

June 18, 2024

From:
Anna Kroening, CSP
Occupational Health and Fire Safety Manager
Hope College - Campus Safety
178 East 11th Street
Holland, MI 49423

Re: Maas Center Auditorium Storage Room Floor Environmental Results
Maas Auditorium 264 Columbia Avenue, Holland, Michigan 49423

On June 10, 2024, Anna Kroening, Occupational Health and Fire Safety Manager from Hope College collected a bulk material sample of vinyl floor tile with attached mastic from the storage room for the Maas Auditorium/Phelps Kitchen, located at the referenced address .The Maas Center was constructed in 1985 and opened in 1986, and areas were remodeled 2011. Please see the map and photo of the room where the vinyl floor tile was sampled in and the results.

Location of Floor Tile Sample and Photo



Photo 1 - Location of Floor Tile Sample



Photo 2 - Photo of Room



Photo 3 - Photo of Floor Tile

Asbestos Results

The sample was sent to EMSL Analytical, Inc. (EMSL) in Cinnaminson, New Jersey, for analysis. EMSL is an independent laboratory accredited by the American Industrial Hygiene Association and participates in the National Voluntary Laboratory Accreditation Program.

The sample from the vinyl floor tile material resulted in two sample analyses using U.S. Environmental Protection Agency Method 600/R-93/116 Polarized Light Microscopy. Results are summarized in Table 1 and the laboratory analytical report is attached.

Table 1 - Bulk Material Sample Results June 18, 2024

Material Description	Sample Layer	Asbestos
Maas Auditorium Storage Room Floor Tile	Floor Tile	2% Chrysotile
	Mastic	None Detected

Based on the analytical results, the vinyl floor tile contains 2% Chrysotile asbestos. The Mastic did not contain asbestos



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675/(856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 042412223
Customer ID: MISC-ACCT
Customer PO:
Project ID:

Attention: Anna Kroening
178 E 11th St.
Holland, MI 49423

Phone: (616) 395-7999
Fax:
Received Date: 06/17/2024 8:00 AM
Analysis Date: 06/17/2024
Collected Date:

Project: Hope College / Maas Auditorium Storage Floor

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Maas-001-Floor-Flo or Tile 042412223-0001	Maas Auditorium - Storage Room Floor	Gray Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
Maas-001-Floor-Ma stic 042412223-0001A	Maas Auditorium - Storage Room Floor	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected



No Asbestos Detected



Between Expected Limit of Detection and Federal
EPA Recommended Limit



Above Federal EPA Recommended
Limit

These guidance limits are typically used in most scenarios. More stringent local or project specific guidelines may apply.

Analyst(s)

Trinh Tran (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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 must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367, LA #04127

Initial report from: 06/18/2024 08:21:04