

13845 East Nine Mile Warren, Michigan 48089

Tel: (586) 755-9030 Fax: (586) 755-9068

LIMITED ASBESTOS NESHAP SURVEY REPORT

BUILDING LOCATION

Former Parks and Recreation Building 318 West Lake Street South Lyon, Michigan 48178

INSPECTION DATE

August 27, 2019

CLIENT

City of South Lyon 335 South Warren South Lyon, Michigan 48178

BDS PROJECT NUMBER

19-711



INTRODUCTION

The city of South Lyon has retained BDS Environmental to conduct an asbestos inspection on a located at 318 West Lake Street, South Lyon, Oakland County, Michigan. The objective of the survey was to confirm the presence or absence of non-friable and friable asbestos-containing materials present in the building. BDS's scope of work was based on the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as they relate to asbestos-containing materials present in building structures that are to be renovated or demolished. This inspection is "limited" in scope because it was not practical to penetrate all floors, walls and ceiling surfaces in order to identify potential ACM. However, reasonable efforts were made to try to identify all currently inaccessible ACM within the building.

This is a 1,950 square foot commercial structure built on a slab with a single floor. This structure is heated with forced air heating and has an original build date circa 1950.

METHODOLOGY

BDS's Asbestos Inspector Kevin T. Vayko (MLARA Accreditation No. A52844) performed the inspection on August 27, 2019. BDS's Inspector collected thirty-three (33) bulk samples during the inspection. The inspection was performed in a manner to attempt to identify all suspect asbestos materials, i.e. "Hammer in Hand". However, potential suspect materials within or above hard plaster or cinder block walls, partitions, and ceilings may not have been identified due to the lack of access to those potential suspect materials.

BDS's inspector began by identifying building materials, which possibly contain asbestos. These materials can be floor tiles, mastic, wallboard, ceiling tiles, thermal system insulation, et cetera. Once these were located, homogeneous sampling areas were delineated and the suspect materials were sampled and analyzed from representative areas.

A homogeneous area is a material that is similar in color, texture, construction, or general appearance. Bulk samples of suspected asbestos-containing building materials were collected using the recommended procedures outlined in the EPA guidance publication Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5-85-030a-Oct. 1985). The methods described in the publication were adapted to include the sampling of thermal system insulations. Samples were collected utilizing plastic containers which were sealed air tight and labeled with a unique sample number. Chain of custody forms were then completed and priority mailed along with the samples to the laboratory for analysis.

Collected bulk samples were analyzed by SanAir Technologies Laboratory, Inc. using Polarized Light Microscopy (PLM) technique according to EPA Method 600/R-93/116. This method requires that each heterogeneous layer of a bulk sample be analyzed for the presence of asbestos. Analysis of floor tiles and other resin bound materials by PLM may yield false negative results because of method limitations in separating closely bound fibers and in detecting fibers of short length and smaller diameter. When analysis of such materials by PLM yields negative results for the presence of asbestos, BDS may recommend utilizing confirmatory methods of identification, i.e. point counting.

SAMPLE COLLECTION AND IDENTIFICATION

A total thirty-three (33) bulk samples of suspected asbestos-containing materials were collected from selected locations identified throughout the site. The bulk samples were further delineated into forty-eight (48) distinct layers which were all analyzed for asbestos content. Drywall joint compound and white aluminum window frame caulk samples were further analyzed using the "Point Count Method" to confirm accuracy of the initial testing results. This additional analysis confirmed that these homogeneous areas are asbestos-containing materials. The approximate sample location, material type, and asbestos content for each sample are listed on the following page.

BULK SAMPLE DATA

SAMPLE . NUMBER	HOMOGENEOUS AREA	SAMPLE LOCATION	ASBESTOS CONTENT	
01A	White Aluminum Frame Caulk	South - Front Entry	2% Chrysotile (PC 1.25% Chrysotile)	
01B	White Aluminum Frame Caulk	South - Front Entry	DNA	
01C	White Aluminum Frame Caulk	South - Front Entry	DNA	
02A	Black Aluminum Frame Caulk	Southwest	NAD	
02B	Black Aluminum Frame Caulk	North	NAD	
02C	Black Aluminum Frame Caulk	East	NAD	
03A	White Brick Ledge Caulk	Southwest - Front Entry	NAD	
03B	White Brick Ledge Caulk	Southeast - Front Entry	NAD	
04A	Black Foundation Caulk	Southwest - Front Entry	10% Chrysotil	
04B	Black Foundation Caulk	Southeast - Front Entry	DNA	
05A	Metal Door Frame Caulk	East	5% Chrysotil	
05B	Metal Door Frame Caulk	East	DNA	
06A	Transite Duct	South - Reception Area	40% Chrysotil	
06B	Transite Duct	North - Stock/Play Area	DNA	
07A	2' x 2' Suspended Ceiling Grid - Pinhole-Gouge	East - Reception Area	NAD	
07B	2' x 2' Suspended Ceiling Grid - Pinhole-Gouge	West - Conference Room	NAD	
08A	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	South - Reception Area	NAD/NAD	
08B	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	North - Stock/Play Area	NAD/NAD	
08C	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	West - Conference Room	NAD/NAD	
09A	12" x 12" Rainbow Pattern Floor Tile/Yellow Glue	South - Reception Area	NAD/NAD	
09B	12" x 12" Rainbow Pattern Floor Tile/Yellow Glue	North - Stock/Play Area	NAD/NAD	

BULK SAMPLE DATA

(Continued)

SAMPLE NUMBER	HOMOGENEOUS AREA	SAMPLE LOCATION	ASBESTOS CONTENT
10A	9" x 9" Light Brown Floor Tile/Black Mastic	East - Mechanical Room	5% Chrysotile/ NAD
10B	9" x 9" Light Brown Floor Tile/Black Mastic	East - Mechanical Room	DNA /NAD
11A	Brown Vinyl Base Cove/ Brown Adhesive	East - Mechanical Room	NAD/NAD
11B	Brown Vinyl Base Cove/ Brown Adhesive	North - Stock/Play Area	NAD/NAD
12A	Navy Blue Vinyl Base Cove/ Brown Adhesive	South - Reception Area	NAD/NAD
12B	Navy Blue Vinyl Base Cove/ Brown Adhesive	North - Stock/Play Area	NAD/NAD
13A	Drywall/Drywall Joint Compound	South - Reception Area	NAD/NAD
13B	Drywall/Drywall Joint Compound	North - Stock/Play Area	NAD/NAD
13C	Drywall/ Drywall Joint Compound	East - Mechanical Room	NAD/2% Chrysotile (PC 1.25% Chrysotile)
14	Drywall Joint Compound - Patch	East - Mechanical Room	NAD
15A	Black Sink Undercoating	North - Stock/Play Area	5% Chrysotile
15B	Black Sink Undercoating	North - Stock/Play Area	DNA

NAD = No Asbestos Detected

DNA = Did Not Analyze

PC = Point Count

INTERPRETATION OF SURVEY RESULTS

The Environmental Protection Agency defines an asbestos-containing material (ACM) as any material containing more than one percent asbestos as determined using Polarized Light Microscopy. Asbestos materials are further defined as Friable ACM, Category I Nonfriable ACM, and Category II Nonfriable ACM.

All friable ACM must be removed prior to building renovation/demolition and any Category I or II nonfriable ACM must be removed prior to building renovation/demolition if these materials have a high probability of becoming friable during the renovation/demolition process.

The visual inspection of the interior and exterior of the building indicated that sixteen (16) building materials, known as homogeneous areas, were determined to be Presumed Asbestos Containing Materials (PACM), of which fifteen (15) were therefore were sampled to determine definitively whether the materials were asbestos or non-asbestos. The fire door and frame doors were assumed to be asbestos-containing. The subsequent sample analysis, as listed in the previous **Bulk Sample Data** tables, indicated that eight (8) of those building materials were proven to be non-asbestos and seven (7) were proven to be asbestos-containing.

The materials listed in bold print on the following table are asbestos-containing building materials (ACBM).

HOMOGENEOUS AREA DATA

Homogeneous Area Number	Homogeneous Area Description	Asbestos-Gontaining?
HA #1	White Aluminum Frame Caulk	YES
HA #2	Black Aluminum Frame Caulk	NO
HA #3	White Brick Ledge Caulk	NO
HA #4	Black Foundation Caulk	YES
HA #5	Metal Door Frame Caulk	YES
HA #6	Transite Duct Under Floor Slab	YES
HA #7	2' x 2' Suspended Ceiling Grid – Pinhole-Gouge	NO
HA #8	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	NO/NO
HA #9	12" x 12" Rainbow Pattern Floor Tile/ Yellow Glue	NO/NO
HA #10	9" x 9" Light Brown Floor Tile/ Black Mastic	YES/NO
HA #11	Brown Vinyl Base Cove/Brown Adhesive	NO/NO

HOMOGENEOUS AREA DATA

(Continued)

Homogeneous Area Number	Homogeneous Area Description	Asbestos-Containing?
HA #12	Navy Blue Vinyl Base Cove/Brown Adhesive	NO/NO
HA #13	Drywall/Drywall Joint Compound	NO/YES
HA #14	Drywall Joint Compound - Patch	NO
HA #15	Black Sink Undercoating	YES

CONCLUSION

The locations, type of asbestos materials and approximate quantities present in the building is listed in the table below.

LOCATION	TYPE OF MATERIAL	QUANTITY	REQUIRED ASBESTOS RESPONSE ACTION
South — Front Entry	White Aluminum Frame Caulk	2 SF (28 LF)	Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.
South – Front Entry	Black Foundation Caulk	1 SF (18 LF)	Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.
East Man Door	Metal Door Frame Caulk	3 SF (21 LF] [1 Double Door]	Category II Non-friable ACM door frame caulk requires removal if renovation/demolition activities will disturb the caulk.
Interior perimeter underneath concrete slab	Transite Duct	505 SF	Category II Non-firiable ACM Transite duct requires removal after concrete floor slab has been removed.
East – Mechanical Room	9" x 9" Light Brown Floor Tile	36 SF	Category I Non-friable ACM floor tile requires removal if rendered non-intact during renovation/demolition activities.
East – Mechanical Room	Drywall Joint Compound	350 SF	Friable ACM drywall joint compound must be removed if renovation/ demolition activities will disturb the drywall.
North - Stock/Play Area	Black Sink Undercoating	1 Sink	Category II Non-friable ACM black sink undercoating must be removed if demolition activities will disturb the undercoating on the sink.
North - Stock/Play Area	Fire Door & Frame	2 Doors; 1 Frame	Category II Non-friable ACM fire door & frame requires removal if renovation/demolition activities will puncture the fire door & frame.

SF = Square Feet

All asbestos-containing response activities must be conducted in accordance to the requirements of the OSHA Class II Asbestos work requirements found in 29 CFR 1926.1101 prior to renovation or demolition activities.

Intact means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that it is no longer likely to be bound with its matrix. Each contractor will have to make the decision on whether they feel that they can renovate/demolish the building while maintaining the asbestos-containing materials in good condition (intact). It is the opinion of BDS Environmental that the liability of the building owner and renovation/demolition contractor is much lower if the asbestos-containing materials, excluding bituminous roofing, are removed prior to renovation/demolition activities.

The information and opinions rendered in this report are exclusively for use by the city of South Lyon and it's agents. BDS will not distribute this report without your consent except as required by law or court order. The information and opinions are given in light of a limited assignment and should be implemented in light of that assignment. BDS accepts responsibility for the competent performance of its duties in execution of the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

It has been a pleasure to be of service to you. If you have any questions, or require additional information, please contact us at (586) 755-9030.

Thank You,

BDS ENVIRONMENTAL

Kevin T. Vavko

MI Asbestos Inspector A#52844

Kenneth J. Lawler General Manager

CERTIFICATE OF LABORATORY ANALYSIS

SanAir Technologies Laboratory

Analysis Report

prepared for

BDS Environmental

Report Date: 8/29/2019 Project Name: 318 West Lake, South

Project #: 19-711B SanAir ID#: 19043572



NVLAP LAB CODE 200870-0 Certification # 652931







804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070 Web: http://www.sanair.com E-mail: iaq@sanair.com

BDS Environmental 13845 E. Nine Mile Road Warren, MI 48089

August 29, 2019

SanAir ID#

19043572

Project Name:

318 West Lake, South Lyon

Project Number:

19-711B

Dear Ron Lawler,

We at SanAir would like to thank you for the work you recently submitted. The 33 sample(s) were received on Wednesday, August 28, 2019 via FedEx. The final report(s) is enclosed for the following sample(s): 01A, 01B, 01C, 02A, 02B, 02C, 03A, 03B, 04A, 04B, 05A, 05B, 06A, 06B, 07A, 07B, 08A, 08B, 08C, 09A, 09B, 10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, 13C, 14, 15A, 15B.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino

Asbestos & Materials Laboratory Manager

Sandra Asbino.

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter

- Analysis Pages

- Disclaimers and Additional Information

sample conditions:

33 sample(s) in Good condition



1551 Oakbridge Drive Suite B Powhatan, VA 23139 804-897-1177 / 888-895-1177 Fax 804-897-0070 www.sanair.com

Asbestos Chain of Custody

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SanAir ID Number 9043571

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Page 3 of 16

SAMPLE	HOMOGENEOUS AREA	SAMPLE LOCATION
NUMBER		
01A	White Aluminum Frame Caulk	South - Front Entry
01B	White Aluminum Frame Caulk	South - Front Entry
01C	White Aluminum Frame Caulk	South - Front Entry
02A	Black Aluminum Frame Caulk	Southwest
02B	Black Aluminum Frame Caulk	North
02C	Black Aluminum Frame Caulk	East
03A	White Brick Ledge Caulk	Southwest - Front Entry
03B	White Brick Ledge Caulk	Southeast - Front Entry
04A	Black Foundation Caulk	Southwest - Front Entry
04B	Black Foundation Caulk	Southeast - Front Entry
05A	Metal Door Frame Caulk	East
05B	Metal Door Frame Caulk	East
06A	Transite Duct	South - Reception Area
06B	Transite Duct	North - Stock/Play Area
07A	2' x 2' Suspended Ceiling Grid - Pinhole-Gouge	East - Reception Area
07B	2' x 2' Suspended Ceiling Grid - Pinhole-Gouge	West - Conference Room
08A	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	South - Reception Area
08B	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	North - Stock/Play Area
08C	12" x 12" Pinhole Ceiling Tile with Brown Glue Pod	West - Conference Room
·09A	12" x 12" Rainbow Pattern Floor Tile	South - Reception Area
09B	12" x 12" Rainbow Pattern Floor Tile	North - Stock/Play Area
10A	9" x 9" Light Brown Floor Tile	East - Mechanical Room
10B	9" x 9" Light Brown Floor Tile	East - Mechanical Room
11A	Brown Vinyl Base Cove	East - Mechanical Room
11B	Brown Vinyl Base Cove	North - Stock/Play Area
12A	Navy Blue Vinyl Base Cove	South - Reception Area
12B	Navy Blue Vinyl Base Cove	North - Stock/Play Area
13A	Drywall Joint Compound	South - Reception Area
13B	Drywall Joint Compound	North - Stock/Play Area
13C	Drywall Joint Compound	East - Mechanical Room
14	Drywall Joint Compound - Patch	East - Mechanical Room
15A	Black Sink Undercoating	North - Stock/Play Area
15B	Black Sink Undercoating	North - Stock/Play Area

Relinquished by Lein Unit Date 08/27/249 Time (8:30 Received by

Date

Time

13509 East Boundary Road, Suite B, Midlothian, VA 23112 · 804-739-1751 · fax: 804-739-1753

ASBESTOS 400 POINT COUNT ANALYSIS SUMMARY

CLIENT:

SanAir Technologies Laboratory, Inc.

TESC LOGIN #:

190829Y

1551 Oakbridge Dr, Suite B Powhatan, VA 23139

DATE OF RECEIPT:

1.25% Chrysotile

08/28/2019

DATE OF ANALYSIS:

08/29/2019

CLIENT JOB#:

19043572

DATE OF REPORT:

08/29/2019

JOBSITE:

2

19-711B

M. Steiniger

REPORTING LIMIT 0.25% Asbestos

13C - Joint compound

ANALYST:

TESC SAMPLE#	CLIENT SAMPLE#	GROSS DESCRIPTION	% ASBESTOS
1	01A	White chalky	1.25% Chrysotile

White chalky

Total Sample(s) Analyzed: 2

Reviewed By Authorized Signatory:

Feng Jiang, MS Senior Geologist, Laboratory Director Yuedong Fang, Senior Geologist

Samples are analyzed in accordance with "interim Method for the Determination of Asbestos in Bulk Insulation Samples," EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US BPA method for the analysis of asbestos in building material. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested. NVLAP Lab Code: 200794-0 [LEGEND NAD = No Asbestos Detected]

7628061 182806T

TRIANGLE ENVIRONMENTAL SERVICE CENTER

ADDRESS: 1551 Oakbridge Drive, Suite B CITY, STATE, ZIP:Powhatan, Virginia, 23139 CHAIN OF CUSTODY FORM TESC LOGIN NUMBER: CONTACT METHOD: Phone: TAT: 2 Hour: See Proposited by TILSO Attached Sample number 8/27/19 6 Hour: Sample Date → Bulk ID by PLM 804-897-1177 PCM Fiber Count PLM Point Count 400 24 Hour: PLM Point Count 1000 13509 East Boundary Road, Suite B • Midlothian • VA • 23112 • Tel: 804-739-1751 • Fax: 804-739-1753 PLM Gravimetric CARB 435 (Soil only) TEM AHỆRA Air TEM Bulk Chatfield 48 Hour. Air Paint(% & PPM) Soil(PPM) Xez Lead Wipe 3 Day: TCLP (Pb) Waster Water ANS 29 300 Drinking Water (Pb) TCLP R¢RA 8 Other Metals Day **CAM 17** Weiding Furre Toxic Metal Profile Biocassette Air Quality/Mold PROJECT SITE: PROJECT #: CONTACT NAME: DATE:08/28/2019 Slide Email: Surface, Tape Surface Swab iaq@sanair.com.ssobrinc@sanair.com Burk Air Volume (L) Wipe Area (ft²) 19-7118 Sandra Sobrino 19043572 Scrape Area (cm²) Point Count 3% or Less Comments

Print Form

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Black Foundation Caulk	Southeast - Front Entry
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13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139

TESC LOGIN#: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

TESC SAMPLE#	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
1	01A / White chalky	2% Chrysotile		98%
2	01B/	Positive Stop		100%
3	01C/	Positive Stop		100%
4	02A / Black vinyl	NAD	N	100%
5	02B / Black vinyl	NAD		100%
6	02C / Black vinyl	NAD		100%
7	03A / White chalky	NAD		100%
8	03B / White chalky	NAD		100%
9	04A / Biack tar-like	10% Chrysotile		90%
10	04B/	Positive Stop		100%
11	05A / Gray vinyl	5% Chrysotile	·	95%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) ashestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139

TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019 DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

TESC SAMPLE#	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
12	05B /	Positive Stop		100%
13	06A / Gray cement	40% Chrysotile		60%
14	06B /	Positive Stop		100%
15	07A / Tan fibers	NAD	40% Cellulose 40% Fiberglass	20%
16	07B / Tan fibers	NAD	40% Cellulose 40% Fiberglass	20%
17A	08A - Ceiling tile / Brown fibers	NAD	95% Cellulose	5%
17B	08A - Mastic / Brown adhesive	NAD	3% Cellulose	97%
18A	08B - Ceiling tile / Brown fibers	NAD	95% Cellulose	5%
18B	08B - Mastic / Brown adhesive	NAD	3% Cellulose	97%
				

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected also below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Ashestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr. Suite B

TESC LOGIN #: 190828T

Powhatan, VA 23139

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019 DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

19A 08C - Ceiling tile / Brown fibers NAD 95% Cellulose 5% 19B 08C - Mastic / Brown adhesive NAD 3% Cellulose 97% 20A 09A - Tile / Tan vinyl NAD 100% 20B 09A - Mastic / Yellow/black adhesive NAD 100% 21A 09B - Tile / Tan vinyl NAD 100% 21B 09B - Mastic / Yellow/black adhesive NAD 100% 22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	TESC SAMPLE#	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
20A 09A - Tile / Tan vinyl NAD 100% 20B 09A - Mastic / Yellow/black adhesive NAD 100% 21A 09B - Tile / Tan vinyl NAD 100% 21B 09B - Mastic / Yellow/black adhesive NAD 100% 22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	19 A	08C - Ceiling tile / Brown fibers	NAD		
20B 09A - Mastic / Yellow/black adhesive NAD 100% 21A 09B - Tile / Tan vinyl NAD 100% 21B 09B - Mastic / Yellow/black adhesive NAD 100% 22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	19B	08C - Mastic / Brown adhesive	NAD	3% Cellulose	97%
21A 09B - Tile / Tan vinyl NAD 100% 21B 09B - Mastic / Yellow/black adhesive NAD 100% 22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	20A	09A - Tile / Tan vinyl	NAD		100%
21B 09B - Mastic / Yellow/black adhesive NAD 100% 22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	2 0B	09A - Mastic / Yellow/black adhesive	NAD		100%
22A 10A - Tile / Beige tile 5% Chrysotile 95% 22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	21A	09B - Tile / Tau vinyl	NAD		100%
22B 10A - Mastic / Black adhesive NAD 100% 23A 10B - Tile / Positive Stop 100%	21B	09B - Mastic / Yellow/black adhesive	NAD		100%
23A 10B - Tile / Positive Stop 100%	22A	10A - Tile / Beige tile	5% Chrysotile	-	95%
100%	22B	10A - Mastic / Black adhesive	NAD		100%
23B 10B - Mastic / Black adhesive NAD 100%	23A	10B - Tile /	Positive Stop	-	100%
10071	23B	10B - Mastic / Black adhesive	NAD		100%

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

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13509 East Boundary Road, Suite B, Midlothian, VA 23112 804-739-1751 • fax: 804-739-1753

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139

TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

Basecove / Brown vinyl Mastic / Yellow/brown adhesive Basecove / Brown vinyl Mastic / Yellow/brown adhesive	NAD NAD	% FIBERS	100% 100% 100%
Basecove / Brown vinyl	NAD		
•			100%
Mastic / Yellow/brown adhesive	2717		
	NAD		100%
Basecove / Blue vinyl	NAD		100%
Mastic / Yellow/brown adhesive	NAD		100%
Basecove / Blue vinyl	NAD		100%
Mastic / Yellow/brown adhesive	NAD		100%
Drywall / White chalky, tan fibers	NAD	10% Cellulose	90%
Joint compound / White chalky	NAD	***	100%
	Basecove / Blue vinyl Mastic / Yellow/brown adhesive Drywall / White chalky, tan fibers	Basecove / Blue vinyl NAD Mastic / Yellow/brown adhesive NAD Drywall / White chalky, tan fibers NAD	Basecove / Blue vinyl NAD Mastic / Yellow/brown adhesive NAD Drywall / White chalky, tan fibers NAD 10% Cellulose

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

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BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: SanAir Technologies Laboratory, Inc.

1551 Oakbridge Dr, Suite B Powhatan, VA 23139 TESC LOGIN #: 190828T

DATE OF RECEIPT: 08/28/2019

DATE OF ANALYSIS: 08/29/2019

DATE OF REPORT: 08/29/2019

CLIENT JOB/#: 19043572

JOB SITE: 19-711B

ANALYST: M. Steiniger

TESC SAMPLE#	CLIENT SAMPLE ID & GROSS DESCRIPTION	ESTIMATED % ASBESTOS	NON ASBESTOS % FIBERS	NON FIBROUS % MATERIALS
29A	13B - Drywall / White chalky, tan fibers	NAD	10% Cellulose	90%
29B	13B - Joint compound / White chalky	NAD		100%
30A	13C - Drywall / White chalky, tan fibers	NAD	20% Cellulose	80%
30B	13C - Joint compound / White chalky	2% Chrysotile		98%
31A	14A - Drywwall / White chalky, tan fibers	NAD	20% Cellulose	80%
31B	14A - Joint compound / White chalky	NAD		100%
32	15A / Black tar-like	5% Chrysotile		95%
33	15B/	Positive Stop		100%

Total Samples/Layers Analyzed: 41

Samples are analyzed in accordance with "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", EPA/600/R-93-116, July 1993 (EPA-600/M4-82-020, Dec 1982), or the current US EPA method for the analysis of asbestos in building material. None Detected: not detected at/or below the detected limit of method (Reporting limit: 1% Asbestos). Glass fiber is analyzed for quality control blank. TESC recommends by point count or Transmission Electron Microscopy (TEM), for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee. This report must not be reproduced except in full with approval of Triangle Environmental Service Center, Inc. This test report relates only to the item(s) tested.

NVLAP Lab Code: 200794-0

[LEGEND NAD=No Asbestos Detected, Lino.=Linoleum, JC=Joint Compound]

Reviewed By Authorized Signatory:

TESC LOGIN NUMBER:

TRIANGLE ENVIRONMENTAL SERVICE CENTER

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Sample #	Sample Identification/Location	Volume Sample Flow Time* or Area Type Rate* Start - Stop
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19043572

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TAMPE : POMOGENEOUS AREA	
	SAMBLE LOCATION
White Aluminum Frame Caulk	
LEE WILL THE CAUK	South - Front Entry
Her was the control of the control o	South - Front Entry
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Metal Door Frame Caulk Transite Duct	East
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大量多量的产品。1.18:2.18至2.18:2.18至2.18:1.18:2.18:2.18:2.18:2.18:2.18:2.18:	West - Conference Room
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	North - Stock/Play Area
	West - Conference Room
Manhow Pattern Place Tile	South - Reception Area
The state of the s	North - Stock/Play Area
Light Brown Floor Tile	East - Mechanical Room
Brown Vinyl Base Cove	East - Mechanical Room
Brown Vinyl Base Cove	East - Mechanical Room
Navy Blue Vinyl Base Cove	North - Stock/Play Area
Navy Blue Vinyl Base Cove	South - Reception Area
Drywall Joint Compound	North - Stock/Play Area
Drywall Joint Compound	South - Reception Area
Drywall Joint Compound	North - Stock/Play Area
Drywall Joint Compound - Patch	East - Mechanical Room
Black Sink Undercoating	East - Mechanical Room
Black Sink Undercoating	North - Stock/Play Area
	North - Stock/Play Area
Jamy June Al	UG 28 2019 7:30 pm