

\_\_\_\_\_ \* General Inventory - 763 (e)(1)

Name of School Fairland Cntr.

Address: 13313 Old Columbia Pike  
Silver Spring, MD 20904

Phone No. \_\_\_\_\_

\_\_\_\_\_ \* List of School Building(s) and ACM Status

School Building(s)	Friable ACBM	Nonfriable ACBM	Friable Assumed	Nonfriable Assumed
Main Building	✓	✓		✓
No Portables				

\_\_\_\_\_ \* Facility Description

Originally Built  
Approx 47K Sq Ft.  
Basement  
Crawlspace has ACM TSI

\_\_\_\_\_ \* Documentation that no ACM exists in the building

### ACCREDITATION INFORMATION

LEA DESIGNATED PERSON: John Conaway, CHMM

Address: 8301 Turkey Thicket Drive, Phone: (240) 740 - 2331  
Building A, First Floor  
Gaithersburg, MD 20879

Training Course (s): AHERA Inspector/Management Planner Review

Date(s): August 13, 2018 Total Hours: 8

Agency: Aria Environmental, Inc.

### INSPECTIONS, BULK SAMPLING, AND ASSESSMENTS

Inspections were conducted by: Eldon Marr Date: 9/7/18

Bulk samples were collected by: Juan Vega Date: 9/7/18

Assessments were made by: E. Marr Date: 9/7/18

Signature:  Signature: 

Name: Juan Vega Name: Eldon R. Marr

Accreditation/Photo ID No.: \*18022611 Accreditation/Photo ID No.: 18022551

State and Date: MD 8-13-2019 State and Date: MD 8-13-19

### MANAGEMENT PLANNER:

Management Plan prepared by:

Recommendation(s) for Response  
Actions made by:

Signature:  Signature: 

Name: John Conaway Name: John Conaway


Accreditation/Photo ID No.: 18022721 Accreditation/Photo ID No.: 18022721

State and Date: Maryland, 8/13/2019 State and Date: Maryland, 8/13/2019

### STATEMENT OF ACCREDITATION (763.93 (e)(7)):

With respect to the person or persons who inspected for ACBM and who will design or carry out response actions, (except for operations and maintenance), with respect to the ACBM:

**THE LEA USED OR WILL USE PERSONS WHO HAVE BEEN ACCREDITED BY A STATE ACCREDITATION PLAN OR AN EPA-APPROVED COURSE.**

Signature:  Typed Name: John Conaway  
(Designated Person) Date: 1/2/19

### LABORATORY STATEMENT AND CERTIFICATION:

All bulk samples were analyzed by on or more of the following laboratories:

EMSL Analytical, Inc. (NVLAP #200293-0)  
10768 Baltimore Ave, Beltsville, MD 20705

AMA Analytical Services, Inc. (NVLAP #101143-0)  
4475 Forbes Blvd, Lanham, MD 20706

SanAir Technologies, Laboratory (NVLAP #200870-0)  
1551 Oakbridge Drive, St B, Powhattan, VA 23139

These laboratories meet all requirements of 40 CFR 763.87 and has received accreditation for Polarized Light Microscopy (PLM) analysis under the **NIST/NVLAP Program**.

\_\_\_\_ Date(s) of analysis: See Attached Chain of Custody

\_\_\_\_ Name of analyst(s): See Attached Chain of Custody

\_\_\_\_ Signature of analyst(s): See Attached Chain of Custody

# AHERA Form B; Assessment and Response Action Table


School: Fairland Cntr.

Inspection Date: 11/6/18

Homogeneous Area	Material Description	Material Category	Friability	Asbestos Content	Location(s)	Condition	Prior Assessment Category	Current Assessment Category	Management Planner Response Action
	12x12 FT./Mastic Cream	MISC	NF	Y	Rm 5, 11, 14, 15, 10	good		X	O+M
	12x12 FT./Mastic Green	MISC	NF	Y	Rm - 22, 23	good		X	O+M
	12x12 FT./Mastic Brown & white	MISC	NF	Y	throughout	good		X	O+M
	9x9 FT./Mastic Green & pink	MISC	NF	Y	throughout	good		X	O+M
	9x9 FT./Mastic Tan & Red	MISC	NF	Y	throughout	good		X	O+M
	12x12 FT./Mastic tan & white	MISC	NF	Y	Hall at Rm 5	good		X	O+M

Inspector Signature: Eldon R. Mann

Date: 11/6/18

Management Planner Signature: 

Friability: F = Friable, NF = Non friable, X = Not Applicable

Response Action: RE: Remove, RP: Repair, ENP: Encapsulate, ENC: Enclosure, O&M: Operations & Maintenance, ISL: Isolate

Asbestos Content: A = Assumed, Y = Determined to be asbestos through prior sampling

Material Category: TSI = Thermal System Insulation, SM = Surfacing Material, Misc. = Miscellaneous

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = Not applicable (non friable surfacing or miscellaneous material, None = No assessment category provided in original inspection).

# AHERA Form B; Assessment and Response Action Table

School: Fairland E.S.

Inspection Date: 9/7/18

Homogeneous Area	Material Description	Material Category	Friability	Asbestos Content	Location(s)	Condition	Prior Assessment Category	Current Assessment Category	Management Planner Response Action
	2x4 Fissure CT	M	F	Y	Thru-out	Good		7	O+M
	2x2 Fissure CT	M	F	Y	Thru-out	Good		7	O+M
	Mod Joints	M	F	Y	Thru-out	Good		7	O+M
	9x9 FT Brown White	M	N	Y	Thru-out	Good		X	O+M
	12x12 Green FT. Mastic only	M	N	Y	Thru-out	Good		X	O+M
	9x9 Red FT	M	N	Y	Kitchen Storage	Good		X	O+M

Inspector Signature: Eleonora Munn

Date: 9/7/18

Management Planner Signature: [Signature]

Response Action: RE: Remove, RP: Repair, ENP: Encapsulate, ENC: Enclosure, O&M: Operations & Maintenance, ISL: Isolate

Friability: F = Friable, NF = Non friable, X = Not Applicable

Asbestos Content: A = Assumed, Y = Determined to be asbestos through prior sampling

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# AHERA Form B: Assessment and Response Action Table

School: Fairland Center

Inspection Date: 9/7/18

Homogeneous Area	Material Description	Material Category	Friability	Asbestos Content	Location(s)	Condition	Prior Assessment Category	Current Assessment Category	Management Planner Response Action
	Black Pipe mastic	M	N.F.	Y	Thru-out	Good		X	O+M
	Fire doors	M	N.F.	A	Thru-out	Good		X	O+M
	Black Board Dots	M	N.F.	Y	Thru-out Some boards covered by Dry Wall	Good		X	O+M
	12x12 Dark brown tile FT @ mastic	M	NF	Y	Room 1, 3 and hallway at Rm 4	good		X	O+M

Inspector Signature: Eldon R. Moore

Date: 9/7/18

Management Planner Signature: [Signature]

Friability: F = Friable, NF = Non friable, X = Not Applicable

Asbestos Content: A = Assumed, Y = Determined to be asbestos through prior sampling

Material Category: TSI = Thermal System Insulation, SM = Surfacing Material, Misc. = Miscellaneous

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = Not applicable (non friable surfacing or miscellaneous material, None = No assessment category provided in original inspection.

Response Action: RE: Remove, RP: Repair, ENP: Encapsulate, ENC: Enclosure, O&M: Operations & Maintenance, ISL: Isolate

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School Fairland Center

Date 9/7/18

Inspector Eldon Mann

Sample ID \_\_\_\_\_

Material Type: 2x4 Fiss C.T. Location: Thru-out

Area: \_\_\_\_\_ Sq. Ft. 17,000 Ln. Ft. \_\_\_\_\_

(COMMENTS, OPTIONAL) \_\_\_\_\_

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

**Physical**

Significant \_\_\_\_\_  
 Moderate   
 None \_\_\_\_\_

**Water**

Extensive \_\_\_\_\_  
 Moderate   
 Light \_\_\_\_\_  
 None \_\_\_\_\_

**Deterioration**

Heavy \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Light   
 None \_\_\_\_\_

DISTURBANCE FACTORS

**Proximity to Repair Items**

<1 ft. \_\_\_\_\_  
 1 to 5 ft.   
 >5 ft. \_\_\_\_\_

**Accessible**

Within reach   
 Barely \_\_\_\_\_  
 Unreachable \_\_\_\_\_

**Texture**

Rough \_\_\_\_\_  
 Pitted \_\_\_\_\_  
 Moderate   
 Smooth \_\_\_\_\_

**Adjacent Rooms**

Gymnasium \_\_\_\_\_  
 Music Rm. \_\_\_\_\_  
 Mech. Rm. \_\_\_\_\_  
 Elevators \_\_\_\_\_

AIR FLOW FACTORS

**Barriers**

Permanent   
 Enclosed \_\_\_\_\_  
 Encapsulated \_\_\_\_\_  
 None \_\_\_\_\_

**Ventilation**

Yes \_\_\_\_\_  
 No \_\_\_\_\_  
 If yes, Intake \_\_\_\_\_  
 Exhaust \_\_\_\_\_

**Air Movement**

High \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Low \_\_\_\_\_

**Air Conduits**

Air Plenum \_\_\_\_\_  
 Air Shaft \_\_\_\_\_  
 Elevator Shaft \_\_\_\_\_

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School Fairland Center

Date 9/7/18

Inspector Eldon Marr

Sample ID \_\_\_\_\_

Material Type: 2x2 Fiss C.T Location: Thru-out

Area: \_\_\_\_\_ Sq. Ft. 2000 Ln. Ft. \_\_\_\_\_

(COMMENTS, OPTIONAL) \_\_\_\_\_

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

**Physical**

Significant \_\_\_\_\_  
 Moderate   
 None \_\_\_\_\_

**Water**

Extensive \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Light   
 None \_\_\_\_\_

**Deterioration**

Heavy \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Light   
 None \_\_\_\_\_

DISTURBANCE FACTORS

**Proximity to Repair Items**

<1 ft. \_\_\_\_\_  
 1 to 5 ft.   
 >5 ft.

**Accessible**

Within reach   
 Barely \_\_\_\_\_  
 Unreachable \_\_\_\_\_

**Texture**

Rough \_\_\_\_\_  
 Pitted \_\_\_\_\_  
 Moderate   
 Smooth \_\_\_\_\_

**Adjacent Rooms**

Gymnasium \_\_\_\_\_  
 Music Rm. \_\_\_\_\_  
 Mech. Rm. \_\_\_\_\_  
 Elevators \_\_\_\_\_

AIR FLOW FACTORS

**Barriers**

Permanent \_\_\_\_\_  
 Enclosed   
 Encapsulated \_\_\_\_\_  
 None \_\_\_\_\_

**Ventilation**

Yes \_\_\_\_\_  
 No \_\_\_\_\_  
 If yes, Intake \_\_\_\_\_  
 Exhaust \_\_\_\_\_

**Air Movement**

High \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Low \_\_\_\_\_

**Air Conduits**

Air Plenum \_\_\_\_\_  
 Air Shaft \_\_\_\_\_  
 Elevator Shaft \_\_\_\_\_



### FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School Fairland Center

Date 9/7/18

Inspector Eldon Mann

Sample ID \_\_\_\_\_

Material Type: Mod Joints Location: Thru-out

Area: \_\_\_\_\_ Sq. Ft. \_\_\_\_\_ Ln. Ft. 360

(COMMENTS, OPTIONAL) \_\_\_\_\_

### HAZARD ASSESSMENT FACTORS

#### DAMAGE FACTORS

**Physical**

Significant \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 None

**Water**

Extensive \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Light   
 None

**Deterioration**

Heavy \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Light   
 None

#### DISTURBANCE FACTORS

**Proximity to Repair Items**

<1 ft. \_\_\_\_\_  
 1 to 5 ft.   
 >5 ft. \_\_\_\_\_

**Accessible**

Within reach   
 Barely \_\_\_\_\_  
 Unreachable \_\_\_\_\_

**Texture**

Rough \_\_\_\_\_  
 Pitted \_\_\_\_\_  
 Moderate   
 Smooth \_\_\_\_\_

**Adjacent Rooms**

Gymnasium \_\_\_\_\_  
 Music Rm. \_\_\_\_\_  
 Mech. Rm. \_\_\_\_\_  
 Elevators \_\_\_\_\_

#### AIR FLOW FACTORS

**Barriers**

Permanent   
 Enclosed   
 Encapsulated \_\_\_\_\_  
 None \_\_\_\_\_

**Ventilation**

Yes   
 No   
 If yes, Intake \_\_\_\_\_  
 Exhaust \_\_\_\_\_

**Air Movement**

High \_\_\_\_\_  
 Moderate   
 Low \_\_\_\_\_

**Air Conduits**

Air Plenum \_\_\_\_\_  
 Air Shaft \_\_\_\_\_  
 Elevator Shaft \_\_\_\_\_





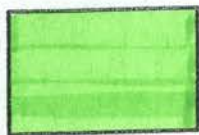
# Asbestos Map Color Key



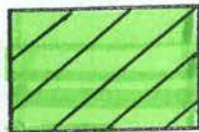
Positive Floor Tile 9x9 or 12x12



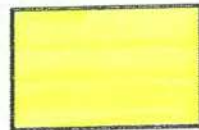
Negative Floor Tile 9x9 or 12x12



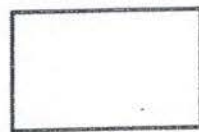
Carpet Areas



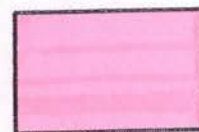
Tile under Carpet



Positive Ceiling Tile

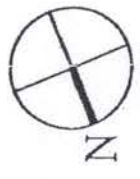
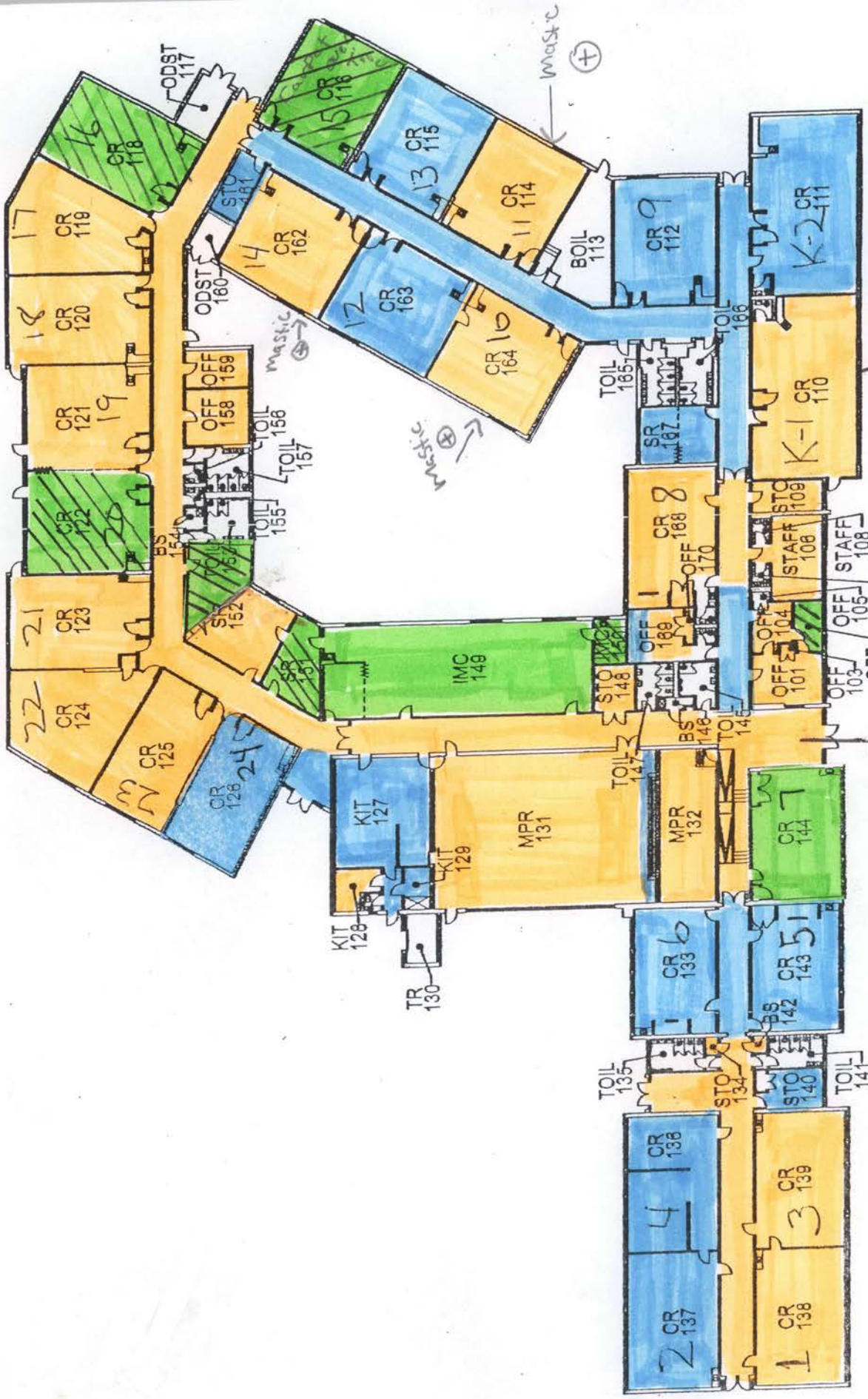


Negative Ceiling Tile



Boiler Rooms or TSI

All fitting will be assume to be asbestos unless sample



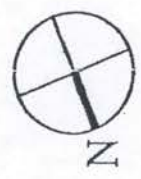
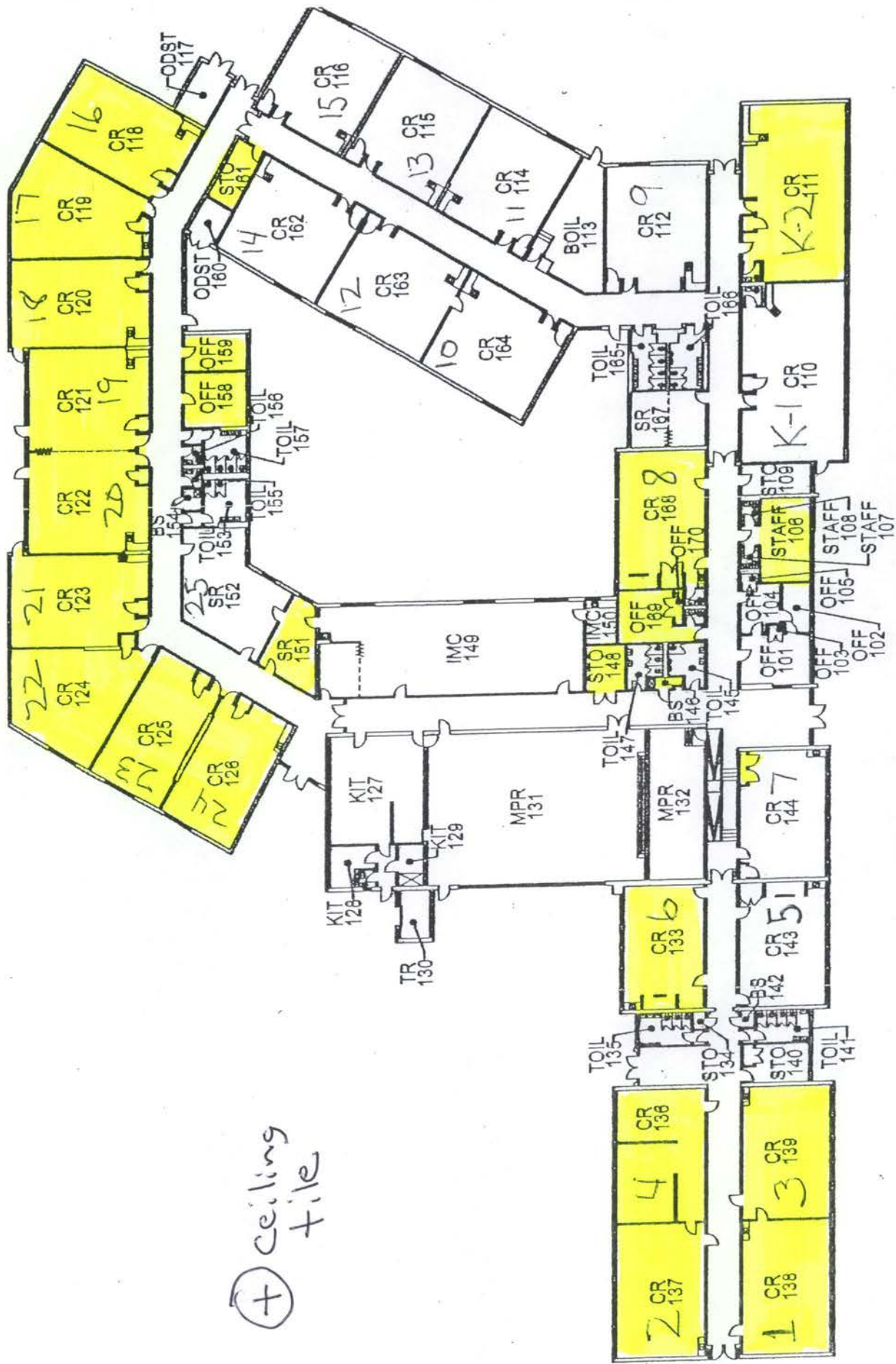
MAIN FLOOR PLAN

Floor tile

# FAIRLAND CENTER

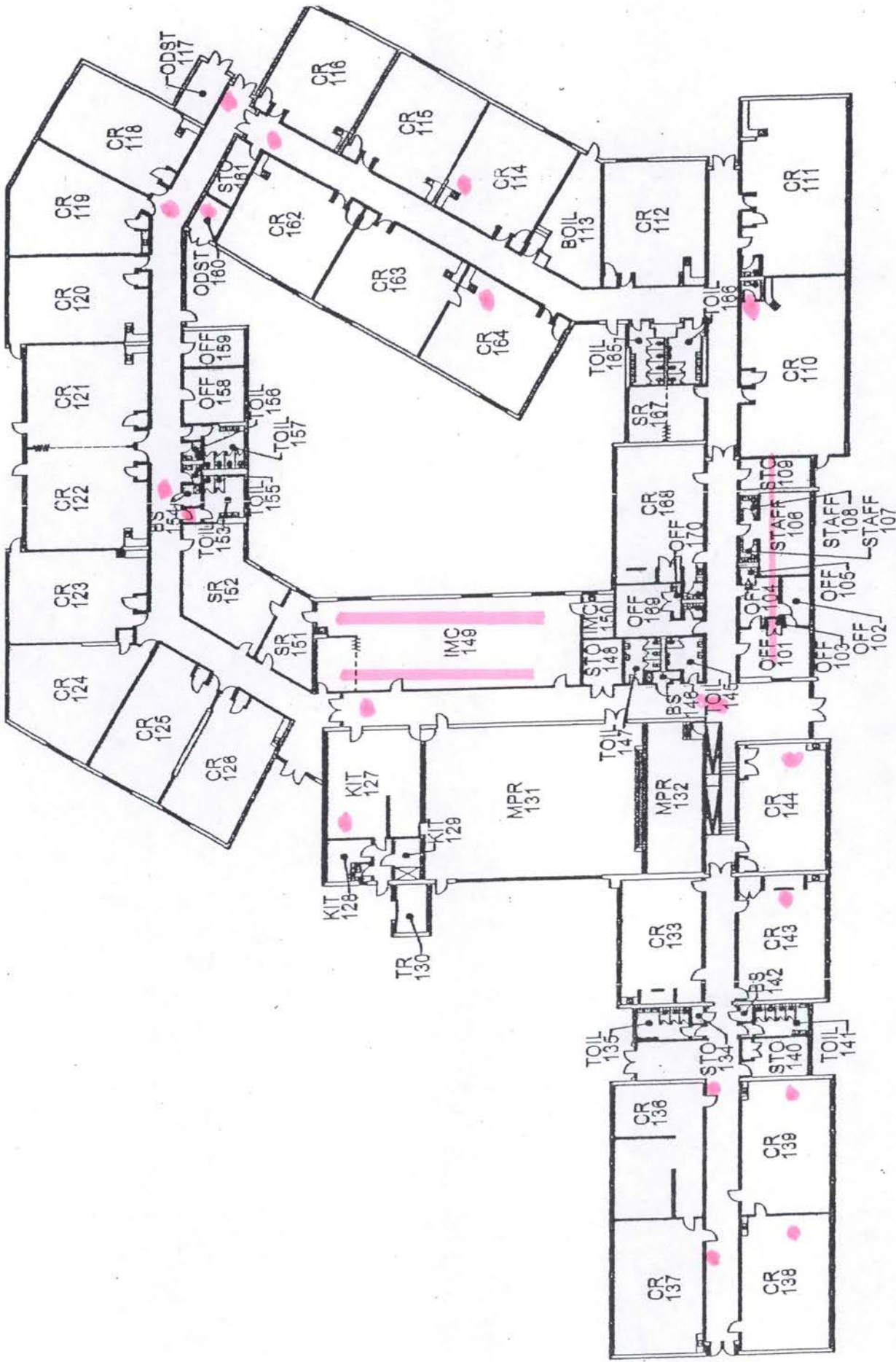
Double tile

Double tile



MAIN FLOOR PLAN

FAIRLAND CENTER



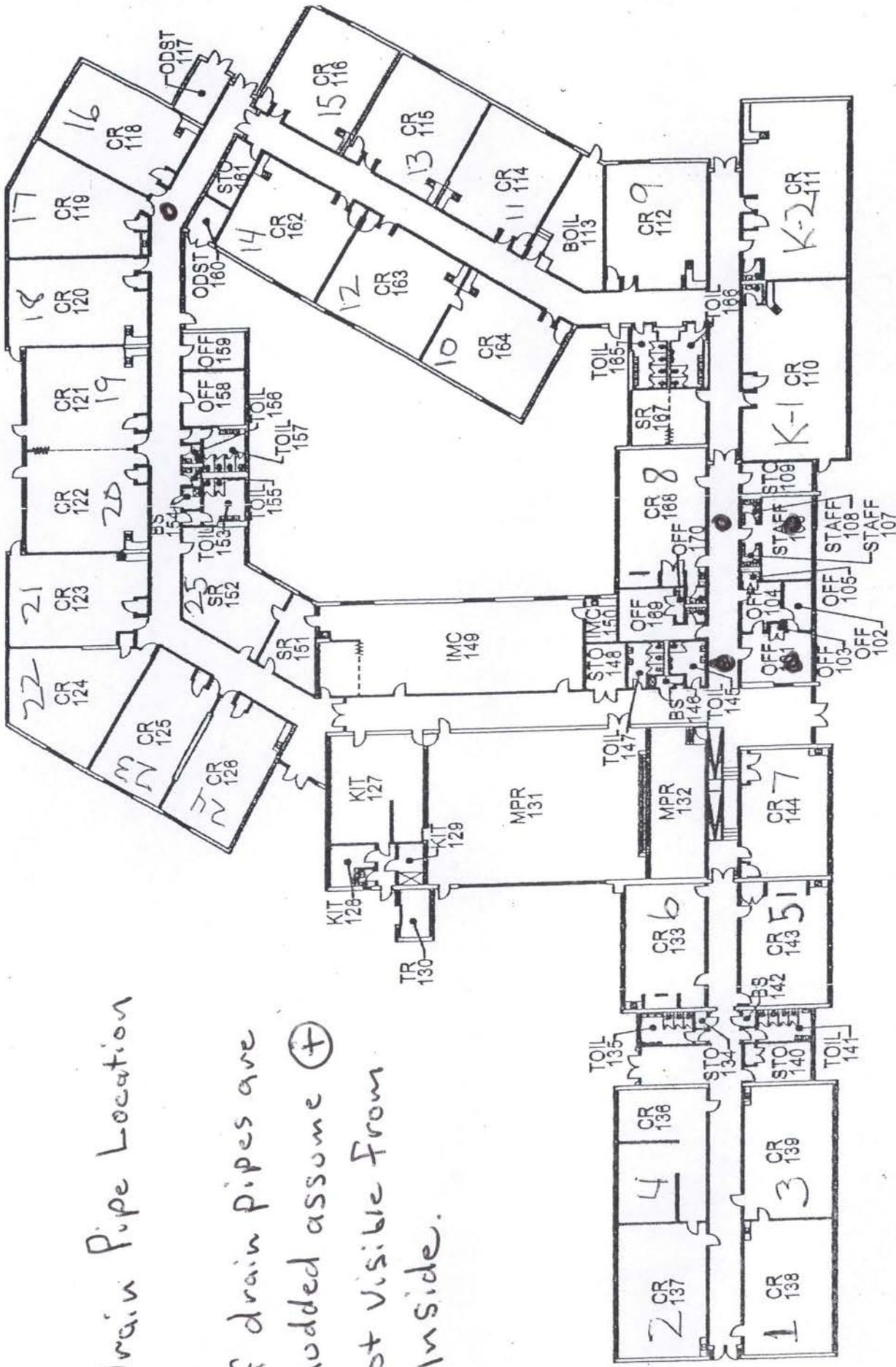
MAIN FLOOR PLAN

● — mod joints  
 Black mastic on duct &  
 Pipe ⊕

**FAIRLAND CENTER**

Drain Pipe Location

If drain pipes are  
modded assume ⊕  
Not visible from  
inside.



MAIN FLOOR PLAN

FAIRLAND CENTER



**Sampling Procedures 763.86:**

         **Surfacing material.** An accredited inspector shall collect, in a statistically random manner that is representative of the homogeneous area, bulk samples from each homogeneous area of friable surfacing material that is not assumed to be ACM, and shall collect the samples as follows:

1. At least three bulk samples shall be collected from each homogeneous area that is 1,000 sq. ft. or less.
2. At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 sq. ft. but less than or equal to 5,000 sq. ft.
3. At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 sq. ft.

✓          **Thermal system insulation.**

1. Except as provided in paragraphs (b)(2) through (4) of this section and § 763.87(c), an accredited inspector shall collect, in a randomly distributed manner, at least three bulk samples from each homogeneous area of thermal system insulation that is not assumed to be ACM.
2. Collect at least one bulk sample from each homogeneous area of patched thermal system insulation that is not assumed to be ACM if the patched section is less than 6 linear or square feet.
3. In a manner sufficient to determine whether the material is ACM or not ACM, collect bulk samples from each insulated mechanical system that is not assumed to be ACM where cement or plaster is used on fittings such as tees, elbows, or valves.
4. Bulk samples are not required to be collected from any homogeneous area where the accredited inspector has determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACBM.

✓          **Miscellaneous material.** In a manner sufficient to determine whether material is ACM or not ACM, an accredited inspector shall collect bulk samples from each homogeneous area of friable miscellaneous material that is not assumed to be ACM.

         **Nonfriable suspected ACBM.** If any homogeneous area of nonfriable suspected ACBM is not assumed to be ACM, then an accredited inspector shall collect, in a manner sufficient to determine whether the material is ACM or not ACM, bulk samples from the homogeneous area of nonfriable suspected ACBM that is not assumed to be ACM.



**AMA Analytical Services, Inc.**  
Focused On Results.

**Chain of Custody:** 610586

**Client:** YNN & Associates

**Address:** 4808 Continental Drive  
Olney, MD 20832

**Attention:** John Ndanga

**Job Name:** MCPS

**Job Location:** Fairland Center

**Job Number:** 18-1056970

**P.O. Number:** Not Provided

**Date Submitted:** 10/04/2018

**Date Analyzed:** 10/11/2018

**Report Date:** 10/11/2018

**Date Sampled:** 09/07/2018

**Person Submitting:** John Ndanga



### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
610586-1	JV-090718-001	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-2	JV-090718-002	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-3	JV-090718-003	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-4	JV-090718-004	2	2	--	--	--	58	--	--	--	--	40	CT	Multi	Layered	SW	
610586-5	JV-090718-005	2	2	--	--	--	58	--	--	--	--	40	CT	Multi	Layered	SW	
610586-6	JV-090718-006	2	2	--	--	--	58	--	--	--	--	40	CT	Multi	Layered	SW	
610586-7	JV-090718-007	2	2	--	--	--	58	--	--	--	--	40	CT	Multi	Layered	SW	
610586-8	JV-090718-008	3	3	--	--	--	--	--	--	--	--	97	FT	Multi	Homogeneous	SW	
610586-8A	JV-090718-008	5	5	--	--	--	--	--	--	--	--	95	MS	Black	Homogeneous	SW	
610586-9	JV-090718-009	3	3	--	--	--	--	--	--	--	--	97	FT	Multi	Homogeneous	SW	
610586-9A	JV-090718-009	2	2	--	--	--	--	--	3	--	--	95	MS	Black	Homogeneous	SW	
610586-10	JV-090718-010	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-11	JV-090718-011	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-12	JV-090718-012	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-13	JV-090718-013	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-13A	JV-090718-013	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Beige	Homogeneous	SW	
610586-14	JV-090718-014	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-14A	JV-090718-014	NAD	--	--	--	--	--	--	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-15	JV-090718-015	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-16	JV-090718-016	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-17	JV-090718-017	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	



**AMA Analytical Services, Inc.**  
Focused On Results.

**CERTIFICATE OF ANALYSIS**

**Chain of Custody:** 610586  
**Client:** YNN & Associates  
**Address:** 4808 Continental Drive  
 Olney, MD 20832  
**Attention:** John Ndanga  
**Job Name:** MCPS  
**Job Location:** Fairland Center  
**Job Number:** 18-1056970  
**P.O. Number:** Not Provided  
**Date Submitted:** 10/04/2018  
**Date Analyzed:** 10/11/2018  
**Report Date:** 10/11/2018  
**Date Sampled:** 09/07/2018  
**Person Submitting:** John Ndanga

**Summary of Polarized Light Microscopy**

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
610586-18	JV-090718-018	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-19	JV-090718-019	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-19A	JV-090718-019	NAD	--	--	--	--	--	--	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-20	JV-090718-020	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-20A	JV-090718-020	2	2	--	--	--	--	--	--	--	--	98	MS	Black	Homogeneous	SW	
610586-21	JV-090718-021	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-21A	JV-090718-021	NAD	--	--	--	--	--	--	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-22	JV-090718-022	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-22A	JV-090718-022	NAD	--	--	--	--	--	--	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-23	JV-090718-023	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-23A	JV-090718-023	NAD	--	--	--	--	--	--	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-24	JV-090718-024	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
610586-25	JV-090718-025	NAD	--	--	--	--	60	--	--	--	--	40	CT	Multi	Layered	SW	
610586-26	JV-090718-026	NAD	--	--	--	--	60	--	--	--	--	40	CT	Multi	Layered	SW	
610586-27	JV-090718-027	NAD	--	--	--	--	60	--	--	--	--	40	CT	Multi	Layered	SW	
610586-28	JV-090718-028	NAD	--	--	--	--	60	--	--	--	--	40	CT	Multi	Layered	SW	
610586-29	JV-090718-029	NAD	--	--	--	--	60	--	--	--	--	40	CT	Multi	Layered	SW	
610586-30	JV-090718-030	3	3	--	--	--	57	--	--	--	--	40	CT	Multi	Layered	SW	
610586-31	JV-090718-031	3	3	--	--	--	57	--	--	--	--	40	CT	Multi	Layered	SW	



**AMA Analytical Services, Inc.**  
Focused On Results.

**CERTIFICATE OF ANALYSIS**

**Chain of Custody:** 610586 **Date Submitted:** 10/04/2018  
**Client:** YNN & Associates **Date Analyzed:** 10/11/2018  
**Address:** 4808 Continental Drive **Report Date:** 10/11/2018  
 Olney, MD 20832 **Date Sampled:** 09/07/2018  
**Attention:** John Ndanga **Person Submitting:** John Ndanga

**Summary of Polarized Light Microscopy**

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
610586-32	JV-090718-032	NAD	--	--	--	--	--	--	--	--	--	100	FT	Pink	Homogeneous	SW	
610586-32A	JV-090718-032	NAD	--	--	--	--	--	TR	--	--	--	100	MS	Yellow	Homogeneous	SW	
610586-33	JV-090718-033	2	2	--	--	--	--	--	--	--	--	98	FT	Red *	Homogeneous	SW	
610586-33A	JV-090718-033	NAD	--	--	--	--	--	--	--	--	--	100	MS	Black	Homogeneous	SW	
610586-34	JV-090718-034	NAD	--	--	--	--	--	--	--	--	--	100	PL	White	Homogeneous	SW	
610586-34A	JV-090718-034	NAD	--	--	--	--	--	--	--	--	--	100	BC	Gray	Homogeneous	SW	
610586-35	JV-090718-035	NAD	--	--	--	--	--	--	--	--	--	100	PL	Brown	Homogeneous	SW	
610586-36	JV-090718-036	NAD	--	--	--	--	--	--	--	--	--	100	PL	Brown	Homogeneous	SW	
610586-37	JV-090718-037	NAD	--	--	--	--	--	10	10	--	--	90	DW	Multi	Layered	SW	
610586-37A	JV-090718-037	NAD	--	--	--	--	--	--	--	--	--	100	MS	Beige	Homogeneous	SW	
610586-38	JV-090718-038	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-39	JV-090718-039	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-40	JV-090718-040	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-41	JV-090718-041	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-41A	JV-090718-041	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
610586-41B	JV-090718-041	NAD	--	--	--	--	--	--	--	--	--	100	MS	Beige	Homogeneous	SW	
610586-42	JV-090718-042	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-43	JV-090718-043	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
610586-44	JV-090718-044	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	



**AMA Analytical Services, Inc.**  
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# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 610586 **Job Name:** MCPS **Date Submitted:** 10/04/2018  
**Client:** YNN & Associates **Job Location:** Fairland Center **Date Analyzed:** 10/11/2018  
**Address:** 4808 Continental Drive **Job Number:** 18-1056970 **Report Date:** 10/11/2018  
 Olney, MD 20832 **P.O. Number:** Not Provided **Date Sampled:** 09/07/2018  
**Attention:** John Ndanga **Person Submitting:** John Ndanga

## Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
610586-45	JV-090718-045	NAD	--	--	--	--	--	--	--	--	--	100	FT	Cream	Homogeneous	SW	
610586-45A	JV-090718-045 2	2	--	--	--	--	--	--	--	--	--	98	MS	Black	Homogeneous	SW	
610586-45B	JV-090718-045	NAD	--	--	--	--	--	TR	--	--	--	100	MS	Yellow	Homogeneous	SW	

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

<sup>1</sup> TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

<sup>2</sup> MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10% the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23. All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

**Analyst(s):** Surat Watson

**Technical Director** Michael Greenberg

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.



AMA Analytical Services, Inc.

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(301) 419-2640 • (300) 346-0961 • Fax (301) 459-2641

# CHAIN OF CUSTODY

(Please Refer To This Number For Inquiries)

606586

### Waiting/Billing Information:

1. Client Name: YNN & Associates  
2. Address 1: 4808 Continental Drive  
3. Address 2: Ciney, MD 20832  
4. Address 3:  
5. Phone #:                      Fax #:                     

### Submitted Information:

1. Job Name: MCPS  
2. Job Location: Fairland Ctr  
3. Job #: 18-1056970 P.O. #:                       
4. Contact Person: John Ndanga Cell: 301-343-4767  
5. Collected by:                      Cell:                     

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

REPORT TO:                     

EMAIL: ynnassociates@verizon.net

Blanket:  Email 2:  Verbal:

Normal Business Hours:  3 Day  5 Day  Results Required By Noon

Date Due: 10/11/18

### Asbestos Analysis

PCMLAP - Please Indicate Filter Type:                      (QTY)

NIOSH 7400                      (QTY)

Fiberglass                      (QTY)

TEMLAP - Please Indicate Filter Type:                      (QTY)

AHERA                      (QTY)

NIOSH 7402                      (QTY)

Other (specify analyze all) (QTY)

Blankets                      (QTY)

TEMLAP 600 - Visual Estimate                      (QTY)

EPA Point Count                      (QTY)

NY State Frangible 198.1                      (QTY)

Crav. Reduction ELAP 198.6                      (QTY)

Other (specify                     ) (QTY)

MISC                      (QTY)

### TEML Bulk

ELAP 198.4/Charfield                      (QTY)

NY State PLM/TEM                      (QTY)

Residual Ash                      (QTY)

Vermiculite                      (QTY)

TEML Dust\*                      (QTY)

Quil. (pres/abs) Vac min/total                      (QTY)

Quan. (Zaire) Vacuum 19755-95                      (QTY)

Quan. (Zaire) Dust 19831-99                      (QTY)

TEML Water                      (QTY)

Quil. (pres/abs)                      (QTY)

ELAP 198.2/ELPA 100.2                      (QTY)

EPA 600.1                      (QTY)

### Metals Analysis

Pb Paint Chip                      (QTY)

Pb Dust Wipe (wipe type                     ) (QTY)

Pb. Air                      (QTY)

Pb. Soil/Solid                      (QTY)

Pb TCLP                      (QTY)

Drinking Water Pb                      (QTY) Cu                      (QTY) As                      (QTY)

Waste Water Pb                      (QTY) Cu                      (QTY) As                      (QTY)

Pb Furniture (Media                     ) (QTY)

Fungal Analysis                      (QTY)

Collection Apparatus for Spore Trap/Air Sample:                     

Collection Media                      (QTY)

Spore Trap                      (QTY)

Surface Swab                      (QTY)

Surface Tape                      (QTY)

Other (Specify                     ) (QTY)

All samples received in good condition unless otherwise noted.

TEML Water samples:                      °C

If field data sheets are submitted, there is no need to complete bottom section.

CLIENT ID #	SAMPLE INFORMATION		DATE/TIME		VOL./L/M		ANALYSIS		MATRIX		COMMENTS / SPECIAL INSTRUCTIONS	
	SAMPLE LOCATION/ID		DATE/TIME		Wipe Area		TEM	PCMLAP	LEAD	MOLD	AIR	DUST
See Attached Field Data Sheets												

Requisitioned by: John Ndanga Signature:                     

Received by:                      Signature:                     

Date: 10/11/18 Time: 13:17

Signature Information:  Client Person  Other

Division of Maintenance

8301 Turkey Thicket Drive, 1<sup>st</sup> Floor  
 Gaithersburg, MD 20879  
 (240) 740-2500

Samples taken at  
 Locations



9/7/18

CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 18-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: [Signature]

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV.09-07-18 001	12X12 FISS CT	B.S. closet + 2003
	JV.9.9.18 002	2X4 CT FISS	Room 1
	003	2X4 CT FISS	Room 4
	004	2X4 FISS	Room K-2
	005	2X4 FISS	Room 16
	006	2X4 FISS	Room 21
	007	2X4 FISS	Room 24

Division of Maintenance

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# Division of Maintenance

8301 Turkey Thicket Drive, 1<sup>st</sup> Floor  
 Gaithersburg, MD 20879  
 (240) 740-2500



## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 18-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: *Juan Vega*

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV 09-07-18 0		
	005	FT 12x12 FT. Bun/Wht	Room 1
	009	FT 12x12 FT. Bun/Wht	Hall by Room 4
	010	Aw Pin 2x4 <sup>CT 1</sup>	Hall by Room 4
	011	Aw Pin 2x4 <sup>CT 2</sup>	Lobby Hall
<del>012</del>	012	2x2 Fiss <sup>CT</sup>	Principal office
	013	12x12 creme FT	Hall by Heath Rm

Division of Maintenance

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# Division of Maintenance

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 Gaithersburg, MD 20879  
 (240) 740-2500



## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 18-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: *Juan Vega*

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV09-07-18 014 ✓	12X12 Crene <sup>2</sup> F.T.	Conf Rm Access from K-1
	015 ✓	2X4 Awk P. w <sup>3</sup>	Hall by <del>Room</del> Room 9
	016 ✓	2X4 Awk P. w <sup>4</sup>	Hall by Rm, 13 ✓
	017 ✓	2X4 Awk P. w <sup>5</sup>	Hall by HITH Rm
	018 ✓	12X12 F.T. Crene <sup>3</sup>	Room K-2
	019 ✓	12X12 Crene <sup>4</sup>	Room 9
	020 ✓	12X12 Crene <sup>5</sup>	Room 12

Division of Maintenance

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# Division of Maintenance



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 Gaithersburg, MD 20879  
 (240) 740-2500

## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 19-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: *Juan Vega*

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV-09-07-18 021 ✓	12X12 Crete <sup>6</sup>	Room 13
	022 ✓	12X12 Crete <sup>7</sup>	Hall by Exit 6
	023 ✓	12X12 crete <sup>2</sup>	Kitchen
	024 ✓	Asbestos 2X4 <sup>7</sup>	Hall by AP room
	025 ✓	2X4 Smooth	K-1
	026 ✓	2X4 Smooth	Room 9
	027 ✓	Smooth 2X4	Room 12

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# Division of Maintenance

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 (240) 740-2500



## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 18-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: *Juan Vega*

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV-09-07-18 028	Smooth 2x4	Room B
	029 ✓	Smooth 2x4	Storage 2
	030 ✓	2x2 Fiss	Office Across from Rm 9 Councilor
	031 ✓	2x2 Fiss	Rdng Room
	032 ✓	12x12 Pink ✓	Kitchen Hall
	033 ✓	9x9 Red ✓	Kitchen Storage
	034 ✓	Plaster Ceiling	Kitchen

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 Gaithersburg, MD 20879  
 (240) 740-2500

## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 19-1056970

AHERA Inspector: Juan Vega

License #: 18022611

Signature: *Juan Vega*

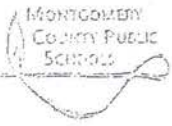
Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV09-07-18 035 ✓	Plaster	Boiler Rm
	036 ✓	Plaster	Boiler Rm
	037 ✓	Drywall + J.C	Room 11
	038 ✓	" "	Room 17
	039 ✓	" "	Music Therapy
	040 ✓	" "	Room 23
	041 ✓	" "	Room 7

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# Division of Maintenance



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 (240) 740-2500

## CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: FAIRLAND CENTER

WO#: 18-1056970

AHERA Inspector: Juan Vega

License #: 18022611

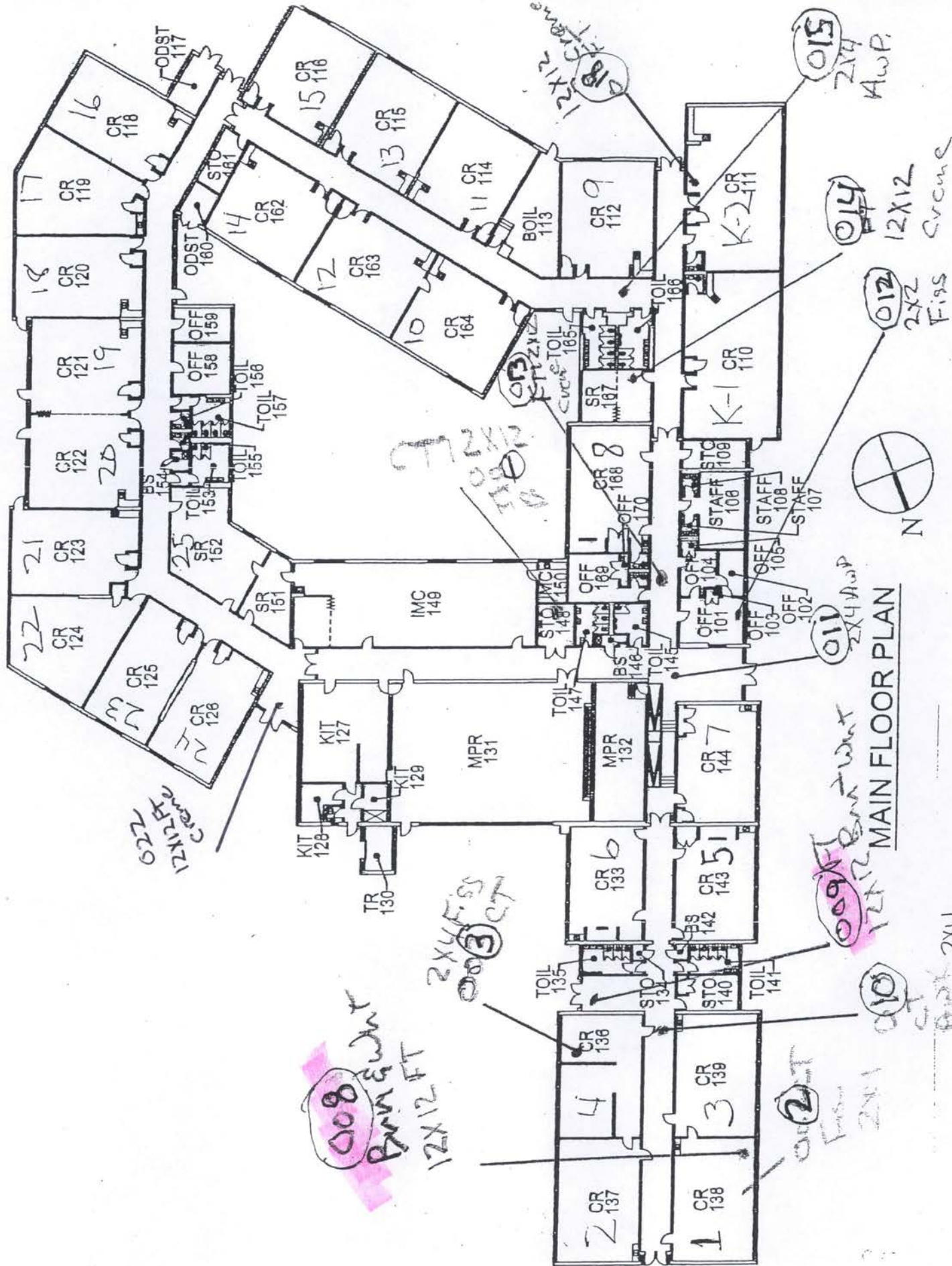
Signature: *Juan Vega*

Date Collected: 09-07-18

HA	Sample ID	Material	Location (room & area)
	JV 09-07-18 042 ✓	Dry & J.C.	Room 4
	043 ✓	Dry & J.C.	Room 8
	044 ✓	2x4 Aw Pin	Hall bk K-Z
	045 ✓	12x12 DBITick	Main Hall

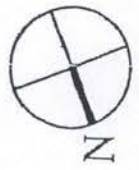
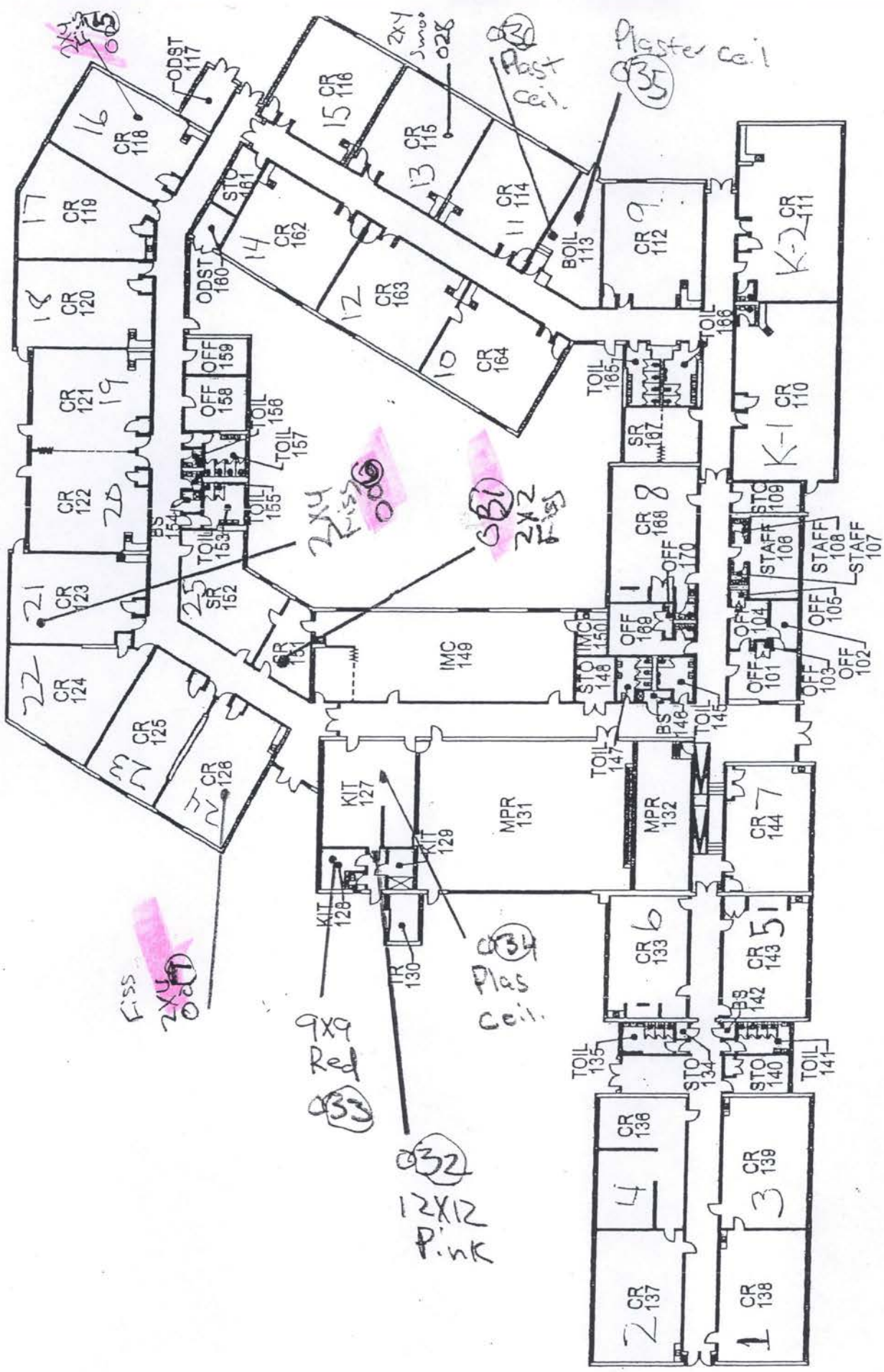
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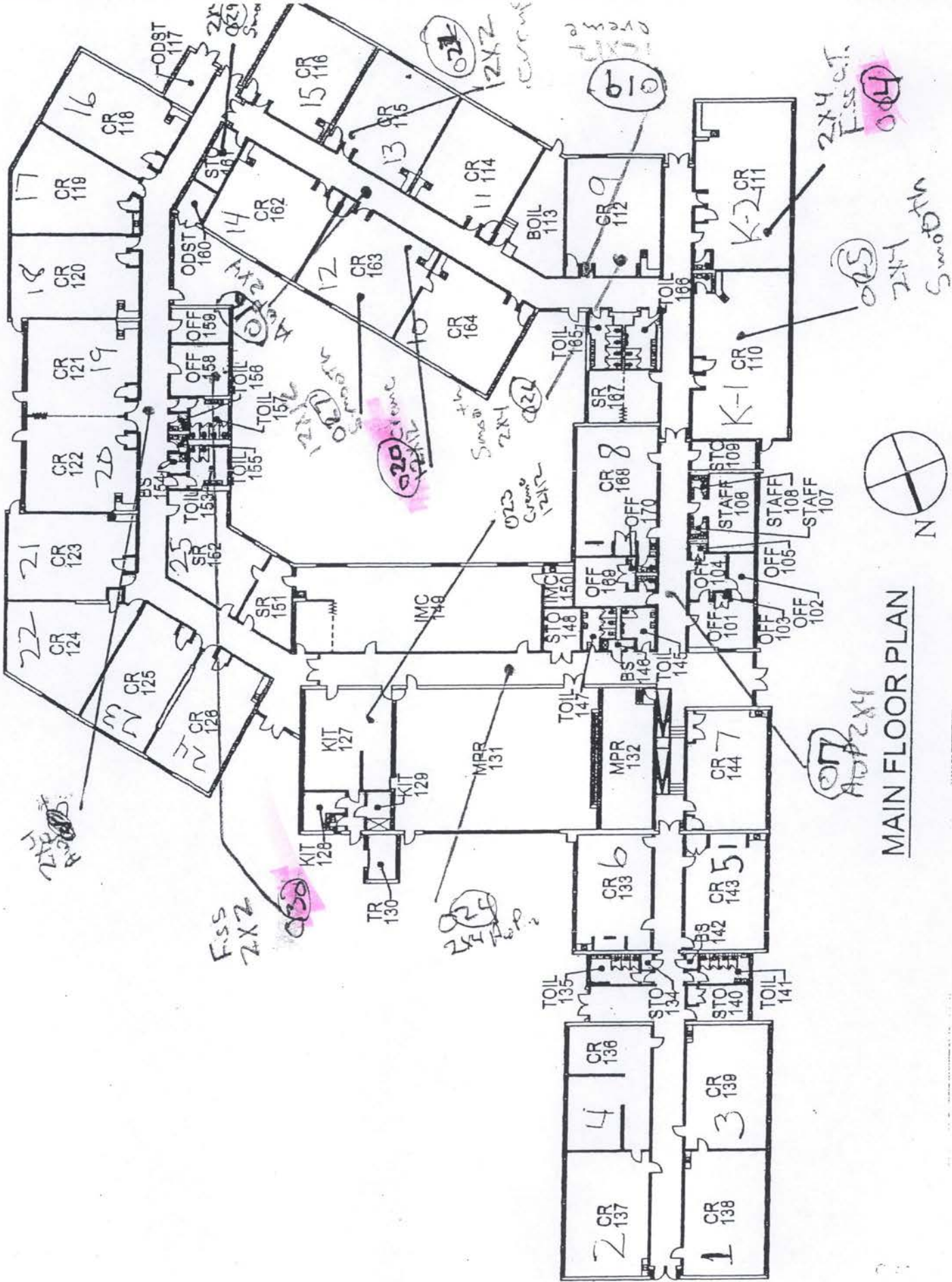
MAIN FLOOR PLAN

# FAIRLAND CENTER



MAIN FLOOR PLAN

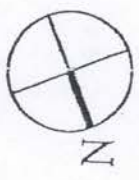
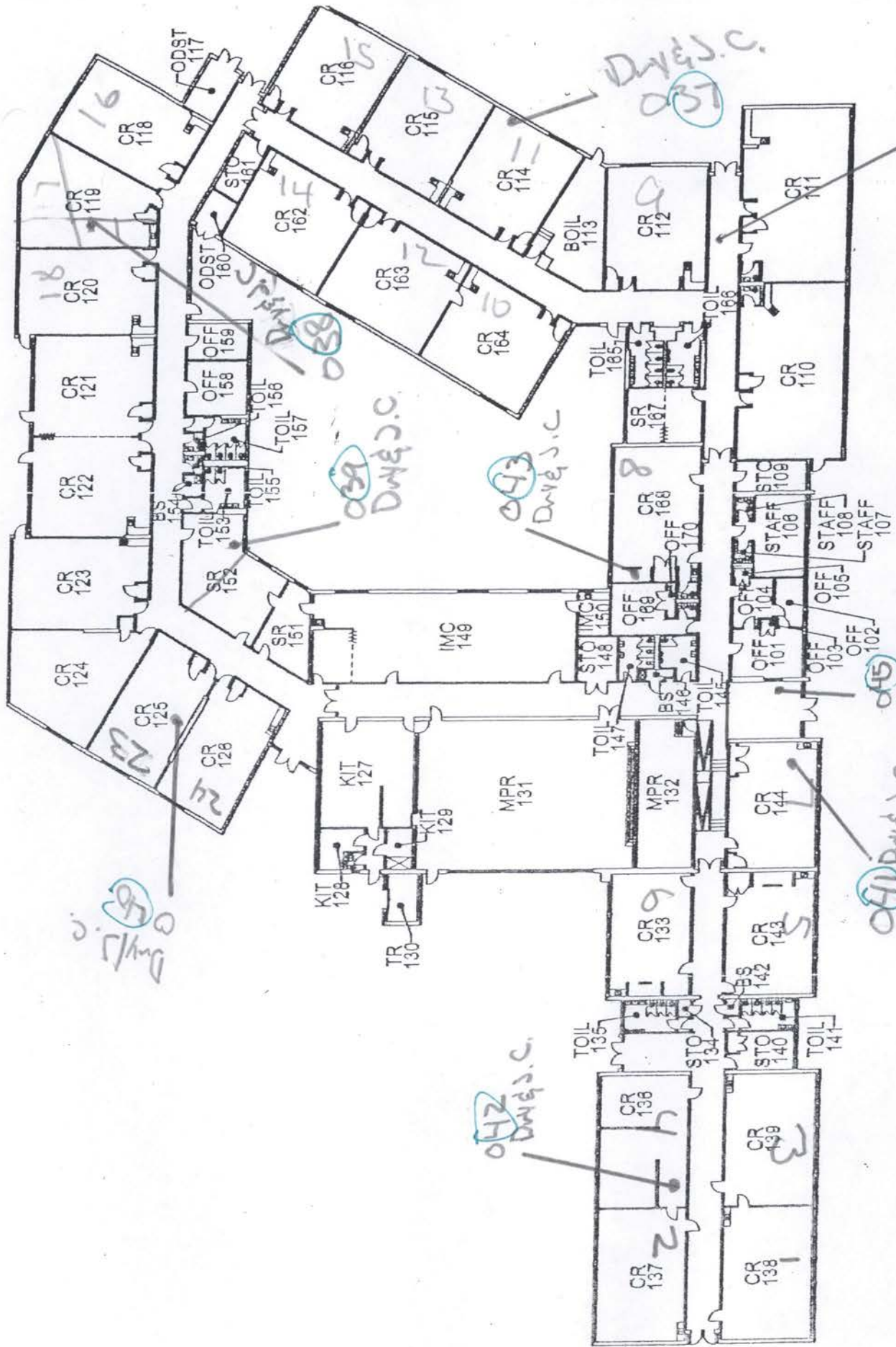
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MAIN FLOOR PLAN

FAIRLAND CENTER





MAIN FLOOR PLAN

FAIRLAND CENTER

044  
244  
Aurora

045  
DWG.S.C.  
Double  
T-1C

042  
DWG.S.C.

043  
DWG.S.C.

038  
DWG.S.C.

037  
DWG.S.C.

039  
DWG.S.C.



# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705  
Tel/Fax: (301) 937-5700 / (301) 937-5701  
http://www.EMSL.com / beltsvillelab@emsl.com

EMSL Order: 191815049  
Customer ID: YNNA50  
Customer PO:  
Project ID:

**Attention:** John Ndanga  
Ynn & Associates, Inc.  
4808 Continental Drive  
Olney, MD 20832  
**Project:** FAIRLAND CENTER

**Phone:** (301) 343-4767  
**Fax:**  
**Received Date:** 11/27/2018 1:43 PM  
**Analysis Date:** 11/27/2018  
**Collected Date:** 11/02/2018

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
JC112718-01 191815049-0001	BULLENTIN BOARD, MAIN HALL	White/Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
JC112718-02 191815049-0002	BULLENTIN BOARD, MAIN HALL	White/Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 11/27/2018 14:55:51



**EMSL Analytical, Inc.**

10768 Baltimore Avenue Beltsville, MD 20705  
Tel/Fax: (301) 937-5700 / (301) 937-5701  
<http://www.EMSL.com> / [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

**EMSL Order:** 191815049  
**Customer ID:** YNNA50  
**Customer PO:**  
**Project ID:**

**Attention:** John Ndanga  
Ynn & Associates, Inc.  
4808 Continental Drive  
Olney, MD 20832  
  
**Project:** FAIRLAND CENTER  
  
**Phone:** (301) 343-4767  
**Fax:**  
**Received Date:** 11/27/2018 1:43 PM  
**Analysis Date:** 11/27/2018  
**Collected Date:** 11/02/2018

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:**

Sample Receipt Date:	11/27/2018	Sample Receipt Time:	1:43 PM
Analysis Completed Date:	11/27/2018	Analysis Completed Time:	2:55 PM

**Analyst(s):**

William Chrobak PLM (2)

**Samples Reviewed and approved by:**

Joe Centifonti, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 11/27/2018 14:55:51

John

18057801

YNN & Associates, Inc

Solay TAI

*[Signature]*  
12/13/18



Division of Maintenance

8301 Turkey Thicket Drive, 1st Floor  
Gaithersburg, MD 20879  
(240) 740-2500

CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: Fairland Center WO#: 18-1056970  
 AHERA Inspector: E. Mauer License #: 1822551  
 Signature: *[Signature]* Date Collected: 11/6/18

HA	Sample ID	Material	Location (room & area)
	001	Sub Floor	Room 5 Floor under greywood
	002	12x12 cream F.T. + mastic	K-1
	003	12x12 cream F.T. + mastic	Hall At Rm 9
	004	12x12 cream F.T. + mastic	Rm 10 <b>mastic ⊕</b>
	005	" "	Rm 11 <b>mastic ⊕</b>
	006	" "	Rm 14 <b>mastic ⊕</b>
	007	" "	Rm 15 <b>mastic ⊕</b>

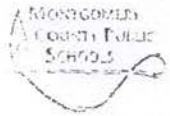
Division of Maintenance

*[Signature]* DEC 14 2018 1000

8301 Turkey Thicket Drive • Building A, First Floor • Gaithersburg, Maryland 20879 • 240-740-2500

Division of Maintenance

18057801



8301 Turkey Thicket Drive, 1<sup>st</sup> Floor  
Gaithersburg, MD 20879  
(301) 740-2500

CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: Fairland Center WO#: 18-1056970  
 AHERA Inspector: E. Marr License #: 1822551  
 Signature: Eldon Marr Date Collected: 11/6/18

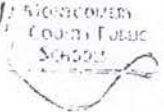
HA	Sample ID	Material	Location (room & area)
	008	12x12 <sup>12</sup> <del>12</del> cream FT + mastic	Storage Across from Rm 15
	009	12x12 Brown + white FT + mastic	Room 20 mastic ⊕
	010	12x12 Green FT + mastic	Room 22 Both ⊕
	011	12x12 cream FT + mastic	Room 24
	012	12x12 <u>Brown</u> FT + white mastic	Hall at Rm 22 Both ⊕
	013	9x9 <u>Green</u> <u>Pink</u> FT + mastic	Hall at APR Both ⊕
	014	9x9 <u>Tan</u> <u>Red</u> FT + mastic	APR Both ⊕

Division of Maintenance

DEC 14 2018 1000

8301 Turkey Thicket Drive • Building A First Floor • Gaithersburg, Maryland 20879 • 240-740-2500

Division of Maintenance

1805780 / 

8301 Turkey Thicket Drive, 1<sup>st</sup> Floor  
Gaithersburg, MD 20879  
(240) 740-2500

CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: Fairland Center WO#: 18-1056970  
 AHERA Inspector: E. Marr License #: 1822551  
 Signature: Eldan Marr Date Collected: 11/6/18

HA	Sample ID	Material	Location (room & area)
	015	12x12 Cream FT + Mastic	APR Chair Room
	016	12x12 Brown FT + White Mastic	Main Office Work Room Closet FT ⊕
	017	12x12 Tan FT + Mastic + White	Hall at Rm 5 Mastic ⊕
	018	12x12 Cream FT + Mastic	Room 4
	019	11 11	Room 2
	020	Dark Brown-White 12x12 FT + Mastic	Room 3 FT + Mastic
	021	11 11	Room 1 FT + Mastic

Division of Maintenance

DEC 14 2018 1000

8301 Turkey Thicket Drive • Building A, First Floor • Gaithersburg, Maryland 20879 • 240-740-2500

Division of Maintenance

18057801



8301 Turkey Thicket Drive, 1st Floor  
Gaithersburg, MD 20879  
(240) 740-2500

CHAIN OF CUSTODY, BULK ASBESTOS SAMPLE(S)

School: Fairland Center WO#: 18-1056970  
 AHERA Inspector: E. Meyer License #: 1822551  
 Signature: Eldon Meyer Date Collected: 11/6/18

HA	Sample ID	Material	Location (room & area)
	022	Dark-Brown-White 12X12 FT + misc	Hall At Room 4 Both A

Division of Maintenance 212 DEC 14 2018 1000  
 8301 Turkey Thicket Drive • Building A, First Floor • Gaithersburg, Maryland 20879 • 240-740-2500



SanAir ID Number  
**18057801**  
 FINAL REPORT  
 12/21/2018 6:30:14 PM

**Name:** Yoti N. N. & Associates, Inc. (YNN)  
**Address:** 4808 Continental Drive  
 Olney, MD 20832  
**Phone:** 301-260-0687

**Project Number:** 18-1056970  
**P.O. Number:**  
**Project Name:** Fairland Center  
**Collected Date:** 11/6/2018  
**Received Date:** 12/14/2018 10:00:00 AM

Analyst: Pisula, Nicholas

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-fibrous	
001 / 18057801-001 Sub Floor Room 5 Floor Under Wood, Subflooring	Grey Non-Fibrous Homogeneous		100% Other	None Detected
001 / 18057801-001 Sub Floor Room 5 Floor Under Wood, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
001 / 18057801-001 Sub Floor Room 5 Floor Under Wood, Leveling Compound	Grey Non-Fibrous Homogeneous		100% Other	None Detected
002 / 18057801-002 12 x 12 F.T. Mastic K-1, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
002 / 18057801-002 12 x 12 F.T. Mastic K-1, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
003 / 18057801-003 12 x 12 F.T. Mastic Hall At Rm 9, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
003 / 18057801-003 12 x 12 F.T. Mastic Hall At Rm 9, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
004 / 18057801-004 12 x 12 F.T. Mastic Rm 11, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
004 / 18057801-004 12 x 12 F.T. Mastic Rm 11, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
005 / 18057801-005 12 x 12 F.T. Mastic Rm 11, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: *Nicholas Pisula*

Approved Signatory: *Nicholas Pisula*

Analysis Date: 12/21/2018

Date: 12/21/2018





SanAir ID Number  
**18057801**  
 FINAL REPORT  
 12/21/2018 6:30:14 PM

Name: Yoti N. N. & Associates, Inc. (YNN)  
 Address: 4808 Continental Drive  
 Olney, MD 20832  
 Phone: 301-260-0687

Project Number: 18-1056970  
 P.O. Number:  
 Project Name: Fairland Center  
 Collected Date: 11/6/2018  
 Received Date: 12/14/2018 10:00:00 AM

Analyst: Pisula, Nicholas

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-fibrous	
005 / 18057801-005 12 x 12 F.T. Mastic Rm 11, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
006 / 18057801-006 12 x 12 F.T. Mastic Rm 14, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
006 / 18057801-006 12 x 12 F.T. Mastic Rm 14, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
007 / 18057801-007 12 x 12 F.T. Mastic Rm 15, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
007 / 18057801-007 12 x 12 F.T. Mastic Rm 15, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
008 / 18057801-008 12 x 12 F.T. Mastic Storage Across From Rm 15, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
008 / 18057801-008 12 x 12 F.T. Mastic Storage Across From Rm 15, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
009 / 18057801-009 12 x 12 F.T. Mastic Room 20, Floor Tile	Brown Non-Fibrous Homogeneous		98% Other	2% Chrysotile
009 / 18057801-009 12 x 12 F.T. Mastic Room 20, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
010 / 18057801-010 12 x 12 F.T. Mastic Room 22, Floor Tile	Green Non-Fibrous Homogeneous		98% Other	2% Chrysotile

Analyst: *Nicholas Pisula*

Approved Signatory: *Nicholas Pisula*

Analysis Date: 12/21/2018

Date: 12/21/2018



SanAir ID Number  
**18057801**  
 FINAL REPORT  
 12/21/2018 6:30:14 PM

**Name:** Yoti N. N. & Associates, Inc. (YNN)  
**Address:** 4808 Continental Drive  
 Olney, MD 20832  
**Phone:** 301-260-0687

**Project Number:** 18-1056970  
**P.O. Number:**  
**Project Name:** Fairland Center  
**Collected Date:** 11/6/2018  
**Received Date:** 12/14/2018 10:00:00 AM

Analyst: Pisula, Nicholas

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-fibrous	
010 / 18057801-010 12 x 12 F.T. Mastic Room 22, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
011 / 18057801-011 12 x 12 F.T. Mastic Room 24, Floor Tile	Beige Non-Fibrous Homogeneous		100% Other	None Detected
011 / 18057801-011 12 x 12 F.T. Mastic Room 24, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
012 / 18057801-012 12 x 12 F.T. Mastic Hall At Room 22, Floor Tile	Brown Non-Fibrous Homogeneous		97% Other	3% Chrysotile
012 / 18057801-012 12 x 12 F.T. Mastic Hall At Room 22, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
013 / 18057801-013 9 x 9 F.T. Mastic Hall At APR, Floor Tile	Green Non-Fibrous Homogeneous		96% Other	4% Chrysotile
013 / 18057801-013 9 x 9 F.T. Mastic Hall At APR, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
014 / 18057801-014 9 x 9 F.T. Mastic APR, Floor Tile	Tan Non-Fibrous Homogeneous		96% Other	4% Chrysotile
014 / 18057801-014 9 x 9 F.T. Mastic APR, Mastic	Black Non-Fibrous Homogeneous		98% Other	2% Chrysotile
015 / 18057801-015 12 x 12 F.T. Mastic APR Chair Room, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected

Analyst: *Nicholas Pisula*

Approved Signatory:

Analysis Date: 12/21/2018

Date: 12/21/2018



SanAir ID Number  
**18057801**  
 FINAL REPORT  
 12/21/2018 6:30:14 PM

Name: Yoti N. N. & Associates, Inc. (YNN)  
 Address: 4808 Continental Drive  
 Olney, MD 20832  
 Phone: 301-260-0687

Project Number: 18-1056970  
 P.O. Number:  
 Project Name: Fairland Center  
 Collected Date: 11/6/2018  
 Received Date: 12/14/2018 10:00:00 AM

Analyst: Pisula, Nicholas

### Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-fibrous	
015 / 18057801-015 12 x 12 F.T. Mastic APR Chair Room, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
016 / 18057801-016 12 x 12 F.T. Mastic Main Office Work Room Closet, Floor Tile	Brown Non-Fibrous Homogeneous		96% Other	4% Chrysotile
016 / 18057801-016 12 x 12 F.T. Mastic Main Office Work Room Closet, Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected
017 / 18057801-017 12 x 12 F.T. Mastic Hall At Rm 5, Floor Tile	Tan Non-Fibrous Homogeneous		100% Other	None Detected
017 / 18057801-017 12 x 12 F.T. Mastic Hall At Rm 5, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
018 / 18057801-018 12 x 12 F.T. Mastic Room 4, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
018 / 18057801-018 12 x 12 F.T. Mastic Room 4, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
019 / 18057801-019 12 x 12 F.T. Mastic Room 2, Floor Tile	Cream Non-Fibrous Homogeneous		100% Other	None Detected
019 / 18057801-019 12 x 12 F.T. Mastic Room 2, Mastic	Tan Non-Fibrous Homogeneous		100% Other	None Detected
020 / 18057801-020 12 x 12 F.T. Mastic Room 3, Floor Tile	Brown Non-Fibrous Homogeneous		96% Other	4% Chrysotile

Analyst: *Nicholas Pisula*

Approved Signatory: *Nicholas Pisula*

Analysis Date: 12/21/2018

Date: 12/21/2018



SanAir ID Number  
**18057801**  
FINAL REPORT  
12/21/2018 6:30:14 PM

Name: Yoti N. N. & Associates, Inc. (YNN)  
Address: 4808 Continental Drive  
Olney, MD 20832  
Phone: 301-260-0687

Project Number: 18-1056970  
P.O. Number:  
Project Name: Fairland Center  
Collected Date: 11/6/2018  
Received Date: 12/14/2018 10:00:00 AM

Analyst: Pisula, Nicholas

### Asbestos Bulk PLM EPA 600/R-93/116

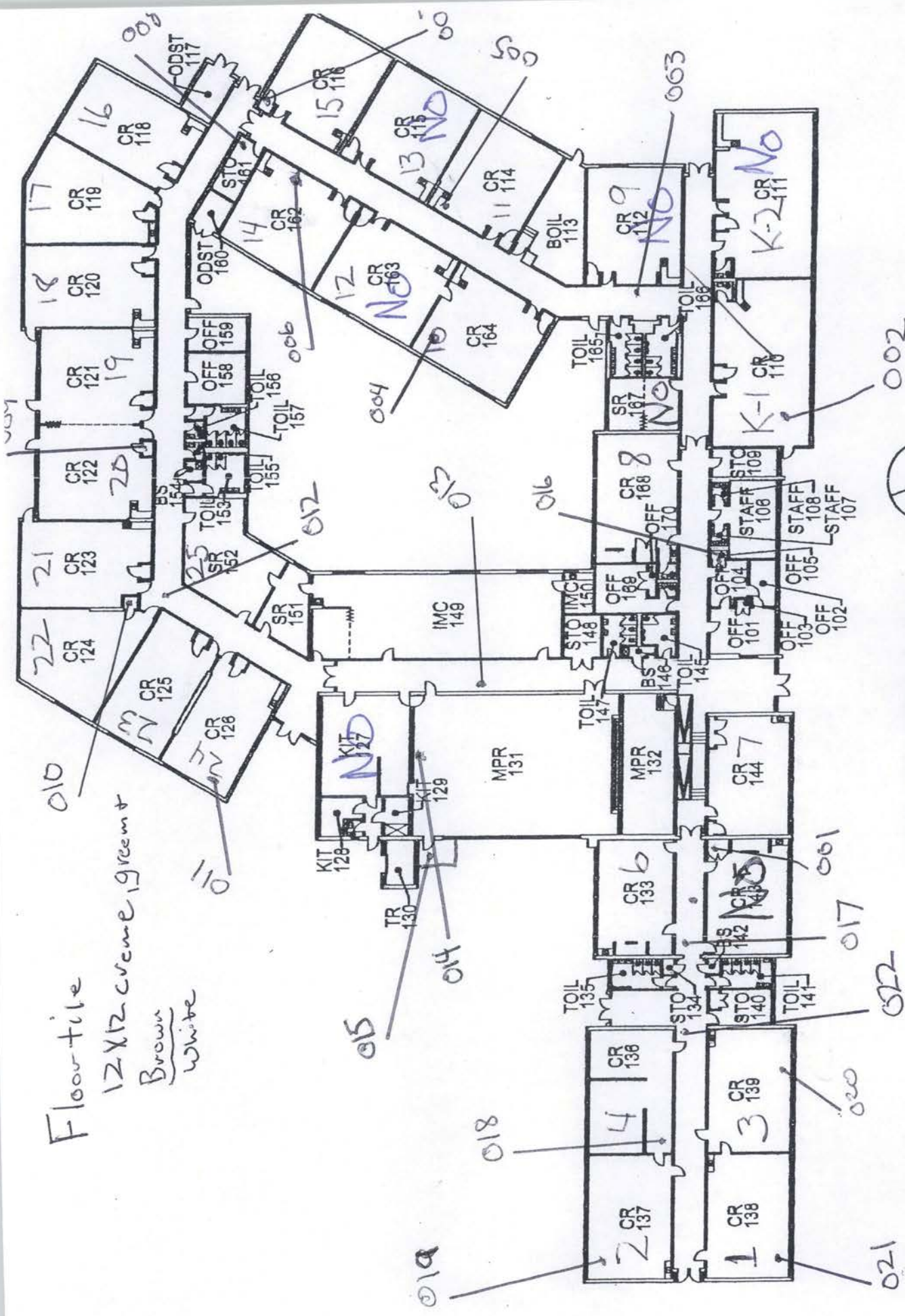
SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-fibrous	
020 / 18057801-020 12 x 12 F.T. Mastic Room 3, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
021 / 18057801-021 12 x 12 F.T. Mastic Room 1, Floor Tile	Brown Non-Fibrous Homogeneous		98% Other	2% Chrysotile
021 / 18057801-021 12 x 12 F.T. Mastic Room 1, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile
022 / 18057801-022 12 x 12 F.T. Mastic Hall At Room 4, Floor Tile	Brown Non-Fibrous Homogeneous		97% Other	3% Chrysotile
022 / 18057801-022 12 x 12 F.T. Mastic Hall At Room 4, Mastic	Black Non-Fibrous Homogeneous		97% Other	3% Chrysotile

Analyst: *Nicholas Pisula*

Approved Signatory: *[Signature]*

Analysis Date: 12/21/2018

Date: 12/21/2018



Floor tile  
 12x12 cream, green +  
 Brown  
 White



MAIN FLOOR PLAN

FAIRLAND CENTER



### EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705  
Phone/Fax: (301) 937-5700 / (301) 937-5701  
<http://www.EMSL.com> [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

EMSL Order: 191400669  
CustomerID: YNNA50  
CustomerPO:  
ProjectID:

Attn: **John Ndanga**  
**Ynn & Associates, Inc.**  
**4808 Continental Drive**  
**Olney, MD 20832**

Phone: (301) 260-0687  
Fax:  
Received: 01/27/14 8:30 AM  
Analysis Date: 1/29/2014  
Collected: 1/15/2014

Project: FAIRLAND CENTER

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EE01-15-14-001 191400669-0001	IMC 149 RM. BLK. MASTIC D-I	Black/Silver/Yellow Fibrous Homogeneous	25% Cellulose 10% Glass	53% Non-fibrous (other)	12% Chrysotile
EE01-15-14-002 191400669-0002	MAIN OFFICE BLK. MASTIC D-I	Brown/Black/Silver Fibrous Homogeneous	25% Cellulose 15% Glass	45% Non-fibrous (other)	15% Chrysotile

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 01/30/2014 07:40:43



**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705  
Phone/Fax: (301) 937-5700 / (301) 937-5701  
<http://www.EMSL.com> [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

EMSL Order: 191400669  
CustomerID: YNNA50  
CustomerPO:  
ProjectID:

Attn: **John Ndanga**  
**Ynn & Associates, Inc.**  
**4808 Continental Drive**  
**Olney, MD 20832**

Phone: (301) 260-0687  
Fax:  
Received: 01/27/14 8:30 AM  
Analysis Date: 1/29/2014  
Collected: 1/15/2014

Project: FAIRLAND CENTER

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 1/27/2014      Sample Receipt Time: 8:30 AM  
Analysis Completed Date: 1/29/2014      Analysis Completed Time: 10:00 PM

**Analyst(s):**

George Malone PLM (2)

**Samples reviewed and approved by:**

Joe Centifonti, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 01/30/2014 07:40:43





**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

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

EMSL Order:	191202599
CustomerID:	YNNA50
CustomerPO:	
ProjectID:	

Attn: **John Ndanga**  
**Ynn & Associates, Inc.**  
**4808 Continental Drive**  
**Olney, MD 20832**

Phone: (301) 260-0687  
 Fax:  
 Received: 03/16/12 12:30 PM  
 Analysis Date: 3/22/2012  
 Collected: 3/12/2012

Project: MONTGOMERY COUNTY PUBLIC SCHOOLS

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EM-3-12-12-001- Floor Tile 191202599-0008	FAIRLAND CENTER - STAFF LOUNGE (FT) MSTC 9X9	Tan Non-Fibrous Heterogeneous		57% Non-fibrous (other) 35% Ca Carbonate	8% Chrysotile
EM-3-12-12-001- Mastic 191202599-0008A	FAIRLAND CENTER - STAFF LOUNGE (FT) MSTC 9X9	Black Non-Fibrous Homogeneous	8% Cellulose	84% Non-fibrous (other)	8% Chrysotile
EM-3-12-12-002- Floor Tile 191202599-0009	FAIRLAND CENTER - HALLWAY BY RM 6 (12X12 FT & MSTC) BRN	Tan Non-Fibrous Heterogeneous		59% Non-fibrous (other) 35% Ca Carbonate	6% Chrysotile
EM-3-12-12-002- Mastic 191202599-0009A	FAIRLAND CENTER - HALLWAY BY RM 6 (12X12 FT & MSTC) BRN	Black Non-Fibrous Homogeneous	5% Cellulose	87% Non-fibrous (other)	8% Chrysotile
EM-3-12-12-003- Floor Tile 191202599-0010	FAIRLAND CENTER - HALLWAY BY RM 7 (NEXT TO RAM - GRN FT & MSTC)	Gray Non-Fibrous Heterogeneous		55% Non-fibrous (other) 35% Ca Carbonate	10% Chrysotile
EM-3-12-12-003- Mastic 191202599-0010A	FAIRLAND CENTER - HALLWAY BY RM 7 (NEXT TO RAM - GRN FT & MSTC)	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
EM-3-12-12-004- Floor Tile 191202599-0011	FAIRLAND CENTER - AP RM CHAIR, CLOSET	White Non-Fibrous Heterogeneous		50% Non-fibrous (other) 50% Ca Carbonate	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 03/26/2012 10:09:05

Test Report PLM(S)-7.25.0 Printed: 3/26/2012 10:11:35 AM



# EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

http://www.emsl.com [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

EMSL Order:	191202599
CustomerID:	YNNA50
CustomerPO:	
ProjectID:	

Attn: **John Ndanga**  
**Ynn & Associates, Inc.**  
**4808 Continental Drive**  
**Olney, MD 20832**

Phone: (301) 260-0687  
 Fax:  
 Received: 03/16/12 12:30 PM  
 Analysis Date: 3/22/2012  
 Collected: 3/12/2012

Project: MONTGOMERY COUNTY PUBLIC SCHOOLS

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EM-3-12-12-004-Mastic 191202599-0011A	FAIRLAND CENTER - AP RM CHAIR, CLOSET	Yellow Non-Fibrous Homogeneous		85% Non-fibrous (other) 15% Ca Carbonate	None Detected
EM-3-12-12-005-Jacketing 191202599-0012	FAIRLAND CENTER - HALLWAY BY RM 4 (MUD JT & PIPE INS)	Gray/Tan Fibrous Heterogeneous	30% Cellulose <i>Mud Joint</i>	45% Non-fibrous (other)	25% Chrysotile
EM-3-12-12-005-Insulation 191202599-0012A	FAIRLAND CENTER - HALLWAY BY RM 4 (MUD JT & PIPE INS)	Gray Fibrous Heterogeneous	35% Min. Wool <i>MJ</i>	65% Non-fibrous (other)	<1% Chrysotile
EM-3-12-12-006 191202599-0013	FAIRLAND CENTER - BOILER RM PIPE INS (BIG PIPE)	Tan Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
EM-3-12-12-007-Floor Tile 191202599-0014	FAIRLAND CENTER - RM 18 FT & MSTC (LT GRN FT)	Green Non-Fibrous Heterogeneous		53% Non-fibrous (other) 35% Ca Carbonate	12% Chrysotile
EM-3-12-12-007-Mastic 191202599-0014A	FAIRLAND CENTER - RM 18 FT & MSTC (LT GRN FT)	Black Non-Fibrous Homogeneous	5% Cellulose	83% Non-fibrous (other)	12% Chrysotile
EM-3-12-12-008-Floor Tile 191202599-0015	FAIRLAND CENTER - GIRLS' BATHRM BY RM 9 HALLWAY FT & MSTC	Tan Non-Fibrous Heterogeneous		55% Non-fibrous (other) 45% Ca Carbonate	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 03/26/2012 10:09:05

Test Report PLM(S)-7.25.0 Printed: 3/26/2012 10:11:35 AM

MONTGOMERY COUNTY PUBLIC SCHOOLS  
 CHAIN OF CUSTODY  
 FOR ASBESTOS SAMPLES

NAME OF SCHOOLS: Fairland Cntr

LOCATION: Staff lounge (FT) mastic 9x9  
 SAMPLE NUMBER: EM 3.12.12.001  
 SAMPLER NAME: E.R. Marr  
 DATE SAMPLED: 3.12.12

NAME OF SCHOOLS: Fairland Cntr  
 LOCATION: Hallway by Rm 6 (12x12 FT + mastic) Brown  
 SAMPLE NUMBER: EM 3.12.12.002  
 SAMPLER NAME: E.R. Marr  
 DATE SAMPLED: 3.12.12

NAME OF SCHOOLS: Fairland Cntr  
 LOCATION: Hallway by Rm 7 (next to ramp) (Green FT + mastic)  
 SAMPLE NUMBER: EM 3.12.12.003  
 SAMPLER NAME: E.R. Marr  
 DATE SAMPLED: 3.12.12

NAME OF SCHOOLS: Fairland Cntr  
 LOCATION: A.P. Room Chair closet  
 SAMPLE NUMBER: EM 3.12.12.004  
 SAMPLER NAME: E.R. Marr  
 DATE SAMPLED: 3.12.12

MONTGOMERY COUNTY PUBLIC SCHOOLS  
CHAIN OF CUSTODY  
FOR ASBESTOS SAMPLES

NAME OF SCHOOLS:	Fairland Ctr
LOCATION:	Hallway by Rm 4 (Mod 5 + pipe insulation)
SAMPLE NUMBER:	EM 3.12.12.005
SAMPLER NAME:	E.R. Marr
DATE SAMPLED:	3.12.12
NAME OF SCHOOLS:	Fairland Ctr
LOCATION:	Boiler Rm Pipe insulation (big pipe)
SAMPLE NUMBER:	EM 3.12.12.006
SAMPLER NAME:	E.R. Marr
DATE SAMPLED:	3.12.12
NAME OF SCHOOLS:	Fairland Ctr
LOCATION:	Room 18 F.T. + Magtid light green F.T.)
SAMPLE NUMBER:	EM 3.12.12.007
SAMPLER NAME:	E.R. Marr
DATE SAMPLED:	3.12.12
NAME OF SCHOOLS:	Fairland Ctr
LOCATION:	Girls Bathroom by Rm 9 Hallway F.T. + waste
SAMPLE NUMBER:	EM 3.12.12.008
SAMPLER NAME:	E.R. Marr
DATE SAMPLED:	3.12.12