**Results** <u>Code</u> **Material Location** <u>Lab</u> 21600.045-0001 Vinyl Floor Tile/Mastic Room 1 and 2 entrances; black floor tile **Eurofins LabCor** PDX Layer: **Description: Analysis:** Layer 1 wet vinyl material, brown, with No Asbestos Detected thin mastic, off-white



August 2023

Project No.: 21600.045 Phase No.: 0003



4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055

Report Number: 232256R01

Report Date: 8/22/2023

www.labcorpdx.com

## PLM - Visual Estimate Extended Final Report

Job Number: 232256

Client: PBS Engineering and Environmental

Address: 4412 S Corbett Avenue Portland, OR 97239

**Project Name:** 

Project No.: 21600.045 Phase 0003

PO Number: Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Eurofins Sample # Client Sample # and Description

Analysis

**Analysis Notes** 

Date Received:

8/21/2023

232256 - S1

21600.045-0001 -

PLM - Visual Estimate

Extended

PLM - Visual The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Estimate Extended Building Materials and EPA - 40CFR App. E to Subpart E of Part 763. The sample(s) were analyzed with a digital microscope in order to determine homogeneity, the presence of fibers, and make a preliminary estimate of any asbestos fibers present in the sample. The sample(s), and any observed layers, were then homogenized through techniques appropriate to that material and prepared for analysis by polarized light microscopy (PLM).

> Three slide mount preparations were made from random subsamples of the homogenized material. This material was then mounted in the suitable refractive index liquid needed to perform a full optical characterization of the observed fibers. When necessary, dilute HCI, instead of RI liquids, were used to remove cementitious binders to facilitate analysis. The entirety of the slide mount preparations were then analyzed by PLM. Any observed fibers were reported and their optical characteristics recorded according to the EPA 600-R-93-116 method.

Disclaimer This report, and the data contained therein, cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. The results found in this report are based only on the submitted sample(s). LabCor has no control over sampling procedures. This report is only valid when signed by an analyst.

NAD is No Asbestos Detected. Asbestos consists of the six following minerals: chrysotile, amosite, crocidolite, anthophyllite, actinolite, and tremolite.

Additional gravimetric, point-count or TEM analysis may be recommended for samples testing at < or = 1% asbestos, or those with material binders that prevent the detection of small diameter fibers.

The following estimate of error for this method by visual estimation of asbestos percent are as follows:

1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.

Sincerely,

Tim Cammann

**Eurofins - LabCor Portland** 



PBS Engineering and Environmental

## **BULK SAMPLE ASBESTOS ANALYSIS**

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055

www.labcorpdx.com

Report Number: 232256R01 Report Date: 08/22/2023

P.O. No: n/a

Job Number: 232256

**Project Name:** 

Project Number: 21600.045 Phase 0003

4412 S Corbett Avenue

Portland, OR 97239

**Project Notes:** 

Client:

Client Sample ID: 21600.045-0001 Date Analyzed: 08/22/2023 Sample ID: S1

**Client Sample Description:** Analyst: Tim Cammann

**Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: **Amosite** 

Homogeneous

100 % wet vinyl material, NAD

brown, with thin mastic,

off-white

Other Fibers **Fibrous** Mineral

> Other Glass Cellulose Wool Synthetic Matrix 8 % 92 %

Comments: Sample in standing water, unnecessary amounts of moisture greatly add to analysis time.

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA - 40CFR App. E to Subpart E of Part 763, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- · Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- · Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
- 1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

Tim Cammann

**Eurofins - LabCor Portland** 

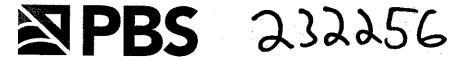


Reviewed by:	
Results Released	on:
Invoice Released	on:
Verbal Ema	il Physical

21600.045

Phase 0003

Project No.:



## TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

SENDER		RECEIVER / /
Date Sent: August 21, 2	023	Date Received: 8/21/23
PBS Engineering and Environment 4412 S Corbett Avenue Portland, OR 97239 503.248.1939, Fax: 866.727		Address: 4321 S Corbett Avenue Portland, OR 97239 (503) 224-5055  Name Name Authorized Signature Date Time
Sender's ID No. 21600.045-0001	Brief Description	Receiver's ID No.
notification if samples will be	disposed. AM/PMDate	nt using PLM with dispersion staining. PBS requests prior