

CERTIFICATE OF ANALYSIS

Client: Synertech Inc.
228 Moore Street
Philadelphia PA 19148

Report Date: 12/23/2019
Report No.: 606843 - TEM AHERA
Project: Franklin Learning Center
Project No.: 010-4531

Client: SYN177

TEM AIR SAMPLE ANALYSIS SUMMARY

Lab No.: 6941504
Client No.: ATS-1223-01

Volume: 1900.0 L
Location: Mt. Vernon Air Shaft North
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Lab No.: 6941505
Client No.: ATS-1223-02

Volume: 1900.0 L
Location: Mt. Vernon Air Shaft South
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Lab No.: 6941506
Client No.: ATS-1223-03

Volume: 1900.0 L
Location: Mt. Vernon Air Shaft East
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Lab No.: 6941507
Client No.: ATS-1223-04

Volume: 1900.0 L
Location: Mt. Vernon Air Shaft West
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected


Lab No.: 6941508
Client No.: ATS-1223-05


Volume: 1900.0 L
Location: Mt. Vernon Air Shaft Center
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Geometric Mean = 0.0039 Structures/cc

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

Date Received: 12/23/2019
Date Analyzed: 12/23/2019
Signature: 
Analyst: Jhoon Jeon

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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TEM AIR SAMPLE ANALYSIS SUMMARY

Lab No.: 6941509
Client No.: ATS-1223-11

Volume: 1800.0 L
Location: Mt. Vernon Outside Near North
Entrance
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Note: Sample integrity compromised. Cassette received with bottom missing.

Lab No.: 6941510
Client No.: ATS-1223-12

Volume: 1800.0 L
Location: Mt. Vernon Outside Southeast
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Note: Sample integrity compromised. Cassette received with bottom missing.

Lab No.: 6941511
Client No.: ATS-1223-13

Volume: 1800.0 L
Location: Mt. Vernon Outside East Fan
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Lab No.: 6941512
Client No.: ATS-1223-14

Volume: 1800.0 L
Location: Mt. Vernon Outside West
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected


Lab No.: 6941513
Client No.: ATS-1223-15


Volume: 1800.0 L
Location: Mt. Vernon Outside
Date Sampled: 12/23/19

Density (s/mm²): <19.2
Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Geometric Mean = 0.0041 Structures/cc

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

Date Received: 12/23/2019
Date Analyzed: 12/23/2019
Signature: 
Analyst: Craig Liska

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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Appendix to Analytical Report:

Customer Contact: Jacqueline McMahon
Method: 40 CFR 763 Final Rule

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: wchampion@iatl.com
iATL Account Representative: Shirley Clark
Sample Matrix: Air Cassettes

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 in 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 40 CFR 763 Final Rule

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021

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.

Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. AHERA guidelines recommend a minimum of 1200 L (0.0049 s/cc).

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.

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TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6941504
Client No.: ATS-1223-01

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0039

Volume (L): 1900.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Air Shaft North
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: 1

Structure Density (s/mm²): 19.2
Structure Concentration (s/cc): 0.0039
Non-Asbestos Type(s): CaS - Gypsum

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6941505
Client No.: ATS-1223-02

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0039

Volume (L): 1900.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Air Shaft South
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: 3

Structure Density (s/mm²): 57.7
Structure Concentration (s/cc): 0.012
Non-Asbestos Type(s): CaS - Gypsum

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6941506
Client No.: ATS-1223-03

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0039

Volume (L): 1900.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Air Shaft East
Asbestos Structures: None Detected


Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

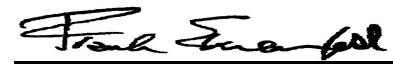
Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: 1

Structure Density (s/mm²): 19.2
Structure Concentration (s/cc): 0.0039
Non-Asbestos Type(s): CaS - Gypsum

Micrograph Number:
EDXA Spectrum ID:

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

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Project No.: 010-4531

Client: SYN177

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6941507
Client No.: ATS-1223-04

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0039

Volume (L): 1900.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Air Shaft West
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: 5

Structure Density (s/mm²): 96.2
Structure Concentration (s/cc): 0.019
Non-Asbestos Type(s): CaS - Gypsum

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6941508
Client No.: ATS-1223-05

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0039

Volume (L): 1900.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Air Shaft Center
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0039
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: 3

Structure Density (s/mm²): 57.7
Structure Concentration (s/cc): 0.012
Non-Asbestos Type(s): CaS - Gypsum

Micrograph Number:
EDXA Spectrum ID:

Geometric Mean = 0.0039 Structures/cc

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

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Client: SYN177

TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6941509
Client No.: ATS-1223-11

Volume (L): 1800.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Outside Near North Entrance

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Note: Sample integrity compromised. Cassette received with bottom missing.

Lab No.: 6941510
Client No.: ATS-1223-12

Volume (L): 1800.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Outside Southeast

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected


Non-Asbestos Structures: None Detected


Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Note: Sample integrity compromised. Cassette received with bottom missing.

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TEM AIR SAMPLE ANALYSIS DETAILS

Lab No.: 6941511
Client No.: ATS-1223-13

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Outside East Fan
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6941512
Client No.: ATS-1223-14

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Outside West
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected

Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected

Micrograph Number:
EDXA Spectrum ID:

Lab No.: 6941513
Client No.: ATS-1223-15

Grid Openings: 4
Opening Area (mm²): 0.013
Area Analyzed (mm²): 0.0520
Sensitivity (s/mm²): 19.2
Detection Limit (s/cc): 0.0041

Volume (L): 1800.0 L
Date Sampled: 12/23/19
Location: Mt. Vernon Outside
Asbestos Structures: None Detected

Structures 0.5 µm to <5.0 µm: None Detected
Structures ≥ 5.0 µm: None Detected
Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Asbestos Type(s): None Detected

Filter Type: MCE
Filter Size (mm²): 385
Pore Size (µm): 0.45
Non-Asbestos Structures: None Detected


Structure Density (s/mm²): <19.2
Structure Concentration (s/cc): <0.0041
Non-Asbestos Type(s): None Detected


Micrograph Number:
EDXA Spectrum ID:

Geometric Mean = 0.0041 Structures/cc

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

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