



Turn-Key Environmental Consultants, Inc.

790 Barnhart Rd.
Troy, OH 45373

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March 29, 2016

Mr. Dennis Zimmer
City of Dayton, Division of Housing Inspection
371 West Second St., 3rd Floor
Dayton, Ohio 45402

RE: Comprehensive Pre-Demolition Asbestos Survey, NOP #27, Vacant Residence, 2235-2237 Salem Avenue, Dayton, OH, TKEC Project #TK-27E

Dear Mr. Zimmer:

On March 14, 2016, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist # ES34837) and Mr. Oliver Purcell (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES35952) of Turn-Key Environmental Consultants, Inc. (TKEC) visited the vacant residence located at 2235-2237 Salem Avenue in Dayton, Ohio (subject property). According to the Montgomery County Auditor information, the subject property is owned by the Montgomery County Land Reutilization Corporation, 451 W. Third St., Dayton, OH 45422. The purpose of the visit was to perform a pre-demolition asbestos survey of the structure to identify asbestos containing materials (ACMs) located in the structure prior to demolition activities being performed.

EXECUTIVE SUMMARY

On March 14, 2016, Mr. Joseph Saunders (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist # ES34837) and Mr. Oliver Purcell (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES35952) of Turn-Key Environmental Consultants, Inc. (TKEC) performed a comprehensive pre-demolition asbestos inspection of the vacant duplex residence located at 2235-2237 Salem Avenue in Dayton, Ohio. Eighteen (18) samples of suspect materials were collected from 2235 Salem Avenue and nineteen (19) samples of suspect materials were sampled from 2237 Salem Avenue. The samples were shipped overnight to an accredited laboratory for analysis. Some of the samples were comprised of layers which resulted in the analysis of a total of thirty-two (32) samples from 2235 Salem Avenue and twenty-five (25) samples from 2237 Salem Avenue.

The structure at 2235 Salem Avenue contained approximately 2,500 SF of plaster/skim coat on the walls and approximately 950 SF of plaster/skim coat/texture on the ceiling. Five (5) samples of plaster/skim coat were taken from the walls and three (3) samples of plaster/skim coat/texture were taken from the ceilings. The structure at 2237 Salem Avenue contained approximately 3,000 SF of plaster/skim coat on the walls and ceilings. Five (5) samples of plaster/skim coat were taken from the walls and ceilings.

Laboratory analysis indicated that twelve (12) samples contained 1% or greater asbestos located in 2235 Salem Avenue. The plaster/skim coat samples, plaster/skim coat/texture samples, and window glaze samples, that were sampled in 2235 Salem Avenue contained <10% asbestos, were subsequently analyzed by EPA PLM 400 Point Count. These samples were all determined to contain <1% chrysotile asbestos and will not need to be abated.

Laboratory analysis indicated that ten (10) samples contained 1% or greater asbestos located in 2237 Salem Avenue. The plaster/skim coat samples, plaster/skim coat/texture samples, and window glaze samples, that were sampled in 2237 Salem Avenue contained <10% asbestos, were subsequently analyzed by EPA PLM 400 Point Count. These samples were all determined to contain <1% chrysotile asbestos and will not need to be abated.

Two (2) duct wrap samples representing approximately 130 SF of Cat II Friable material collected from 2235 Salem Avenue contained 1% or greater asbestos, and will need to be abated prior to demolition of the structure. Two (2) duct wrap samples representing approximately 145 SF of Cat II Friable material collected from 2237 Salem Avenue contained 1% or greater asbestos, and will need to be abated prior to demolition of the structure.

Although the linoleum sample collected from 2237 Salem Avenue was determined to contain asbestos, this material does not have to be abated as this material is a Category 1 Non-Friable material.

No other suspect materials were observed in the structure that will require abatement.

DESCRIPTION OF BUILDING SURVEY AND SAMPLING METHODOLOGY

A room-by-room inspection of the house was performed and homogenous materials were identified. Sampling locations were determined in a statistically random manner for surfacing materials, or randomly distributed manner for thermal system insulation that is representative of the homogeneous area. Each bulk sample was collected using cleaned hand tools and placed in a clean, zip-lock plastic bag and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Log Sheet, including sample identification number, date of collection, name of inspector, building name, a brief description and location of the sample, and the type of material sampled (e.g. thermal insulation, fireproofing, acoustical plaster). The samples were shipped via overnight courier to SanAir Technologies Laboratory, Inc. (SanAir), an accredited and recognized laboratory under the National Voluntary Laboratory Accreditation Program (NVLAP) and analyzed for asbestos content by polarized-light microscopy (PLM) and dispersion staining (Method Reference: EPA-600/R-93/116). This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of suspect material can be used for qualitative identification of six (6)

morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite and actinolite asbestos.

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percentage) within the range of 0 to 100. The result of the bulk sample analysis is reported in a standard written laboratory report. This report includes the clients name, the project number, the laboratory identification number, the sample number assigned to the bulk sample upon receipt at the laboratory, and the field number assigned to the bulk sample upon collection. If the bulk sample contains more than one distinct layer of material, each layer is analyzed separately. The composition of the bulk sample is reported in percentages of asbestos and non-asbestos components. A summary of the bulk samples collected from this structure is included in Table 1 – Bulk Sample Log.

The structure at 2235 Salem Avenue contained approximately 2,500 SF of plaster/skim coat on the walls and approximately 950 SF of plaster/skim coat/texture on the ceiling. Five (5) samples of plaster/skim coat were taken from the walls and three (3) samples of plaster/skim coat/texture were taken from the ceilings. The structure at 2237 Salem Avenue contained approximately 3,000 SF of plaster/skim coat on the walls and ceilings. Five (5) samples of plaster/skim coat were taken from the walls and ceilings.

Laboratory analysis indicated that twelve (12) samples contained 1% or greater asbestos located in 2235 Salem Avenue. The plaster/skim coat samples, plaster/skim coat/texture samples, and window glaze samples, that were sampled in 2235 Salem Avenue contained <10% asbestos, were subsequently analyzed by EPA PLM 400 Point Count. These samples were all determined to contain <1% chrysotile asbestos and will not need to be abated.

Laboratory analysis indicated that ten (10) samples contained 1% or greater asbestos located in 2237 Salem Avenue. The plaster/skim coat samples, plaster/skim coat/texture samples, and window glaze samples, that were sampled in 2237 Salem Avenue contained <10% asbestos, were subsequently analyzed by EPA PLM 400 Point Count. These samples were all determined to contain <1% chrysotile asbestos and will not need to be abated.

Two (2) duct wrap samples collected from 2235 Salem Avenue contained 1% or greater asbestos, and will need to be abated prior to demolition of the structure. Two (2) duct wrap samples collected from 2237 Salem Avenue contained 1% or greater asbestos, and will need to be abated prior to demolition of the structure.

Although the linoleum sample collected from 2237 Salem Avenue was determined to contain asbestos, this material does not have to be abated as this material is a Category 1 Non-Friable material.

The results of the sample analyses can be found on the laboratory report attached and in Table 2 – Bulk Sample Data Summary. Table 2 also contains the locations, condition, amount, NESHAP category and type of ACM identified in the structure.

RESULTS

TKEC collected samples from wall and ceiling systems, flooring materials, roofing materials, duct insulation, blown-in insulation and window glaze and caulking if it was present. Analytical results confirmed that the following suspect asbestos-containing building materials contain more than 1% asbestos:

2235 Salem Avenue

- **Duct Wrap, [Throughout Structure], [Fair], [130 SF]**

2237 Salem Avenue

- **Duct Wrap, [Throughout Structure], [Fair], [145 SF]**
- **Linoleum, [Bathroom], [Fair], [50 SF]**

No other suspect asbestos-containing building materials that will likely become friable during demolition were identified in the structure.

ESTIMATED ABATEMENT COSTS

TKEC estimates the costs associated with the removal of the confirmed asbestos-containing materials to be as follows:

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

ESTIMATED COSTS FOR FRIABLE ACM ABATEMENT

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
Duct Wrap	275 SF	\$3.50/SF	\$962.50

The estimated costs for asbestos consulting (specifications and on-site monitoring): \$ N/A

**ESTIMATED COSTS FOR NON-FRIABLE ACM LIKELY TO BECOME
FRIABLE ABATEMENT**

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
N/A	N/A	N/A	N/A

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

ESTIMATED COSTS FOR NON-FRIABLE ACM ABATEMENT

<u>Material</u>	<u>Estimated Quantity</u>	<u>Estimated Unit Costs</u>	<u>Estimated Costs</u>
Linoleum	50 SF	\$3.50/SF	\$175.00

The estimated costs for asbestos consulting (specifications and on-site monitoring) if requested by the City of Dayton: N/A

Estimated costs are based on prevailing costs in the Midwest for 2015, and do not include costs for planning, permitting, contractor oversight or air monitoring. Actual costs may vary from estimated costs due to contractor workloads, season, or changes in regulatory requirements.

RECOMMENDATIONS

Based on the findings of this asbestos survey and NESHAP regulations, the following recommendations are presented for consideration:

1. Prior to any outside contractor(s) working at the subject structure, the contractor(s) must be notified of the presence of the building materials identified as containing asbestos.
2. Trained workers and supervisors certified by the Ohio Department of Health must be used to remove the identified asbestos-containing building materials using special procedures and protective equipment to ensure that workers are not overexposed to airborne asbestos.
3. Advance notification must be provided to the Regional Air Pollution Control Agency (RAPCA) and the Ohio Department of Health at least ten (10) working days prior to the start of abatement activities.

4. The fact that asbestos containing materials were observed in or on the building should be noted on the demolition notification form along with the name and certification number of the inspector (Joseph D. Saunders, Ohio Department of Health Asbestos Hazard Evaluation Specialist Certification No. ES34837).

TKEC made every effort to locate suspect ACM that may be concealed; however, suspect ACM which may be located behind hard plaster walls or ceilings, hard walled chases, under flooring or subflooring, etc., were not assessed or quantified. If through demolition suspect materials are discovered, they should be documented and handled appropriately.

This report is prepared to assist the City of Dayton, construction managers and asbestos abatement contractors in locating ACMs. This report is not intended to be used as a bidding document or project specifications.

Attached are the following TKEC documents: 1) Table I – Bulk Sample Log; 2) Table 2 – Bulk Sample Data Summary; 3) Laboratory Report; 4) Building Sketch/Photographs; and 5) Inspector's Certification. If we can be of further assistance on this or other projects, do not hesitate to call us at (937) 335-8807.

Respectfully submitted,
TURN-KEY ENVIRONMENTAL CONSULTANTS, INC.



Joseph Saunders
Project Manager
ODH Asbestos Hazard Evaluation Specialist
No. ES34837, Exp. Date 6/10/2016



Oliver Purcell
Field Technician
ODH Asbestos Hazard Evaluation Specialist
No. ES35952, Exp. Date 11/05/2016

ATTACHMENT 1

Bulk Sample Log

ASBESTOS BULK SAMPLE LOG
Project - 2235 Salem Avenue

TKEC Job# TK-27E

Sample #	Date	Color	Type	Location	Collected By
1-1	3/14/16	Gray	Floor Tile	Kitchen	JS/OP
2-1	3/14/16	White	Plaster/Skim Coat	Living Room	JS/OP
2-2	3/14/16	White	Plaster/Skim Coat	Dining Room	JS/OP
2-3	3/14/16	White	Plaster/Skim Coat	Kitchen	JS/OP
2-4	3/14/16	White	Plaster/Skim Coat	Back Bedroom	JS/OP
2-5	3/14/16	White	Plaster/Skim Coat	Middle Bedroom	JS/OP
3-1	3/14/16	White	Texture/Plaster/Skim Coat	Stairwell Ceiling	JS/OP
3-2	3/14/16	White	Texture/Plaster/Skim Coat	Stairwell 2nd Floor Ceiling	JS/OP
3-3	3/14/16	White	Texture/Plaster/Skim Coat	Middle Bedroom	JS/OP
4-1	3/14/16	White	Drywall/Joint Compound	Kitchen	JS/OP
5-1	3/14/16	Brown	Window Glaze	Back Bedroom	JS/OP
5-2	3/14/16	Brown	Window Glaze	Front Bedroom	JS/OP
6-1	3/14/16	Gray	Duct Wrap	Back Bedroom	JS/OP
6-2	3/14/16	Gray	Duct Wrap	Basement	JS/OP
7-1	3/14/16	Black	Roof Shingle	Roof	JS/OP
1-2	3/14/16	Gray	Floor Tile	Bathroom	JS/OP
8-1	3/14/16	Tan	Attic Insulation	Attic	JS/OP
8-2	3/14/16	Tan	Attic Insulation	Attic	JS/OP

ASBESTOS BULK SAMPLE LOG
Project - 2237 Salem Avenue

TKEC Job# TK-27E

Sample #	Date	Color	Type	Location	Collected By
1-1	3/14/16	White	Ceiling Tile 12"	Dining Room	JS/OP
1-2	3/14/16	White	Ceiling Tile 12"	Living Room	JS/OP
2-1	3/14/16	White	Plaster/Skim Coat	Dining Room	JS/OP
2-2	3/14/16	White	Plaster/Skim Coat	Kitchen	JS/OP
2-3	3/14/16	White	Plaster/Skim Coat	Back Bedroom	JS/OP
2-4	3/14/16	White	Plaster/Skim Coat	Middle Bedroom	JS/OP
2-5	3/14/16	White	Plaster/Skim Coat	Front Bedroom	JS/OP
3-1	3/14/16	White	Texture	Kitchen Ceiling	JS/OP
3-2	3/14/16	White	Texture	Stairs Basement Ceiling	JS/OP
3-3	3/14/16	White	Texture	Back Bedroom Ceiling	JS/OP
4-1	3/14/16	Green	Floor Tile 12"	Basement Stairs	JS/OP
5-1	3/14/16	Gray	Duct Wrap	Kitchen	JS/OP
5-2	3/14/16	Gray	Duct Wrap	Basement	JS/OP
6-1	3/14/16	Gray	Millboard	Dining Room	JS/OP
7-1	3/14/16	Brown	Window Glaze	Stairwell	JS/OP
7-2	3/14/16	Brown	Window Glaze	Back Bedroom	JS/OP
8-1	3/14/16	Tan	Attic Insulation	Attic	JS/OP
8-2	3/14/16	Tan	Attic Insulation	Attic	JS/OP
9-1	3/14/16	Brown/Green	Linoleum	Bath	JS/OP

ATTACHMENT 2

Bulk Sample Data Summary

2235 Salem Ave.
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Floor Tile/Mastic - Floor Tile	Kitchen	Cat I Non-Friable	Misc	1-1				NAD
Floor Tile/Mastic - Mastic	Kitchen	Cat I Non-Friable	Misc	1-1				NAD
Floor Tile/Mastic - Floor Tile	Bathroom	Cat I Non-Friable	Misc	1-2				NAD
Floor Tile/Mastic - Mastic	Bathroom	Cat I Non-Friable	Misc	1-2				NAD
Plaster/Skim Coat - Cementitious	Living Room - Wall	Cat II Non-Friable	Surfacing	2-1		2500 SF		2% Chrysotile
Plaster/Skim Coat - Skim Coat	Living Room - Wall	Cat II Non-Friable	Surfacing	2-1				NAD
Plaster/Skim Coat - Cementitious	Dining Room - Wall	Cat II Non-Friable	Surfacing	2-2				2% Chrysotile
Plaster/Skim Coat - Skim Coat	Dining Room - Wall	Cat II Non-Friable	Surfacing	2-2				NAD
Plaster/Skim Coat - Cementitious	Kitchen	Cat II Non-Friable	Surfacing	2-3				<% Chrysotile
Plaster/Skim Coat - Skim Coat	Kitchen	Cat II Non-Friable	Surfacing	2-3				NAD
Plaster/Skim Coat - Cementitious	Back Bedroom	Cat II Non-Friable	Surfacing	2-4				2% Chrysotile
Plaster/Skim Coat - Skim Coat	Back Bedroom	Cat II Non-Friable	Surfacing	2-4				NAD
Plaster/Skim Coat - Cementitious	Middle Bedroom	Cat II Non-Friable	Surfacing	2-5				2% Chrysotile

2235 Salem Ave.
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Plaster/Skim Coat - Skim Coat	Middle Bedroom	Cat II Non-Friable	Surfacing	2-5				NAD
Texture/Plaster/Skim Coat - Texture	Stairwell - Ceiling	Cat II Non-Friable	Surfacing	3-1		950 SF		NAD
Texture/Plaster/Skim Coat - Skim Coat	Stairwell - Ceiling	Cat II Non-Friable	Surfacing	3-1				NAD
Texture/Plaster/Skim Coat - Plaster	Stairwell - Ceiling	Cat II Non-Friable	Surfacing	3-1				2% Chrysotile
Texture/Plaster/Skim Coat - Texture	Stairwell 2nd Floor - Ceiling	Cat II Non-Friable	Surfacing	3-2				NAD
Texture/Plaster/Skim Coat - Skim Coat	Stairwell 2nd Floor - Ceiling	Cat II Non-Friable	Surfacing	3-2				<1% Chrysotile
Texture/Plaster/Skim Coat - Plaster	Stairwell 2nd Floor - Ceiling	Cat II Non-Friable	Surfacing	3-2				NAD
Texture/Plaster/Skim Coat - Texture	Middle Bedroom - Ceiling	Cat II Non-Friable	Surfacing	3-3				NAD
Texture/Plaster/Skim Coat - Skim Coat	Middle Bedroom - Ceiling	Cat II Non-Friable	Surfacing	3-3				2% Chrysotile
Texture/Plaster/Skim Coat - Plaster	Middle Bedroom - Ceiling	Cat II Non-Friable	Surfacing	3-3				NAD
Drywall/Joint Compound - Drywall	Kitchen	Cat II Non-Friable	Misc	4-1				NAD
Drywall/Joint Compound - Joint Compound	Kitchen	Cat II Non-Friable	Misc	4-1				NAD
Window Glaze	Back Bedroom	Cat II Non-Friable	Misc	5-1				<1% Chrysotile

2235 Salem Ave.
 Pre-Demolition Asbestos Survey
 Table I - Bulk Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Window Glaze	Front Bedroom	Cat II Non-Friable	Misc	5-2				2% Chrysotile
Duct Wrap	Back Bedroom	Cat II Friable	Misc	6-1		130 SF		65% Chrysotile
Duct Wrap	Basement	Cat II Friable	Misc	6-2				60% Chrysotile
Roof Shingle	Roof	Cat I Non-Friable	Misc	7-1				NAD
Attic Insulation	Attic	Cat II Non-Friable	Misc	8-1				NAD
Attic Insulation	Attic	Cat II Non-Friable	Misc	8-2				NAD

2237 Salem
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Ceiling Tile	Dining Room	Cat II Non-Friable	Misc.	1-1				NAD
Ceiling Tile	Living Room	Cat II Non-Friable	Misc.	1-2				NAD
Plaster/Skim Coat - Plaster	Dining Room	Cat II Non-Friable	Surfacing	2-1				<1% Chrysotile
Plaster/Skim Coat - Skim Coat	Dining Room	Cat II Non-Friable	Surfacing	2-1				NAD
Plaster/Skim Coat - Plaster	Kitchen	Cat II Non-Friable	Surfacing	2-2				<1% Chrysotile
Plaster/Skim Coat - Skim Coat	Kitchen	Cat II Non-Friable	Surfacing	2-2				NAD
Plaster/Skim Coat - Plaster	Back Bedroom	Cat II Non-Friable	Surfacing	2-3				<1% Chrysotile
Plaster/Skim Coat - Skim Coat	Back Bedroom	Cat II Non-Friable	Surfacing	2-3				NAD
Plaster/Skim Coat - Skim Coat	Middle Bedroom	Cat II Non-Friable	Surfacing	2-4				NAD
Plaster/Skim Coat - Plaster	Middle Bedroom	Cat II Non-Friable	Surfacing	2-4		3000 SF		2% Chrysotile
Plaster/Skim Coat - Plaster	Front Bedroom	Cat II Non-Friable	Surfacing	2-5				2% Chrysotile
Plaster/Skim Coat - Skim Coat	Front Bedroom	Cat II Non-Friable	Surfacing	2-5				NAD
Texture	Kitchen Ceiling	Cat II Non-Friable	Surfacing	3-1				NAD

2237 Salem
Pre-Demolition Asbestos Survey
Table I - Bulk Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Texture	Basement Stairs Ceiling	Cat II Non-Friable	Surfacing	3-2				NAD
Texture	Back Bedroom Ceiling	Cat II Non-Friable	Surfacing	3-3				NAD
Floor Tile/Mastic - Tile	Basement Stairs	Cat II Non-Friable	Misc.	4-1				NAD
Floor Tile/Mastic - Mastic	Basement Stairs	Cat II Non-Friable	Misc.	4-2				NAD
Duct Wrap	Kitchen	Cat II Friable	Misc.	5-1		145 SF		35% Chrysotile
Duct Wrap	Dining Room	Cat II Friable	Misc.	5-2				55% Chrysotile
Millboard	Dining Room			6-1				NAD
Window Glaze	Stairwell	Cat II Non-Friable	Misc.	7-1				2% Chrysotile
Window Glaze	Back Bedroom	Cat II Non-Friable	Misc.	7-2				2% Chrysotile
Attic Insulation	Attic	Cat II Non-Friable	Misc.	8-1				NAD
Attic Insulation	Attic	Cat II Non-Friable	Misc.	8-2				NAD
Linoleum	Bathroom	Cat II Non-Friable	Misc.	9-1		50 SF		20% Chrysotile

2235 Salem Avenue
 Pre-Demolition Asbestos Survey
 Table II - Point Count Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Plaster/Skim Coat - Cementitious	Living Room	Cat II Non-Friable	Surfacing	2-1		2500 SF		0.25% Chrysotile
Plaster/Skim Coat - Cementitious	Dining Room	Cat II Non-Friable	Surfacing	2-2				<0.25% Chrysotile
Plaster/Skim Coat - Cementitious	Kitchen	Cat II Non-Friable	Surfacing	2-3				<0.25% Chrysotile
Plaster/Skim Coat - Cementitious	Back Bedroom	Cat II Non-Friable	Surfacing	2-4				<0.5% Chrysotile
Plaster/Skim Coat - Cementitious	Middle Bedroom	Cat II Non-Friable	Surfacing	2-5				<0.25% Chrysotile
Texture/Plaster/Skim Coat - Cementitious	Stairwell Ceiling	Cat II Non-Friable	Surfacing	3-1		950 SF		<0.25% Chrysotile
Texture/Plaster/Skim Coat - Cementitious	Stairwell 2nd Floor Ceiling	Cat II Non-Friable	Surfacing	3-2				<0.25% Chrysotile
Texture/Plaster/Skim Coat - Cementitious	Middle Bedroom Ceiling	Cat II Non-Friable	Surfacing	3-3				0.25% Chrysotile
Window Glaze	Back Bedroom	Cat II Non-Friable	Misc.	5-1				<0.25% Chrysotile
Window Glaze	Front Bedroom	Cat II Non-Friable	Misc.	5-2				<0.25% Chrysotile

2237 Salem Avenue
 Pre-Demolition Asbestos Survey
 Table II - Point Count Sample Data Summary

Project TK-27E

Homogeneous Area					Quantity & Condition			
Sample Description (Material Type)	Sample Location	NSHAP Category	ACM Type	Bulk Sample No.	Good	Fair	Poor	Asbestos Content
Plaster/Skim Coat - Plaster	Dining Room	Cat II Non-Friable	Surfacing	2-1				<0.25% Chrysotile
Plaster/Skim Coat - Plaster	Kitchen	Cat II Non-Friable	Surfacing	2-2				<0.25% Chrysotile
Plaster/Skim Coat - Plaster	Back Bedroom	Cat II Non-Friable	Surfacing	2-3				0.25% Chrysotile
Plaster/Skim Coat - Plaster	Middle Bedroom	Cat II Non-Friable	Surfacing	2-4				0.25% Chrysotile
Plaster/Skim Coat - Plaster	Front Bedroom	Cat II Non-Friable	Surfacing	2-5				<0.25% Chrysotile
Window Glaze	Stairwell	Cat II Non-Friable	Misc.	7-1				0.5% Chrysotile
Window Glaze	Back Bedroom	Cat II Non-Friable	Misc.	7-2				<0.25% Chrysotile

ATTACHMENT 3

Laboratory Data



Email: IAQ@hayesmicrobial.com
www.hayesmicrobial.com/lims/

Analysis Report prepared for

Turn-Key Environmental Consultants

714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-27E
Job Name: 2235 Salem
Date Sampled: 03-14-2016
Date Analyzed: 03-21-2016
Report Date: 03-21-2016

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



LAB #188863

AIHA Accredited
Environmental Microbiology



NY ELAP Lab ID#12015

Texas Dept. of State
Health Services

Mold License: LAB1021
Asbestos License: 300435



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #16006466

**Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402**

March 21, 2016

Client Job Number: TK-27E
Client Job Name: 2235 Salem

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 17, 2016 we received 18 samples by FedEx for the job referenced above.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
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Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006466

Job Number: TK-27E	Job Name: 2235 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
1	1-1	Floor Tile - Kitchen	Granular / Gray	(None Detected)	2 % Cellulose fibers	98 %
	Layer 2	Floor Tile - Kitchen	Mastic/Adhesive / Tan	(None Detected)	2 % Cellulose fibers	98 %
2	2-1	Plaster/Skim Coat - Living Room	Cementitious / Gray	2 % Chrysotile	2 % Synthetic Fiber	96 %
	Layer 2	Plaster/Skim Coat - Living Room	Skim Coat / White	(None Detected)	(None Detected)	100 %
3	2-2	Plaster/Skim Coat - Dining Room	Cementitious / Gray	2 % Chrysotile	2 % Synthetic Fiber	96 %
	Layer 2	Plaster/Skim Coat - Dining Room	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
4	2-3	Plaster/Skim Coat - Kitchen	Cementitious / Gray	<1 % Chrysotile	2 % Synthetic Fiber	98 %
	Layer 2	Plaster/Skim Coat - Kitchen	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
5	2-4	Plaster/Skim Coat - Back Bedroom	Cementitious / Gray	2 % Chrysotile	(None Detected)	98 %
	Layer 2	Plaster/Skim Coat - Back Bedroom	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
6	2-5	Plaster/Skim Coat - Middle Bedroom	Cementitious / Gray	2 % Chrysotile	(None Detected)	98 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



HAYES

MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 714 E Monument Ave
 Dayton, OH 45402
 Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006466

Job Number: TK-27E	Job Name: 2235 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
	Layer 2	Plaster/Skim Coat - Middle Bedroom	Skim Coat / White	(None Detected)	(None Detected)	100 %
7	3-1	Texture/Plaster/Skim Coat - Stairwell Ceiling	Texture / White	(None Detected)	2 % Cellulose fibers	98 %
	Layer 2	Texture/Plaster/Skim Coat - Stairwell Ceiling	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
	Layer 3	Texture/Plaster/Skim Coat - Stairwell Ceiling	Plaster / Gray	2 % Chrysotile	3 % Synthetic Fiber	95 %
8	3-2	Texture/Plaster/Skim Coat - Stairwell 2nd Floor...	Texture / White	(None Detected)	2 % Synthetic Fiber	98 %
	Layer 2	Texture/Plaster/Skim Coat - Stairwell 2nd Floor...	Plaster / Gray	<1 % Chrysotile	(None Detected)	100 %
	Layer 3	Texture/Plaster/Skim Coat - Stairwell 2nd Floor...	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
9	3-3	Texture/Plaster/Skim Coat - Middle Bedroom	Texture / White	(None Detected)	2 % Cellulose fibers	98 %
	Layer 2	Texture/Plaster/Skim Coat - Middle Bedroom	Plaster / Gray	2 % Chrysotile	2 % Synthetic Fiber	96 %
	Layer 3	Texture/Plaster/Skim Coat - Middle Bedroom	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
10	4-1	Drywall/Joint Compound - Kitchen	Drywall / White	(None Detected)	2 % Cellulose fibers	98 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



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EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006466

Job Number: TK-27E	Job Name: 2235 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
	Layer 2	Drywall/Joint Compound - Kitchen	Joint Compound /	(None Detected)	2 % Talc	98 %
11	5-1	Window Glaze - Back Bedroom	Brittle / Brown	<1 % Chrysotile	2 % Talc	98 %
12	5-2	Window Glaze - Front Bedroom	Brittle / Brown	2 % Chrysotile	(None Detected)	98 %
13	6-1	Duct Wrap - Back Bedroom	Long Fibers / Gray	65 % Chrysotile	(None Detected)	35 %
14	6-2	Duct Wrap - Basement	Long Fibers / Gray	60 % Chrysotile	25 % Cellulose fibers	15 %
15	7-1	Roof Shingle - Roof	Roofing / Black	(None Detected)	30 % Mineral/Glass wool	70 %
16	1-2	Floor Tile - Bathroom	Granular / Gray	(None Detected)	2 % Cellulose fibers	98 %
	Layer 2	Floor Tile - Bathroom	Mastic/Adhesive / Tan	(None Detected)	(None Detected)	100 %
17	8-1	Attic Insulation - Attic	Fibrous / Tan	(None Detected)	85 % Cellulose fibers	15 %
18	8-2	Attic Insulation - Attic	Fibrous / Tan	(None Detected)	85 % Cellulose fibers	15 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



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Asbestos - Additional Information

HMC #16006466

All samples were received in acceptable condition unless otherwise noted on the report. The Report must not be used by the client to claim product certification, approval, or endorsement by: AIHA, NIST, NVLAP NY ELAP, or any agency. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested. None detected: Below the detected reporting limit of 1% unless point counting is performed, then the detected, reporting limit is .25%. Per NY ELAP198.6 (NOB) TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

Signature: _____

Date: 03/21/2016

Reviewed by: _____

Date: 03/21/2016



Email: IAQ@hayesmicrobial.com
www.hayesmicrobial.com/lims/

Analysis Report prepared for

Turn-Key Environmental Consultants

714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-27E
Job Name: 2237 Salem
Date Sampled: 03-14-2016
Date Analyzed: 03-21-2016
Report Date: 03-21-2016

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



LAB #188863
AIHA Accredited
Environmental Microbiology



NY ELAP Lab ID#12015

Texas Dept. of State
Health Services

Mold License: LAB1021
Asbestos License: 300435



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Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #16006461

**Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402**

March 21, 2016

Client Job Number: TK-27E
Client Job Name: 2237 Salem

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 17, 2016 we received 19 samples by FedEx for the job referenced above.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES

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Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006461

Job Number: TK-27E	Job Name: 2237 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
1	1-1	Ceiling Tile 12 - Dining Room	Fibrous / White	(None Detected)	85 % Cellulose fibers	15 %
2	1-2	Ceiling Tile 12 - Living Room	Fibrous / White	(None Detected)	90 % Cellulose fibers	10 %
3	2-1	Plaster/Skim Coat - Dining Room	Cementitious / Gray	<1 % Chrysotile	2 % Synthetic Fiber 3 % Hair	95 %
	Layer 2	Plaster/Skim Coat - Dining Room	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
4	2-2	Plaster/Skim Coat - Kitchen	Cementitious / Gray	<1 % Chrysotile	(None Detected)	100 %
	Layer 2	Plaster/Skim Coat - Kitchen	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
5	2-3	Plaster/Skim Coat - Back Bedroom	Cementitious / Gray	<1 % Chrysotile	2 % Synthetic Fiber 3 % Hair	95 %
	Layer 2	Plaster/Skim Coat - Back Bedroom	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
6	2-4	Plaster/Skim Coat - Middle Bedroom	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
	Layer 2	Plaster/Skim Coat - Middle Bedroom	Cementitious / Gray	2 % Chrysotile	(None Detected)	98 %
7	2-5	Plaster/Skim Coat - Front Bedroom	Cementitious / Gray	2 % Chrysotile	2 % Synthetic Fiber	96 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



HAYES

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EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006461

Job Number: TK-27E	Job Name: 2237 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
	Layer 2	Plaster/Skim Coat - Front Bedroom	Skim Coat / White	(None Detected)	2 % Cellulose fibers	98 %
8	3-1	Texture - Kitchen Ceiling	Texture / White	(None Detected)	2 % Talc	98 %
9	3-2	Texture - Stairs Basement Ceiling	Texture / White	(None Detected)	2 % Talc	98 %
10	3-3	Texture - Back Bedroom Ceiling	Texture / White	(None Detected)	3 % Talc	97 %
11	4-1	Floor Tile 12 - Basement Stairs	Hard / Green	(None Detected)	2 % Ceramic Fibers	98 %
	Layer 2	Floor Tile 12 - Basement Stairs	Mastic/Adhesive / Tan	(None Detected)	2 % Cellulose fibers	98 %
12	5-1	Duct Wrap - Kitchen	Fibrous / Gray	35 % Chrysotile	45 % Cellulose fibers	20 %
13	5-2	Duct Wrap - Dining Room	Fibrous / Gray	55 % Chrysotile	35 % Cellulose fibers	10 %
14	6-1	Millboard - Dining Room	Fibrous / Gray	(None Detected)	80 % Cellulose fibers	20 %
15	7-1	Window Glaze - Stairwall	Granular / Brown	2 % Chrysotile	3 % Cellulose fibers	95 %
16	7-2	Window Glaze - Back Bedroom	Granular / Brown	2 % Chrysotile	(None Detected)	98 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



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EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006461

Job Number: TK-27E	Job Name: 2237 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/21/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
17	8-1	Attic Insulation - Attic	Fibrous / Tan	(None Detected)	65 % Cellulose fibers 25 % Mineral/Glass wool	10 %
18	8-2	Attic Insulation	Fibrous / Tan	(None Detected)	65 % Cellulose fibers 25 % Mineral/Glass wool	10 %
19	9-1	Linoleum - Bath	Smooth/Fibrous / Brown/Green	20 % Chrysotile	35 % Cellulose fibers	45 %

Signature: 

Date: 03/21/2016

Reviewed by: 

Date: 03/21/2016



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Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Asbestos - Additional Information

HMC #16006461

All samples were received in acceptable condition unless otherwise noted on the report. The Report must not be used by the client to claim product certification, approval, or endorsement by: AIHA, NIST, NVLAP NY ELAP, or any agency. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested. None detected: Below the detected reporting limit of 1% unless point counting is performed, then the detected, reporting limit is .25%. Per NY ELAP198.6 (NOB) TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

Signature: _____

Date: 03/21/2016

Reviewed by: _____

Date: 03/21/2016

ASBESTOS BULK SAMPLE LOG
Project - 2237 Salem Avenue

2 of 2 006461

TKEC Job# TK-27E

Sample #	Date	Color	Type	Location	Collected By
1-1	3/14/16	White	Ceiling Tile 12"	Dining Room	JS/OP
1-2		White	Ceiling Tile 12"	Living Room	
2-1		White	Plaster/Skim Coat	Dining Room	
2-2		White	Plaster/Skim Coat	Kitchen	
2-3		White	Plaster/Skim Coat	Back Bedroom	
2-4		White	Plaster/Skim Coat	Middle Bedroom	
2-5		White	Plaster/Skim Coat	Front Bedroom	
3-1		White	Texture	Kitchen Ceiling	
3-2		White	Texture	Stairs Basement Ceiling	
3-3		White	Texture	Back Bedroom Ceiling	
4-1		Green	Floor Tile 12"	Basement Stairs	
5-1		Gray	Duct Wrap	Kitchen	
5-2		Gray	Duct Wrap	Basement	
6-1		Gray	Millboard	Dining Room	
7-1		Brown	Window Glaze	Stairwell	
7-2		Brown	Window Glaze	Back Bedroom	
8-1		Tan	Attic Insulation	Attic	
8-2		Tan	Attic Insulation	Attic	
9-1		Brown/Green	Linoleum	Bath	
					Rec'd 03/17/16



Email: IAQ@hayesmicrobial.com
www.hayesmicrobial.com/lims/

Analysis Report prepared for

Turn-Key Environmental Consultants

714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-27E
Job Name: 2235 Salem
Date Sampled: 03-14-2016
Date Analyzed: 03-23-2016
Report Date: 03-24-2016

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



LAB #188863

AIHA Accredited
Environmental Microbiology



NY ELAP Lab ID#12015

Texas Dept. of State
Health Services

Mold License: LAB1021
Asbestos License: 300435



HAYES

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HMC #16006976

**Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402**

March 24, 2016

Client Job Number: TK-27E
Client Job Name: 2235 Salem

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 17, 2016 we received 10 samples by FedEx for the job referenced above.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



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Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 400 Point Count

HMC #16006976

Job Number: TK-27E	Job Name: 2235 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/24/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
2	2-1	Plaster/Skim Coat - Living Room	Cementitious / Gray	0.25 % Chrysotile	(None Detected)	99.75 %
3	2-2	Plaster/Skim Coat - Dining Room	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
4	2-3	Plaster/Skim Coat - Kitchen	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
5	2-4	Plaster/Skim Coat - Back Bedroom	Cementitious / Gray	0.5 % Chrysotile	(None Detected)	99.5 %
6	2-5	Plaster/Skim Coat - Middle Bedroom	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
7	3-1	Texture/Plaster/Skim Coat - Stairwell Ceiling	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
8	3-2	Texture/Plaster/Skim Coat - Stairwell 2nd Floor...	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
9	3-3	Texture/Plaster/Skim Coat - Middle Bedroom	Cementitious / Gray	0.25 % Chrysotile	(None Detected)	99.75 %

Signature: 

Date: 03/23/2016

Reviewed by: 

Date: 03/24/2016



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Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #16006976

Job Number: TK-27E	Job Name: 2235 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 03/24/2016

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
11	5-1	Window Glaze - Back Bedroom	Brittle / Brown	<0.25 % Chrysotile	(None Detected)	100 %

Notes: Asbestos Observed Not In Counting Field.

12	5-2	Window Glaze - Front Bedroom	Brittle / Gray	<0.25 % Chrysotile	(None Detected)	100 %
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Notes: Asbestos Observed Not In Counting Field.

Signature: 

Date: 03/23/2016

Reviewed by: 

Date: 03/24/2016



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714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Asbestos - Additional Information

HMC #16006976

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Signature: Reed

Date: 03/23/2016

Reviewed by: Stephen N. Hayes

Date: 03/24/2016

[Click here to enable](#)

Mail

COMPOSE

Point Count Analyses

Inbox

x

Inbox

Starred

Sent Mail

Drafts (3)

More

Turn-Key Environmental

to me

Hi Renaldo,

I would like to order point count analysis for the following samples:

- TK-27D Sample #2 1-2
- Sample #4 1-4

16006466

TK-27E 2237 Salem Ave.

Sample #2 2-1

Sample #3 2-2

Sample #4 2-3

Sample is missing!

Sample #5 2-5

Positive Stop on the above set of samples

Sample #7 3-1

Sample #8 3-2

Sample #9 3-3

Positive Stop on the above set of samples

Sample #11 5-1

Sample #12 5-2

Positive Stop on the above set of samples

TK-27E 2237 Salem Ave.

Sample #3 2-1

Sample #4 2-2

Sample #5 2-3

Sample #6 2-4

Sample #7 2-5

Positive Stop on the above set of samples

Sample #15 7-1

Sample #16 7-2

Positive Stop on the above set of samples

Two (2) day TAT is fine for these samples.

Thanks,

Joe Saunders

006976



[Click here to Reply](#) or [Forward](#)

ASG 3/22/16



Email: IAQ@hayesmicrobial.com
www.hayesmicrobial.com/lims/

Analysis Report prepared for

Turn-Key Environmental Consultants

714 E Monument Ave
Dayton, OH 45402
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-27E
Job Name: 2237 Salem
Date Sampled: 03-14-2016
Date Analyzed: 03-23-2016
Report Date: 11-30--0001

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



LAB #188863

AIHA Accredited
Environmental Microbiology



NY ELAP Lab ID#12015

Texas Dept. of State
Health Services

Mold License: LAB1021
Asbestos License: 300435



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Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #16006977

**Turn-Key Environmental Consultants
714 E Monument Ave
Dayton, OH 45402**

November 30, -0001

Client Job Number: TK-27E
Client Job Name: 2237 Salem

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 17, 2016 we received 7 samples by FedEx for the job referenced above.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

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Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



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Ph.: (937) 335-8807 Fax.: (937) 339-4882

EPA 400 Point Count

HMC #16006977

Job Number: TK-27E	Job Name: 2237 Salem	Date Collected: 03/14/2016
Collected by: J. Saunders		Date Received: 03/17/2016
Email: tke@turn-keyenvironmental.com		Date Reported: 11/30/-0001

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
3	2-1	Plaster/Skim Coat - Dining Room	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
4	2-2	Plaster/Skim Coat - Kitchen	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
5	2-3	Plaster/Skim Coat - Back Bedroom	Cementitious / Gray	0.25 % Chrysotile	(None Detected)	99.75 %
6	2-4	Plaster/Skim Coat - Middle Bedroom	Cementitious / Gray	0.25 % Chrysotile	(None Detected)	99.75 %
7	2-5	Plaster/Skim Coat - Front Bedroom	Cementitious / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						
15	7-1	Window Glaze - Stairwall	Brittle / Gray	0.5 % Chrysotile	(None Detected)	99.5 %
16	7-2	Window Glaze - Back Bedroom	Brittle / Gray	<0.25 % Chrysotile	(None Detected)	100 %
Notes: Asbestos Observed Not In Counting Field.						

Signature: 

Date: 03/23/2016

Reviewed by: _____

Date: _____

[Click here to enable](#)

Mail

COMPOSE

Point Count Analyses Inbox x

Inbox

Saved

Sent Mail

Drafts (9)

More

Turn-Key Environmental

to me

Hi Renaldo,

I would like to order point count analysis for the following samples:

TK-27D Sample #2 1-2
Sample #4 1-4

TK-27E 2238 Salem Ave.

- Sample #2 2-1
- Sample #3 2-2
- Sample #4 2-3
- Sample is missing!
- Sample #5 2-5

Positive Stop on the above set of samples

- Sample #7 3-1
- Sample #8 3-2
- Sample #9 3-3

Positive Stop on the above set of samples

- Sample #11 5-1
- Sample #12 5-2

Positive Stop on the above set of samples

16006461

TK-27E 2237 Salem Ave.

- Sample #3 2-1
- Sample #4 2-2
- Sample #5 2-3
- Sample #6 2-4
- Sample #7 2-5

Positive Stop on the above set of samples

- Sample #15 7-1
- Sample #16 7-2

Positive Stop on the above set of samples

Two (2) day TAT is fine for these samples.

Thanks,

Joe Saunders

006977

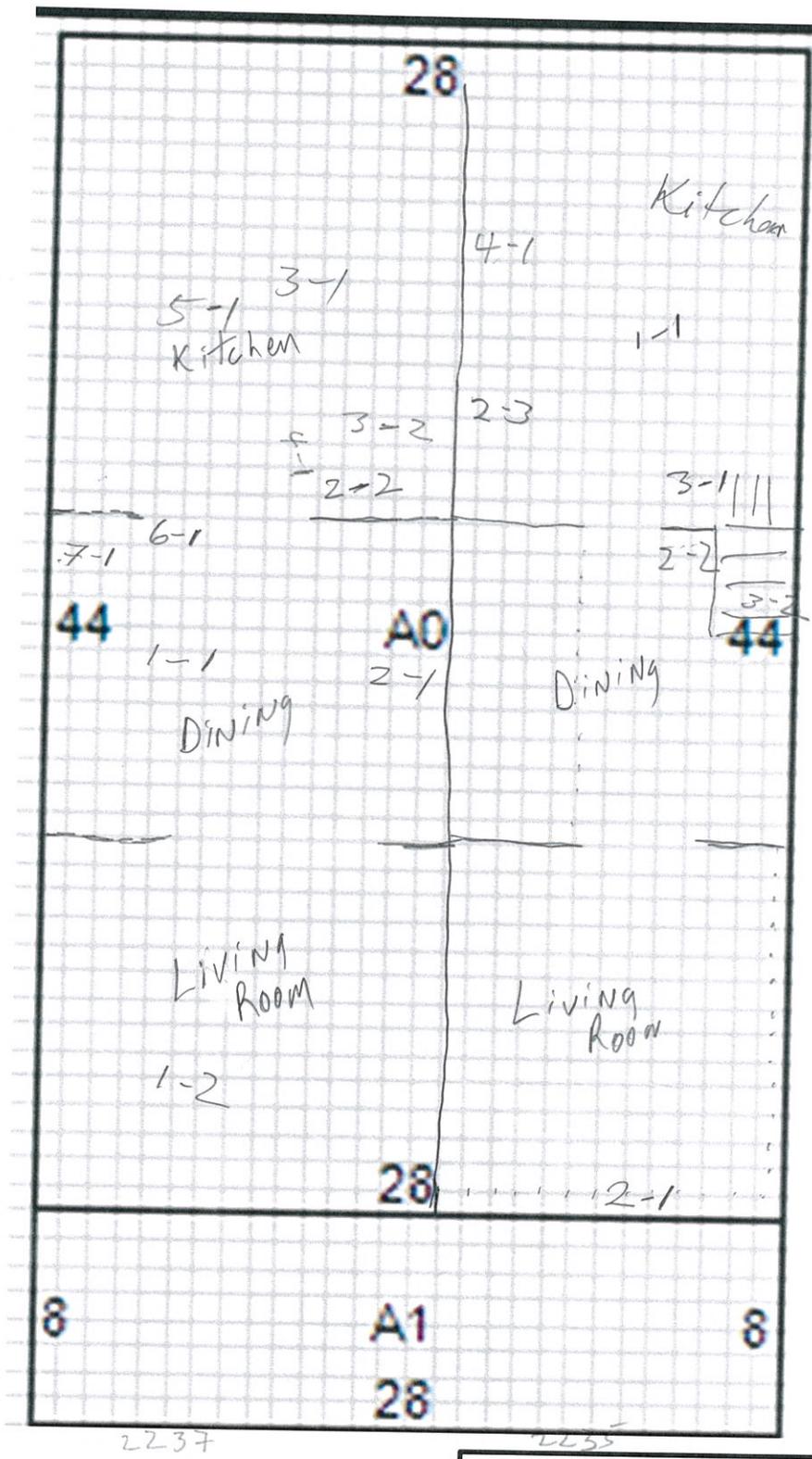


[Click here to Reply or Forward](#)

JS 3/22/16

ATTACHMENT 4

Site Sketch/Photographs



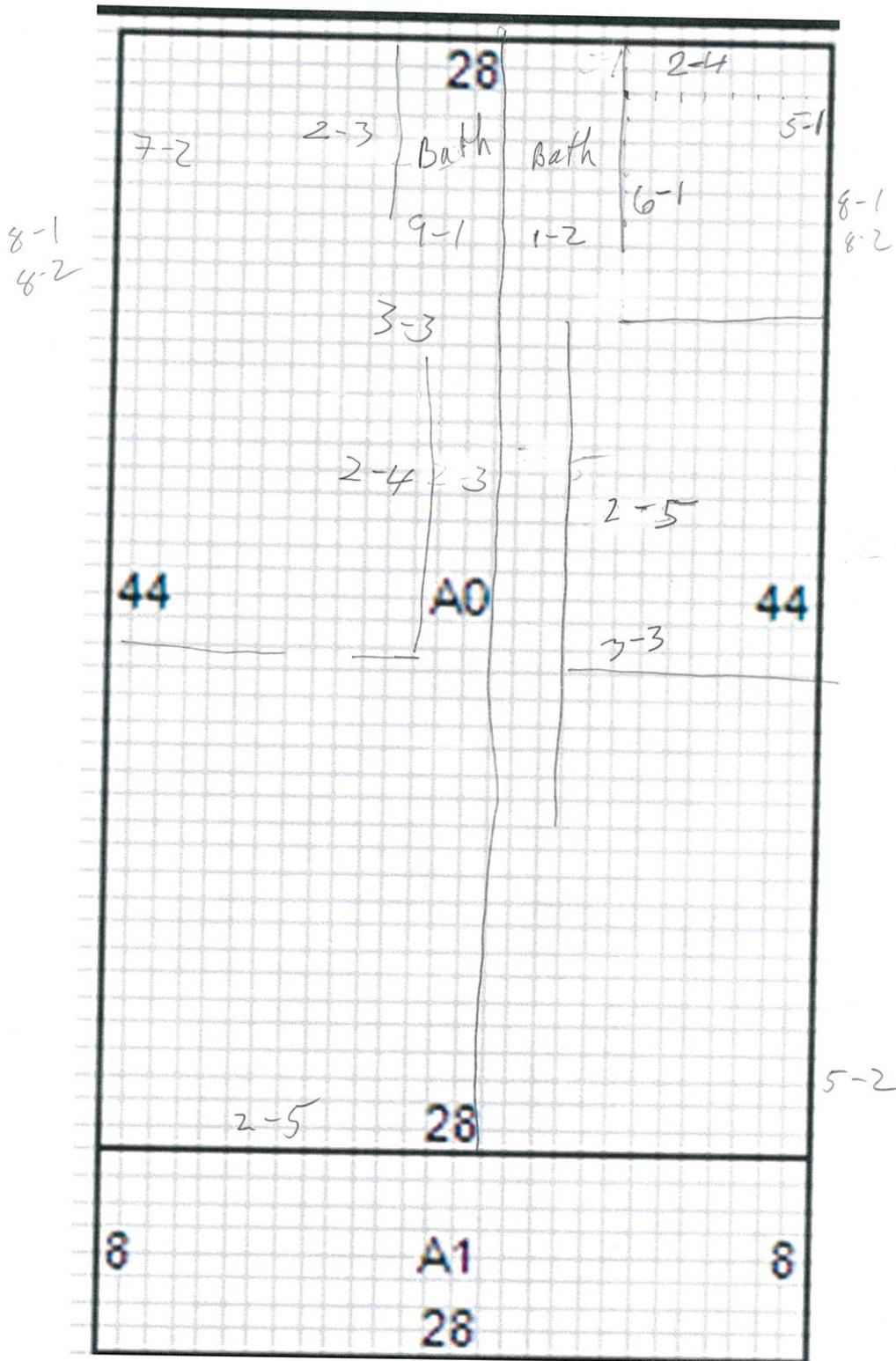
1-1 Approximate
Sample Location

1-1* Asbestos > 1%

1st Floor
FLOOR PLAN

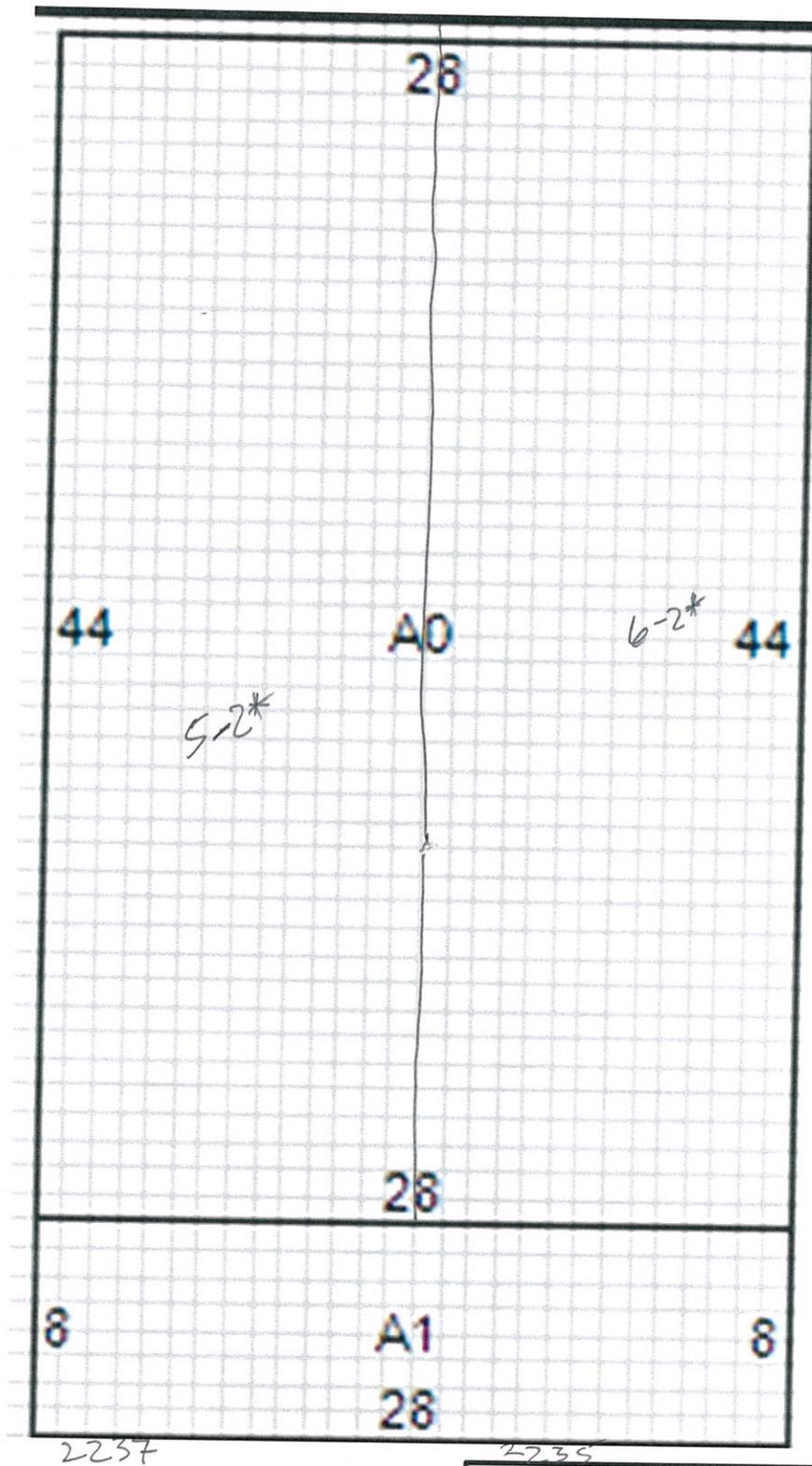
TK-27E

2235-2237 Salem



1-1 Approximate
Sample Location
1-1* Asbestos > 1%

2nd Floor
FLOOR PLAN
TK-27E
2235-2237 Salem



1-1 Approximate
Sample Location
1-1* Asbestos > 1%

Basement
FLOOR PLAN

TK-27E

2235-2237 Salem



R72 11508 0021 03/28/2013

2235 Salem Avenue



Sample 1-1 Gray Floor Tile



Sample 2-1 Plaster/Skim Coat



Sample 2-2 Plaster/Skim Coat



Sample 2-3 Plaster/Skim Coat



Sample 2-4 Plaster/Skim Coat



Sample 2-5 Plaster/Skim Coat



Sample 3-1 Textured Ceiling



Sample 3-2 Textured Ceiling



Sample 3-3 Textured Ceiling



Sample 4-1 Drywall/Joint Compound



Sample 5-1 Window Glazing



Sample 5-2 Window Glazing



Sample 6-1 Duct Wrap



Sample 6-2 Duct Wrap



2237 Salem



Sample 1-1 12" Ceiling Tile



Sample 1-2 12" Ceiling Tile



Sample 2-1 Plaster/Skim Coat



Sample 2-2 Plaster/Skim Coat



Sample 2-3 Plaster/Skim Coat



Sample 2-4 Plaster/Skim Coat



Sample 2-5 Plaster/Skim Coat



Sample 3-3 Textured Ceiling



Sample 4-1 12" Floor Tile



Sample 5-1 Duct Wrap



Sample 5-2 Duct Wrap



Sample 6-1 Millboard



Sample 7-1 Window Glaze



Sample 9-1 Brown/Green Linoleum

ATTACHMENT 5

Inspector's Certification

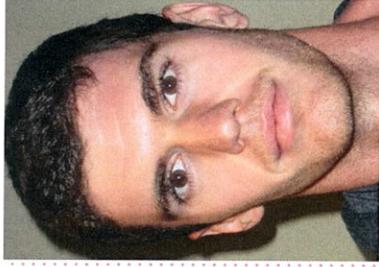


TSI Training Services International

Asbestos Building Inspector Initial

Certificate

This is to certify



Oliver Purcell

XXXX-XX-7816

has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Initial and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

Robert M. Walter

9/30/16

Expiration Date

9/28/15 - 9/30/15

Date(s) of Course

9/30/15

Examination Date

Cleveland, OH

Course Location



33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 60522 ii



TSI Training Services International

Asbestos Management Planner Initial

Certificate

This is to certify

Oliver Purcell

XXXX-XX-7816



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Initial and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

Robert Alletta

10/2/16

Expiration Date

10/1/15 - 10/2/15

Date(s) of Course

10/2/15

Examination Date

Cleveland, OH

Course Location

TSI

33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 60530 mpi



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

November 05, 2015

Oliver L Purcell
54 Old Yellow Springs Road Unit 11
Fairborn OH 45324

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES35952
Expiration Date: 11/05/2016

Dear Oliver L Purcell:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Kathy Butcher, Licensure Specialist, at 614-644-0226.

Sincerely,

Bill Robbins, Section Chief
Bureau of Licensure Operations
Office of Health Assurance and Licensing



Asbestos Hazard Evaluation Specialist



Oliver L Purcell

**54 Old Yellow Springs Road Unit 11
Fairborn OH 45324**

Certification Number **ES35952** Expiration Date **11/05/2016**

DOB: 07/12/1992

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is not valid if altered



TSI Training Services International

Asbestos Building Inspector Refresher

Certificate

This is to certify

Joseph D. Saunders

XXXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

4/30/16

4/30/15

4/30/15

Columbus, OH

Training Manager

Expiration Date

Date(s) of Course

Examination Date

Course Location

TSI

33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 58782 ir



TSI Training Services International

Asbestos Management Planner Refresher

Certificate

This is to certify

Joseph D. Saunders

XXXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3701-34 Ohio Administrative Code.

4/30/16

4/30/15

4/30/15

Columbus, OH

Training Manager

Expiration Date

Date(s) of Course

Examination Date

Course Location

TSI

33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438

15 TSI 58791 mpr



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

June 11, 2015

Joseph D Saunders
3072 Southdale Drive #2
Kettering OH 45409

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES34837
Expiration Date: 06/10/2016

Dear Joseph D Saunders:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Kathy Butcher, Licensure Specialist, at 614-644-0226.

Sincerely,

Bill Robbins, Section Chief
Bureau of Licensure Operations
Office of Health Assurance and Licensing

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Evaluation Specialist



Joseph D Saunders
3072 Southdale Drive #2
Kettering OH 45409

DOB: 02/09/1956 Certification Number: **ES34837** Expiration Date: **06/10/2016**

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701-34 of the Ohio Administrative Code Certification Card is not valid if altered