

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order:	042000082
CustomerID:	CRIT52
CustomerPO:	
ProjectID:	

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/02/20 10:10 PM
 Analysis Date: 1/3/2020
 Collected:

Project: **School District of Philadelphia / Carnell E.S / 1100 Deveseaux Ave / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01-002-11-21 042000082-0021	1st Floor Hall by Stairs Next to 110	1799.98	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-01-002-11-22 042000082-0022	1st Floor Hall at Threshold to New Wing	1799.98	0	0.0650	None Detected			0.0033	<15.00	<0.0033

Geometric Mean (S/cc):	0.00165
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Analyst(s)

 Mary McFarland (1)
 Wayne Froehlich (1)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/03/2020 08:21:23



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Sample	Location	Volume (Liters)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-01-002-11-05 042000082-0005	3rd Floor Janitors Closet	1829.65	0	0.0650	None Detected		0.0032	<15.00	<0.0032
193142-01-002-11-06 042000082-0006	3rd Floor Janitors Closet	1819.76	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00162

Analyst(s)

Debbie Little (1)
Wayne Froehlich (1)

Samantha Rundstrom, Laboratory Manager
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Sample	Location	Volume (Liters)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-01-002-11-09 042000082-0009	3rd Floor New Wing Women's Restroom	1809.87	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-01-002-11-10 042000082-0010	3rd Floor New Wing Women's Restroom	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

Analyst(s)
Wayne Froehlich (2)

Samantha Rundstrom, Laboratory Manager
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Sample	Location	Volume (Liters)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-01-002-11-07 042000082-0007	3rd Floor Supply Closet	1809.87	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-01-002-11-08 042000082-0008	3rd Floor Supply Closet	1809.87	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

Analyst(s)
Wayne Froehlich (2)

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						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01-002-11-19 042000082-0019	Art Room Closet Left Side	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-01-002-11-20 042000082-0020	Art Room Closet Right Side	1799.98	0	0.0650	Chrysotile	1	0	0.0033	15.00	0.0042

Geometric Mean (S/cc):	0.00233
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Analyst(s)

 Debbie Little (1)
 Mary McFarland (1)

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193142-01-002-11-17 042000082-0017	Art Room - by Center Windows	1809.87	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-01-002-11-18 042000082-0018	Art Room - By Closet	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

Analyst(s)
Debbie Little (2)

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Sample	Location	Volume (Liters)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01-002-11-15 042000082-0015	201 Closet	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-01-002-11-16 042000082-0016	201 Closet	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033

Geometric Mean (S/cc):	0.00165
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Analyst(s)

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 Wayne Froehlich (1)

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193142-01-002-11-11 042000082-0011	208 by Closet	1829.65	0	0.0650	None Detected		0.0032	<15.00	<0.0032
193142-01-002-11-12 042000082-0012	208 by Entrance	1829.65	0	0.0650	None Detected		0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)
Wayne Froehlich (2)

Samantha Rundstrom, Laboratory Manager
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193142-01-002-11-13 042000082-0013	209 by Window	1819.76	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-01-002-11-14 042000082-0014	209 - Center	1809.87	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

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						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01-002-11-03 042000082-0003	301 Closet - Center	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-01-002-11-04 042000082-0004	301 Closet - Center	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033

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						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01-002-11-01 042000082-0001	Room 301 by Entrance	1819.76	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-01-002-11-02 042000082-0002	Room 301 by Teachers Desk	1809.87	0	0.0650	None Detected			0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

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Samantha Rundstrom

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Chain of Custody

RECEIVED
EMSL
CINNAMINSON, NJ

2020 JAN -2 P 10: 09

Client Name: School District of Philadelphia Date Sampled: 1/2/20
 Sampling Location: Carnell E.S. Technician: Sam Oseroff
1100 Devereaux Ave Project #: 193142
Phila, PA Material: ACM

Type of Sample: TEM

Turnaround: On-Site: 6 Hour: 12 Hour: 24 Hour: 48 Hour: 3-5 Day:

Sample #	Condition	Sample #	Condition	Sample #	Condition
143142-01-002-11-01	Good	-08	Good	-15	Good
-02	↓	-09	↓	-16	↓
-03	↓	-10	↓	-17	↓
-04	↓	-11	↓	-18	↓
-05	↓	-12	↓	-19	↓
-06	↓	-13	↓	-20	↓
-07	↓	-14	↓	-21	↓
				-22	↓
				-23	↓
				-24	↓
				-25	BLANK
				-26	BLANK
				-27	BLANK

Total Number of Samples: 27 (25) (50)

Report Results To: soseroFF@criterionlabs.com Email/Phone: (50) 25-26-27 BLANK

Send Reports To: Jforster@criterionlabs.com / mpapapresso@criterionlabs.com

Samples Taken By: Sam Oseroff Signature: [Signature] Date: 1/2/20
 Transported By: Sam Oseroff Signature: [Signature] Date: 1/2/20
 Relinquished By: Sam Oseroff Signature: [Signature] Date: 1/2/20
 Received By: CP 1/2/20 10:10 Signature: _____ Date: _____
 Relinquished By: _____ Signature: _____ Date: _____
 Received By: _____ Signature: _____ Date: _____
 Analyzed By: _____ Signature: _____ Date: _____

Comments: AHERA / Philly Press. 2 Samples Per Work Area. Please provide a geometric mean for Each work Area. (-01 + -02; -03 + -04; etc.)
Don't analyze blanks.

* Samples -23 + -24 not included in this set



Criterion

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Page 1 of 4

Asbestos Air Sample Log

Client Name: School District of Philadelphia
 Site Address: Carnell E.S.
1100 Drexel Ave
Phila, PA
 Site Location: _____

Sample No: 193142-01-002-11
 Project No.: 193142
 Date: 1/2/20
 Day: Thursday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-01	3	Room 301 by Entrance	195744	1501	1805	184	9.89 / 9.89	1819.76		
-02	3	Room 301 by teachers desk	205554	1502	1805	183	9.89 / 9.89	1809.87		
-03	3	301 closet-center	201739	1504	1807	183	9.89 / 9.89	1809.87		
-04	3	301 closet-center	205556	1504	1807	183	9.89 / 9.89	1809.87		
-05	3	3rd Floor Janitors closet	205754	1525	1830	185	9.89 / 9.89	1809.85		
-06	3	3rd Floor Janitors closet	199727	1526	1830	184	9.89 / 9.89	1809.76		
-07	3	3rd Floor supply closet	205820	1528	1831	183	9.89 / 9.89	1809.87		
-08	3	3rd Floor supply closet	202369	1528	1831	183	9.89 / 9.89	1809.87		

TYPE:

- 1-Air Sample
- 2-Pre-Test
- 3-Post-Test
- 4-Personal
- 5-Field Blank

FIELD TECH Sam Oseroff



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Asbestos Air Sample Log

JAN 2 P 10:09

Client Name: School District of Philadelphia
 Site Address: Carnell E.S.
1100 Devereaux Ave
Phila PA
 Site Location: _____

Sample No: 143142-01-002-11
 Project No.: 193142
 Date: 1/2/20
 Day: Thursday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
143142-09	3	3rd Floor new wing women's Restroom	205750	1530	1833	183	9.89 / 9.89	1809.87		
-10	3	3rd Floor new wing women's Restroom	615174	1531	1833	182	9.89 / 9.89	1799.98		
-11	3	208 by closet	205598	1612	1917	185	9.89 / 9.89	1829.65		
-12	3	208 by entrance	148953	1613	1918	185	9.89 / 9.89	1829.65		
-13	3	209 by windows	206439	1616	1920	184	9.89 / 9.89	1819.76		
-14	3	209 center	202072	1617	1920	183	9.89 / 9.89	1809.87		
-15	3	201 closet	201739	1810	2113	183	9.89 / 9.89	1809.87		
-16	3	201 closet	205556	1810	2113	183	9.89 / 9.89	1809.87		

TYPE:

- 1-Air Sample
- 2-Pre-Test
- 3-Post-Test
- 4-Personal
- 5-Field Blank

FIELD TECH Sam Oseoff



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Asbestos Air Sample Log

2020 JAN -2 P 10: 09

Client Name: School District of Phila
 Site Address: Carnell E.S.
100 Deveseaux Ave
Phila PA
 Site Location: _____

Sample No: 193142-01-002-11
 Project No.: 193142
 Date: 1/2/20
 Day: Thursday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
-17	3	Art Room - by center windows	205554	1817	2120	183	9.89 / 9.89	1809.87		
-18	3	Art Room - by closet	195744	1818	2120	182	9.89 / 9.89	1799.98		
-19	3	Art Room closet left side	205254	1812	2145	183	9.89 / 9.89	1809.87		
-20	3	Art Room closet right side	199727	1843	2145	182	9.89 / 9.89	1799.98		
-21	3	1st Floor Hall by stairs next to 110	202369	1845	2147	182	9.89 / 9.89	1799.98		
-22	3	1st Floor Hall at threshold to new wing	205820	1845	2147	182	9.89 / 9.89	1799.98		
-23	3	1st Floor new wing hall by 112	615174	1849			9.89 / 9.89			
-24	3	1st Floor new wing hall by 111	205750	1850			9.89 / 9.89			

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff



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EMSL
CINNAMINSON, NJ

Asbestos Air Sample Log

2020 JAN -2 P 10:09

Client Name: School District of Philadelphia
 Site Address: Carnell E.S.
1100 Devereaux Ave
Philadelphia, PA
 Site Location: _____

Sample No: 193142-01-002-11
 Project No.: 193142
 Date: 1/2/20
 Day: Thursday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-25	5	F. Blank								
-26	5	S. Blank								
-27	5	S. Blank								

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order:	042000143
CustomerID:	CRIT52
CustomerPO:	
ProjectID:	

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/03/20 12:05 PM
 Analysis Date: 1/3/2020
 Collected: 1/3/2020

Project: **School District of Philadelphia - Carnell ES 1100 Devereaux Ave. Phila, PA**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ	-5μ ≥5μ		(S/mm ²)	(S/cc)
193142-01 042000143-0001	Room 108 by Teacher's Desk	1799.98	0	0.0650	None Detected			0.0033	<15.00	<0.0033
193142-02 042000143-0002	Room 108 by Smart Board	1799.98	0	0.0650	None Detected			0.0033	<15.00	<0.0033

Geometric Mean (S/cc):	0.00165
-------------------------------	----------------

Analyst(s)

 Wayne Froehlich (2)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/03/2020 18:03:05



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
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<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000143
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/03/20 12:05 PM
Analysis Date: 1/3/2020
Collected: 1/3/2020

Project: **School District of Philadelphia - Carnell ES 1100 Devereaux Ave. Phila, PA**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-03 042000143-0003	1st Floor Hallway New Wing 104-111	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-04 042000143-0004	1st Floor Hallway New Wing by 112	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

Analyst(s)
Wayne Froehlich (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/03/2020 18:03:59



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000143
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/03/20 12:05 PM
Analysis Date: 1/3/2020
Collected: 1/3/2020

Project: **School District of Philadelphia - Carnell ES 1100 Devereaux Ave. Phila, PA**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-05 042000143-0005	Gym Teacher's Office	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033
193142-06 042000143-0006	Gym Teacher's Office	1799.98	0	0.0650	None Detected		0.0033	<15.00	<0.0033

Geometric Mean (S/cc): 0.00165

Analyst(s)
Wayne Froehlich (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/03/2020 18:04:35

042000143



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CINNAMINSON NJ
Chain of Custody
20 JAN -3 PM 12:03

Client Name: School District of Philadelphia Date Sampled: 1/3/20
Sampling Location: Carnell E.S. Technician: Sam Oseroff
1100 Deversaux Ave Project #: 193/42
Phila, PA Material: ACM

Type of Sample: TEM

Turnaround: On-Site: 6 Hour: X 12 Hour: 24 Hour: 48 Hour: 3-5 Day:

Sample #	Condition	Sample #	Condition	Sample #	Condition
193/42-01	Good	-08	S. Blank		
-02					
-03					
-04					
-05					
-06					
-07	F. Blank				

Total Number of Samples: 8

Report Results To: Soseroft@Criterionlabs.com Email/Phone:

Send Reports To: Iforster@Criterionlabs.com / Mpanepress@Criterionlabs.com

Samples Taken By: SAM OSEROFF Signature: [Signature] Date: 1/3/20
 Transported By: SAM OSEROFF Signature: [Signature] Date: 1/3/20
 Relinquished By: SAM OSEROFF Signature: [Signature] Date: 1/3/20
 Received By: [Signature] Signature: KATE CLIVER Date: 1/3/20 12:05 PM
 Relinquished By: Signature: Date:
 Received By: Signature: Date:
 Analyzed By: Signature: Date:

Comments: ANERA / Philly Regs. Please provide Geometric Mean for each work area (01+02, 03+04, 05+06) Don't analyze blanks. Thanks.

4/11



Criterion

Asbestos Air Sample Log

RECEIVED 1 of 1
 EPPS
 CINNAMINSON, NJ

20 JAN -3 PM 12:03

Client Name: School District of Philadelphia
 Site Address: Cornell ES.
1100 Devescaux Ave
Phila PA

Sample No: 193142-01002-13
 Project No.: 193142
 Date: 1/3/20
 Day: Friday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-01	3	Room 108 by teacher's desk	205548	0829	1131	182	9.89 / 9.89	1799.98		
-02	3	Room 108 by smart board	198953	0829	1131	182	9.89 / 9.89	1799.98		
-03	3	1st Floor Hallway New wing by 111	206439	0832	1134	182	9.89 / 9.89	1799.98		
-04	3	1st Floor Hallway New wing by 112	208072	0832	1134	182	9.89 / 9.89	1799.98		
-05	3	Gym teacher's office	201739	0835	1137	182	9.89 / 9.89	1799.98		
-06	3	Gym teacher's office	205556	0835	1137	182	9.89 / 9.89	1799.98		
-07	5	F. Blank						-		
-08	5	S. Blank						-		

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order:	042000760
CustomerID:	CRIT52
CustomerPO:	
ProjectID:	

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/10/20 8:10 PM
 Analysis Date: 1/11/2020
 Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥ 5μ		(S/mm ²)	(S/cc)
193142-01 042000760-0001	308 Closet	1809.87	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-02 042000760-0002	308 Closet	1799.98	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc):	0.00160
-------------------------------	----------------

Analyst(s)
 Ted Young (2)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:33:52



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<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000760
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/10/20 8:10 PM
Analysis Date: 1/11/2020
Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥5μ		(S/mm ²)	(S/cc)
193142-03 042000760-0003	314 Closet	1829.65	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-04 042000760-0004	314 Closet	1829.65	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)

Ted Young (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:34:54



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200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000760
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/10/20 8:10 PM
Analysis Date: 1/11/2020
Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥ 5μ		(S/mm ²)	(S/cc)
193142-05 042000760-0005	B7 Closet	1819.76	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-06 042000760-0006	B7 Closet	1809.87	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)

Ted Young (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:35:41

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<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000760
 CustomerID: CRIT52
 CustomerPO:
 ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/10/20 8:10 PM
 Analysis Date: 1/11/2020
 Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥ 5μ		(S/mm ²)	(S/cc)
193142-07 042000760-0007	108 Closet	1809.57	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-08 042000760-0008	108 Closet	1809.57	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)
 Ted Young (2)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:36:30



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000760
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/10/20 8:10 PM
Analysis Date: 1/11/2020
Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥ 5μ		(S/mm ²)	(S/cc)
193142-09 042000760-0009	107 in Tent	1799.98	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-10 042000760-0010	107 in Tent	1799.98	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)

Ted Young (2)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:37:16

**EMSL Analytical, Inc.**

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 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000760
 CustomerID: CRIT52
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Attn: **Sam Oseroff**
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Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/10/20 8:10 PM
 Analysis Date: 1/11/2020
 Collected: 1/10/2020

Project: **School District of Philadelphia / Carnell E.S / 1100 Devereaux Ave / Philadelphia, PA / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ -5μ	≥5μ		(S/mm ²)	(S/cc)
193142-11 042000760-0011	101 in Bathroom	1819.76	0	0.0665	None Detected			0.0032	<15.00	<0.0032
193142-12 042000760-0012	101 in Bathroom	1809.87	0	0.0665	None Detected			0.0032	<15.00	<0.0032

Geometric Mean (S/cc): 0.00160

Analyst(s)
 Ted Young (2)

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 12:38:03



Chain of Custody

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CINNAMINSON, NJ

20 JAN 10 PM 8:09

Client Name: School District of Philadelphia Date Sampled: 1/10/20
 Sampling Location: Carnell E.S. Technician: Sam Oseroff
1100 Devereaux Ave Project #: 193142
Philadelphia, PA Material: ACM

Type of Sample: TEM

Turnaround: On-Site: 6 Hour: ^{SPLIT} 12 Hour: 24 Hour: 48 Hour: 3-5 Day:

Sample #	Condition	Sample #	Condition	Sample #	Condition
193142-01	Good	-08	Good		
-02		-09			
-03		-10			
-04		-11			
-05		-12			
-06		-13	F. BLANK		
-07		-14	S. BLANK		

Total Number of Samples: 14

Report Results To: Soseroff@critterionlabs.com Email/Phone: _____

Send Reports To: Jforster@critterionlabs.com / Mpanepresso@critterionlabs.com

Samples Taken By: Sam Oseroff Signature: _____ Date: 1/10/20
 Transported By: Sam Oseroff Signature: _____ Date: 1/10/20
 Relinquished By: Sam Oseroff Signature: _____ Date: 1/10/20
 Received By: _____ Signature: _____ Date: _____
 Relinquished By: _____ Signature: _____ Date: _____
 Received By: _____ Signature: _____ Date: _____
 Analyzed By: _____ Signature: _____ Date: _____

Comments: Please provide separate Geometric Means for each work Area (-01+02, 03+04, 05+06, etc.). Don't analyze blanks



RECEIVED
EMSL
CINNAMINSON, NJ
Asbestos Air Sample Log
20 JAN 10 PM 8:09

Client Name: School District of Philadelphia
Site Address: Carnell ES.
1100 Devereaux Ave
Philadelphia, PA
Site Location: _____

Sample No: _____
Project No.: 193142
Date: 1/19/20
Day: Friday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-01	3	308 closet	200439	0857	1200	183	9.89 / 9.89	1809.87		
-02	3	308 closet	200072	0858	1200	182	9.89 / 9.89	1799.98		
-03	3	314 closet	205554	0903	1208	185	9.89 / 9.89	1829.65		
-04	3	314 closet	205526	0903	1208	185	9.89 / 9.89	1829.65		
-05	3	B7 closet	205556	0908	1212	184	9.89 / 9.89	1849.76		
-06	3	B7 closet	205754	0909	1212	183	9.89 / 9.89	1809.87		
-07	3	108 closet	265750	0915	1218	183	9.89 / 9.89	1809.87		
-08	3	108 closet	615174	0915	1218	183	9.89 / 9.89	1809.87		

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff



Criterion

RECEIVED
EMISL

Asbestos Air Sample Log

20 JAN 10 PM 8:09

Client Name: School District of Philadelphia
 Site Address: Carnell E.S.
1100 DEVEREAUX AVE
PHILADELPHIA PA
 Site Location: _____

Sample No: _____
 Project No.: 193142
 Date: 1/10/20
 Day: Friday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-09	3	107 in tent	195744	0918	1220	182	9.89 / 9.89	1799.98		
-10	3	107 in tent	201739	0918	1220	182	9.89 / 9.89	1799.98		
-11	3	101 Bathroom	199727	0921	1225	184	9.89 / 9.89	1819.76		
-12	3	101 Bathroom	202369	0922	1225	183	9.89 / 9.89	1809.87		
-13	5	F. BLANK						-		
-14	5	S. BLANK						-		

TYPE:

- 1-Air Sample
- 2-Pre-Test
- 3-Post-Test
- 4-Personal
- 5-Field Blank

FIELD TECH Sam Oseroff



EMSL Analytical, Inc.

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Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000777
CustomerID: CRIT52
CustomerPO:
ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
Fax: (215) 244-4349
Received: 01/11/20 1:35 PM
Analysis Date: 1/11/2020
Collected:

Project: **School District of Philadelphia / Carnell E.S. / 1100 Devereaux / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-01 042000777-0001	Outside Work Area (OWA) at Decon in B1	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041
193142-02 042000777-0002	OWA in B1 Right of Decon	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041
193142-03 042000777-0003	OWA Basement Hall at Girls Restroom	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041
193142-04 042000777-0004	OWA Basement Hall at B1	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041
193142-05 042000777-0005	OWA Basement Hall by B2	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041

Geometric Mean (S/cc): 0.00410

Analyst(s)

Sarah Richey (5)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 18:27:55

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 042000777
 CustomerID: CRIT52
 CustomerPO:
 ProjectID:

Attn: **Sam Oseroff**
Criterion Laboratories, Inc.
400 Street Road
Bensalem, PA 19020

Phone: (215) 244-1300
 Fax: (215) 244-4349
 Received: 01/11/20 1:35 PM
 Analysis Date: 1/11/2020
 Collected:

Project: **School District of Philadelphia / Carnell E.S. / 1100 Devereaux / 193142**

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)	Non Asb	Area Analyzed (mm ²)	Asbestos Type(s)	# Structures ≥ 0.5μ -5μ ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
193142-06 042000777-0006	Inside Work Area (IWA) B1 Closet	1819.76	0	0.0528	None Detected		0.0040	<19.00	<0.0040
193142-07 042000777-0007	IWA Right of AFD	1819.76	0	0.0528	None Detected		0.0040	<19.00	<0.0040
193142-08 042000777-0008	IWA at AFD	1809.87	0	0.0528	None Detected		0.0040	<19.00	<0.0040
193142-09 042000777-0009	IWA Left of AFD	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041
193142-10 042000777-0010	IWA at Decon	1799.98	0	0.0528	None Detected		0.0041	<19.00	<0.0041

Geometric Mean (S/cc): 0.00404

Analyst(s)
 Matthew Hermann (5)

Samantha Rundstrom

Samantha Rundstrom, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from 01/11/2020 18:32:06



Chain of Custody

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2020 JAN 11 P 2:40

Client Name: School District of Phila Date Sampled: 1/11/20
 Sampling Location: Carnell E.S. Technician: Sam Oseroff
1100 Devereaux Project #: 193142
Phila, PA Material: ACM

Type of Sample: TEM

Turnaround: On-Site: 6 Hour: X 12 Hour: 24 Hour: 48 Hour: 3-5 Day:

Sample #	Condition	Sample #	Condition	Sample #	Condition
193142-01	Good	-08	Good		
-02		-09	↓		
-03		-10			
-04		-11	F. Blank		
-05		-12	S. Blank		
-06					
-07					

Total Number of Samples: 12

Report Results To: Soserooff@Criterionlabs.com Email/Phone:

Send Reports To: Iforster@Criterionlabs.com / Mpanepressa@Criterionlabs.com

Samples Taken By: Sam Oseroff Signature: [Signature] Date: 1/11/20
 Transported By: Sam Oseroff Signature: [Signature] Date: 1/11/20
 Relinquished By: Sam Oseroff Signature: [Signature] Date: 1/11/20
 Received By: OP Drop Box Signature: Date: 1/11/2020 2:35P
 Relinquished By: Signature: Date:
 Received By: Signature: Date:
 Analyzed By: Signature: Date:

Comments: Philly Regs. Please provide separate Geo MCws for inside (-06 through 10) and outside (-01 through -05) Don't analyze blanks



Criterion

Asbestos Air Sample Log

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CINNAMINSON, NJ

Page 1 of 2

2020 JAN 11 P 2:40

Client Name: School District of Philadelphia
 Site Address: Carnell E.S.
100 Devesaux Ave
Phila, PA
 Site Location: B1/B1 closet

Sample No: 193142-01-002-24
 Project No.: 193142
 Date: 1/11/20
 Day: Saturday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-01	3	outside work AREA (OWA) at Decon in B1	205572	1042	1344	182	9.89 / 9.89	1774.98		
-02	3	OWA in B1 Right of Decon	205554	1042	1344	182	9.89 / 9.89	1799.98		
-03	3	OWA Basement Hall at Girls Restroom	205526	1042	1344	182	9.89 / 9.89	1799.98		
-04	3	OWA Basement Hall at B1	201739	1042	1344	182	9.89 / 9.89	1799.98		
-05	3	OWA Basement Hall by B2	202369	1042	1344	182	9.89 / 9.89	1799.98		
-06	3	Inside Work Area (IWA) B1 closet	202439	1040	1344	184	9.89 / 9.89	1819.76		
-07	3	IWA Right of AFD	205574	1040	1344	184	9.89 / 9.89	1819.76		
-08	3	IWA at AFD	205750	1041	1344	183	9.89 / 9.89	1809.87		

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff



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EMSL
CINNAMINSON, NJ

Page 2 of 2

Asbestos Air Sample Log

2020 JAN 11 P 2:40

Client Name: School District of Philadelphia
 Site Address: Cornell E.S.
1100 Devereaux Ave
Phila, PA
 Site Location: _____

Sample No: 193142-01-002-24
 Project No.: 193142
 Date: 1/11/20
 Day: Saturday

Sample Number	Type	Location	Pump Number	Time			Flow Rate (L/Min)	Volume (L)	Fibers Per Field	Fibers Per CC
				Start	Stop	Total Min.				
193142-09	3	IWA left of AFD	202369	1042	1344	182	9.89 9.89	1799.98		
-10	3	IWA at Decon	144630	1042	1344	182	9.89 9.89	1799.98		
-11	5	F. Blank						-		
-12	5	S. Blank						-		

TYPE: 1-Air Sample 2-Pre-Test 3-Post-Test 4-Personal 5-Field Blank

FIELD TECH Sam Oseroff