9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: MicroAir Consulting
PO Box 908
Greenville MI 48838
Client: MIC637

Report Date: 2/21/2019
Report No.: 583839 - TEM Dust Wipe
Project: North Park
Project No.:

TEM WIPE SAMPLE ANALYSIS SUMMARY

Lab No.:6720275
Client No.:NP-W-1
Location: Gym Floor
Area (cm²): 929
Density (s/mm²): 19.2
Concentration (s/cm²): 498
Asbestos Type(s): Chrysotile

Lab No.:6720276
Client No.:NP-W-2
Location: Stage Floor
Area (cm²): 929
Density (s/mm²): <9.62
Concentration (s/cm²): <996
Asbestos Type(s): None Detected

Lab No.:6720277
Client No.:NP-W-3
Location: Entry Hall Window Ledge
Area (cm²): 929
Density (s/mm²): 96.2
Concentration (s/cm²): 9960
Asbestos Type(s): Chrysotile

Lab No.:6720278
Client No.:NP-W-4
Location: Main Office
Area (cm²): 929
Density (s/mm²): <19.2
Concentration (s/cm²): <99.6
Asbestos Type(s): None Detected

Lab No.:6720279
Client No.:NP-W-FB
Location: FB
Area (cm²): Blank
Density (s/mm²): 7.69
Concentration (s/cm²): NA
Asbestos Type(s): Actinolite

Please refer to the Preface of this report for further information regarding your analysis.

Date Received: 2/19/2019
Date Analyzed: 02/21/2019
Signature:
Analyst: Craig Liska

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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	Greenville MI 48838	Project:	North Park
		Project No.:	
Client:	MIC637		

Appendix to Analytical Report:

Customer Contact: Chris Decker
Analysis: ASTM D6480 - 05(2010)

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.
iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Air Cassettes
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

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This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D6480 - 05(2010)

Please see our list of international, national, state, provincial, and local certifications at www.iatl.com

TEM settled dust results are dependent upon several factors, including sampling technique. iATL can supply references that may aid in the interpretation of results.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Sample results are not corrected for contamination by field or analytical blanks.

Disclaimers / Qualifiers:

There may be some samples in this project that have a “NOTE:” associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

(1)Note: Sample not analyzed.
(2)Note: Sample not analyzed at request of client.
(3)Note: Sample analysis terminated. Clearance criteria exceeded (average >70.0 s/mm²). Set fails by AHERA 40 CFR 763.
(4)Note: Heavy loading (>0.1 s/cc) of non-asbestos particulate that might prohibit the required morphological, diffraction and elemental identification of asbestos. The absence of asbestos on the sample can not be concluded. Analysis for informational purposes only.
(5)Note: Heavy loading (>10% per grid opening) non-fibrous particulate. Sample analysis terminated. Clearance criteria exceeded (>10%). Sample voided by AHERA 40 CFR 763.

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		Project No.:	
Client:	MIC637		

(5A)Note: Heavy loading (>25% per grid opening) non-fibrous particulate. Sample analysis terminated. Clearance criteria exceeded (>25%). Sample voided by NIOSH 7402.
(6)Note: Sample turbidity >1.0 NTU. Therefore MDL >> 0.1 MFL. Does not meet National Primary Drinking Water Standards.
(7)Note: Sample integrity compromised. Received sample cassette with top open (40 CFR 763 c-e).
(8)Note: Received sample cassettes with portion of filter missing. "PCM re-prep"
(9)Note: Void - overloaded, unable to prep.
(10)Note: Void - filter damaged.
(11)Note: No volume supplied.
(12)Note: Heavy loading (>0.1 s/cc) of non-asbestos / non-fibrous particulate.
(13)Note: Method analytical sensitivity of <0.003 s/cc not attained due to volume of air sampled. NIOSH requires a minimum of 400L.
(13A)Note: Volume does not meet AHERA requirements.(<1188 L)
(14)Note: Geometric Mean = 0.xxxx Structures/cc
(15)Note: Samples received on 0.8 micron PCM filters. Samples must be submitted on 0.45 micron filter cassettes per AHERA guidelines
(18)Note: *Results are for informational purposes only. Samples received on 0.8um PCM cassettes. Per AHERA 40 CFR 763 guidelines samples must be obtained on a 0.45um cassette.

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	PO Box 908	Report No.:	583839 - TEM Dust Wipe
	Greenville MI 48838	Project:	North Park
Client:	MIC637	Project No.:	

TEM WIPE SAMPLE ANALYSIS DETAILS

Lab No.:6720275
Client No.:NP-W-1

Volume Filtered (mL):2
Dilution Factor (mL):50
Grid Openings:4
Opening Area (mm²):0.013
Area Analyzed (mm²):0.0520
Sensitivity (s/mm²):19.2
Detection Limit (s/cm²):498

Micrograph Number:
EDXA Spectrum ID:

Area Sampled (cm²):929
Location: Gym Floor

Asbestos Structures: 1

Structures < 5 Microns: 1
Structures ≥ 5 µm: None Detected
Structure Density (s/mm²): 19.2
Structure Concentration (s/cm²): 498
Asbestos Type(s):
Chrysotile

Filter Type:MCE
Filter Size (mm²):962
Pore Size (µm):0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²):<19.2
Structure Concentration (s/cm²):<498
Non-Asbestos Type(s):
None Detected

Lab No.:6720276
Client No.:NP-W-2

Volume Filtered (mL):0.5
Dilution Factor (mL):50
Grid Openings:8
Opening Area (mm²):0.013
Area Analyzed (mm²):0.104
Sensitivity (s/mm²):9.62
Detection Limit (s/cm²):996

Micrograph Number:
EDXA Spectrum ID:

Area Sampled (cm²):929
Location: Stage Floor

Asbestos Structures: None Detected

Structures < 5 Microns: None Detected
Structures ≥ 5 µm: None Detected
Structure Density (s/mm²): <9.62
Structure Concentration (s/cm²): <996
Asbestos Type(s):
None Detected

Filter Type:MCE
Filter Size (mm²):962
Pore Size (µm):0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²):<9.62
Structure Concentration (s/cm²):<996
Non-Asbestos Type(s):
None Detected

Please refer to the Preface of this report for further information regarding your analysis.

Date Received: 2/19/2019
Date Analyzed: 02/21/2019
Signature:
Analyst: Craig Liska

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client:	MicroAir Consulting	Report Date:	2/21/2019
	PO Box 908	Report No.:	583839 - TEM Dust Wipe
	Greenville MI 48838	Project:	North Park
Client:	MIC637	Project No.:	

TEM WIPE SAMPLE ANALYSIS DETAILS

Lab No.:6720277
Client No.:NP-W-3

Volume Filtered (mL):0.5
Dilution Factor (mL):50
Grid Openings:4
Opening Area (mm²):0.013
Area Analyzed (mm²):0.0520
Sensitivity (s/mm²):19.2
Detection Limit (s/cm²):1990

Micrograph Number:
EDXA Spectrum ID:

Area Sampled (cm²):929
Location: Entry Hall Window Ledge

Asbestos Structures: 5

Structures < 5 Microns: 5
Structures ≥ 5 µm: None Detected
Structure Density (s/mm²): 96.2
Structure Concentration (s/cm²): 9960
Asbestos Type(s):
Chrysotile

Filter Type:MCE
Filter Size (mm²):962
Pore Size (µm):0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²):<19.2
Structure Concentration (s/cm²):<1990
Non-Asbestos Type(s):
None Detected

Lab No.:6720278
Client No.:NP-W-4

Volume Filtered (mL):10
Dilution Factor (mL):50
Grid Openings:4
Opening Area (mm²):0.013
Area Analyzed (mm²):0.0520
Sensitivity (s/mm²):19.2
Detection Limit (s/cm²):99.6

Micrograph Number:
EDXA Spectrum ID:

Area Sampled (cm²):929
Location: Main Office

Asbestos Structures: None Detected

Structures < 5 Microns: None Detected
Structures ≥ 5 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cm²): <99.6
Asbestos Type(s):
None Detected

Filter Type:MCE
Filter Size (mm²):962
Pore Size (µm):0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²):<19.2
Structure Concentration (s/cm²):<99.6
Non-Asbestos Type(s):
None Detected

Please refer to the Preface of this report for further information regarding your analysis.

Date Received: 2/19/2019
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Signature:
Analyst: Craig Liska

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Client:	MIC637	Project No.:	

TEM WIPE SAMPLE ANALYSIS DETAILS

Lab No.:6720279
Client No.:NP-W-FB

Volume Filtered (mL):50
Dilution Factor (mL):50
Grid Openings:10
Opening Area (mm²):0.013
Area Analyzed (mm²):0.130
Sensitivity (s/mm²):7.69
Detection Limit (s/cm²):NA

Micrograph Number:
EDXA Spectrum ID:

Area Sampled (cm²): Blank
Location:FB

Asbestos Structures: 1

Structures < 5 Microns: 1
Structures ≥ 5 µm: None Detected
Structure Density (s/mm²): 7.69
Structure Concentration (s/cm²): NA
Asbestos Type(s):
Actinolite

Filter Type:MCE
Filter Size (mm²):962
Pore Size (µm):0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²):<7.69
Structure Concentration (s/cm²):NA
Non-Asbestos Type(s):
None Detected

Please refer to the Preface of this report for further information regarding your analysis.

Date Received: 2/19/2019
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Signature:
Analyst: Craig Liska

Approved By:
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