January 11, 2016

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

RE: Comprehensive Pre-Demolition Asbestos Survey, NOP TK-25, Vacant Residence, 2245 Benton Avenue, Dayton, OH, TKEC Project #TK-25B

Dear Mr. Zimmer:

On December 21, 2015, 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 2245 Benton Avenue in Dayton, Ohio (subject property). 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 December 21, 2015, 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 residence located at 2245 Avenue in Dayton, Ohio. Eleven (11) samples of suspect materials were collected from the residential structure. 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 twelve (12) samples. Laboratory analysis indicated that two (2) duct wrap samples and one (1) linoleum sample contained 1% or greater asbestos.

The linoleum observed in the house is a Category 1 Non-Friable material and will not have to be abated prior to demolition.

Approximately 130 SF of duct wrap will need to be abated prior to demolishing the home.

The plaster/skim coat compound sample that contained <1% asbestos, was subsequently analyzed by EPA PLM 400 Point Count. This sample was determined to contain <0.25% chrysotile asbestos and will not need to be abated.
No other suspect materials were observed in the structure that will require abatement.

The estimated cost for abating the duct wrap is $455.00.

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 client's 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 linoleum observed in the house is a Category 1 Non-Friable material and will not have to be abated prior to demolition.

Approximately 130 SF of duct wrap will need to be abated prior to demolishing the home.
The drywall/joint compound sample was determined to contain <1% asbestos by PLM EPA 600 and was analyzed by EPA PLM 400 Point Count to more accurately determine the asbestos content.

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:

- Duct Wrap, [Bedroom 2 and Basement], [Fair], [130 SF]
- Linoleum, [Kitchen], [Fair], [120 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: $N/A$

<table>
<thead>
<tr>
<th>Material</th>
<th>Estimated Quantity</th>
<th>Estimated Unit Costs</th>
<th>Estimated Costs</th>
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</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
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</table>

The estimated costs for asbestos consulting (specifications and on-site monitoring): $N/A$
ESTIMATED COSTS FOR NON-FRIABLE ACM LIKELY TO BECOME FRIABLE ABATEMENT

<table>
<thead>
<tr>
<th>Material</th>
<th>Estimated Quantity</th>
<th>Estimated Unit Costs</th>
<th>Estimated Costs</th>
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</thead>
<tbody>
<tr>
<td>Duct Wrap</td>
<td>130 SF</td>
<td>$3.50/SF</td>
<td>$455.00</td>
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</table>

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Estimated Quantity</th>
<th>Estimated Unit Costs</th>
<th>Estimated Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duct Wrap</td>
<td>130 SF</td>
<td>$3.50/SF</td>
<td>$455.00</td>
</tr>
<tr>
<td>Linoleum</td>
<td>120 SF</td>
<td>$3.50/SF</td>
<td>$420.00</td>
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</tbody>
</table>

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
<table>
<thead>
<tr>
<th>Sample #</th>
<th>Date</th>
<th>Color</th>
<th>Type</th>
<th>Location</th>
<th>Collected By</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Living Room</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-2</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Dining Room</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-3</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Kitchen</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-4</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Living Room Ceiling</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-5</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>2nd Floor Bedroom 1</td>
<td>OP/JS</td>
</tr>
<tr>
<td>2-1</td>
<td>12/21/15</td>
<td>Tan</td>
<td>Linoleum</td>
<td>Kitchen</td>
<td>OP/JS</td>
</tr>
<tr>
<td>3-1</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Duct Wrap</td>
<td>Bedroom 2</td>
<td>OP/JS</td>
</tr>
<tr>
<td>3-2</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Duct Wrap</td>
<td>Basement</td>
<td>OP/JS</td>
</tr>
<tr>
<td>4-1</td>
<td>12/21/15</td>
<td>Green</td>
<td>Roofing</td>
<td>Roof</td>
<td>OP/JS</td>
</tr>
<tr>
<td>5-1</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Window Glaze</td>
<td>Bedroom 2</td>
<td>OP/JS</td>
</tr>
<tr>
<td>5-2</td>
<td>12/21/15</td>
<td>Brown</td>
<td>Window Glaze</td>
<td>Living Room</td>
<td>OP/JS</td>
</tr>
</tbody>
</table>
ATTACHMENT 2

Bulk Sample Data Summary
## Table I - Bulk Sample Data Summary

### Project TK-25B

<table>
<thead>
<tr>
<th>Sample Description (Material Type)</th>
<th>Sample Location</th>
<th>NSHAP Category</th>
<th>ACM Type</th>
<th>Bulk Sample No.</th>
<th>Quantity</th>
<th>Asbestos Content</th>
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<tbody>
<tr>
<td>Plaster/Skim Coat</td>
<td>Living Room</td>
<td></td>
<td></td>
<td>1-1</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Plaster/Skim Coat</td>
<td>Dining Room</td>
<td></td>
<td></td>
<td>1-2</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Plaster/Skim Coat</td>
<td>Kitchen</td>
<td></td>
<td></td>
<td>1-3</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Plaster/Skim Coat - Plaster</td>
<td>Living Room Ceiling</td>
<td></td>
<td></td>
<td>1-4</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Plaster/Skim Coat - Skim Coat</td>
<td>Living Room Ceiling</td>
<td></td>
<td></td>
<td>1-4</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Plaster/Skim Coat</td>
<td>2nd floor Bedroom 1</td>
<td></td>
<td></td>
<td>1-5</td>
<td></td>
<td>&lt;1% Chrysotile</td>
</tr>
<tr>
<td>Linoleum</td>
<td>Kitchen</td>
<td>Cat I Non Friable</td>
<td>Misc.</td>
<td>2-1</td>
<td>120 SF</td>
<td>15% Chrysotile</td>
</tr>
<tr>
<td>Duct Wrap</td>
<td>Bedroom 2</td>
<td>Cat II Non Friable</td>
<td>Misc.</td>
<td>3-1</td>
<td>130 SF</td>
<td>65% Chrysotile</td>
</tr>
<tr>
<td>Duct Wrap</td>
<td>Basement</td>
<td>Cat II Non Friable</td>
<td>Misc.</td>
<td>3-2</td>
<td></td>
<td>35% Chrysotile</td>
</tr>
<tr>
<td>Roofing</td>
<td>Roof</td>
<td></td>
<td></td>
<td>4-1</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Window Glazing</td>
<td>Bedroom 2</td>
<td></td>
<td></td>
<td>5-1</td>
<td></td>
<td>NAD</td>
</tr>
<tr>
<td>Window Glazing</td>
<td>Living Room</td>
<td></td>
<td></td>
<td>5-2</td>
<td></td>
<td>NAD</td>
</tr>
</tbody>
</table>
## 2245 Benton
Pre-Demolition Asbestos Survey
Table II - Point Count Sample Data Summary

### Project TK-25B

<table>
<thead>
<tr>
<th>Homogeneous Area</th>
<th>Quantity &amp; Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sample Description (Material Type)</strong></td>
<td><strong>Sample Location</strong></td>
</tr>
<tr>
<td>Plaster/Skim coat</td>
<td>2nd Floor Bedroom 1</td>
</tr>
</tbody>
</table>
ATTACHMENT 3

Laboratory Data
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH 45373
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-25B
Job Name: 2245 Benton
Date Sampled: 12-21-2015
Date Analyzed: 12-30-2015
Report Date: 12-30-2015

AIHA EMPAT Laboratory ID# 188863
EPA Laboratory ID# VA01419

NVLAP Lab Code: 500096-0

AIHA Accredited Environmental Microbiology

Texas Dept. of State Health Services
Mold License: LAB1021
Asbestos License: 300435
December 30, 2015

Client Job Number: TK-25B
Client Job Name: 2245 Benton

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On December 23, 2015 we received 11 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
### HMC #15029545 - Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Ph.: (937) 335-8807 Fax.: (937) 339-4882

<table>
<thead>
<tr>
<th>Job Number: TK-25B</th>
<th>Job Name: 2245 Benton</th>
<th>Date Collected: 12/21/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collected by: J. Saunders</td>
<td></td>
<td>Date Received: 12/23/2015</td>
</tr>
<tr>
<td>Email: <a href="mailto:tke@turn-keyenvironmental.com">tke@turn-keyenvironmental.com</a></td>
<td></td>
<td>Date Reported: 12/30/2015</td>
</tr>
</tbody>
</table>

#### Sample 1-1: Cream Plaster/Skim Coat Living Room
- **Homogeneity:** Yes
- **Morphology/Macro Desc.:** Debris / White
- **Estimated % Asbestos:** (None Detected)
- **Non-asbestos % Fibers:** (None Detected)
- **Non-fibrous:** 100%
- **Notes:**

#### Sample 2-1: Cream Plaster/Skim Coat Dining Room
- **Homogeneity:** Yes
- **Morphology/Macro Desc.:** Plaster / Gray
- **Estimated % Asbestos:** (None Detected)
- **Non-asbestos % Fibers:** 2 % Hair
- **Non-fibrous:** 98%
- **Notes:**

#### Sample 3-1: Cream Plaster/Skim Coat Kitchen
- **Homogeneity:** Yes
- **Morphology/Macro Desc.:** Sheetrock-Like / White
- **Estimated % Asbestos:** (None Detected)
- **Non-asbestos % Fibers:** 8 % Cellulose fibers
- **Non-fibrous:** 92%
- **Notes:**

#### Sample 4-1: Cream Plaster/Skim Coat Living Room Ceiling
- **Homogeneity:** Yes
- **Morphology/Macro Desc.:** Rough Coat / Gray
- **Estimated % Asbestos:** (None Detected)
- **Non-asbestos % Fibers:** 3 % Hair
- **Non-fibrous:** 97%
- **Notes:**

---

Signature: [Signature]
Date: 12/30/2015
Reviewed by: [Signature]
Date: 12/30/2015

Page 3 of 6
<table>
<thead>
<tr>
<th>HMC ID Number: 15029545 - 4 - L2</th>
<th>Analysis Type: EPA 600/R-93, M-4/82-020 - 5 Day</th>
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</thead>
<tbody>
<tr>
<td>Sample Number: 1-4</td>
<td>Sample Name: Cream Plaster/Skim Coat Living Room Ceiling</td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td>Morphology/Macro Desc.: Skim Coat / White</td>
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<tr>
<td>Estimated % Asbestos:</td>
<td>Non-asbestos % Fibers: 100 %</td>
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<tr>
<td>(None Detected)</td>
<td>Non-fibrous</td>
</tr>
<tr>
<td>Notes</td>
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<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Sample Number: 1-5</td>
<td>Sample Name: Cream Plaster/Skim Coat 2nd Floor Bedroom 1</td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td>Morphology/Macro Desc.: Debris / Gray</td>
</tr>
<tr>
<td>Estimated % Asbestos:</td>
<td>Non-asbestos % Fibers: 2 %</td>
</tr>
<tr>
<td>&lt;1 % Chrysotile</td>
<td>Non-fibrous: 98 %</td>
</tr>
<tr>
<td>Notes</td>
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<tr>
<td>Sample Number: 2-1</td>
<td>Sample Name: Tan Linoleum Kitchen</td>
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<tr>
<td>Homogeneity: Yes</td>
<td>Morphology/Macro Desc.: Linoleum / Orange</td>
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<tr>
<td>Estimated % Asbestos:</td>
<td>Non-asbestos % Fibers: 65 %</td>
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<tr>
<td>15 % Chrysotile</td>
<td>Non-fibrous</td>
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<tbody>
<tr>
<td>Sample Number: 3-1</td>
<td>Sample Name: Grey Duct Wrap Bedroom 2</td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td>Morphology/Macro Desc.: Insulation / Gray</td>
</tr>
<tr>
<td>Estimated % Asbestos:</td>
<td>Non-asbestos % Fibers: 20 %</td>
</tr>
<tr>
<td>65 % Chrysotile</td>
<td>Non-fibrous</td>
</tr>
<tr>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>HMC ID Number: 15029545 - 8 - L1</td>
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<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Sample Number: 3-2</td>
<td></td>
</tr>
<tr>
<td>Sample Name: Grey Duct Wrap Basement</td>
<td></td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td></td>
</tr>
<tr>
<td>Morphology/Macro Desc.: Insulation / Gray</td>
<td></td>
</tr>
<tr>
<td>Estimated % Asbestos</td>
<td>Non-asbestos % Fibers</td>
</tr>
<tr>
<td>35 % Chrysotile</td>
<td>30 % Cellulose fibers</td>
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<tbody>
<tr>
<td>Sample Number: 4-1</td>
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</tr>
<tr>
<td>Sample Name: Green Roofing</td>
<td></td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td></td>
</tr>
<tr>
<td>Morphology/Macro Desc.: Roofing / Black</td>
<td></td>
</tr>
<tr>
<td>Estimated % Asbestos</td>
<td>Non-asbestos % Fibers</td>
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<tr>
<td>(None Detected)</td>
<td>15 % Fiberglass</td>
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<tbody>
<tr>
<td>Sample Number: 5-1</td>
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</tr>
<tr>
<td>Sample Name: Grey Window Glaze Bedroom 2</td>
<td></td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td></td>
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<tr>
<td>Morphology/Macro Desc.: Glazing / White</td>
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<td>Non-asbestos % Fibers</td>
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<td>(None Detected)</td>
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<th>Analysis Type: EPA 600/R-93, M-4/82-020 - 5 Day</th>
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<tbody>
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<td>Sample Number: 5-2</td>
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</tr>
<tr>
<td>Sample Name: Brown Window Glaze Living Room</td>
<td></td>
</tr>
<tr>
<td>Homogeneity: Yes</td>
<td></td>
</tr>
<tr>
<td>Morphology/Macro Desc.: Glazing / White</td>
<td></td>
</tr>
<tr>
<td>Estimated % Asbestos</td>
<td>Non-asbestos % Fibers</td>
</tr>
<tr>
<td>(None Detected)</td>
<td>(None Detected)</td>
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</tbody>
</table>
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.
<table>
<thead>
<tr>
<th>Sample Name</th>
<th>Analysis Type</th>
<th>Volume</th>
<th>TAT</th>
<th>Group #</th>
<th>Pos. Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Bulk Sample Log</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Analysis Type**

- **PLM**: EPA 800/R-33/116, M-4/02-020
- **PC**: EPA Point Count
- **NY**: NYSDOH ELAP 198.1, 198.6
- **PCM**: NIOSH 7400
- **TEM**: TEM Air (AHERA), TEM Bulk (Chatfield)

**Available Turn-Around Times**

- **3 Hour, Same Day**: 1 Day, 2 Day, 3 Day, 4 Day (5 Day)
- **Same Day**: 1 Day, 2 Day, 3 Day, 5 Day
- **1 Day**: 2 Day, 3 Day, 5 Day
- **1 Day, 2 Day**: 3 Day, 5 Day

**Relinquished**

*Signature: Saunders*

**Date**: 12/22/15

**Received By**: 12/23/15

---

**Company**: Turn-Key Environmental

**Address**: 714 Monument St., Dayton, OH 45402

**HMC #**: 029545

**Collector**: J. Saunders / O. Purcell

**Notes**: See Bulk Sample Log
<table>
<thead>
<tr>
<th>Sample #</th>
<th>Date</th>
<th>Color</th>
<th>Type</th>
<th>Location</th>
<th>Collected By</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Living Room</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-2</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Dining Room</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-3</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Kitchen</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-4</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>Living Room Ceiling</td>
<td>OP/JS</td>
</tr>
<tr>
<td>1-5</td>
<td>12/21/15</td>
<td>Cream</td>
<td>Plaster/Skim Coat</td>
<td>2nd Floor Bedroom 1</td>
<td>OP/JS</td>
</tr>
<tr>
<td>2-1</td>
<td>12/21/15</td>
<td>Tan</td>
<td>Linoleum</td>
<td>Kitchen</td>
<td>OP/JS</td>
</tr>
<tr>
<td>3-1</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Duct Wrap</td>
<td>Bedroom 2</td>
<td>OP/JS</td>
</tr>
<tr>
<td>3-2</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Duct Wrap</td>
<td>Basement</td>
<td>OP/JS</td>
</tr>
<tr>
<td>4-1</td>
<td>12/21/15</td>
<td>Green</td>
<td>Roofing</td>
<td>Roof</td>
<td>OP/JS</td>
</tr>
<tr>
<td>5-1</td>
<td>12/21/15</td>
<td>Grey</td>
<td>Window Glaze</td>
<td>Bedroom 2</td>
<td>OP/JS</td>
</tr>
<tr>
<td>5-2</td>
<td>12/21/15</td>
<td>Brown</td>
<td>Window Glaze</td>
<td>Living Room</td>
<td>OP/JS</td>
</tr>
</tbody>
</table>

ASBESTOS BULK SAMPLE LOG
Project - 2245 Benton
TKEC Job# TK-25B

209545

Rec'd @ 12/23/15
Analysis Report prepared for

**Turn-Key Environmental Consultants**

790 Barnhart Road  
Troy, OH 45373  
Ph.: (937) 335-8807 Fax.: (937) 339-4882

Job Number: TK-25B  
Job Name: 2245 Benton  
Date Sampled: 12-21-2015  
Date Analyzed: 01-07-2016  
Report Date: 11-30--0001

**AIHA EMPAT Laboratory ID# 188863**  
**EPA Laboratory ID# VA01419**

Texas Dept. of State Health Services  
Mold License: LAB1021  
Asbestos License: 300435
November 30, -0001

Client Job Number: TK-25B
Client Job Name: 2245 Benton

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On December 23, 2015 we received 1 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
## Asbestos PLM Analysis

### Job Information

- **Job Number:** TK-25B
- **Collected by:** J. Saunders
- **Email:** tke@turn-keyenvironmental.com
- **Job Name:** 2245 Benton
- **Date Collected:** 12/21/2015
- **Date Received:** 12/23/2015
- **Date Reported:** 11/30/-0001

### Sample Information

- **HMC ID Number:** 16000242 - 5 - L1
- **Analysis Type:** EPA 400 Point Count - 2 Day
- **Sample Number:** 1-5
- **Sample Name:** Cream Plaster/Skim Coat 2nd Floor Bedroom 1
- **Homogeneity:** Yes
- **Morphology/Macro Desc.:** Debris / Gray

### Estimated % Asbestos

<table>
<thead>
<tr>
<th>Estimated % Asbestos</th>
<th>Non-asbestos % Fibers</th>
<th>Non-fibrous</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;0.25 % Chrysotile</td>
<td>(None Detected)</td>
<td>100 %</td>
<td>Asbestos Observed Not In Counting Field.</td>
</tr>
</tbody>
</table>

### Signature

- **Signature:** [Signature]
- **Date:** 01/07/2016
- **Reviewed by:** [Reviewed by]
- **Date:** [Date]
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.
Dear Renaldo,

I would like EPA PLM 400 Point Count Analysis for the following samples:

15029533-7-L1
15029538-6-L3
15029546-1-L1
15029546-2-L1
15029546-3-L1
15029536-1-L1
15029536-2-L1
15029536-3-L1
15029536-5-L1
15029535-1-L1
15029535-2-L1
15029535-3-L1
15029535-4-L1
15029535-5-L1
15029534-9-L1
15029545-5-L1

Two (2) day TAT will be fine for these samples.

Thanks,

Joe Saunders

Turn-Key Environmental Consultants, Inc.
790 Barnhart Road
Troy, Ohio 45373
937-335-8807

714 East Monument Ave
Dayton, OH 45402

www.turn-keyenvironmental.com

Rec'd @ 01/04/16
1-1  Approximate Sample Location
1-1* Asbestos > 1%

Floor 1st
2245 Benton
TK-25B
1-1 Approximate Sample Location
1-1* Asbestos > 1%

Floor 2nd
2245 Benton
TK-25B
1-1 Approximate Sample Location

1-1* Asbestos > 1%

Floor Basement
2245 Benton
TK-25B
<table>
<thead>
<tr>
<th>Address</th>
<th>Sample 1-1 Plaster/Skim Coat</th>
<th>Sample 1-2 Plaster/Skim Coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>2245 Benton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample 1-3 Plaster/Skim Coat</td>
<td>Sample 1-4 Plaster/Skim Coat</td>
<td>Sample 1-5 Plaster/Skim Coat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample 2-1 Tan Linoleum</td>
<td>Sample 3-1 Duct Wrap</td>
<td>Sample 3-2 Duct Wrap</td>
</tr>
<tr>
<td>Sample 5-2 Window Glazing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ATTACHMENT 5

Inspector’s Certification
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
In accordance with 29 CFR Part 1926.85, the above designated employee has successfully completed the training course. The training course is approved by the Ohio Fire Marshal's Office.

The above designated employee has successfully completed the training course. The training course is approved by the Ohio Fire Marshal's Office.

This certificate is valid for the above employee for the course "Asbestos Building Inspector Refresher Training Services International".
<table>
<thead>
<tr>
<th>Course Location</th>
<th>Examination Date</th>
<th>Date(s) of Course</th>
<th>Expiration Date</th>
<th>Trainer Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus, OH</td>
<td>4/30/15</td>
<td>4/30/15</td>
<td>4/30/16</td>
<td></td>
</tr>
</tbody>
</table>

Indiana requirements under 326 I.C. 18-2 and Chapter 3701-34 Ohio Administrative Code (AHFRA). The above student received the required training for asbestos abatement under Title II of the Toxic Substances Control Act and Subpart A of 40 CFR Part 763. The student has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner.

Certificate

Asbestos Management Planner Refresher

Training Services International
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 Building Inspector Initial

Certificate

This is to certify

Oliver Purcell
XXX-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.

______________________________  9/30/16  9/28/15 - 9/30/15  9/30/15
Training Manager  Expiration Date  Date(s) of Course  Examination Date

Cleveland, OH

15 TSI  60522  ii

TSI
33150 Lakeland Blvd.
Cleveland, OH 44095
1-866-666-8438
Asbestos Management Planner Initial

Certificate

This is to certify

Oliver Purcell

XXX-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 J. Walker
Training Manager

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