



TTI ENVIRONMENTAL, INC
Consulting & Contracting

1253 North Church Street, Moorestown, NJ 08057
www.ttienv.com o 856-840-8800 f 856-840-8815

November 27, 2017

Dr. Maryann Banks
Interim Superintendent
Pinelands Regional School District
520 Nugentown Road, Little Egg Harbor, New Jersey 08087

Reference: Asbestos Bulk Sampling
Pinelands Regional High School
TTI Project No. 17-1224

Dear Dr. Banks:

On November 13 & 16, 2017, TTI Environmental, Inc.'s (TTI) United States Environmental Protection Agency (USEPA) Accredited Building Inspectors, Adam Culliton (#ACC-0617-6-006) and Curt Sims (#ACC-0617-6-0006) collected bulk samples of the suspect ACM roofing debris from around the perimeter grounds of the Pinelands Regional High School.

Laboratory analysis of the suspect ACM revealed the following materials sampled (Table 1.0) to have an asbestos content of greater than one percent (1%). A complete summary of the materials sampled can be found in Attachment 1.0.

Table 1.0: Roof Debris Testing Results Summary			
No.	Location	Material	Results
DEBRIS-10	Exterior around Perimeter 152/Stairwell #5	Debris	25.8% Chrysotile
DEBRIS-17	Exterior around Perimeter Condemned Stairwell/Teacher's Room	Debris	28.2% Chrysotile

TTI recommends cleaning ALL roofing debris from the High School grounds. All landscaping beds and grass areas shall be raked clean to insure all roofing debris is identified and disposed of properly. TTI recommends this work be performed by properly trained personnel according to the Occupational Health and Safety Standards (OSHA) 29 CFR 1926.1101.

If you should have any questions or require additional information, please feel free to contact me directly.

Sincerely,

TTI ENVIRONMENTAL, INC.


James A. Guilardi
Senior Project Manager



Bulk Sampling Results Summary				
Sample No.	Sample Location	Material	Asbestos Result	
			PLM	TEM
DEBRIS-01	Exterior Front at D-Wing	Debris	N/A	N/D
DEBRIS-02	Exterior around Perimeter between ANNEX and High School	Debris	N/A	N/D
DEBRIS-03	Exterior around Perimeter between ANNEX and High School	Debris	N/A	N/D
DEBRIS-04	Exterior around Perimeter Transformer Cage at Auditorium	Debris	N/A	0.35% Chrysotile
DEBRIS-05	Exterior around Perimeter Youth Services	Debris	N/A	N/D
DEBRIS-06	Exterior around Perimeter Media Center	Debris	N/A	N/D
DEBRIS-07	Exterior around Perimeter 147/149	Debris	N/A	N/D
DEBRIS-08	Exterior around Perimeter 152	Debris	N/A	N/D
DEBRIS-09	Exterior around Perimeter Woods Line at TV Studio	Debris	N/A	N/D
DEBRIS-10	Exterior around Perimeter 152/Stairwell #5	Debris	N/A	25.8% Chrysotile
DEBRIS-11	Exterior around Perimeter Boiler Room	Debris	N/A	N/D
DEBRIS-12	Exterior around Perimeter Courtyard Entrance by Boiler Room	Debris	N/A	N/D
DEBRIS-13	Exterior around Perimeter Stairwell #2	Debris	N/A	N/D
DEBRIS-14	Exterior around Perimeter Stairwell #1/105	Debris	N/A	N/D
DEBRIS-15	Exterior around Perimeter 106/107	Debris	N/A	N/D
DEBRIS-16	Exterior around Perimeter Condemned Stairwell	Debris	N/A	N/D
DEBRIS-17	Exterior around Perimeter Condemned Stairwell/Teacher's Room	Debris	N/A	28.2% Chrysotile
DEBRIS-18	Exterior around Perimeter Gymnasium	Debris	N/A	0.27% Chrysotile
DEBRIS-19	Exterior around Perimeter Boy's Locker Room/Main Entrance	Debris	N/A	N/D
DEBRIS-20	Exterior around Perimeter ANNEX (Street Side)	Debris	N/A	N/D

NA: Not Analyzed; ND: None Detected

The US Environmental Protection Agency (EPA) defines asbestos-containing materials as those materials that contain greater than 1% asbestos.



ATTACHMENT 1.0

SAMPLING DATA AND ANALYTICAL RESULTS

E-MAIL ALL RESULTS AND COC TO: ih-lab@ttienv.com

041733318

1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815



PLM Sampling Data and Chain of Custody Record

PROJECT #: 17-1224	CLIENT: Pineland's Regional BOE	TTI PROJECT MANAGER: Jeff Seaman
SAMPLER(S): A. C. Simon / C. Sims	CLIENT CONTACT:	FACILITY: Pineland's Regional High School
DATE: 11-16-17		DATE: 11-16-17

Sample #	Sample Location	Material Description	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Date	Time	Hour Turnaround Time	Stop First Positive
DEBRIS-02	Exterior Around Perimeter - ANNEX and HS	Debris										24	<input type="checkbox"/>
-03	- Between ANNEX and HS												
-04	- Transformer Cage at Auditorium												
-05	- Youth Services												
-06	- Media Center												
-07	- 147/149												
-08	- 152												
-09	- Wards Line at TV Studio												
-10	- 152 Stairwell #5												
-11	- Boiler Room												
-12	- Courtyard Entrance Boiler Room												
-13	- Stairwell #2												
-14	- Stairwell #1 / 105												
-15	- 106/107												
-16	- Condensed Stairwell												

PO # 023938	Hour Turnaround Time 24	Stop First Positive <input type="checkbox"/>
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NOB MATERIALS:

Perform TEM analysis of 1st sample in each homogeneous group. (Initials _____)

For NOB samples with insufficient material for TEM analysis, please perform composite analysis using material from other samples in the same homogeneous group. (Initials _____)

For NOB samples, please stop analysis when the following number of samples have been analyzed. _____ (Initials _____)

Perform Composite Analysis on positive sheetrock/joint compound samples. (Initials _____)

2016
Straight to TEM
2208



EMSL Analytical, Inc.

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EMSL Order ID: 041733318
Customer ID: TTIE54
Customer PO: 023938
Project ID:

Attn: Jim Guilardi Phone: (856) 840-8800
TTI Environmental Inc. Fax: (856) 840-8815
1253 North Church Street Collected: 11/16/2017
Moorestown, NJ 08057 Received: 11/17/2017
Analyzed: 11/18/2017

Proj: 17-1224 / Pinelands Regional BOE / Pinelands Regional High School

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: DEBRIS-02 **Lab Sample ID:** 041733318-0001

Sample Description: Exterior around Perimeter-Between Annex and HS/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-03 **Lab Sample ID:** 041733318-0002

Sample Description: Exterior around Perimeter-Between Annex and HS/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-04 **Lab Sample ID:** 041733318-0003

Sample Description: Exterior around Perimeter-Transformer Cage at Auditorium/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	99.7%	0.35% Chrysotile	

Client Sample ID: DEBRIS-05 **Lab Sample ID:** 041733318-0004

Sample Description: Exterior around Perimeter-Youth Services/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-06 **Lab Sample ID:** 041733318-0005

Sample Description: Exterior around Perimeter-Media Center/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-07 **Lab Sample ID:** 041733318-0006

Sample Description: Exterior around Perimeter-147 / 149/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-08 **Lab Sample ID:** 041733318-0007

Sample Description: Exterior around Perimeter-152/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: DEBRIS-09-Shingle **Lab Sample ID:** 041733318-0008

Sample Description: Exterior around Perimeter-Woods Line at TV Studio/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-09-Flashing **Lab Sample ID:** 041733318-0008A

Sample Description: Exterior around Perimeter-Woods Line at TV Studio/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-10 **Lab Sample ID:** 041733318-0009

Sample Description: Exterior around Perimeter-152 / Stairwell #5/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	74.2%	25.8% Chrysotile	

Client Sample ID: DEBRIS-11 **Lab Sample ID:** 041733318-0010

Sample Description: Exterior around Perimeter-Boiler Room/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-12 **Lab Sample ID:** 041733318-0011

Sample Description: Exterior around Perimeter-Courtyard Entrance by Boiler Room/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-13 **Lab Sample ID:** 041733318-0012

Sample Description: Exterior around Perimeter-Stairwell #2/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-14 **Lab Sample ID:** 041733318-0013

Sample Description: Exterior around Perimeter-Stairwell #1 / 105/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Gray/Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-15 **Lab Sample ID:** 041733318-0014

Sample Description: Exterior around Perimeter-106 / 107/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: DEBRIS-16 **Lab Sample ID:** 041733318-0015

Sample Description: Exterior around Perimeter-Condemned Stairwell/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-17 **Lab Sample ID:** 041733318-0016

Sample Description: Exterior around Perimeter-Condemned Stairwell / Teacher's Room/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	71.8%	28.2% Chrysotile	

Client Sample ID: DEBRIS-18 **Lab Sample ID:** 041733318-0017

Sample Description: Exterior around Perimeter-Gymnasium/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	99.7%	0.27% Chrysotile	

Client Sample ID: DEBRIS-19 **Lab Sample ID:** 041733318-0018

Sample Description: Exterior around Perimeter-Boys' Locker-Main Entrance/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: DEBRIS-20 **Lab Sample ID:** 041733318-0019

Sample Description: Exterior around Perimeter-Annex (Street Side)/Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Black	0.0%	100%	None Detected	

Client Sample ID: 93-B **Lab Sample ID:** 041733318-0020

Sample Description: Exterior Wall at Cafeteria/Perlite Insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/18/2017	White	0%	100%	None Detected	

Client Sample ID: 93-C **Lab Sample ID:** 041733318-0021

Sample Description: Exterior Wall Stairwell #5 / 152/Perlite Insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/18/2017	Brown/White	0%	100%	None Detected	

Client Sample ID: Bulk-01-Floor Tile **Lab Sample ID:** 041733318-0022

Sample Description: Room 120/Floor Tile (G1)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	White/Beige	0.0%	100%	None Detected	



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Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: Bulk-01-Mastic

Lab Sample ID: 041733318-0022A

Sample Description: Room 120/Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
TEM Grav. Reduction	11/18/2017	Brown	0.0%	100%	None Detected	

Analyst(s):

Benjamin Verghese PLM (2)
Ted Young TEM Grav. Reduction (22)

Reviewed and approved by:

Benjamin Ellis, 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

Initial report from: 11/18/2017 12:28:00