



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Chenango Valley Central School District
Location: St. Francis School
Port Dickinson Project

Job No: 0746-19
Page: 1 of 4

Sample Date: 1/28/2019

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
SFWP-1A	6216	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-2A	6217	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-3A	6218	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-4A	6219	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-5A	6220	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-6A	6221	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-7A	6222	1st Floor Plaster Surface Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-1B	6223	1st Floor Plaster Core Material	Tan/Off White Surface Plaster	None Detected	0%		Not Required	N/A	Cellulose 1%	99%
SFWP-2B	6224	1st Floor Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-3B	6225	1st Floor Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
 √ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 √ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 X denotes sample prepped only by ELAP Method 198.6.
 ** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.
 Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0),



Lab Code 200530-0 for PLM Analysis

PLM Date Analyzed: 2/4/2019

TEM Date Analyzed: N/A

Microscope: Olympus BH-2 #233173

TEM Analyst: N/A

Analyst: T. Bush

ELAP ID No.: 10958

Laboratory Results Approved By:
Asbestos Operations Manager or Designee

Mary Dohr
Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Chenango Valley Central School District
Location: St. Francis School
Port Dickinson Project

Job No: 0746-19
Page: 2 of 4

Sample Date: 1/28/2019

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
SFWP-4B	6226	1st Floor Wall Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-5B	6227	1st Floor Wall Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-6B	6228	1st Floor Wall Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
SFWP-7B	6229	1st Floor Wall Plaster Core Material	Gray/Off White Core Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS
 No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
 √ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 √ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 X denotes sample prepped only by ELAP Method 198.6.
 ** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.
 Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0),



Lab Code 200530-0 for PLM Analysis

PLM Date Analyzed: 2/4/2019

Microscope: Olympus BH-2 #233173

Analyst: T. Bush

TEM Date Analyzed: N/A

TEM Analyst: N/A

ELAP ID No.: 10958

Laboratory Results Approved By:
Asbestos Operations Manager or Designee

Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



CHAIN OF CUSTODY FOR BULK ASBESTOS ANALYSIS

179 Lake Avenue, Rochester, New York 14608 Office: 585-647-2530
 1815 Love Road, Grand Island, New York 14072 Office: 716-775-5777

Client: Chenango Valley Central School District	Contact: Antony P. Stager
Phone Number: (607) 795-2592	Email Address for Data: astager@gstbooces.org
Results To <u>astager@gstbooces.org</u>	Turn Around Time: <u>2/5</u> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Date Sampled 28-Jan-19	Material Type/Quantity: Friable <u>10</u> NOB <u> </u> TEM <u> </u>
Project Location: St. Francis School - Port Dickinson project	

Client Mailing Address:
Chenango Valley CSD
221 Chenango Bridge Road
Binghamton, NY 13901

OFFICE USE ONLY

Job #: 0746-19

Page of

Date Logged In: 1/30/19

Logged In By: 102 84

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SFWP1A	6216	1 st Floor plaster surface mat'l	tan/offwhite	N/A	surface plaster
2	SFWP 2A	217			N/A	
3	SFWP 3A	218			N/A	
4	SFWP 4A	219			N/A	
5	SFWP 5A	220			N/A	
6	SFWP 6A	221			N/A	
7	SFWP 7A	222			N/A	
8	SFWP 1B	223	1 st Floor plaster core mat'l	grey/offwhite	N/A	"core" plaster
9	SFWP 2B	224			N/A	
#	SFWP 3B	225			N/A	

Sampled By: <i>[Signature]</i>	Date: 1-28-19
Transported to Paradigm By: <i>Fed-ex</i>	Date:
Received By: <i>[Signature]</i>	Date: 1/30/19

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless EPA 600/M4/82/020 per 40 CFR 763 and/or EPA 600/R-93/116 methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 14

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

0746 BD



CHAIN OF CUSTODY FOR BULK ASBESTOS ANALYSIS

179 Lake Avenue, Rochester, New York 14608 Office: 585-647-2530
 1815 Love Road, Grand Island, New York 14072 Office: 716-775-5777

Client: Chenango Valley Central School District	Contact: Antony P. Stager
Phone Number: (607) 795-2592	Email Address for Data: astager@gstbooces.org
Results To: astager@gstbooces.org	Turn Around Time: 2/5 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Date Sampled: 28-Jan-19	Material Type/Quantity: Friable <u>4</u> NOB _____ TEM _____
Project Location: St. Francis School - Port Dickinson project	

Client Mailing Address:
Chenango Valley CSD
221 Chenango Bridge Road
Binghamton, NY 13901

OFFICE USE ONLY	
Job #: 0746-19	
Page _____ of _____	
Date Logged In: 1/30/19	
Logged In By: 2002 [Signature]	

#	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SFWP 4B	6226	7 th floor wall plaster core mat	grey/offwhite	N/A	"Core" plaster
2	SFWP 5B	227	↓	↓	N/A	↓
3	SFWP 6B	228	↓	↓	N/A	↓
4	SFWP 7B	229	↓	↓	N/A	↓
5					N/A	
6					N/A	
7					N/A	
8					N/A	
9					N/A	
#					N/A	

Sampled By: [Signature]	Date: 1-28-19
Transported to Paradigm By: Fed Ex	Date:
Received By: [Signature]	Date: 1/30/19

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless EPA 600/M4/82/020 per 40 CFR 763 and/or EPA 600/R-93/116 methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 14

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).