



TTI ENVIRONMENTAL, INC
Consulting & Contracting

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

PROJECT REPORT

on the

INSPECTIONS, ON-SITE SUPERVISION AND AIR MONITORING

for the

PLAYGROUND MULCH CLEANUP PROJECT

conducted on

December 7 - 8 & 11 - 12, 2017

at

PINELANDS REGIONAL HIGH SCHOOL

Rainbow Express - Playground

565 Nugentown Road
Little Egg Harbor, New Jersey 08087

for

Pinelands Regional School District

520 Nugentown Road
Little Egg Harbor, New Jersey 08087

TTI Project No. 17-1224

December 20, 2017



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I. INTRODUCTION

Pinelands Regional School District (PRSD) requested the services of TTI Environmental (TTI) to provide oversight for the removal and clean-up of mulch from the playground located on the grounds of Pinelands Regional High School. The clean-up was performed in response to a site inspection and asbestos-testing of the playground mulch after an asbestos roof project was performed at the High School. During the visual inspection, one (1) small piece of roofing type material was discovered in the mulched area. Both the roof type material and the mulch was tested for asbestos via Polarized Light Microscopy (PLM) by a certified testing laboratory. The roof type material tested positive for asbestos. The mulch was non-detected for asbestos. As a precaution, TTI recommended the removal of mulch within the playground.

At the request of the PRSD, TTI was retained as the Environmental Consultant for the above referenced project to conduct the following:

- Provide an Environmental Technician to serve as on-site supervisor to ensure that the contractor adheres to project requirements.
- Conduct asbestos air sampling at the Pinelands Regional High School parking lot in addition to air sampling during removal of playground mulch and cleaning of equipment. Analysis was conducted using AHERA method 40 CFR 763 final rule by TEM. Results were compared to AHERA clearance limit of <70 s/mm².

The following documentation is included in the appendices to document adherence to the project requirements during the project:

- Air Sampling Data and Analytical Results
- Daily Inspection Reports



II. SUMMARY AND CONCLUSIONS

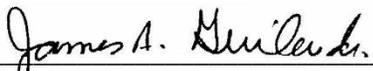
The cleanup project summarized below was conducted in accordance with US Environmental Protection Agency (EPA) asbestos procedures and monitoring by TTI Environmental, Inc. (TTI).

Location: Pinelands Regional High School – Rainbow Express Playground
Abatement Contractor: Shade Environmental
Date(s) of Cleanup: December 7 - 8 & 11 - 12, 2017

LOCATION	TYPE OF ACM	ABATEMENT METHOD
Rainbow Express Playground	Mulch	Wet Method Cleanup/Removal

TTI conducted a final inspection within the work area for visible asbestos material on December 12, 2017. The work area was found to be in compliance with the project scope of work.

All project air sampling results analyzed by Transmission Electron Microscopy (TEM) yielded concentrations below the EPA 40 CFR Part 763 Final Rule Asbestos Hazard Emergency Response Act (AHERA) final clearance limit of <70 structures per millimeter squared (s/mm²). No asbestos fibers were detected in any of the samples collected near the work area during the mulch removal. In addition, PRSD requested air sampling for asbestos in the High School parking lot. TTI collected two (2) samples and both sample results for the parking lot were non-detected for asbestos.



James A. Guilardi
Senior Project Manager



APPENDIX A:

Air Sampling Data and Analytical Results



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 /

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

EMSL Order: 041735004

Customer ID: TTIE54

Customer PO: 024067

Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received Date: 12/07/2017 16:50 PM
Analysis Date: 12/08/2017
Collected Date: 12/07/2017

Project: 17-1224 / Pinelands Regional BOE / Pinelands Regional HS-Playground

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 ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
C-08 041735004-0001	Near Annex Door 42	1225.00	0.0650	0	None Detected	0	0	0.0048	<15.00	<0.0048
C-09 041735004-0002	Inside Playground Fence at Side Road	1260.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
C-10 041735004-0003	Inside Playground Fence on D-Wing Side	1260.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
C-11 041735004-0004	Outside Playground Fence on D-Wing Side	1253.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
C-12 041735004-0005	Inside Room 176 - Graphics Lab	1253.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
C-13 041735004-0006	Near ANNEX Door 42	1085.00	0.0780	0	None Detected	0	0	0.0045	<13.00	<0.0045
C-14 041735004-0007	Inside Playground Fence at Side Road	1050.00	0.0780	0	None Detected	0	0	0.0047	<13.00	<0.0047
C-15 041735004-0008	Inside Playground Fence on D-Wing Side	1036.00	0.0780	0	None Detected	0	0	0.0048	<13.00	<0.0048
C-16 041735004-0009	Outside Playground Fence on D-Wing Side	1050.00	0.0780	0	None Detected	0	0	0.0047	<13.00	<0.0047
C-17 041735004-0010	Inside Room 176 - Graphics Lab	1050.00	0.0780	0	None Detected	0	0	0.0047	<13.00	<0.0047

Analyst(s)

Essie Spencer (10)

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, PA ID# 68-00367

Initial report from: 12/08/2017 16:15 PM

Po# 024067 24 hr TAT 041735004



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

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM (Circle One) PRES POST

PROJECT #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (fimm ³)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
C-08	003	Near ANNEX Door 42	9:05	12:00	175	7	7	7	1225			
C-09	59	Inside Playground Fence at Side Road	9:10	12:10	180	7	7	7	1260			
C-10	11	Inside Playground Fence on D-wing Side	9:15	12:15	180	7	7	7	1260			
C-11	210	Outside Playground Fence Front of D-wing	9:16	12:15	179	7	7	7	1253			
C-12	52	Inside Room 176 - Graphics Lab	9:21	12:20	179	7	7	7	1253			
C-13	003	Near ANNEX Door 42	12:00	14:35	155	7	7	7	1085			
C-14	59	Inside Playground Fence at Side Road	12:10	14:40	150	7	7	7	1050			
C-15	11	Inside Playground Fence on D-wing Side	12:15	14:43	148	7	7	7	1036			
C-16	210	Outside Playground Fence Front of D-wing	12:15	14:45	150	7	7	7	1050			
C-17	52	Inside Room 176 - Graphics Lab	12:20	14:50	150	7	7	7	1050			
C-18	—	Blank										
C-19	—	Blank										

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PROJECT # 17-1224 CLIENT: Pine Islands Regional BOE
 SAMPLER(S): A. Calliston FACILITY: Pine Islands Regional HS - Playground SAMPLING DATE: 12/7/17
 TTI PROJECT MANAGER: Guilardi Stocku Seaman

Relinquished by: (Signature) Date: 12-7-17 Time: 4:50 PM
 Relinquished by: (Signature) Date: 12-7-17 Time: 4:50 PM
 Analyst: (Signature) Date: 12-7-17 Time: 4:50 PM

Rotameter #: 3
 Filter Manufacturer: XE Son
 Lot #: 47257

Comments: e-mail all results and COC to: ih-lab@ttienv.com

PO # 024067 Turn Around Time: 24 hr

FOR JEM ANALYSIS ONLY. DO NOT ANALYZE BLANKS Analyze All



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 /

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

EMSL Order: 041735129

Customer ID: TTIE54

Customer PO: 024067

Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800

Fax: (856) 840-8815

Received Date: 12/08/2017 17:10 PM

Analysis Date: 12/09/2017

Collected Date: 12/08/2017

Project: 17-1224 / Pinelands Regional BOE / Pinlenads Regional HS Playground

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 ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
C-20	Near Container - 176 Entrance Outside Entrance	1295.00	0.0650	0	None Detected	0	0	0.0046	<15.00	<0.0046
041735129-0001										
C-21	Inside Fence Playground at D-Wing	1288.00	0.0650	0	None Detected	0	0	0.0046	<15.00	<0.0046
041735129-0002										
C-22	Inside Fence Playground Near Brick Pinelands Sign	1274.00	0.0650	0	None Detected	0	0	0.0046	<15.00	<0.0046
041735129-0003										
C-23	Inside Room 176 - Graphics Lab	1260.00	0.0650	0	None Detected	0	0	0.0047	<15.00	<0.0047
041735129-0004										
C-24	Outside Sidewalk at D-Wing by Parking	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
041735129-0005										
C-25	Outside Front Entrance Area at Flagpole	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
041735129-0006										
C-26	Near Container - 176 Entrance Outside Entrance	1350.00	0.0650	0	None Detected	0	0	0.0044	<15.00	<0.0044
041735129-0007										
C-27	Inside Fence Playground at D-Wing	1350.00	0.0650	0	None Detected	0	0	0.0044	<15.00	<0.0044
041735129-0008										
C-28	Inside Fence Playground Near Brick Pinelands Sign	1350.00	0.0650	0	None Detected	0	0	0.0044	<15.00	<0.0044
041735129-0009										
C-29	Inside Room 176 - Graphics Lab	1350.00	0.0650	0	None Detected	0	0	0.0044	<15.00	<0.0044
041735129-0010										

Analyst(s)

Ted Young (10)

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, PA ID# 68-00367

Initial report from: 12/09/2017 11:13 AM

PO# 024067 24 hr TAT 04/17/15 129



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

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM (TEM) (Circle One) PRES DURINGS POST

PROJECT #	PUMP #	SAMPLE LOCATION	TIMES				FLOW RATE		TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (f/mm ²)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
			FACILITY: Pinelands Regional HS-Playground									
C-20	11	Near Container / 176 Entrance	0745	1050	185	7	7	1295				
C-21	59	Inside Fence Playground at P-Wing	0746	1050	184	7	7	1288				
C-22	210	Inside Fence Playground Near Brick Sign	0748	1050	182	7	7	1274				
C-23	609	Inside Room 176 - Graphics Lab	0750	1050	180	7	7	1260				
C-24	003	Outside Sidewalk at P-Wing by Parking	0805	1005	120	10	10	1200				
C-25	003	Outside Front Entrance Area at Hoopole	1015	1215	120	10	10	1200				
C-26	11	Near Container / 176 outside Entrance	1230	1445	135	10	10	1350				
C-27	59	Inside Fence Playground at P-Wing	1230	1445	135	10	10	1350				
C-28	210	Inside Fence Playground Near Brick Sign	1231	1446	135	10	10	1350				
C-29	609	Inside Room 176 - Graphics Lab	1231	1446	135	10	10	1350				
C-30	-	Blank										
C-31	-	Blank										

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2017 DEC - 8 10 5: 08

12

PROJECT # 17-1224 CLIENT: Pinelands Regional BDE
 SAMPLER(S) A. Culliford CLIENT CONTACT: Pinelands Regional HS-Playground
 TTI PROJECT MANAGER: Guilford O Stocku O Seaman

Relinquished by: (Signature) [Signature] Date: 12-8-17 Time: 5:10 PM
 Relinquished by: (Signature) [Signature] Date: Date: Time: Time:
 Analyst: (Signature) [Signature] Date: Date: Time: Time:

Received by: (Signature) [Signature] Date: 12-06-17 Time: 5:10 pm
 Received by: (Signature) [Signature] Date: Date: Time: Time:

Rotameter #: 3 PO # 024067
 Filter Manufacturer: Zefon Turn Around Time: 24 hr
 Lot #: 47257

Comments: e-mail all results and COC to: ih-lab@ttienv.com

FOR TEM ANALYSIS ONLY: DO NOT ANALYZE BLANKS

* front parking lot samples Analyze everything but blank



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 /

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

EMSL Order: 041735251
Customer ID: TTIE54
Customer PO: 024067
Project ID:

Attention: Jim Guilardi TTI Environmental Inc. 1253 North Church Street Moorestown, NJ 08057	Phone: (856) 840-8800 Fax: (856) 840-8815 Received Date: 12/11/2017 16:00 PM Analysis Date: 12/12/2017 Collected Date: 12/11/2017
Project: 17-1224 / Pinelands Regional School District / Pinelands High School	

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 ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
01 041735251-0001	Inside Play Area - Center	1110.00	0.0774	0	None Detected	0	0	0.0045	<13.00	<0.0045
02 041735251-0002	Fence Northside	1104.00	0.0774	0	None Detected	0	0	0.0045	<13.00	<0.0045
03 041735251-0003	Inside Daycare - At exit #43	1850.00	0.0516	0	None Detected	0	0	0.0040	<19.00	<0.0040
04 041735251-0004	Daycare - Pillars adjacent to Dumpster	1800.00	0.0516	0	None Detected	0	0	0.0041	<19.00	<0.0041

Analyst(s)

Garret Vliet (4)

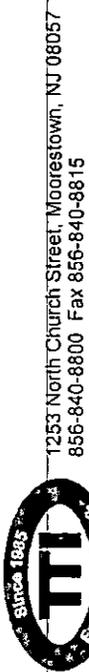
Benjamin Ellis, Laboratory Manager
or other approved signatory

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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, PA ID# 68-00367

Initial report from: 12/12/2017 09:21 AM

041735251



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

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM TEM (Circle One) PRES DURINGS POST

PROJECT #: 17-1274 CLIENT: Regional School District TTI PROJECT MANAGER: X Guillard Stocku Seaman
 SAMPLER: MRS. LUTTER FACILITY: Lincoln High School SAMPLING DATE: Mon, 12-11-17

SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (f/mm ²)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
01		Outside play area - center	8:20	8:30	370	3'	3'	5'	1110			
02		Fence Northside - #	8:35	8:55	268	2'	2'	3'	1104			
03		Outside daycare - At Exit of 2	9:20	10:05	185	10'	10'	10'	1850			
04		Daycare - Pillars Adj. to dumpster	9:40	10:10	180	10'	10'	10'	1800			
05		Blank										
06		Blank										

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2017 DEC 11 P 3:58

Relinquished by: (Signature) [Signature] Date: 12-11-17 Time: _____

Relinquished by: (Signature) [Signature] Date: _____ Time: _____

Analyst: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) [Signature] Date: 12-11-17 Time: 4:00 PM

Received by: (Signature) _____ Date: _____ Time: _____

Rotameter #: _____

Filter Manufacturer: _____

Lot #: _____

Comments: e-mail all results and COC to: ih-lab@ttienv.com

PO # 024067
Turn Around Time 24 HR

FOR TEM ANALYSIS ONLY DO NOT ANALYZE BLANKS

GRN



APPENDIX B:

Daily Inspection Reports



ASBESTOS SAFETY TECHNICIAN DAILY INSPECTION REPORT

CLIENT: <u>Pinelands Regional BOE</u>		PROJECT: <u>Playground at HS/ANNEX</u>	
PROJECT NO.: <u>17-1224</u>	DATE: <u>12/7/17</u>	DAY OF JOB: <u>1</u>	
ADDRESS: <u>590 Nugentown Rd., Tuckerton, NJ</u>			
AST: <u>Adam Culliton</u>		SIGNATURE: <u>[Signature]</u>	
ARRIVED ON SITE: <u>8:00</u> AM <input checked="" type="radio"/> PM		LEFT SITE: <u>3:20</u> AM <input type="radio"/> PM	

Shade Environmental

LIST PERMITTED WORKERS AND AUTHORIZED VISITORS WITH TIMES

NAME	PERMIT NUMBER	EXP DATE	NAME	PERMIT NUMBER	EXP DATE
<u>Thomas McCoy Jr.</u>	<u>033661</u>	<u>2/12/18</u>			
<u>Nicholas Terregino</u>	<u>10597</u>	<u>9/7/18</u>			
<u>Brian Perez</u>	<u>038244</u>	<u>5/24/18</u>			
<u>Felix Lux</u>	<u>035514</u>	<u>12/10/17</u>			
<u>Matthew Ellick</u>	<u>037976</u>	<u>6/2/18</u>			
<u>- End -</u>					

Phase of Abatement (Prep, Removal, Etc.): _____ Work Area(s): Playground at HS/ANNEX

Scope of Work: Prep and Removal of Playground wood chips, wet wipe all playground equipment

Visitors: Jim Guilard Representing: TTI Environmental Time of Visit: 10:15

Comments: Visual visit to check status of work and prep of Area.

Dumpster On Site Yes No

Pump Calibration Before Sample After

Emergency Phone # On Site & Posted

Plans & Specs On Site

Amended Water Being Used

No. of Waste Bags Removed _____

No. of AFDs N/A

Caution Signs Posted

	Smoke Test	H ₂ O Reading	Time
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____

Decon Chambers/Shower

Electric Shut Down/GFCI Protected Yes No

HVAC Shut Down Yes No

Ventilation provided for Active Equipment



DAILY INSPECTION REPORT

Client: Pinelands Regional BOE	Project: Playground H5/ANNEX	Project No.: 17-1224
Date: 12-7-17	Shift:	Page: 1 of 2
Area: Playground	Activity: Prep and Removal of mulch, Equipment Cleaning	

- 0800** - Adam Culliton (TTI) arrives on site. I meet with Shade Environmental and discuss scope of work. They are going to prep area around playground using 6mil poly to protect surrounding areas outside mulch enclosure. Workers will use full PPE (Tyvek suits and Respirators) while working. Shade will use plenty of water to wet down mulch before bagging materials. —
- 0925** - TTI finishes setting up air samples - see chain of custody — workers begin to start wetting and removal of mulch. Removal using 6mil bags and sealing up before transporting to container on site. —
- 1015** - Jim Cruland (TTI) arrives on site to check on work status and review with contractors other scope areas of work to be performed. —
- 1105** - Shade is making good progress, they are using plenty of water to keep mulch wet and adding more to bagged materials prior to sealing them up. There is a slight wind blowing W/NW at approx 10-15mph. There are no visible emissions noticed during work. —
- 1200** - TTI was approached by a woman stating she was a mother of a student and inquired about the work being done. Informed her of the procedures and what tasks were being done by Shade and TTI. Women began asking more questions about things not pertaining to scope of work and she was instructed to direct any and all other concerns or questions to the school district. Shade workers break for lunch at this time. Container has been locked and TTI remains on site to monitor equipment and work area. —
- 1300** - Shade returns from break and resumes removal of mulch using plenty of water and bagging. Again, there are no visible emissions noticed. —
- 1310** - TTI notices two (2) individuals approach fence area for playground ○○○

SIGNATURE: _____

12-7-17



DAILY INSPECTION REPORT

Client: Pinelands Regional BOE	Project: Playground HS/ANNEX	Project No.: 17-1224
Date: 12-7-17	Shift:	Page: 2 of 2
Area: Playground	Activity: Prep and Removal of Mulch, Equipment Cleaning	

(1310) 000 to take pictures of workers and they are near TTI's sampling equipment. I began to approach them to inform them not to touch equipment but they quickly left the area. No words were exchanged.

(1430) - Shade informs me that they have run out of bags and cannot continue removal of mulch. They will switch to cleaning and wiping down playground equipment and relocating them to the areas where mulch was already removed.

(1500) - Shade finishes cleaning and packing up for day. Visual Inspection and photos taken of area before departure for day.

(1520) - TTI and Shade depart site.

(*) See Chain of Custody for Air Sampling Data

(*) See Log for Shade Employee Permits.

SIGNATURE: 

12-7-17



ASBESTOS SAFETY TECHNICIAN DAILY INSPECTION REPORT

CLIENT: <u>Pinelands Regional BOE</u>		PROJECT: <u>Playground at HS/ANNEX</u>	
PROJECT NO.: <u>17-1224</u>	DATE: <u>12-8-17</u>	DAY OF JOB: <u>2</u>	
ADDRESS: <u>590 Nugentown Rd., Tuckerton, NJ</u>			
AST: <u>Adam Calliton</u>		SIGNATURE: <u><i>Adam Calliton</i></u>	
ARRIVED ON SITE: <u>7:00</u> <u>AM</u> PM		LEFT SITE: <u>3:30</u> AM <u>PM</u>	

Shade Environmental

LIST PERMITTED WORKERS AND AUTHORIZED VISITORS WITH TIMES

NAME	PERMIT NUMBER	EXP DATE	NAME	PERMIT NUMBER	EXP DATE
<u>Thomas McCooq Jr.</u>	<u>0336661</u>	<u>2/12/18</u>			
<u>Nicholas Terregino</u>	<u>10597</u>	<u>9/7/18</u>			
<u>Brian Perez</u>	<u>038244</u>	<u>5/24/18</u>			
<u>Felix Lux</u>	<u>035514</u>	<u>12/10/17</u>			
<u>Matthew Ellick</u>	<u>037976</u>	<u>6/2/18</u>			
<u>— End —</u>					

Phase of Abatement (Prep, Removal, Etc.): _____ Work Area(s): Playground at HS/ANNEX

Scope of Work: Removal of Playground wood chips/mulch and clean playground equipment.

Visitors: Curt Sims Representing: TTI Environmental Time of Visit: 10:00

Comments: Here on other business pertaining to roof inspections

Dumpster On Site Yes No

Pump Calibration Before Sample After

Emergency Phone # On Site & Posted

Plans & Specs On Site

Amended Water Being Used

No. of Waste Bags Removed _____

No. of AFDs N/A

Caution Signs Posted

	Smoke Test	"H ₂ O Reading	Time
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____

Decon Chambers/Shower

Electric Shut Down/GFCI Protected Yes No

HVAC Shut Down Yes No

Ventilation provided for Active Equipment



DAILY INSPECTION REPORT

Client: Pinelands Regional BOE	Project: Playground HS/ANNEX	Project No.: 17-1224
Date: 12-8-17	Shift:	Page: 1 of 2
Area: Playground	Activity: Removal of Mulch, Cleaning of Equipment	

- (0700) - Adam Culliton (TTI) arrives on site, Shade Environmental not yet on site. I walk around and inspect work areas - everything appears to be in the state it was when departed the day prior. Awaiting Shade's arrival. —
- (0715) - Shade arrives on site, we go over plans for the day and began to mobilize equipment. Shade will continue wearing full PPE while wetting down and bagging mulch. TTI logs Shade workers (see log report) —
- (0830) - TTI and Shade discuss the length of grass in fenced area within the playground. Shade will wet down all grass areas, cut and bag them following the same procedures as mulch removal. —
- (0910) - Shade takes break. It should be noted that workers for roofer (MHR) have been making comments towards Shade employees and harassing them verbally during work procedures. —
- (0945) - Curt Sims (TTI) arrives on site. He is here to perform other tasks not pertaining to this scope of work. —
- (1100) - Shade workers break for lunch, TTI remains on site to watch over area and equipment. —
- (1200) - Shade workers return from break. They continue removal of mulch as per previous mentioned methods wearing full PPE. Container is almost full and they are running low on 6mil poly bags. Shade will continue until container is completely full or they run out of bags. Mulch removal is approximately 50% complete. There are no visible emissions being noticed during removal procedures. —
- (1430) - Shade has run out of room in container. TTI and Shade begin to collect, clean and pack up equipment for the day. —

SIGNATURE:  12-8-17



DAILY INSPECTION REPORT

Client: <u>Pinelands Regional BOE</u>	Project: <u>Playground HS/ANNEX</u>	Project No.: <u>17-1224</u>
Date: <u>12-8-17</u>	Shift:	Page: <u>2</u> of <u>2</u>
Area: <u>Playground</u>	Activity: <u>Removal of Mulch, Clearing of Equipment</u>	

1530 - Shade and TTI depart site for the day after site inspection
Forecast for upcoming weekend is for 3" to 8" of snow. Work will
resume pending future outcome of weather;

- See Chain of Custody for Air Sampling Data,
- See Log for Shade Employee permits.

SIGNATURE:  12-8-17



ASBESTOS SAFETY TECHNICIAN DAILY INSPECTION REPORT

CLIENT: <u>Quelands Regional School District</u>		PROJECT NO.:
SITE: <u>Quelands High School</u>		
DATE: <u>Mon, 12-11-17</u>	DAY OF JOB: <u>3</u>	
ABATEMENT CONTRACTOR: <u>Shade Environ.</u>		
AST: <u>MARVELLEN LEO PH</u>		
ARRIVED ON SITE: <u>7:00</u> AM <input checked="" type="radio"/> PM	LEFT SITE: <u>2:30</u> AM <input checked="" type="radio"/> PM	

LIST PERMITTED WORKERS AND AUTHORIZED VISITORS WITH TIMES

NAME	PERMIT NUMBER	EXP DATE	NAME	PERMIT NUMBER	EXP DATE
<u>Supervisor Thomas McCoig, Jr</u>	<u>033661</u>	<u>2-12-18</u>			
<u>Supervisor Matthew Ellick</u>	<u>037967</u>	<u>6-2-18</u>			
<u>Inspector FRANCISCO CATINAC</u>	<u>035479</u>	<u>9-10-18</u>			
<u>Inspector Elmer Alvarez</u>	<u>035506</u>	<u>10-9-18</u>			

Phase of Abatement & Method (Prep, Removal, Etc.): _____

Abatement Method (Glovebag, Non-Friable, Etc.): _____

Type & Amount of ACM: Contaminated Soil

Work Area(s): North Side of Childs Play Area

Scope of Work: _____

Dumpster On Site Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Smoke Tests and Manometer Readings	Smoke Test	"H ₂ O Reading	Time
Pump Calibration Before Sample <input checked="" type="checkbox"/> After <input checked="" type="checkbox"/>		1	_____	_____
Emergency Phone # On Site & Posted <input type="checkbox"/>		2	_____	_____
Plans & Specs On Site <input type="checkbox"/>		3	_____	_____
Amended Water Being Used <input checked="" type="checkbox"/>	4	_____	_____	
No. of Waste Bags Removed _____	Decon Chambers/Shower <input type="checkbox"/>			
No. of AFDs _____	Electric Shut Down/GFCI Protected Yes <input type="checkbox"/> No <input type="checkbox"/>			
Caution Signs Posted <input checked="" type="checkbox"/>	HVAC Shut Down Yes <input type="checkbox"/> No <input type="checkbox"/>			
	Ventilation provided for Active Equipment <input type="checkbox"/>			



DAILY INSPECTION REPORT

Client: <u>Penelands S. D. Co.</u>	Project: <u>Penelands H. S.</u>	Project No.: <u>17-1274</u>
Date: <u>Nov. 12-11-17</u>	Shift: <u>7 AM</u>	Page: <u>1</u> of
Area: <u>Outside Child</u>	Activity: <u>CLEAN up ACM in mulch-PLAY AREA</u>	

7:00 A.M. T T I Envirocon & Shade Envirocon (1) Super & (3) workers arrive on site. Locate entrance to school off loading dock
7:40 I open entrance for shade to look up hoses etc. at Graphics ARTS CLASS ROOM
8:00 AM Super & I try to get power inside Graphics ARTS ROOM - NO LIGHTS & NO POWER throughout "D" wing.
8:25 I setup (2) low-mal battery operated pumps. Shade Envirocon crew in 1/2 full large trench suits are shoveling mulch (covered in snow) into asbestos bag & piles on the Northwest side of play area.
10:00 A.M. Bill Lynch & Shade Envirocon President arrives on site to check on job progress.
10:30 A.M. Mike Hansen - D.E.P. arrives on site. Bill Lynch & I go over all job procedures & removal methods they're using. Shade's dumpster is 90% full & Mr. Hansen informs shade they are not allowed to transfer their waste to their dumpster at their shop using their own truck. Mr. Lynch calls to have new dumpster delivered today & old one picked up. Mr. Hansen also wants TTI to send him all results from all soil samples.

SIGNATURE: M. Gupta



DAILY INSPECTION REPORT

Client: <i>Pinellas Bay Side Dist.</i>	Project: <i>Oxeland H. G.</i>	Project No.: <i>17-1224</i>
Date: <i>12-18-17</i>	Shift: <i>7 AM - 3:30 p.m.</i>	Page: <i>2</i> of
Area: <i>Child's Play Area</i>	Activity: <i>Removal of contamin. mulch -</i>	

11:15 A.M. Mike Hanson departs site -

11:31 - 12 noon: Junch Oreal - Bill Lynch departs site.

12:35 p.m. Shade continues cleanup of mulch from soil. Workers shoveling snow covered mulch into 45 gallon bags. - Air samples - inside child care center & at pillars adj to dumpster collected. (2) air samples (1) inside play area & (1) north side of play area still running. (low vol pump)

1:00 p.m. Shade new dumpster arrived on-site & filled dumpster picked up.

2:00 p.m. Shade continues cleanup - in northeast area of play area.

2:50: All TEM samples collected. Shade has approx. 20% left to remove tomorrow in Northeast part of outdoor play area. & will also clean around outside perimeter.

3:30 p.m. TTI & Shade depart site

SIGNATURE: _____