

REF DOC 2

ASBESTOS INSPECTION REPORT

**SYCAMORE AVE. PUBLIC WORKS
MAINTENANCE FACILITY-OFFICE
REMODEL PROJECT**

City of Madison

Bid Documents

May 23, 2019

Madison Contract No. 7769



1
2
3
4

A&A ASBESTOS INSPECTION (1-14 OF 14)

**REF DOC 2 – ASBESTOS INSPECTION REPORT
TABLE OF CONTENTS**

END OF SECTION



P.O. Box 708 • Poynette, WI 53955
Phone: (608) 635-8491 • Email: Office@aaenv.com • Fax: (608) 635-9717
INSPECTION

August 10, 2017

Lucas Wardell
City of Madison
210 Martin Luther King Jr Blvd
Madison, WI 53703-3342
(608) 243-5894, (207) 631-6042

RE: 4602 Sycamore Avenue, Madison, WI 53704

On August 1, 2017 an asbestos inspection was completed for renovation of the office area of the city garage/maintenance building located at 4602 Sycamore Avenue in Madison.

Asbestos Inspection

Bulk samples were collected and analyzed for asbestos content by polarized light microscopy (PLM). The following materials were reported >1% asbestos or are assumed to contain > 1% asbestos.

1. Off white 12 x 12 floor tile and black floor tile mastic located in the west portion of the office building – 2,610 Sq Ft, Samples 13, 14, 15, and 15.
2. Tan mastic holding the brown base cove in place in the west office area – not quantified, Sample 18
3. Door frame caulking on doors abutting to CMU – quantity unknown, Sample 25
4. White mastic on TSI fittings. Some of the white mastic is painted on the CMU and TSI throughout the building – not quantified, Samples 28 and 29
5. Gray wall mastic in the electrical PA room – 8 Sq Ft (may be found in other areas), Sample 30
6. Window glazing on interior windows and entrance windows. Thirty window that vary in size – 28 Sq Ft, Sample 44 (The exterior window glazing was reported as no asbestos detected. It appears the exterior of the windows were re-glazed.)
7. The roof appears to be hard board/insulation on top of a metal deck. The material on top of the hard board/insulation is a white vinyl. All roofing is assumed to contain asbestos until bulk sampled.

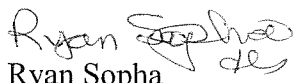
The following building materials were sampled and reported as no asbestos detected:

1. Exterior window frame caulking
2. Exterior window glazing
3. Gray 12 x 12 floor tile in east portion of the office area
4. Black floor tile mastic
5. Gray base cove
6. Tan base cove mastic
7. Green 12 x 12 floor tile in repair areas
8. Black floor tile mastic
9. Tan floor tile mastic
10. 2 x 4 ceiling tiles throughout
11. Insulating cement on plumbing and heating fittings (the mastic contains > 1% asbestos)
12. Sheet vinyl in the breakroom
13. Sheet vinyl mastic
14. Ceramic floor tile grout
15. Ceramic floor tile thin set
16. Yellow ceramic wall/floor tile glue
17. Drywall ceiling tiles
18. Drywall
19. Drywall compound

A&A Environmental Services Inc.'s inspectors are only able to inspect open, safe, and accessible areas inside and outside of the building. Inaccessible suspect material may be hidden throughout this building. Any additional suspect materials discovered during the course of abatement/demolition/remodeling must be assumed to be ACM until sampled by and EPA/State of Wisconsin certified asbestos inspector and proven negative.

If you have any questions concerning this report or the sampling performed please feel free to contact me.

Sincerely,



Ryan Sopha
President/Inspector #AII01851

Encl

RAS/bls



August 4, 2017

A & A Environmental Services
PO Box 708
Poynette, WI 53955

CLIENT PROJECT: 4602 Sycamore Avenue; 217
CEI LAB CODE: A17-10920

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 2, 2017. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

A & A Environmental Services

CLIENT PROJECT: 4602 Sycamore Avenue; 217

CEI LAB CODE: A17-10920

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 08/04/17

TOTAL SAMPLES ANALYZED: 44

SAMPLES >1% ASBESTOS: 10

TOTAL LAYERS ANALYZED: 44

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4602 Sycamore Avenue; 217

CEI LAB CODE: A17-10920

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

| Client ID | Layer | Lab ID | Color | Sample Description | ASBESTOS % |
|-----------|-------|----------|-----------|--------------------------------|----------------|
| 01 | | A2462171 | Gray | Exterior Window Frame Caulking | None Detected |
| 02 | | A2462172 | Gray | Exterior Window Frame Caulking | None Detected |
| 03 | | A2462173 | Blue | Window Glazing | None Detected |
| 04 | | A2462174 | Gray | Floor Tile | None Detected |
| 05 | | A2462175 | Yellow | Mastic | None Detected |
| 06 | | A2462176 | Gray | Floor Tile | None Detected |
| 07 | | A2462177 | Yellow | Mastic | None Detected |
| 08 | | A2462178 | Gray | Base Cove | None Detected |
| 09 | | A2462179 | Yellow | Mastic | None Detected |
| 10 | | A2462180 | Green | Floor Tile | None Detected |
| 11 | | A2462181 | Black | Mastic | None Detected |
| 12 | | A2462182 | Tan | Mastic | None Detected |
| 13 | | A2462183 | Off-white | Floor Tile | Chrysotile 2% |
| 14 | | A2462184 | Black | Mastic | Chrysotile 10% |
| 15 | | A2462185 | Off-white | Floor Tile | Chrysotile 2% |
| 16 | | A2462186 | Black | Mastic | Chrysotile 10% |
| 17 | | A2462187 | Brown | Base Cove | None Detected |
| 18 | | A2462188 | Tan | Base Cove Mastic | Chrysotile 2% |
| 19 | | A2462189 | Gray | Ceiling Tile | None Detected |
| 20 | | A2462190 | Gray | Ceiling Tile | None Detected |
| 21 | | A2462191 | Gray | Ceiling Tile | None Detected |
| 22 | | A2462192 | Gray | Ceiling Tile | None Detected |
| 23 | | A2462193 | Gray | Ceiling Tile | None Detected |
| 24 | | A2462194 | Gray | Ceiling Tile | None Detected |
| 25 | | A2462195 | Red | Door Frame Caulking | Chrysotile 3% |
| 26 | | A2462196 | Gray | Tsi Fitting | None Detected |
| 27 | | A2462197 | Gray | Tsi Fitting | None Detected |
| 28 | | A2462198 | Off-white | TSI Mastic | Chrysotile 15% |
| 29 | | A2462199 | Off-white | TSI Mastic | Chrysotile 15% |
| 30 | | A2462200 | Gray | Wall Mastic | Chrysotile 5% |
| 31 | | A2462201 | Gray | Sheet Vinyl | None Detected |



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 4602 Sycamore Avenue; 217

CEI LAB CODE: A17-10920

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

| Client ID | Layer | Lab ID | Color | Sample Description | ASBESTOS % |
|-----------|-------|----------|-----------|-----------------------------|----------------------|
| 32 | | A2462202 | Tan | Sheet Vinyl Mastic | None Detected |
| 33 | | A2462203 | Gray | Ceramic Floor Tile Grout | None Detected |
| 34 | | A2462204 | Gray | Ceramic Floor Tile Thin Set | None Detected |
| 35 | | A2462205 | Yellow | Ceramic Floor Tile Glue | None Detected |
| 36 | | A2462206 | Gray | Drywall Ceiling Tile | None Detected |
| 37 | | A2462207 | Gray | Drywall Wall | None Detected |
| 38 | | A2462208 | Off-white | Drywall Compound | None Detected |
| 39 | | A2462209 | Gray | Drywall Wall | None Detected |
| 40 | | A2462210 | Off-white | Drywall Compound | None Detected |
| 41 | | A2462211 | Gray | Drywall Wall | None Detected |
| 42 | | A2462212 | Off-white | Drywall Compound | None Detected |
| 43 | | A2462213 | Gray | Tsi Fitting | None Detected |
| 44 | | A2462214 | Black | Window Glazing | Chrysotile 5% |



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | ASBESTOS % | |
|-----------------------|-----------------------|-------------------|-------------------------|-------------|---------------|---------------|
| | | | Fibrous | Non-Fibrous | | |
| 01 A2462171 | Exterior Window Frame | Heterogeneous | 5% | Fiberglass | 60% | None Detected |
| | Caulking | Gray | | 25% | Silicates | |
| | | Fibrous | | 10% | Calc Carb | |
| | | Bound | | | Binder | |
| 02 A2462172 | Exterior Window Frame | Heterogeneous | | | 100% | None Detected |
| | Caulking | Gray | | | Caulk | |
| | | Non-fibrous | | | | |
| | | Bound | | | | |
| 03 A2462173 | Window Glazing | Heterogeneous | | | 65% | None Detected |
| | | Blue | | 30% | Binder | |
| | | Non-fibrous | | 5% | Calc Carb | |
| | | Bound | | | Paint | |
| 04 A2462174 | Floor Tile | Heterogeneous | | | 75% | None Detected |
| | | Gray | | 25% | Vinyl | |
| | | Non-fibrous | | | Calc Carb | |
| | | Bound | | | | |
| 05 A2462175 | Mastic | Homogeneous | 5% | Cellulose | 95% | None Detected |
| | | Yellow | | | Mastic | |
| | | Fibrous | | | | |
| | | Bound | | | | |
| 06 A2462176 | Floor Tile | Heterogeneous | | | 75% | None Detected |
| | | Gray | | 25% | Vinyl | |
| | | Non-fibrous | | | Calc Carb | |
| | | Bound | | | | |
| 07 A2462177 | Mastic | Homogeneous | 10% | Cellulose | 90% | None Detected |
| | | Yellow | | | Mastic | |
| | | Fibrous | | | | |
| | | Bound | | | | |



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | ASBESTOS % |
|-----------------------|--------------------|--|-------------------------|-----------------------------------|-----------------------|
| | | | Fibrous | Non-Fibrous | |
| 08 A2462178 | Base Cove | Homogeneous Gray Non-fibrous Bound | 75% | Vinyl Silicates Calc Carb | None Detected |
| 09 A2462179 | Mastic | Homogeneous Yellow Non-fibrous Bound | 90% | Mastic Silicates | None Detected |
| 10 A2462180 | Floor Tile | Heterogeneous Green Non-fibrous Bound | 75% | Vinyl Calc Carb | None Detected |
| 11 A2462181 | Mastic | Homogeneous Black Fibrous Bound | 5% Cellulose | 85% Mastic 10% Calc Carb | None Detected |
| 12 A2462182 | Mastic | Homogeneous Tan Non-fibrous Bound | 90% | Mastic Calc Carb | None Detected |
| 13 A2462183 | Floor Tile | Heterogeneous Off-white Fibrous Bound | 75% | Vinyl Calc Carb | 2% Chrysotile |
| 14 A2462184 | Mastic | Homogeneous Black Fibrous Bound | 80% | Mastic Calc Carb | 10% Chrysotile |



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | | | ASBESTOS % |
|---------------------|--------------------|-------------------|-------------------------|------------|-------------|-----------------------|---------------|
| | | | Fibrous | | Non-Fibrous | | |
| 15 A2462185 | Floor Tile | Heterogeneous | 75% | Vinyl | | 2% Chrysotile | |
| | | Off-white | 23% | Calc Carb | | | |
| | | Fibrous | | | | | |
| | | Bound | | | | | |
| 16 A2462186 | Mastic | Homogeneous | 80% | Mastic | | 10% Chrysotile | |
| | | Black | 10% | Calc Carb | | | |
| | | Fibrous | | | | | |
| | | Bound | | | | | |
| 17 A2462187 | Base Cove | Homogeneous | 85% | Vinyl | | None Detected | |
| | | Brown | 5% | Silicates | | | |
| | | Non-fibrous | 10% | Calc Carb | | | |
| | | Bound | | | | | |
| 18 A2462188 | Base Cove Mastic | Homogeneous | 73% | Vinyl | | 2% Chrysotile | |
| | | Tan | 5% | Silicates | | | |
| | | Fibrous | 20% | Calc Carb | | | |
| | | Bound | | | | | |
| 19 A2462189 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | None Detected | |
| | | Gray | 12% | Fiberglass | 3% | | |
| | | Fibrous | | | | | |
| | | Bound | | | | | |
| 20 A2462190 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | None Detected | |
| | | Gray | 12% | Fiberglass | 3% | | |
| | | Fibrous | | | | | |
| | | Bound | | | | | |
| 21 A2462191 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | None Detected | |
| | | Gray | 15% | Fiberglass | | | |
| | | Fibrous | | | | | |
| | | Bound | | | | | |



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | | | ASBESTOS % |
|---------------------|---------------------|-------------------|-------------------------|------------|-------------|-----------|-----------------------|
| | | | Fibrous | | Non-Fibrous | | |
| 22 A2462192 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | Perlite | None Detected |
| | | Gray | 12% | Fiberglass | 3% | Paint | |
| | | Fibrous Bound | | | | | |
| 23 A2462193 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | Perlite | None Detected |
| | | Gray | 12% | Fiberglass | 3% | Paint | |
| | | Fibrous Bound | | | | | |
| 24 A2462194 | Ceiling Tile | Heterogeneous | 20% | Cellulose | 65% | Perlite | None Detected |
| | | Gray | 12% | Fiberglass | 3% | Paint | |
| | | Fibrous Bound | | | | | |
| 25 A2462195 | Door Frame Caulking | Heterogeneous | | | 70% | Silicates | 3% Chrysotile |
| | | Red | | | 22% | Calc Carb | |
| | | Fibrous Bound | | | 5% | Paint | |
| 26 A2462196 | Tsi Fitting | Heterogeneous | 80% | Fiberglass | 20% | Binder | None Detected |
| | | Gray | | | | | |
| | | Fibrous Loose | | | | | |
| 27 A2462197 | Tsi Fitting | Heterogeneous | 80% | Fiberglass | 20% | Binder | None Detected |
| | | Gray | | | | | |
| | | Fibrous Loose | | | | | |
| 28 A2462198 | TSI Mastic | Homogeneous | | | 70% | Mastic | 15% Chrysotile |
| | | Off-white | | | 15% | Calc Carb | |
| | | Fibrous Bound | | | | | |



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | ASBESTOS % |
|-----------------------|--------------------------------|---|---|----------------------------|-----------------------|
| | | | Fibrous | Non-Fibrous | |
| 29 A2462199 | TSI Mastic | Homogeneous Off-white Fibrous Bound | 70% | Mastic 15% Calc Carb | 15% Chrysotile |
| 30 A2462200 | Wall Mastic | Homogeneous Gray Fibrous Bound | 25% Cellulose | 65% Mastic 5% Calc Carb | 5% Chrysotile |
| 31 A2462201 | Sheet Vinyl | Heterogeneous Gray Non-fibrous Bound | 80% Vinyl 15% Calc Carb 5% Silicates | | None Detected |
| 32 A2462202 | Sheet Vinyl Mastic | Homogeneous Tan Non-fibrous Bound | 95% Mastic 5% Calc Carb | | None Detected |
| 33 A2462203 | Ceramic Floor Tile Grout | Heterogeneous Gray Non-fibrous Bound | 95% Silicates 5% Binder | | None Detected |
| 34 A2462204 | Ceramic Floor Tile Thin Set | Heterogeneous Gray Non-fibrous Bound | 95% Silicates 5% Binder | | None Detected |
| 35 A2462205 | Ceramic Floor Tile Glue | Homogeneous Yellow Non-fibrous Bound | 85% Mastic 5% Silicates 10% Calc Carb | | None Detected |



ASBESTOS BULK ANALYSIS
 By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | | | ASBESTOS % |
|---------------------|----------------------|--|-------------------------|-------------------------|------------------|-------------------------------------|---------------|
| | | | Fibrous | | Non-Fibrous | | |
| 36 A2462206 | Drywall Ceiling Tile | Heterogeneous Gray Fibrous Bound | 10% | Cellulose | 75% | Gypsum 10% Silicates 5% Paint | None Detected |
| 37 A2462207 | Drywall Wall | Heterogeneous Gray Fibrous Bound | 15% 3% | Cellulose Fiberglass | 72% 10% | Gypsum Silicates | None Detected |
| 38 A2462208 | Drywall Compound | Heterogeneous Off-white Non-fibrous Bound | | | 70% 5% 25% | Calc Carb Paint Silicates | None Detected |
| 39 A2462209 | Drywall Wall | Heterogeneous Gray Fibrous Bound | 15% 3% | Cellulose Fiberglass | 72% 10% | Gypsum Silicates | None Detected |
| 40 A2462210 | Drywall Compound | Heterogeneous Off-white Non-fibrous Bound | | | 70% 5% 25% | Calc Carb Paint Silicates | None Detected |
| 41 A2462211 | Drywall Wall | Heterogeneous Gray Fibrous Bound | 15% 3% | Cellulose Fiberglass | 72% 10% | Gypsum Silicates | None Detected |
| 42 A2462212 | Drywall Compound | Heterogeneous Off-white Non-fibrous Bound | | | 70% 5% 25% | Calc Carb Paint Silicates | None Detected |



ASBESTOS BULK ANALYSIS
 By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental Services
 PO Box 708
 Poynette, WI 53955

CEI Lab Code: A17-10920
Date Received: 08-02-17
Date Analyzed: 08-02-17
Date Reported: 08-04-17

Project: 4602 Sycamore Avenue; 217

ASBESTOS BULK PLM, EPA 600 METHOD

| Client ID Lab ID | Lab Description | Lab Attributes | NON-ASBESTOS COMPONENTS | | ASBESTOS % |
|---------------------|--------------------|--|-------------------------|--|----------------------|
| | | | Fibrous | Non-Fibrous | |
| 43 A2462213 | Tsi Fitting | Heterogeneous Gray Fibrous Loose | 75% Fiberglass | 25% Binder | None Detected |
| 44 A2462214 | Window Glazing | Heterogeneous Black Fibrous Bound | | 65% Binder 10% Silicates 20% Calc Carb | 5% Chrysotile |



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

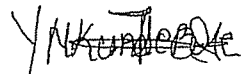
REPORTING LIMIT: <1% by visual estimation

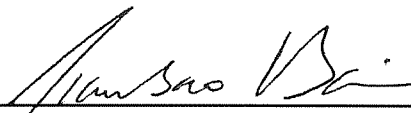
REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points


REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: 
Yvette Nkunde-Bose

APPROVED BY: 
Tianbao Bai, Ph.D., CIH
Laboratory Director


Gary A. Swanson

