

**PRE-CONSTRUCTION BASELINE  
ASBESTOS AIR DATA**



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

EMSL Order: 051605113

Customer ID: AMECEEE25

Customer PO: C012904381

Project ID:

**Attention:** Andrew Shust  
AMEC Foster Wheeler E & I  
200 American Metro Blvd.  
Suite 113  
Hamilton, NJ 08619

**Project:** Honeywell Highland Park

**Phone:** (609) 689-2829

**Fax:** (609) 689-2838

**Received Date:** 11/21/2016 6:06 PM

**Analysis Date:** 11/22/2016

**Collected Date:** 11/21/2016

## Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
AMS-01-112116 051605113-0001	Perimeter Air Monitoring Sample (PCM Method)	11/21/2016	1260.00	11.5	100	0.002	14.6	0.004	
AMS-02-112116 051605113-0002	Perimeter Air Monitoring Sample (PCM Method)	11/21/2016	1260.00	9	100	0.002	11.5	0.004	
AMS-03-112116 051605113-0003	Perimeter Air Monitoring Sample (PCM Method)	11/21/2016	1260.00	9	100	0.002	11.5	0.004	
AMS-04-112116 051605113-0004	Perimeter Air Monitoring Sample (PCM Method)	11/21/2016	1260.00	7	100	0.002	8.92	0.003	
AMS-05-112116 051605113-0005	Perimeter Air Monitoring Sample (PCM Method)	11/21/2016	1350.00	11	100	0.002	14	0.004	
AMS-B-112116 051605113-0006	Field Blank (PCM Method)	11/21/2016	0.00	<5.5	100		<7.0		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

Susan Pollack PCM (6)

Nicholas Maslowski, Laboratory Manager  
or Other Approved Signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values ( Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial Report From: 11/22/2016 16:13:05



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854  
Tel/Fax: (732) 981-0550 / (732) 981-0551  
<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

EMSL Order: 051605143  
Customer ID: AMECEEE25  
Customer PO: C012904381  
Project ID:

**Attention:** Andrew Shust  
AMEC Foster Wheeler E & I  
200 American Metro Blvd.  
Suite 113  
Hamilton, NJ 08619  
**Project:** Honeywell Highland Park

**Phone:** (609) 689-2829  
**Fax:** (609) 689-2838  
**Received Date:** 11/22/2016 5:29 PM  
**Analysis Date:** 11/23/2016  
**Collected Date:** 11/22/2016


## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
AMS-01-112216 051605143-0001	Perimeter Air Monitoring Sample (TEM Method)	1327.00	0.0635	0	None Detected			0.0046	<16.00	<0.0046
AMS-02-112216 051605143-0002	Perimeter Air Monitoring Sample (TEM Method)	1260.00	0.0635	0	None Detected			0.0048	<16.00	<0.0048
AMS-03-112216 051605143-0003	Perimeter Air Monitoring Sample (TEM Method)	665.00	0.1270	0	None Detected			0.0046	<7.90	<0.0046
Volume less than 1200: 70 structure rule does not apply.										
AMS-04-112216 051605143-0004	Perimeter Air Monitoring Sample (TEM Method)	267.00	0.2290	0	None Detected			0.0063	<4.40	<0.0063
Volume Below Acceptable Limit										
AMS-05-112216 051605143-0005	Perimeter Air Monitoring Sample (TEM Method)	732.00	0.1140	0	None Detected			0.0046	<8.70	<0.0046
Volume less than 1200: 70 structure rule does not apply.										

Analyst(s)  

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Colin Slattery (5)

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Nicholas Maslowski, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 11/23/2016 14:19:59



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

EMSL Order: 051605162

Customer ID: AMECEEE25

Customer PO: C012904381

Project ID:

**Attention:** Andrew Shust  
AMEC Foster Wheeler E & I  
200 American Metro Blvd.  
Suite 113  
Hamilton, NJ 08619

**Project:** Honeywell Highland Park

**Phone:** (609) 689-2829

**Fax:** (609) 689-2838

**Received Date:** 11/23/2016 5:15 PM

**Analysis Date:** 11/23/2016

**Collected Date:** 11/23/2016

## Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
AMS-01-112316 051605162-0001	Perimeter Air Monitoring Sample (PCM Method)	11/23/2016	1287.00	<5.5	100	0.002	<7.01	<0.002	
AMS-02-112316 051605162-0002	Perimeter Air Monitoring Sample (PCM Method)	11/23/2016	1302.00	<5.5	100	0.002	<7.01	<0.002	
AMS-03-112316 051605162-0003	Perimeter Air Monitoring Sample (PCM Method)	11/23/2016	1349.00	<5.5	100	0.002	<7.01	<0.002	
AMS-04-112316 051605162-0004	Perimeter Air Monitoring Sample (PCM Method)	11/23/2016	1349.00	<5.5	100	0.002	<7.01	<0.002	
AMS-05-112316 051605162-0005	Perimeter Air Monitoring Sample (PCM Method)	11/23/2016	1317.00	<5.5	100	0.002	<7.01	<0.002	
AMS-B-112316 051605162-0006	Field Blank (PCM Method)	11/23/2016		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

Kurt Carlson PCM (6)

Nicholas Maslowski, Laboratory Manager  
or Other Approved Signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values ( Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial Report From: 11/25/2016 14:01:54



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854  
Tel/Fax: (732) 981-0550 / (732) 981-0551  
<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

EMSL Order: 051605196  
Customer ID: AMECEEE25  
Customer PO: C012904381  
Project ID:

**Attention:** Andrew Shust  
AMEC Foster Wheeler E & I  
200 American Metro Blvd.  
Suite 113  
Hamilton, NJ 08619  
**Project:** Honeywell Highland Park

**Phone:** (609) 689-2829  
**Fax:** (609) 689-2838  
**Received Date:** 11/28/2016 4:35 PM  
**Analysis Date:** 11/29/2016  
**Collected Date:** 11/28/2016


## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
AMS-01-112816 051605196-0001	Perimeter Air Monitoring Sample (TEM Method)	1271.00	0.0635	1	None Detected			0.0048	<16.00	<0.0048
AMS-02-112816 051605196-0002	Perimeter Air Monitoring Sample (TEM Method)	760.00	0.1020	0	None Detected			0.0050	<9.80	<0.0050
AMS-03-112816 051605196-0003	Perimeter Air Monitoring Sample (TEM Method)	1283.00	0.0635	0	None Detected			0.0047	<16.00	<0.0047
AMS-04-112816 051605196-0004	Perimeter Air Monitoring Sample (TEM Method)	822.00	0.1020	0	None Detected			0.0046	<9.80	<0.0046
AMS-05-112816 051605196-0005	Perimeter Air Monitoring Sample (TEM Method)	853.00	0.1020	0	None Detected			0.0044	<9.80	<0.0044

Analyst(s)  

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David Moody (5)

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Nicholas Maslowski, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289

Initial report from: 11/29/2016 14:10:10



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854

Tel/Fax: (732) 981-0550 / (732) 981-0551

<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

EMSL Order: 051605240

Customer ID: AMECE25

Customer PO: C012904381

Project ID:

**Attention:** Andrew Shust  
AMEC Foster Wheeler E & I  
200 American Metro Blvd.  
Suite 113  
Hamilton, NJ 08619

**Project:** Honeywell Highland Park

**Phone:** (609) 689-2829

**Fax:** (609) 689-2838

**Received Date:** 12/01/2016 5:20 PM

**Analysis Date:** 12/02/2016

**Collected Date:** 12/01/2016

## Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
AMS-01-120116 051605240-0001	Perimeter Air Monitoring Sample (PCM Method)	12/01/2016	1364.00	<5.5	100	0.002	<7.01	<0.002	
AMS-02-120116 051605240-0002	Perimeter Air Monitoring Sample (PCM Method)	12/01/2016	1271.00	<5.5	100	0.002	<7.01	<0.002	
AMS-03-120116 051605240-0003	Perimeter Air Monitoring Sample (PCM Method)	12/01/2016	1286.00	<5.5	100	0.002	<7.01	<0.002	
AMS-04-120116 051605240-0004	Perimeter Air Monitoring Sample (PCM Method)	12/01/2016	1380.00	<5.5	100	0.002	<7.01	<0.002	
AMS-05-120116 051605240-0005	Perimeter Air Monitoring Sample (PCM Method)	12/01/2016	1414.00	<5.5	100	0.002	<7.01	<0.002	
AMS-06-120116 051605240-0006	Field Blank (PCM Method)	12/01/2016		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):

David Moody PCM (6)

Chaiyut Sae Lao, Laboratory Manager  
or Other Approved Signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.28, 21-50 fibers = 0.24, 51-100 fibers = 0.18. Inter-laboratory Sr values ( Average of EMSL round robin data) = 0.29. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NJ NELAC 12037

Initial Report From: 12/02/2016 12:52:17