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# Asbestos Demolition Survey Report

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PREPARED FOR:

**ODOT District 10**

FOR THE PROPERTY:

**MRG-60-21.42  
10515 SR-60  
McConnellsville, Ohio**

**Project Number P402190066**

**November 13, 2019**

Submitted by  
**TRANSYSTEMS CORPORATION**



400 W Nationwide Boulevard, Suite 225  
Columbus, Ohio 43215  
Tel.: 614.433.7800  
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## EXECUTIVE SUMMARY

On November 4<sup>th</sup>, 2019 TranSystems' accredited Ohio Asbestos Hazard Evaluation Specialist, Jessica Deeds (Certification #ES35919, expires 6/22/20) and Brian S. Metz (Certification #ES33716, expires 6/22/20) conducted an asbestos inspection for the property to be demolished located at 10515 State Route 60, McConnellsville, Morgan County, Ohio for the MRG-60-21.42 Improvement Project. The purpose of the survey was to determine the presence, amount, location and condition of friable and non-friable asbestos-containing building materials. During the survey, all accessible areas of the building were inspected for suspect ACBM.

A one story with unfinished basement, 685-square foot residential structure is located on the property. The structure is constructed of wood frame with aluminum siding over fiberboard and a shingle roof. The structure is situated over an unfinished basement with cinder block walls, concrete floor with some areas of floor tile, and exposed wood beam ceiling. Some walls in the basement are covered with finished drywall. The exterior of the structure is insulated with fiberglass roll insulation and fiberboard. The roof of the structure is wood beam covered with a layer of roofing paper and a layer of asphalt shingles. The ceiling on the main floor of the structure is primarily covered with drywall with joint compound, with exception to the living room which is composed of a layer of plywood covered with a layer of textured skim coat. The walls throughout the structure are composed of drywall with joint compound. The flooring in the living room of the structure is composed of a layer of plywood over black and red floor tile over a second layer of plywood. The kitchen flooring is composed of a layer of particle board over green floor tile over hardwood flooring. Bedroom #1 is composed of a layer of rubber tar flooring over hardwood floor while Bedroom #2 is composed of a layer of laminate flooring over hardwood. The restroom of the structure contains a layer of gray floor tile over hardwood. An addition in the rear of the house is composed of particle board walls, ceilings, and floors. The structure was vacant at the time of sampling.

Below is a list of the building materials which tested positive for asbestos during laboratory analysis as well as their location within the building.

### Positive Samples

- Homogenous area (HA)-1: Red floor tile located in the living room only. The floor tile contains 2% chrysotile asbestos. Approximately 50 square feet of this material is assumed to exist within the structure.
- Homogenous area (HA)-6: Drywall joint compound (mud) located in the basement only. The joint compound contains 3% chrysotile asbestos. Approximately 150 square feet of this material is assumed to exist within the structure.
- Homogenous area (HA)-7: Gray 9x9 floor tile, located on the floor of the furnace room in the basement only. The floor tile contains 3% chrysotile asbestos. It is assumed approximately 55 square feet of this material exists within the structure.
- Homogenous area (HA)-8: Pink 9x9 floor tile, located on the floor of the furnace room in the basement only. The floor tile contains 3% chrysotile asbestos. Approximately 55 square feet of this material exists within the structure.
- Homogenous area (HA)-10: Beige drywall joint compound associated with the walls of the main floor of the house. The joint compound contains 2% chrysotile asbestos. It is assumed approximately 200 square feet of this material exists within the structure.
- Homogeneous area (HA)-11: Beige drywall joint compound associated with the ceilings on the main floor of the structure. The joint compound contains 3% chrysotile asbestos. Approximately 175 square feet of this material is present within the structure.
- Homogenous area (HA)-13: Textured skim coat applied to plywood on the ceiling of the living room only. This material contains 3% chrysotile asbestos. Approximately 100 square feet of this material exists within the structure.

Laboratory analysis indicated that all of the other samples collected of suspect material were not asbestos containing. All ACM material should be disposed of in an approved EPA facility.

No further investigation is warranted. In the event additional suspect ACM is discovered after demolition activities have begun, the contractor should contact a certified asbestos hazard evaluation specialist to conduct bulk sampling of the suspect material and wait for analytical results prior to continuing demolition activities. A Notification of Demolition form should be completed and submitted to the Ohio Environmental Protection Agency at least ten working days prior to demolition activities. A Notification of Demolition form has been partially completed for the structure, and is included in Appendix E.

## **1.0 INTRODUCTION**

TranSystems Corporation conducted an asbestos demolition survey for the structure located at 10515 State Route 60, McConnellsville, Morgan County, Ohio for the MRG-60-21.42 Road Improvements project. The purpose of the survey was to determine the presence, amount, location and condition of friable and non-friable asbestos-containing building materials (ACBM). The inspection included all accessible areas of the building. A site vicinity map is presented in Appendix A indicating the location of the property.

### **1.1 Limitations of Survey**

This Inspection/Sampling Report meets the requirements of Subpart M of the National Emissions Standard for Hazardous Pollutants (NESHAP).

Please note that no asbestos survey can wholly eliminate uncertainty regarding the potential presence of asbestos within a structure. TranSystems has attempted to reduce those uncertainties through the use of standard sampling and analytical procedures. The findings of the report, based on those procedures, do not guarantee that there is no other asbestos within the inspected structures.

This report has been prepared by TranSystems Corporation for the sole use of The Ohio Department of Transportation. Any use of this report or the information contained herein by persons or entities other than The Ohio Department of Transportation, will be at the sole risk and liability of such person or entity. TranSystems Corporation will not be liable for any damages resulting from such third party use.

## **2.0 SAMPLING AND ANALYSIS METHODOLOGY**

### **2.1 Sampling Procedures**

On November 4<sup>th</sup>, 2019 TranSystems' accredited Ohio Asbestos Hazard Evaluation Specialist, Jessica Deeds (Certification #ES35919, expires 6/22/20) and Brian S. Metz (Certification #ES33716, expires 6/22/20) conducted an asbestos inspection for the property to be demolished located at 10515 State Route 60, McConnellsville, Morgan County, Ohio for the MRG-60-21.42 Improvement Project. The purpose of the survey was to determine the presence, amount, location and condition of friable and non-friable asbestos-containing building materials. During the survey, all accessible areas of the building were inspected for suspect ACBM.

A one story with unfinished basement, 685-square foot residential structure is located on the property. The structure is constructed of wood frame with aluminum siding over fiberboard and a shingle roof. The structure is situated over an unfinished basement with cinder block walls, concrete floor with some areas of floor tile, and exposed wood beam ceiling. Some walls in the basement are covered with finished drywall. The exterior of the structure is insulated with fiberglass roll insulation and fiberboard. The roof of the structure is wood beam covered with a layer of roofing paper and a layer of asphalt shingles. The ceiling on the main floor of the structure is primarily covered with drywall with joint compound, with exception to the living room which is composed of a layer of plywood covered with a layer of textured skim coat. The walls throughout the structure are composed of drywall with joint compound. The flooring in the living room of the structure is composed of a layer of plywood over black and red floor tile over a second layer of plywood. The kitchen flooring is composed of a layer of particle board over green floor tile over hardwood flooring. Bedroom #1 is composed of a layer of rubber tar flooring over hardwood floor while Bedroom #2 is composed of a layer of laminate flooring over hardwood. The restroom of the structure contains a layer of gray floor tile over hardwood. An addition in the rear of the house is composed of particle board walls, ceilings, and floors. The structure was vacant at the time of sampling.

The following is a summary of the materials noted:

#### **Thermal System Insulation**

No thermal system insulation was observed within the structure.

#### **Surfacing Materials**

A textured skim coat applied to plywood was observed on the ceiling of the living room.

#### **Miscellaneous Materials**

The living room flooring is composed of a layer of laminate flooring in most of the room, as well as an area of black and red floor tile over plywood and hardwood. The kitchen flooring is composed of a layer of particle board over green floor tile and hardwood. The restroom flooring is composed of gray 12x12 floor tile over hardwood. Bedroom #1 is composed of a layer of asphalt/rubber roll sheeting over hardwood while Bedroom #2 has flooring composed of laminate over hardwood. The primary flooring in the basement is composed of concrete slab, however in the furnace room there is an area of both gray and pink 9x9 floor tile. Walls throughout the structure are primarily composed of drywall with joint compound, including in the furnace room in the basement. The ceiling throughout, with the exception of the living room, is composed of drywall with joint compound. Window glazing was observed on all windows within the structure. The roof is composed of a layer of roofing paper with a layer of asphalt shingles. No other miscellaneous materials were observed during inspection.

Sampling was conducted in accordance with OSHA 29 CFR 1910.134, 1910.1001, 1926.58 and AHERA Protocols, as follows:

- A. For each homogeneous area, a minimum of one bulk samples was randomly collected.
- B. During sample collection, the following protocols were followed:
  - 1. All non-essential personnel were restricted from the area where the sampling was performed.
  - 2. Each sample was misted prior to sampling.
  - 3. Each sample was placed in a clear plastic container, which was wet wiped, sealed and labeled. Each sample was identified with an individual sample number using a permanent marker on the sample container. The location of each sample, with its individual sample number, was recorded on the sample log (Appendix B).
- C. CHAIN-OF-CUSTODY

A chain-of-custody record accompanied all samples collected. The individually sealed and labeled samples were placed in 1-gallon zip-lock bags, which were then sealed prior to leaving the site. The double-bagged samples were then transported to the laboratory accompanied by a completed chain-of-custody record. A total of 40 bulk samples of suspect ACBM were collected. The samples were transported to Eurofins/Carolina Environmental, Inc. analytical laboratory under a chain-of-custody. The chain-of-custody can be found in Appendix C.

## **2.2 Laboratory Analysis**

All samples were relinquished to Eurofins/Carolina Environmental, Inc.'s NVLAP accredited (101768-0) laboratory, accompanied with a chain-of-custody Record on November 5<sup>th</sup>, 2019. All samples were analyzed by Polarized Light Microscopy (PLM) according to EPA/600/R-93/116 & EPA/600/M4-82/020 methods. The laboratory separated and analyzed the sample layers as necessary. Laboratory analytical results are presented in Appendix D.

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

Below is a list of the building materials which tested positive for asbestos during laboratory analysis as well as their location within the building.

#### Positive Samples

- Homogenous area (HA)-1: Red floor tile located in the living room only. The floor tile contains 2% chrysotile asbestos. Approximately 50 square feet of this material is assumed to exist within the structure.
- Homogenous area (HA)-6: Drywall joint compound (mud) located in the basement only. The joint compound contains 3% chrysotile asbestos. Approximately 150 square feet of this material is assumed to exist within the structure.
- Homogenous area (HA)-7: Gray 9x9 floor tile, located on the floor of the furnace room in the basement only. The floor tile contains 3% chrysotile asbestos. It is assumed approximately 55 square feet of this material exists within the structure.
- Homogenous area (HA)-8: Pink 9x9 floor tile, located on the floor of the furnace room in the basement only. The floor tile contains 3% chrysotile asbestos. Approximately 55 square feet of this material exists within the structure.
- Homogenous area (HA)-10: Beige drywall joint compound associated with the walls of the main floor of the house. The joint compound contains 2% chrysotile asbestos. It is assumed approximately 200 square feet of this material exists within the structure.
- Homogeneous area (HA)-11: Beige drywall joint compound associated with the ceilings on the main floor of the structure. The joint compound contains 3% chrysotile asbestos. Approximately 175 square feet of this material is present within the structure.
- Homogenous area (HA)-13: Textured skim coat applied to plywood on the ceiling of the living room only. This material contains 3% chrysotile asbestos. Approximately 100 square feet of this material exists within the structure.

Laboratory analysis indicated that all of the other samples collected of suspect material were not asbestos containing. All ACM material should be disposed of in an approved EPA facility.

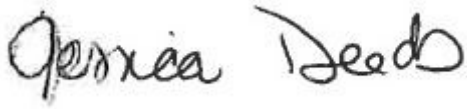
Note that the quantities were visually estimated during sampling and should not be used for bid purposes. Prior to a removal bid, interested contractors should quantify the material to be removed.

#### Recommendations

All asbestos containing building materials must be removed prior to demolition. No further investigation is warranted. All asbestos containing material removed must be disposed of at an OEPA approved facility with a NESHAP condition in the facility's air permit that allows acceptance of RACM. In the event additional suspect ACBM is discovered after demolition activities have begun, the contractor should contact a certified asbestos hazard evaluation specialist to conduct bulk sampling of the suspect material and wait for analytical results prior to continuing demolition activities. A Notification of Demolition form should be completed and submitted to the Ohio Environmental Protection Agency at least then working days prior to demolition activities. A Notification of Demolition form has been partially completed for the structure, and is included in Appendix E.

#### 4.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This section presents the signature of the Asbestos Hazard Evaluation Specialist responsible for the preparation of this asbestos survey.



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Jessica Deeds  
Asbestos Hazard Evaluation Specialist  
Certification #ES35919



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Brian Metz  
Asbestos Hazard Evaluation Specialist  
Certification #ES33716



## APPENDICES

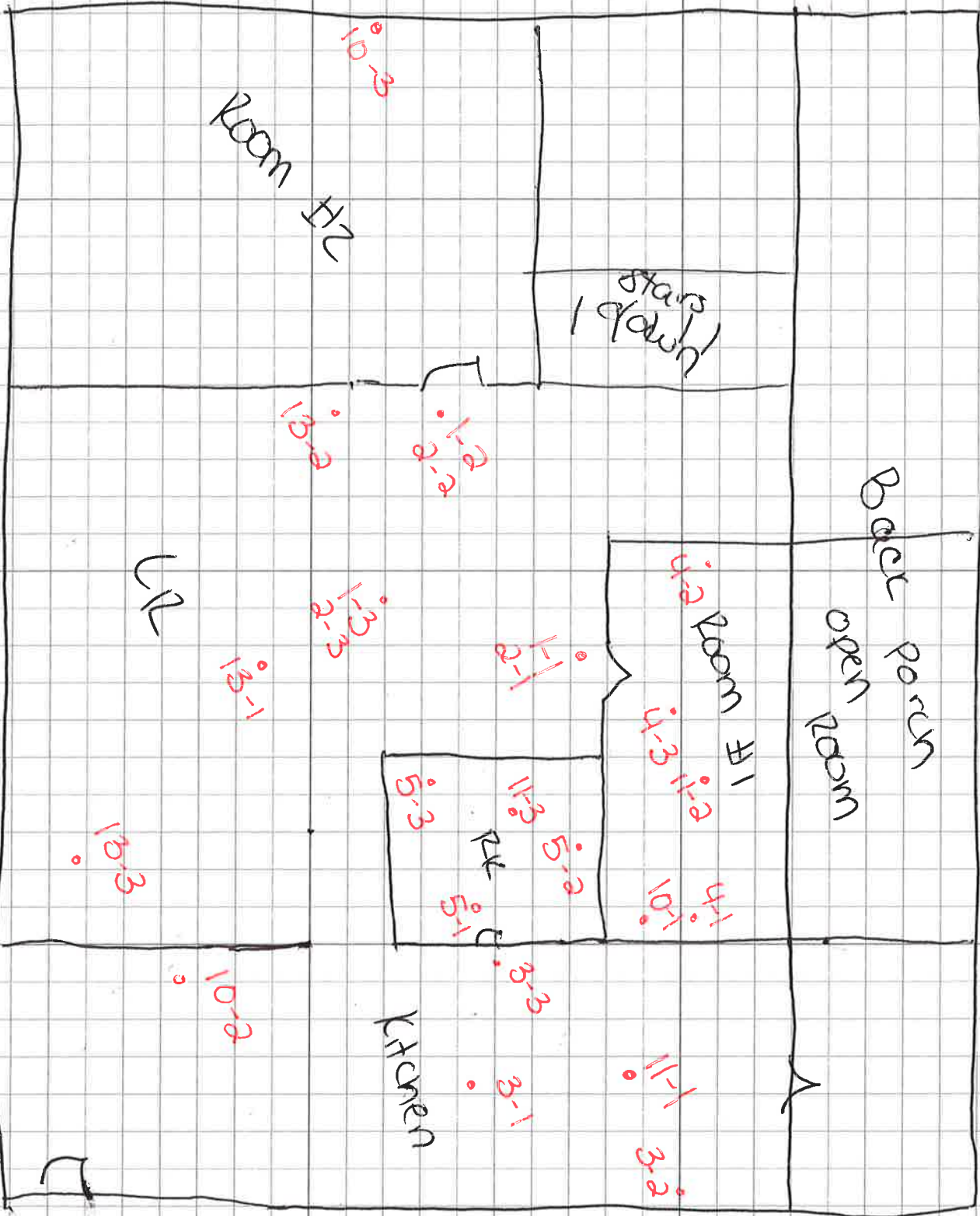
**APPENDIX A-**  
**SITE PLAN, PHOTOGRAPH**  
**LOG AND CREDENTIALS**

©

15015 SR-60

11/5/2019

West 9 River



Basement

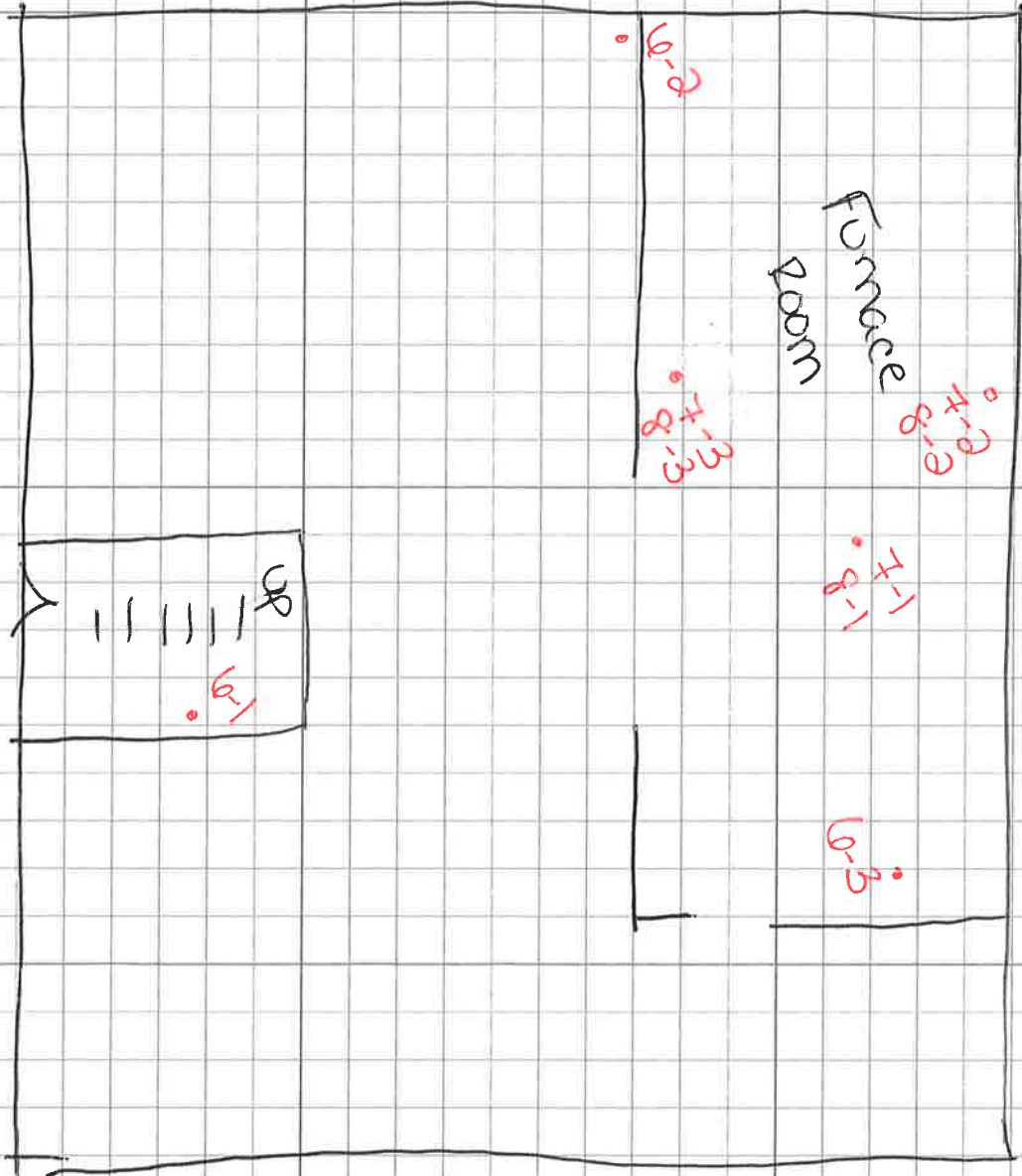




Photo 1:

HA-1 and HA-2: Red and black floor tile, in living room only.



Photo 2:

HA-3: Green floor tile in kitchen under plywood.

MRG-60-21.42  
10515 State Route 60  
McConnellsville, Ohio

**PHOTO DOCUMENTATION**



Photographer:  
J. Deeds

Date of Photograph:  
November 4, 2019



Photo 3:  
HA-4: Asphalt flooring  
located in Room #1 only.



Photo 4:  
HA-5: Gray 12x12 floor tile, in  
bathroom only.

MRG-60-21.42  
10515 State Route 60  
McConnellsville, Ohio

**PHOTO DOCUMENTATION**



Photographer:  
J. Deeds

Date of Photograph:  
November 4, 2019



Photo 5:  
 HA-6: Basement drywall, view of drywall in the furnace room of the basement.



Photo 6:  
 HA-7 and HA-8: Gray and Pink 9x9 floor tile, located in furnace room of basement only.

MRG-60-21.42  
 10515 State Route 60  
 McConnellsville, Ohio

**PHOTO DOCUMENTATION**



Photographer:  
 J. Deeds

Date of Photograph:  
 November 4, 2019



Photo 7:

HA-10 and HA-11: Drywall on walls and ceiling throughout main floor of structure.



Photo 8:

HA-12: Asphalt shingles on roofing of main structure.

MRG-60-21.42  
10515 State Route 60  
McConnellsville, Ohio

**PHOTO DOCUMENTATION**



Photographer:  
J. Deeds

Date of Photograph:  
November 4, 2019





Photo 9:

HA-13: Textured surfacing on living room ceiling only.



Photo 10:

HA-15: Window glazing.

MRG-60-21.42  
10515 State Route 60  
McConnellsville, Ohio

**PHOTO DOCUMENTATION**



Photographer:  
J. Deeds

Date of Photograph:  
November 4, 2019

**Asbestos Hazard Evaluation Specialist**



**Jessica L. Deeds**  
**TranSystems**  
**400 W Nationwide Blvd, Ste 225**  
**Columbus OH 43215**



**Certification Number**

**ES35919**

**Expiration Date**

**06/22/2020**

DOB: 03/11/1989

This certification is issued pursuant to Revised Code  
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

**Asbestos Hazard Evaluation Specialist**



**Brian S Metz**  
**TranSystems**  
**400 West Nationwide Blvd Ste 225**  
**Columbus OH 43215**



DOB: 10/15/1973

**Certification Number**

**ES33716**

**Expiration Date**

**06/22/2020**

This certification is issued pursuant to Revised Code  
Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

APPENDIX B-  
SAMPLE LOG

**ASBESTOS BULK INSPECTION LOG**

Client: ODOT District 10  
 Project: MRG-60-21.42  
 Address: 10515 State Route 60  
 City, State: McConnellsville, Ohio

Date: 11/4/2019  
 Collector: BSM, JLF  
 Job #: P402190066  
 Lab #: A1812579

HA	FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	FR	COND	AMOUNT	RESULTS
1	1-1	West edge of living room floor, near Room 1 entrance	Red floor tile	No	Poor	50 square feet	Floor tile: 2% chrysotile asbestos
	1-2	Living room floor, at Room 2 entrance		No	Poor		
	1-3	Center living room floor		No	Poor		
2	2-1	West edge of living room floor, near Room 1 entrance	Black floor tile	No	Poor	50 square feet	Non-detect
	2-2	Living room floor, at Room 2 entrance		No	Poor		
	2-3	Center living room floor		No	Poor		
3	3-1	Center of kitchen floor	Green floor tile	No	Poor	60 square feet	Non-detect
	3-2	Kitchen floor, against sink		No	Poor		
	3-3	Kitchen floor, at bathroom entrance		No	Poor		
4	4-1	Room #1, along east wall	Asphalt flooring	No	Poor	40 square feet	Non-detect
	4-2	Room #1, along west wall		No	Poor		
	4-3	Room #1, center of floor		No	Poor		
5	5-1	Restroom, at entrance	Gray floor tile	No	Poor	30 square feet	Non-detect
	5-2	Restroom, near sink		No	Poor		
	5-3	Restroom, near bathtub		No	Poor		
6	6-1	Stairwell down to basement, west side	Drywall with joint compound	Yes	Poor	150 square feet	Off-white Drywall Mud: 3% chrysotile asbestos
	6-2	Furnace room in basement, west exterior wall		Yes	Poor		
	6-3	Furnace room in basement, east interior wall		Yes	Poor		

HA	FIELD ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	FR	COND	AMOUNT	RESULTS
7	7-1	Furnace room, center of floor	9x9 gray floor tile	No	Poor	55 square feet	Floor tile: 3% chrysotile asbestos
	7-2	Furnace room, near south wall		No	Poor		
	7-3	Furnace room, near north wall		No	Poor		
8	8-1	Furnace room, center of floor	9x9 pink floor tile	No	Poor	55 square feet	Floor tile: 3% chrysotile asbestos
	8-2	Furnace room, near south wall		No	Poor		
	8-3	Furnace room, near north wall		No	Poor		
10	10-1	Room #1, east wall	Drywall with joint compound, main floor	Yes	Poor	200 square feet	Beige drywall mud: 2% chrysotile asbestos
	10-2	Kitchen, west wall		Yes	Poor		
	10-3	Room #2, east wall		Yes	Poor		
11	11-1	Kitchen, center ceiling	Ceiling drywall with joint compound	Yes	Poor	175 square feet	Beige drywall mud: 3% chrysotile asbestos
	11-2	Room #1, center ceiling (no texture)		Yes	Poor		
	11-3	Restroom, center ceiling		Yes	Poor		
12	12-1	Main structure roof	Asphalt shingles	No	Fair	682 square feet	Non-detect
	12-2	Main structure roof		No	Fair		
13	13-1	Living room ceiling, center	Textured skim coat on ceiling	Yes	Poor	100 square feet	Textured ceiling: 3% chrysotile asbestos
	13-2	Living room ceiling, south		Yes	Poor		
	13-3	Living room ceiling, east		Yes	Poor		
14	14-1	Main structure roof, under shingles	Roofing paper	No	Fair	682 square feet	Non-detect
	14-2	Main structure roof, under shingles		No	Fair		
15	15-1	Room #2, window	Window glazing	No	Poor	125 linear feet	Non-detect
	15-2	Living room window		No	Poor		
	15-3	Kitchen window		No	Poor		

**APPENDIX C-**  
**CHAIN OF CUSTODY**

730 SE Maynard Road, Cary, NC 27511  
 Tel: 866-481-1412; Fax: 919-481-1442

<b>LAB USE ONLY:</b>	
CEI Lab Code:	A1918869 (40)
CEI Lab I.D. Range:	A204396-A204435

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Jessica Deeds
Company: Transystems	Email / Tel: 604-433-7818
Address: 400 W Nationwide Blvd Suite 225 Columbus OH 43215	Project Name: MRG-600-21642
Email: jideeds@transystems.com	Project ID#: 10515 SR-60
Tel: 604-433-7818 Fax:	PO #:
	<b>STATE SAMPLES COLLECTED IN: OH</b>

**IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.**

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
<b>Relinquished By:</b>	<b>Date/Time</b>	<b>Received By:</b>	<b>Date/Time</b>
Jessica De	11/5/19 9:30am	CB	11/6 9:3

Samples will be disposed of 30 days after analysis



COMPANY CONTACT INFORMATION	
Company: <u>TransSystems</u>	Job Contact: <u>Jessica Deeds</u>
Project Name: <u>MKG-100-21.42</u>	
Project ID #: <u>10515 SR-100</u>	Tel: <u>614-433-7818</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
HA-1-1	Red FT		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-1-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-1-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-2-1	Black FT		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-2-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-2-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-3-1	Green FT		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-3-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-3-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-4-1	Asphalt floor		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-4-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-4-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-5-1	Gray FT RR		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-5-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-5-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-6-1	Basement drywall		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-6-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-6-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-7-1	Gray 9x9 FT		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-7-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-7-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-8-1	Pink 9x9 FT		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-8-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-8-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-10-1	Drywall-walls		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-10-2	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-10-3	┆		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

CEI

**COMPANY CONTACT INFORMATION**

Company: <u>TransSystems</u>	Job Contact: <u>Jessica Deeds</u>
Project Name: <u>MRC-100-21.42</u>	
Project ID #: <u>10515 SR-100</u>	Tel: <u>614-433-7818</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
HA-11-1	<u>Drywall - Ceiling</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-11-2	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-11-3	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-12-1	<u>Shingles</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-12-2	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-13-1	<u>Roof Paper</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-13-2	<u>Skim Coat - Ceiling</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-13-3	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-14-1	<u>Roof Paper</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-14-2	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-15-1	<u>Window Glaze</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-15-2	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
HA-15-3	<u>┆</u>		PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
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			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

**APPENDIX D-**  
**ANALYTICAL RESULTS**

November 11, 2019

TranSystems Corporation  
400 West Nationwide Blvd. Suite 225  
Columbus, OH 43215

**CLIENT PROJECT:** MRG - 60 - 21.42, 10515 SR-60  
**CEI LAB CODE:** A1918869

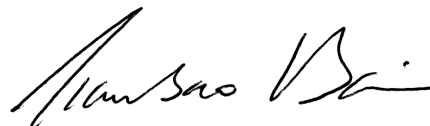
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 6, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director



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# ASBESTOS ANALYTICAL REPORT

## By: Polarized Light Microscopy

Prepared for

**TranSystems Corporation**

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CLIENT PROJECT: MRG - 60 - 21.42, 10515 SR-60

LAB CODE: A1918869

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/11/19

TOTAL SAMPLES ANALYZED: 40

# SAMPLES >1% ASBESTOS: 17

**PROJECT:** MRG - 60 - 21.42, 10515 SR-60

**LAB CODE:** A1918869

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
HA-1-1	Layer 1	A264396A	Red	Floor Tile	<b>Chrysotile 2%</b>
	Layer 2	A264396A	Black	Tarpaper	None Detected
		A264396B	Brown	Mastic	None Detected
HA-1-2	Layer 1	A264397	Red	Floor Tile	<b>Chrysotile 2%</b>
	Layer 2	A264397	Black	Tarpaper	None Detected
HA-1-3	Layer 1	A264398A	Red	Floor Tile	<b>Chrysotile 2%</b>
	Layer 2	A264398A	Black	Tarpaper	None Detected
		A264398B	Yellow	Mastic	None Detected
HA-2-1		A264399A	Black	Floor Tile	None Detected
		A264399B	Yellow	Mastic	None Detected
HA-2-2		A264400A	Black	Floor Tile	None Detected
		A264400B	Yellow	Mastic	None Detected
HA-2-3		A264401A	Black	Floor Tile	None Detected
		A264401B	Yellow	Mastic	None Detected
HA-3-1	Layer 1	A264402A	Tan	Mastic	None Detected
	Layer 2	A264402A	Green	Floor Tile	None Detected
	Layer 1	A264402B	Brown	Mastic	None Detected
	Layer 2	A264402B	Black	Tarpaper	None Detected
HA-3-2	Layer 1	A264403A	Tan	Mastic	None Detected
	Layer 2	A264403A	Green	Floor Tile	None Detected
	Layer 1	A264403B	Brown	Mastic	None Detected
	Layer 2	A264403B	Black	Tarpaper	None Detected
HA-3-3	Layer 1	A264404A	Tan	Mastic	None Detected
	Layer 2	A264404A	Green	Floor Tile	None Detected
	Layer 1	A264404B	Brown	Mastic	None Detected
	Layer 2	A264404B	Black	Tarpaper	None Detected
HA-4-1	Layer 1	A264405A	Black	Tar	None Detected
	Layer 2	A264405A	Black	Sheet Flooring	None Detected
	Layer 1	A264405B	Brown	Mastic	None Detected
	Layer 2	A264405B	Black	Tarpaper	None Detected
HA-4-2	Layer 1	A264406A	Black	Tar	None Detected



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# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: MRG - 60 - 21.42, 10515 SR-60

LAB CODE: A1918869

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	A264406A	Black	Sheet Flooring	None Detected
	Layer 1	A264406B	Brown	Mastic	None Detected
	Layer 2	A264406B	Black	Tarpaper	None Detected
		A264406C	Brown	Mastic	None Detected
HA-4-3	Layer 1	A264407A	Black	Tar	None Detected
	Layer 2	A264407A	Black	Sheet Flooring	None Detected
	Layer 1	A264407B	Brown	Mastic	None Detected
	Layer 2	A264407B	Black	Tarpaper	None Detected
HA-5-1		A264408A	Gray	Floor Tile	None Detected
		A264408B	Black	Mastic	None Detected
HA-5-2		A264409A	Gray	Floor Tile	None Detected
		A264409B	Black	Mastic	None Detected
HA-5-3		A264410A	Gray	Floor Tile	None Detected
		A264410B	Black	Mastic	None Detected
HA-6-1		A264411	Gray	Drywall	None Detected
HA-6-2	Layer 1	A264412	Off-white	Mud	Chrysotile 3%
	Layer 2	A264412	Gray	Drywall	None Detected
HA-6-3	Layer 1	A264413	Off-white	Mud	Chrysotile 3%
	Layer 2	A264413	Gray	Drywall	None Detected
HA-7-1		A264414A	Gray	Floor Tile	Chrysotile 3%
		A264414B	Yellow	Mastic	None Detected
HA-7-2		A264415A	Gray	Floor Tile	Chrysotile 3%
		A264415B	Yellow	Mastic	None Detected
HA-7-3		A264416A	Gray	Floor Tile	Chrysotile 3%
		A264416B	Yellow	Mastic	None Detected
HA-8-1		A264417A	Pink	Floor Tile	Chrysotile 3%
		A264417B	Yellow	Mastic	None Detected
HA-8-2		A264418A	Pink	Floor Tile	Chrysotile 3%
	Layer 1	A264418B	Yellow	Mastic	None Detected
	Layer 1	A264418B	White	Mud	Chrysotile 2%
HA-8-3		A264419A	Pink	Floor Tile	Chrysotile 3%

# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: MRG - 60 - 21.42, 10515 SR-60

LAB CODE: A1918869

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		A264419B	Yellow	Mastic	None Detected
HA-10-1	Layer 1	A264420	Beige	Mud	<b>Chrysotile 2%</b>
	Layer 2	A264420	Gray	Drywall	None Detected
HA-10-2		A264421	Gray	Drywall	None Detected
HA-10-3	Layer 1	A264422	White	Mud	None Detected
	Layer 2	A264422	Gray	Drywall	None Detected
HA-11-1	Layer 1	A264423	White	Mud	None Detected
	Layer 2	A264423	Gray	Drywall	None Detected
HA-11-2	Layer 1	A264424	Beige	Mud	<b>Chrysotile 3%</b>
	Layer 2	A264424	Gray	Drywall	None Detected
HA-11-3	Layer 1	A264425	White	Mud	None Detected
	Layer 2	A264425	Gray	Drywall	None Detected
HA-12-1		A264426	Black	Shingle	None Detected
HA-12-2		A264427	Brown	Shingle	None Detected
HA-13-1		A264428	White	Textured Ceiling	<b>Chrysotile 3%</b>
HA-13-2		A264429	White	Textured Ceiling	<b>Chrysotile 3%</b>
HA-13-3		A264430	White	Textured Ceiling	<b>Chrysotile 3%</b>
HA-14-1		A264431	Black	Roof Paper	None Detected
HA-14-2		A264432	Black	Roof Paper	None Detected
HA-15-1		A264433	Gray	Window Glazing	None Detected
HA-15-2		A264434	Gray	Window Glazing	None Detected
HA-15-3		A264435	Gray	Window Glazing	None Detected





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# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
400 West Nationwide Blvd. Suite 225  
Columbus, OH 43215

**Lab Code:** A1918869  
**Date Received:** 11-06-19  
**Date Analyzed:** 11-11-19  
**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>HA-1-1</b> Layer 1 A264396A	Floor Tile	Heterogeneous Red Fibrous Bound	50%	Cellulose	48%	Vinyl	<b>2% Chrysotile</b>
Layer 2 A264396A	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	50%	Tar	None Detected
A264396B	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
<b>HA-1-2</b> Layer 1 A264397	Floor Tile	Heterogeneous Red Fibrous Bound	50%	Cellulose	48%	Vinyl	<b>2% Chrysotile</b>
Lab Notes: No mastic present.							
Layer 2 A264397	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	50%	Tar	None Detected
<b>HA-1-3</b> Layer 1 A264398A	Floor Tile	Heterogeneous Red Fibrous Bound	50%	Cellulose	48%	Vinyl	<b>2% Chrysotile</b>
Layer 2 A264398A	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	50%	Tar	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
 400 West Nationwide Blvd. Suite 225  
 Columbus, OH 43215

**Lab Code:** A1918869  
**Date Received:** 11-06-19  
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**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A264398B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
<b>HA-2-1</b> A264399A	Floor Tile	Heterogeneous Black Fibrous Bound	40% 10%	Cellulose Synthetic Fiber	25% 25%	Vinyl Tar	None Detected
A264399B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
<b>HA-2-2</b> A264400A	Floor Tile	Heterogeneous Black Fibrous Bound	40% 10%	Cellulose Synthetic Fiber	25% 25%	Vinyl Tar	None Detected
A264400B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
<b>HA-2-3</b> A264401A	Floor Tile	Heterogeneous Black Fibrous Bound	40% 10%	Cellulose Synthetic Fiber	25% 25%	Vinyl Tar	None Detected
A264401B	Mastic	Homogeneous Yellow Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected



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# ASBESTOS BULK ANALYSIS

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
HA-3-1 Layer 1 A264402A	Mastic	Homogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Tan Fibrous Bound	<1%	Synthetic Fiber			
Layer 2 A264402A	Floor Tile	Heterogeneous	35%	Cellulose	10%	Vinyl	None Detected
		Green Fibrous Bound			55%	Tar	
Layer 1 A264402B	Mastic	Homogeneous	2%	Cellulose	98%	Mastic	None Detected
		Brown Non-fibrous Bound					
Layer 2 A264402B	Tarpaper	Heterogeneous	40%	Cellulose	50%	Tar	None Detected
		Black Fibrous Bound			10%	Mica	
HA-3-2 Layer 1 A264403A	Mastic	Homogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Tan Fibrous Bound	<1%	Synthetic Fiber			
Layer 2 A264403A	Floor Tile	Heterogeneous	35%	Cellulose	10%	Vinyl	None Detected
		Green Fibrous Bound			55%	Tar	
Layer 1 A264403B	Mastic	Homogeneous	2%	Cellulose	98%	Mastic	None Detected
		Brown Non-fibrous Bound					



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# ASBESTOS BULK ANALYSIS

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A264403B	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	55%	Tar Mica	None Detected
<b>HA-3-3</b> Layer 1 A264404A	Mastic	Homogeneous Tan Fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
Layer 2 A264404A	Floor Tile	Heterogeneous Green Fibrous Bound	35%	Cellulose	10% 55%	Vinyl Tar	None Detected
Layer 1 A264404B	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 2 A264404B	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	55% 10%	Tar Mica	None Detected
<b>HA-4-1</b> Layer 1 A264405A	Tar	Homogeneous Black Non-fibrous Bound	<1%	Cellulose	100%	Tar	None Detected
Lab Notes: No asphalt flooring present.							
Layer 2 A264405A	Sheet Flooring	Heterogeneous Black Fibrous Bound	35% 15%	Cellulose Synthetic Fiber	50%	Tar	None Detected



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# ASBESTOS BULK ANALYSIS

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 1 A264405B	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 2 A264405B	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	55% 10%	Tar Mica	None Detected
<b>HA-4-2</b> Layer 1 A264406A	Tar	Homogeneous Black Non-fibrous Bound	<1%	Cellulose	100%	Tar	None Detected
Lab Notes: No asphalt flooring present.							
Layer 2 A264406A	Sheet Flooring	Heterogeneous Black Fibrous Bound	35% 15%	Cellulose Synthetic Fiber	50%	Tar	None Detected
Layer 1 A264406B	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 2 A264406B	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	55% 10%	Tar Mica	None Detected
A264406C	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous		Non-Fibrous		
<b>HA-4-3</b> Layer 1 A264407A	Tar	Homogeneous Black Non-fibrous Bound	<1%	Cellulose	100%	Tar	None Detected
Lab Notes: No asphalt flooring present.							
Layer 2 A264407A	Sheet Flooring	Heterogeneous Black Fibrous Bound	35% 15%	Cellulose Synthetic Fiber	50%	Tar	None Detected
Layer 1 A264407B	Mastic	Homogeneous Brown Non-fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 2 A264407B	Tarpaper	Heterogeneous Black Fibrous Bound	35%	Cellulose	55% 10%	Tar Mica	None Detected
<b>HA-5-1</b> A264408A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
A264408B	Mastic	Homogeneous Black Non-fibrous Bound	3%	Cellulose	97%	Tar	None Detected
<b>HA-5-2</b> A264409A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected



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# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
 400 West Nationwide Blvd. Suite 225  
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**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
A264409B	Mastic	Homogeneous Black Non-fibrous Bound	3%	Cellulose	97%	Tar	None Detected
<b>HA-5-3</b> A264410A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
A264410B	Mastic	Homogeneous Black Non-fibrous Bound	3%	Cellulose	97%	Tar	None Detected
<b>HA-6-1</b> A264411	Drywall	Homogeneous Gray Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
<b>HA-6-2</b> Layer 1 A264412	Mud	Heterogeneous Off-white Non-fibrous Bound			60%	Binder	<b>3% Chrysotile</b>
Layer 2 A264412	Drywall	Homogeneous Gray Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
<b>HA-6-3</b> Layer 1 A264413	Mud	Heterogeneous Off-white Non-fibrous Bound			60%	Binder	<b>3% Chrysotile</b>
					32%	Calc Carb	
					5%	Mica	

# ASBESTOS BULK ANALYSIS

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
Layer 2 A264413	Drywall	Homogeneous Gray Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
<b>HA-7-1</b> A264414A	Floor Tile	Homogeneous Gray Non-fibrous Bound			97%	Vinyl	<b>3% Chrysotile</b>
A264414B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
<b>HA-7-2</b> A264415A	Floor Tile	Homogeneous Gray Non-fibrous Bound			97%	Vinyl	<b>3% Chrysotile</b>
A264415B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
<b>HA-7-3</b> A264416A	Floor Tile	Homogeneous Gray Non-fibrous Bound			97%	Vinyl	<b>3% Chrysotile</b>
A264416B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected





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# ASBESTOS BULK ANALYSIS

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**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
<b>HA-8-1</b> A264417A	Floor Tile	Homogeneous Pink Non-fibrous Bound	97%	Vinyl		<b>3% Chrysotile</b>
A264417B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose 5%	95% Mastic Silicates	None Detected
<b>HA-8-2</b> A264418A	Floor Tile	Homogeneous Pink Non-fibrous Bound	97%	Vinyl		<b>3% Chrysotile</b>
Layer 1 A264418B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose 5%	95% Mastic Silicates	None Detected
Layer 1 A264418B	Mud	Heterogeneous White Non-fibrous Bound	<1%	Cellulose 35%	63% Binder Calc Carb	<b>2% Chrysotile</b>
<b>HA-8-3</b> A264419A	Floor Tile	Homogeneous Pink Non-fibrous Bound	97%	Vinyl		<b>3% Chrysotile</b>
A264419B	Mastic	Homogeneous Yellow Non-fibrous Bound	<1%	Cellulose 5%	95% Mastic Silicates	None Detected



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# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
400 West Nationwide Blvd. Suite 225  
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**Date Received:** 11-06-19  
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**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>HA-10-1</b> Layer 1 A264420	Mud	Heterogeneous			63%	Binder	<b>2% Chrysotile</b>
		Beige			33%	Calc Carb	
		Non-fibrous			2%	Paint	
		Bound					
Layer 2 A264420	Drywall	Homogeneous	20%	Cellulose	80%	Gypsum	None Detected
		Gray					
		Fibrous					
		Bound					
<b>HA-10-2</b> A264421	Drywall	Heterogeneous	15%	Cellulose	80%	Gypsum	None Detected
		Gray	5%	Fiberglass	<1%	Paint	
		Fibrous					
		Bound					
<b>HA-10-3</b> Layer 1 A264422	Mud	Heterogeneous			65%	Binder	None Detected
		White			35%	Calc Carb	
		Non-fibrous			<1%	Paint	
		Bound					
Layer 2 A264422	Drywall	Homogeneous	15%	Cellulose	80%	Gypsum	None Detected
		Gray	5%	Fiberglass			
		Fibrous					
		Bound					
<b>HA-11-1</b> Layer 1 A264423	Mud	Heterogeneous			60%	Binder	None Detected
		White			35%	Calc Carb	
		Non-fibrous			5%	Perlite	
		Bound					
Layer 2 A264423	Drywall	Homogeneous	10%	Cellulose	85%	Gypsum	None Detected
		Gray	5%	Fiberglass			
		Fibrous					
		Bound					

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
 400 West Nationwide Blvd. Suite 225  
 Columbus, OH 43215

**Lab Code:** A1918869  
**Date Received:** 11-06-19  
**Date Analyzed:** 11-11-19  
**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
HA-11-2 Layer 1 A264424	Mud	Heterogeneous			62%	Binder	3% Chrysotile
		Beige			35%	Calc Carb	
		Non-fibrous			<1%	Paint	
		Bound					
HA-11-2 Layer 2 A264424	Drywall	Homogeneous	20%	Cellulose	80%	Gypsum	None Detected
		Gray					
		Fibrous					
		Bound					
HA-11-3 Layer 1 A264425	Mud	Heterogeneous			65%	Binder	None Detected
		White			35%	Calc Carb	
		Non-fibrous					
		Bound					
HA-11-3 Layer 2 A264425	Drywall	Homogeneous	10%	Cellulose	85%	Gypsum	None Detected
		Gray	5%	Fiberglass			
		Fibrous					
		Bound					
HA-12-1 A264426	Shingle	Heterogeneous	20%	Fiberglass	65%	Tar	None Detected
		Black			15%	Gravel	
		Fibrous					
		Bound					
HA-12-2 A264427	Shingle	Heterogeneous	20%	Fiberglass	65%	Tar	None Detected
		Brown			15%	Gravel	
		Fibrous					
		Bound					
HA-13-1 A264428	Textured Ceiling	Heterogeneous			62%	Binder	3% Chrysotile
		White			35%	Calc Carb	
		Non-fibrous			<1%	Paint	
		Bound					

# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** TranSystems Corporation  
 400 West Nationwide Blvd. Suite 225  
 Columbus, OH 43215

**Lab Code:** A1918869  
**Date Received:** 11-06-19  
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**Date Reported:** 11-11-19

**Project:** MRG - 60 - 21.42, 10515 SR-60

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
HA-13-2 A264429	Textured Ceiling	Heterogeneous	62%	Binder	3% Chrysotile		
		White	35%	Calc Carb			
		Non-fibrous	<1%	Paint			
		Bound					
HA-13-3 A264430	Textured Ceiling	Heterogeneous	62%	Binder	3% Chrysotile		
		White	35%	Calc Carb			
		Non-fibrous	<1%	Paint			
		Bound					
HA-14-1 A264431	Roof Paper	Heterogeneous	50%	Cellulose	50%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
HA-14-2 A264432	Roof Paper	Heterogeneous	50%	Cellulose	50%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
HA-15-1 A264433	Window Glazing	Heterogeneous	10%	Talc	65%	Binder	None Detected
		Gray			25%	Silicates	
		Non-fibrous			<1%	Paint	
		Bound					
HA-15-2 A264434	Window Glazing	Heterogeneous	10%	Talc	65%	Binder	None Detected
		Gray			25%	Silicates	
		Non-fibrous			<1%	Paint	
		Bound					
HA-15-3 A264435	Window Glazing	Heterogeneous	10%	Talc	65%	Binder	None Detected
		Gray			25%	Silicates	
		Non-fibrous			<1%	Paint	
		Bound					

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**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

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**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

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**REPORTING LIMIT:** <1% by visual estimation

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**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

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**REGULATORY LIMIT:** >1% by weight

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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

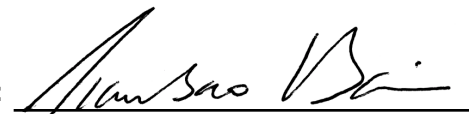
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

**ANALYST:**

  
Elisabeth Thinh

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director

**APPENDIX E-**  
**OEPA NOTIFICATION OF DEMOLITION FORM**



# Notification of Demolition and Renovation/Abatement

## Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at [epa.ohio.gov/asbestos](http://epa.ohio.gov/asbestos). This form can be completed, and payment made, at [ebiz.epa.ohio.gov](http://ebiz.epa.ohio.gov). Questions? [asbestos@epa.ohio.gov](mailto:asbestos@epa.ohio.gov) or (614) 466-0061.

Ohio EPA Use Only	Notification #:	Postmarked: / /	Received: / /	<input type="checkbox"/> Hand-Delivered
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### 1) Notification Information (Check all that apply)

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Revision # (count):	<input type="checkbox"/> Installation	<input type="checkbox"/> Emergency	<input type="checkbox"/> Annual	<input type="checkbox"/> Cancellation	Project County:
<input type="checkbox"/> NESHAP Residential Exemption						

### 2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information

Revised?

Owner		
Name: Ohio Department of Transportation- District 10		Is this a company? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Address: 338 Muskingum Drive		Contact Person: Sara Pepper
City: Marietta	State: Ohio	Zip: 45750 -
Email:	Phone: ( 740) 568 - 3931	Fax: ( ) -
Asbestos Abatement Contractor (if applicable)		
Name:		License #: AC      Expiration Date: / /
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Billing Contact (Entity paying for original notification)		
Is this contact associated with the <input type="checkbox"/> Owner, <input type="checkbox"/> Asbestos Abatement Contractor, or <input type="checkbox"/> Demolition Contractor (if not installation)?		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Fire Department (if applicable)		
Name:		Contact Person:
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

### 3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure

Revised?

Evaluation Specialist: Jessica Deeds	Certification #: ES 35919	Expiration Date: 06/22/2020
Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: <input checked="" type="checkbox"/> PLM <input type="checkbox"/> Point Count <input type="checkbox"/> TEM <input type="checkbox"/> Other Method (Explain Below):		

### 4) Procedures to be followed should unexpected RACM be discovered (check all that apply)

Revised?

<input checked="" type="checkbox"/> Stop work and keep wet	<input type="checkbox"/> Evacuate area	<input type="checkbox"/> Demarcate area	<input checked="" type="checkbox"/> Contact licensed abatement contractor
<input type="checkbox"/> Contact district office/local air authority			
<input type="checkbox"/> Other (Explain):			

### 5) Planned Demolition (check all that apply)

Revised?

Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: <input type="checkbox"/> Implosion <input type="checkbox"/> Fire Training <input type="checkbox"/> Wet Methods <input type="checkbox"/> Manual Demolition <input checked="" type="checkbox"/> Mechanical Demolition <input type="checkbox"/> Other (Explain):	
Description of affected facility components (include attachment if necessary): The entire structure will be impacted.	

# Notification of Demolition and Renovation/Abatement

## Section 1: General Information

Continued

Mail completed form and payment to:  
Ohio EPA, DAPC – Asbestos  
P.O. Box 1049, Columbus, OH 43216-1049

**6) Asbestos Description and Engineering Controls (if asbestos is being abated)** Revised?

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:

Type of ACM to be abated:	<input checked="" type="checkbox"/> Surfacing	<input type="checkbox"/> Mechanical	<input checked="" type="checkbox"/> Other Floor tile, Drywall		
Engineering Controls:	<input checked="" type="checkbox"/> Wet Methods	<input checked="" type="checkbox"/> Glove Bag	<input type="checkbox"/> NPE	<input type="checkbox"/> AFD	<input type="checkbox"/> Other:
Work Practices:	<input type="checkbox"/> Intact Removal	<input checked="" type="checkbox"/> Manual	<input checked="" type="checkbox"/> Mechanical	<input type="checkbox"/> Other:	

**7) Asbestos Waste Transporter (if applicable)** Revised?

Transporter #1 Name:			
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: ( ) -	Fax: ( ) -	
Transporter #2 Name (if applicable):			
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: ( ) -	Fax: ( ) -	

**8) Asbestos Waste Disposal Site (if applicable)** Revised?

Name:			
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: ( ) -	Fax: ( ) -	

**9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project)** Revised?

A copy of the issued order, including the following information, **must be attached** to this notification.

Government Official Issuing Order:	Title:
Agency:	Authority of Order (Citation of Code):
Date of Order: / /	Demolition Date: / /

**10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project)** Revised?

Date of Emergency: / /	Time of Emergency: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
Description of Sudden, Unexpected Event:	
Explanation of how the event caused unsafe conditions or equipment damage:	

**11) Attestation** Revised?

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.

Signature:	Date: / /
Name:	Title:
Organization:	





# Notification of Demolition and Renovation/Abatement

## Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #: _____
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**A. Facility Description** Revised?

Building Name (if applicable): MRG-60-21.42		Site Location (specific):	
Address: 10515 State Route 60			
City: McConnellsville	State: OH	Zip: 43756 -	
Building Size (square feet): 865	No. of Floors: 1	Age: 69	
Present Use: Vacant Residential		Prior Use: Residential	

**B. Type of Operation (check all that apply)** Revised?

<input checked="" type="checkbox"/> Demolition	<input type="checkbox"/> Renovation/Abatement – Type: <input type="checkbox"/> Removal <input type="checkbox"/> Repair <input type="checkbox"/> Encapsulation <input type="checkbox"/> Enclosure
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**C. Asbestos Present (check one)** Revised?

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No, previously abated	Year Abated: _____
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**D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present)** Revised?

	Material to be Removed				Material NOT to be Removed	
	RACM	Non-friable Asbestos-Containing Material		Non-friable Asbestos-Containing Material		
		Category I	Category II	Category I	Category II	
Pipes (linear feet)						
Surface area on other facility components (ft <sup>2</sup> )	625	160				
Volume if length or area cannot be measured (ft <sup>3</sup> )						

**E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work)** Revised?

Setup Date: / /			Abatement Date: / /			Complete Date: / /	
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:				Certification #: AS		Expiration Date: / /	
(Shift 2) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:				Certification #: AS		Expiration Date: / /	

**F. Demolition Contractor (if applicable)** Revised?

Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

**G. Demolition Schedule (original notification is required 10 working days prior to the start of work)** Revised?

Start Date: / /	Complete Date: / /
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**H. Project Hold** Revised?

Asbestos Abatement Offsite/On Hold as of Date: / /	Asbestos Abatement On Site/Off Hold, Work Resume Date: / /
Demolition Offsite/On Hold as of Date: / /	Demolition On Site/Off Hold, Work Resume Date: / /