Program Administrator will be responsible to correct any problems associated with wearing a respirator that are identified by employees or that are revealed during any other part of this evaluation.

Recordkeeping

The Program Administrator will retain a copy of the PLHCP's written recommendation for each employee subject to medical evaluation. Each employee's completed medical questionnaire, results of relevant medical tests, examinations, and diagnosis, etc., will be maintained by the PHLCP for a period of 30 years. Records of medical evaluations will be made available as specified in CFR 1910.1020€(2)(ii), OSHA's Access to Records rule.

The Program Administrator will retain fit test records for respirator users until the next fit test is administered. These records consist of:

- Name or identification of the employee tested.
- Type of fit test performed (QLFT, QNFT -- irritant smoke, saccharin, etc.)
- Make, model, and size of the respirator fitted.
- Date of the fit test.
- Pass/fail results if a QLFT is used; or
- Fit factor and strip chart recording or other record of the test results if quantitative fit testing was performed.

A written copy of the Elder Demolition written respiratory program and CFR 1910.134 are kept in the program administrators' office and are available to employees who wish to review them.
Also maintained in the program administrators' office are copies of training and fit-test records which are updated when new employees are trained, when employees receive refresher training, and when new fit tests are conducted.

27.0 LOCK-OUT / TAG-OUT (OSHA 29 CFR 19.10.147)

LOCK-OUT/TAG-OUT REQUIREMENTS

Program Overview

Elder Demolition employees need special authorization to perform lock-out tag-out procedures. That authorization must come in the form of offsite training and approved by the President. The intent of this program is to provide training of our employees working around such locked devices.

The intended use of the lock-out procedure is to make it impossible for targeted equipment or machinery to operate, by a variety of methods. One of the most obvious methods is by placing one or more locks on the switch, circuit breaker, fuse, or other power source to a piece of equipment. Lock-out is used when repairing, maintaining, or checking the operation of, or performing other work around, energized machinery or equipment. All employees performing lock-out must provide their name and phone number in the appropriate Lock-out Log.

By the same token, tag-out is provided as a second and sometime co-existing method to warn others not to energize equipment when there may be exposure to others. Tag-out is only considered as a stand-alone process when there is no feasible method to physically lock the sources of energy relative to the equipment in question. Tags are only warning devices. They do not provide any physical restraint. Tags are also required to contain identifying information of the person who applied the tag, the date it was applied, and their phone number. Tags must be securely attached to each source of energy that cannot be physically locked out, must be easy to read, and are never to be removed by anyone other than the person who applied it. They must also enter the information in the appropriate Lock-out Log.

Authorized Employees
These are employees who have received adequate training in completing Lock-out/Tag-out procedures and who perform service, maintenance and emergency repair to equipment which has been locked out or tagged out. Authorized employees must be trained in how to identify magnitudes and typed of energy, recognize energy hazards, and know the acceptable means and methods to perform Lock-out/Tag-out.

Affected Employees
These are employees who operate equipment from which power may be isolated, or work in the area where servicing or equipment or machinery will be performed. Affected employees are to be trained to understand the purpose of energy control, the use of the procedures to control energy, and how to Lock-out/Tag-out can apply to their specific job.

Other Employees
Training as outlined above must be available and provided to any other employees whose work operations are or may be in an area where energy control procedures may be used.

For Authorized and Affected Employees, and Other Employees as applicable, training is to occur initially and when there is a change in job assignment, in machines, in the energy control procedures, or a new hazard is introduced. Training will occur in classroom settings and at shop and field equipment typically locked out or tagged out (i.e., hands-on experience with energy isolating devices, etc.). Training shall be documented, signed, and certified.

Types of Energy
There are numerous types of energy that must be considered. It is not limited to electrical. These include but are not limited to:

ELECTRICAL (AC AND DC) **HEAT** **STEAM** **GRAVITY** **WATER**

CHEMICAL **SPRING** **HYDRAULIC** **AIR** **LIGHT** **MAGNETIC**

Associated Hazards
There are several hazards associated with each of the types of energy. These include shock and electrocution (death by electric shock), burns, asphyxiation, crushing, and sudden impact, to name a few. Know what hazards they may relate to with the various energy sources listed, especially regarding your job description and the work you do or are around in the course of your work. Know what type of energy isolating devices is applicable with such energy sources.

Procedures for Energy Control
When it is determined that a piece of equipment must be shut down for maintenance or repair, the following points must be reviewed and considered at the equipment with the authorized

employee, affected employee, or other employees if any, and before the equipment or machine is turned off.

- The types and magnitudes of energy available at or used by the equipment.
- The hazards associated with the energy to be controlled.
- The methods and means that will be used to control the energy.

Once these points are determined, the equipment can be turned off or shut down in an orderly fashion only by following established procedures for such a shut down. Application of energy isolating devices are needed to control the energy to the equipment or produced by the equipment or situation and used effectively. The objective is to have the equipment in a zero-energy state. The applied energy controlling devices will physically prevent the transmission or release of energy. Examples of places of application may include:

- on/off switch,
- circuit breakers,
- disconnect switches,
- valve covers,
- selector switches,
- cribbing or blocking under elevated loads,
- chains or devices to release spring tension or prevent its release,
- blocking of rotating parts and spindles,
- bleeding of valves controlling air, water, or steam pressure,
- blanking pipes, etc.

All steps must be taken to relieve, disconnect, control, restrain, or otherwise render safe any stored or residual energy source.

Typical Application in Many Cases

Don't avoid considering all such sources or the types of isolating devices that may be needed. However, one of the most common devices used, as mentioned early, is the use of locks. When locks are used, they will each contain an accompanying tag on which the employee is to identify himself/herself, and how to contact them. When locks are used:

- A lock is assigned to one person. Each person who works on the locked equipment must also have their own lock(s).
- Don't fail to realize that there may be numerous places where a single task requires a machine or piece of equipment to be locked. Therefore, one worker may have multiple locks on the same process, but in different places. Still, each lock must be traceable to only one person.
- Locks are not transferable over a work shift or personnel change. Locks are returned, and new locks are issued. This process assures continuity of the procedures, and all employees understand the energy sources that were identified.

- Each person who locks out an energy source must maintain the key(s) to their lock(s) on their person. They are never allowed to give their key to anyone else during the lockout.
- Locks and keys are numbered alike. Lock numbers are to be recorded out/in on the Lock-out Log as instructed by your foreman.
- When the work is complete, the lock(s) are only to be removed by the worker who installed their lock(s). Special instruction may apply.
- When more than one employee must lock to the same energy control device, the use of a multi-hasp (or lock tree) must be applied. This way, the energy source stays controlled and locked, for all employees even if one of a work team completes their work and removes their lock. Another similar process is to use a lock box where one lock is applied to a lock-out point, the key is put inside a box that can be locked, and all locks are applied to the outside of the box. Until all locks are removed from the outside of the box, the key to control the lock at the energy source cannot be obtained to remove that final lock at the source.

Energy isolating devices that cannot be locked out must have tags attached. Remember, this action is last resort if physical locking cannot be accomplished. The tags are to contain the name, date, and phone number of the authorized employee. Tags must be securely attached to each non-lockable energy isolating device, and easy to read. They are never to be ignored, defeated, or removed without authorization. Application of tags would include attachment to blocks for securing movable parts or to any mechanical device that physically prevents the transmission or release of energy.

Verification of Isolation

Prior to starting work on machines or equipment that have been locked out or tagged out, the authorized employee must verify that all isolation devices are in place, and all energy sources are controlled. They must log the lock and tag identification in the Lock-out Logbook, and have another person verify their control devices and initial in the appropriate section in the Lock-out Logbook.

Restoring Equipment to Operation

Once all work is completed on a locked out or tagged out piece of equipment or process:

- Clear the machine or equipment of tools and all non-essential items including guards, barriers, etc. Ensure that machine or equipment components are operationally intact.
- Remove employees from the machine or equipment area or make sure they are safely positioned.
- Have each employee remove the lock or tag from the energy isolating devices they placed.
- Notify any affected employees that the lock and tag devices have been removed.

- Test start the equipment or machine.

Summary

Failure to properly control energy, which results in being exposed to the potential to a variety of energy sources, is one of the leading causes of serious injury and death both in general and construction industries. Take this process extremely seriously. It is not only unlawful should you fail to follow procedures, but also the accepted process at Elder Demolition and can lead to disciplinary actions when not compliant.

28.0 SUBCONTRACTOR MANAGEMENT

SUBCONTRACTOR MANAGEMENT GUIDELINES

All subcontractors shall go through an approval process prior to being brought on an ISNET contractor's site. Subs will be pre-qualified through ISNET by reviewing their safety programs, documents, and statistics.

The qualification shall include metrics such as TRIR, EMR, DART, Fatality Rate as criteria for selecting subcontractors.

All subcontractors will be included in Elder Demolition site safety meetings and planning for all safety related topics. These meetings include pre-job, kick-off, tailgate meetings, job safety analysis or hazard assessments.

Once a subcontractor's work is complete the competent person on the project shall conduct a post-job safety performance review and report back to their supervisor for future use of said subcontractor.

Appendix E

Abatement Variance

MAUL
FOSTER
ALONGI

OREGON WASHINGTON
777 S.W. ARMCO AVENUE HILLSBORO, OREGON 97123
(503) 693-6388 FAX (503) 693-7221

ASBESTOS LEAD
ENVIRONMENTAL
SERVICES

CCB#155646
WA# IRSENI*972N5

Date: March 17, 2025

To: DEQ
Attn: Akim Williams / David Russell
700 NE Multnomah Street, Suite 600
Portland, OR 97232
Fax: 503-229-5100

Re: Variance for Negative Pressure Enclosure & Using Mechanical methods
Blue Heron Paper Mill
427 Main St.
Oregon City, OR 97045

Dear Akim / David

IRS Environmental of Portland, Inc is under contract for abatement at Blue Heron. Akim, as you are aware, there was a fire at building 42 over a month ago.

- The fire debris from the roof, CAB panels and have fallen into the building.
- Part of the roof was burned down and unsafe for us to get on the roof to abate the roof.
- Interior of the building, there's contaminated debris fallen throughout from the fire.

Therefore, creating a full NPE is not feasible due to half of the roof already burned down. We are requesting for an NPE Variance due to these reasons.
Additionally, we are requesting to use mechanical means to do the following

- Scoop up the contaminated debris inside the building with a backhoe (wet methods)
- Lined drop boxes for the contaminated debris by using excavator to remove the debris and place in lined drop boxes
- After all the large pieces are removed, clean the concrete using squeegee and water. The collected water will be absorbed using barkdust, then scoop & placed in lined drop boxes

After the interior has been cleaned, Demo contractor will demo the building. The Roof will be last to be demo'd using mechanical means

We have submitted an ASN1 and will update qty and all the abatement required at this facility. But we would like to request these NPE Variance and Mechanical Methods before we update the existing ASN1.

Our approach as outlined above and the following:

1. Regulate the work area using asbestos warning tape, signage at perimeter of work area
2. Wet and use the excavator to remove the contaminated debris and place them into a drop box for disposal.
3. Using an excavator to sort through the pile of debris and separate the large items, rinse and set aside (wood beams, metal,..etc)
4. Contaminated fire debris will be removed with mechanical means, wet methods into drop boxes, labelled to be hauled to Hillsboro landfill for disposal

5. All abatement workers (including the equipment operator) will be suited up in tyvex, half-face respirator & gloves.
6. Only asbestos certified personnel and certified abatement supervisor will be inside the regulated work area
7. All ACM waste will be hauled to Hillsboro landfill for disposal
8. Personal pump will be set up on the operator that's in the excavator cabin and another pump set up on the laborer closest to the pile of debris

We plan to have a crew on site Monday 3/24/25 to perform this work. Please send us your formal approval so we have it for our records.

We appreciate your approval on this.

Regards,
Nancy Nguyen

Krysta Krippaehne-Stein

From: DEQ NWRAsbestos * DEQ <DEQ.NWRAsbestos@deq.oregon.gov>
Sent: Wednesday, March 19, 2025 10:07 AM
To: Nancy Nguyen; WILLIAMS Akim * DEQ; RUSSELL David * DEQ
Subject: Re: NPE Variance & Alt Methods Request for Blue Heron 427 Main St, Oregon City

DEQ has reviewed and approves this work practice variance request. Please retain a copy of this approval onsite until completion of the abatement project.

Akim Williams
Asbestos & Solid Waste Compliance Specialist
Northwest Region Environmental Partnerships Section
Oregon Department of Environmental Quality
Office: 503.229.5364 | akim.williams@deq.oregon.gov

From: Nancy Nguyen <Nancy@irsenvironmental.com>
Sent: Wednesday, March 19, 2025 9:47:17 AM
To: DEQ NWRAsbestos * DEQ <DEQ.NWRAsbestos@deq.oregon.gov>; WILLIAMS Akim * DEQ <Akim.WILLIAMS@deq.oregon.gov>; RUSSELL David * DEQ <David.Russell@deq.oregon.gov>
Subject: NPE Variance & Alt Methods Request for Blue Heron 427 Main St, Oregon City

Hi Akim/David

We are getting ready to perform abatement at Blue Heron (the fire site in Oregon City). We are requesting an NPE variance and Alt Methods (mechanical means) for the burned building.

Please let me know if you have any questions.

Thx
Nancy
971-470-5160