



# **HART ENVIRONMENTAL RESOURCES**

262 Hedge Dr. Springfield, OH 45504 (937) 325-8777 (937) 324-0288 FAX

## **ASBESTOS INSPECTION REPORT**

**1131 W. Second St.  
Dayton, OH 45402**



### **PREPARED FOR:**

**Mr. Dennis Zimmer  
City of Dayton  
Building Services  
Nuisance Abatement & Rehabilitation Supervisor  
371 W. 2<sup>nd</sup> St., Room 324  
Dayton, OH 45402  
937-333-3982**

### **PREPARED BY:**

**Lynda M. Hart  
Asbestos Hazards Evaluation Specialist  
Ohio #ES-32558  
Feb 17, 2014**

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# HART ENVIRONMENTAL RESOURCES

262 Hedge Dr. Springfield, OH 45504 (937) 325-8777 (937) 324-0288 FAX

February 17, 2014

Mr. Dennis Zimmer  
City of Dayton  
Building Services  
Nuisance Abatement & Rehabilitation Supervisor  
371 W. 2<sup>nd</sup> St., Room 324  
Dayton, OH 45402

Re: Asbestos Inspection  
1131 W. Second St.  
Dayton, OH 45402

Dear Mr. Zimmer,

Hart Environmental Resources prepared this report, under contract with the City of Dayton, Ohio, for the asbestos inspection conducted at 1131 W. Second St., Dayton, OH. The inspection, conducted on February 3, 2014, was completed utilizing applicable Federal and Ohio State regulations pertaining to asbestos: Federal OSHA (29 CFR 1910.1001 and 29 CFR 1926.1101), EPA (40 CFR Part 61), and TSCA Title II AHERA/ASHARA (40 CFR Part 763) Asbestos Regulations. The findings in this report are consistent with accepted principles and practice established and prescribed by the EPA and AHERA.

All accessible areas of the home at 1131 W. Second St. were inspected physically, functional space by functional space, and homogeneous area by homogeneous area to determine the presence of asbestos-containing materials. Suspect materials that may be present inside wall cavities, electrical wiring or which were otherwise inaccessible were not included in the scope of this inspection. Core samples of friable and non-friable suspect asbestos-containing materials were collected. A site diagram, with the location of each sample, was made. The bulk samples were placed in zip-lock bags, sealed, and labeled with an identifying code. The samples, along with the chain-of-custody, were then submitted to the laboratory Environmental Hazards Services, Inc., to be analyzed for asbestos content.

The home is a two-story structure, with a basement. The exterior is wood. The interior walls are finished with paneling and plaster. Twelve (12) wood windows have been installed in the home. The heating system has been removed and there is no duct work present. The pitched roof is covered with asphalt shingles.

Hart Environmental Resources identified three (3) suspect asbestos-containing materials in the accessible areas of the structure.

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## Analytical Results

HER Sample # Lab Sample #	Amount	Layers	Description/Sample Location	Condition	PLM Result (% Asbestos)
1131S-01 14-02-00719-001	-	2	Plaster, Dining Room, Wall B, Inhomogenous	Non-friable	None Detected
1131S-02 14-02-00719-002	-	2	Plaster, Living Room Wall D, Inhomogenous	Non-friable	None Detected
1131S-03 14-02-00719-003	-	3	Plaster, Bedroom 1, Wall C, Inhomogenous	Non-friable	None Detected
1131S-04 14-02-00719-004	-	3	Plaster, Bedroom 3, Wall D, Inhomogenous	Non-friable	None Detected
1131S-05 14-02-00719-005	-	2	Plaster, Bath, Wall A, Inhomogenous	Non-friable	None Detected
1131S-06 14-02-00719-006	-	3	Shingles, Roof, Inhomogenous	Non-friable	None Detected
1131S-07 14-02-00719-007	-	3	Shingles, Roof, Inhomogenous	Non-friable	None Detected
1131S-08 14-02-00719-008 14-02-00838-001	1	1	Window glazing, Bedroom 3, Wall D, Homogenous	Friable	<b>3% Chrysotile Detected</b> (PC=1.75%)
1131S-09 14-02-00719-009 14-02-00838-002	1	1	Window glazing, Kitchen, Wall D, Homogenous	Friable	<b>3% Chrysotile Detected</b> (PC=2.25%)

## Discussion and Recommendations

Nine (9) bulk samples of suspect asbestos-containing materials were collected in the accessible areas of the structure. Per current EPA regulations, Category I Non-Friable materials, including bituminous roofing materials, resilient floor coverings and gaskets do not need to be removed prior to the demolition of homes, as long as it does not become friable during the demolition process.

The analytical results found the following items to contain greater than 1% asbestos fibers:

- Window glazing

Confirmed or assumed asbestos-containing materials, which will be disturbed during demolition activities, are regulated under current Federal and State regulations. Hart Environmental Resources recommends the removal of these materials by a licensed asbestos abatement contractor. It is also strongly recommended that the specifications for the removal program be developed by a licensed Asbestos Project Designer to ensure that all regulatory requirements are satisfied. The work should be properly documented in the event of future litigation.

An Ohio EPA Notification of Demolition and Renovation form must be completed and submitted to the Regional Air Pollution Control Agency (RAPCA) at least ten working days prior to the commencement of any abatement or demolition activity. The amount, type and condition of the asbestos-containing materials found in this inspection, as well as the materials

assumed to be asbestos-containing materials, must be noted on the form. The name and certification number of the asbestos inspector, Lynda M. Hart, #ES32558, must be included. Hart Environmental Resources estimates the cost associated with the removal of the confirmed asbestos-containing materials to be as follows:

<u>Material</u>	<u>Est. Qty.</u>	<u>Est. Unit Cost</u>	<u>Est. Cost</u>
Window Glazing	12	\$ 25/ea	\$ 300

Estimated costs are based on local, current prevailing wages and do not include costs for planning, permitting, specification development, contractor oversight or air monitoring.

Additional suspect asbestos-containing materials may be hidden in uninspected or inaccessible areas, such as pipe chases, duct chases or wall cavities. If any additional suspect materials are encountered in these locations, the material should be left undisturbed and kept intact until they can be inspected and sampled by a licensed Asbestos Abatement Evaluation Specialist. Hart Environmental Resources will be happy to return to the site if additional suspect materials are encountered during the demolition activity. The other options, is to assume that the material is asbestos-containing and have it abated as such.

This report, and the supporting data, findings, conclusions, opinions, and the recommendations it contains, represents the result of Hart Environmental Resources' efforts on behalf of the City of Dayton. This report is not an asbestos abatement specification and should not be used for specifying removal methods or techniques. The results, assessments, conclusions and recommendations stated in this report are factually representative of the conditions and circumstances observed at this location on the date of the inspection. We cannot assume responsibility for any change in conditions or circumstances that occurred after the inspection. This report and its findings and recommendations, if implemented by the City of Dayton, should not be construed as an assurance or implied warranty for the continuing safety, performance, or cost-effectiveness of any equipment, product, system, facility, procedure, or policy discussed or recommended herein.

Recommendations are based on the professional judgment of the inspector and the results of the samples collected and analyzed. Hart Environmental Resources makes no warranty, expressed or implied, and accepts no liability for the presence or absence of asbestos or other hazardous materials in or on building products, materials or areas. Hart Environmental Resources assumes no responsibility for the cost of repairing, replacing or removing any undiscovered or unreported condition or defect, or any future condition or defect.

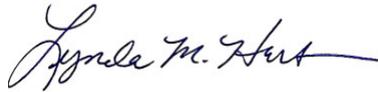
Based on the findings of this survey, Hart Environmental Resources recommends the following:

- **Maintain copies of the information from this asbestos inspection at the site during the demolition operations.** This information should also be maintained by the City of Dayton in an off-site file to document property completion of the inspection prior to the building demolition.

- **Asbestos-containing materials should not be disturbed or removed except by properly trained, certified and equipped personnel in accordance with the requirements of an asbestos abatement specification developed for this project.**
- **Air monitoring should be performed during any work that disturbs the integrity of identified asbestos-containing materials, in accordance with the OSHA regulations.** Air monitoring should be performed by a certified asbestos hazards evaluation specialist or a certified industrial hygienist.
- **An Ohio EPA Notification of Demolition and Renovation form should be completed and submitted to the Regional Air Pollution Control Agency (RAPCA) at least ten working days prior to the start of any abatement or demolition activity.** This form should list the amount of Category I Non-Friable materials, which will not be removed, as well as the amount of regulated asbestos-containing materials, which will be removed prior to the demolition activity.

If you have any questions or concerns with this inspection please do not hesitate to contact me.

Sincerely,



Lynda M. Hart, REM

President

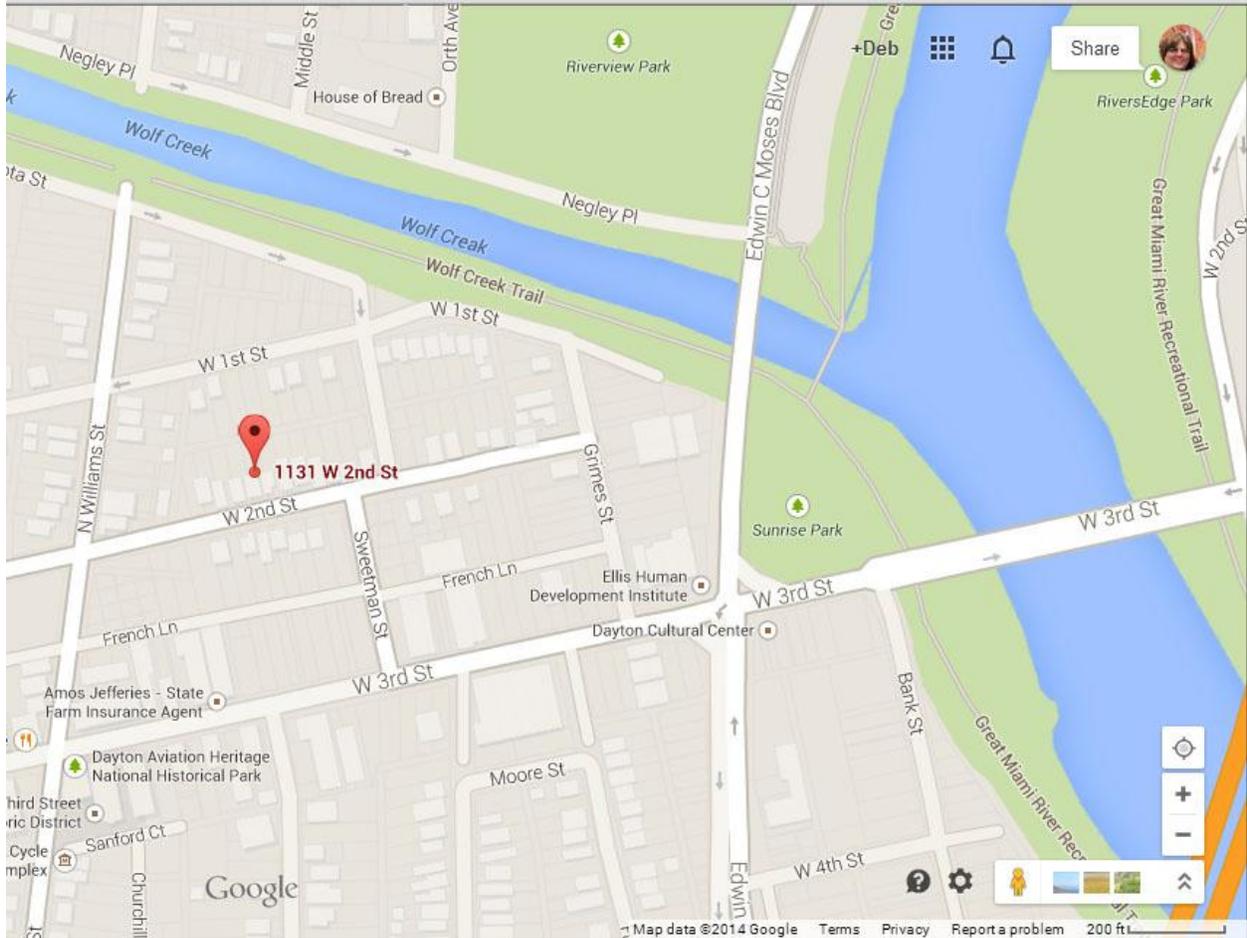
*Registered Environmental Manager, #7928*

*Asbestos Hazards Evaluation Specialist, State of Ohio, #ES32558*

Attachments

- |              |                            |
|--------------|----------------------------|
| Attachment 1 | Site Location Map          |
| Attachment 2 | Site Inspection Work Sheet |
| Attachment 3 | Photographs                |
| Attachment 4 | Laboratory Results         |
| Attachment 5 | Work Order                 |

**ATTACHMENT 1**  
**SITE LOCATION MAP**

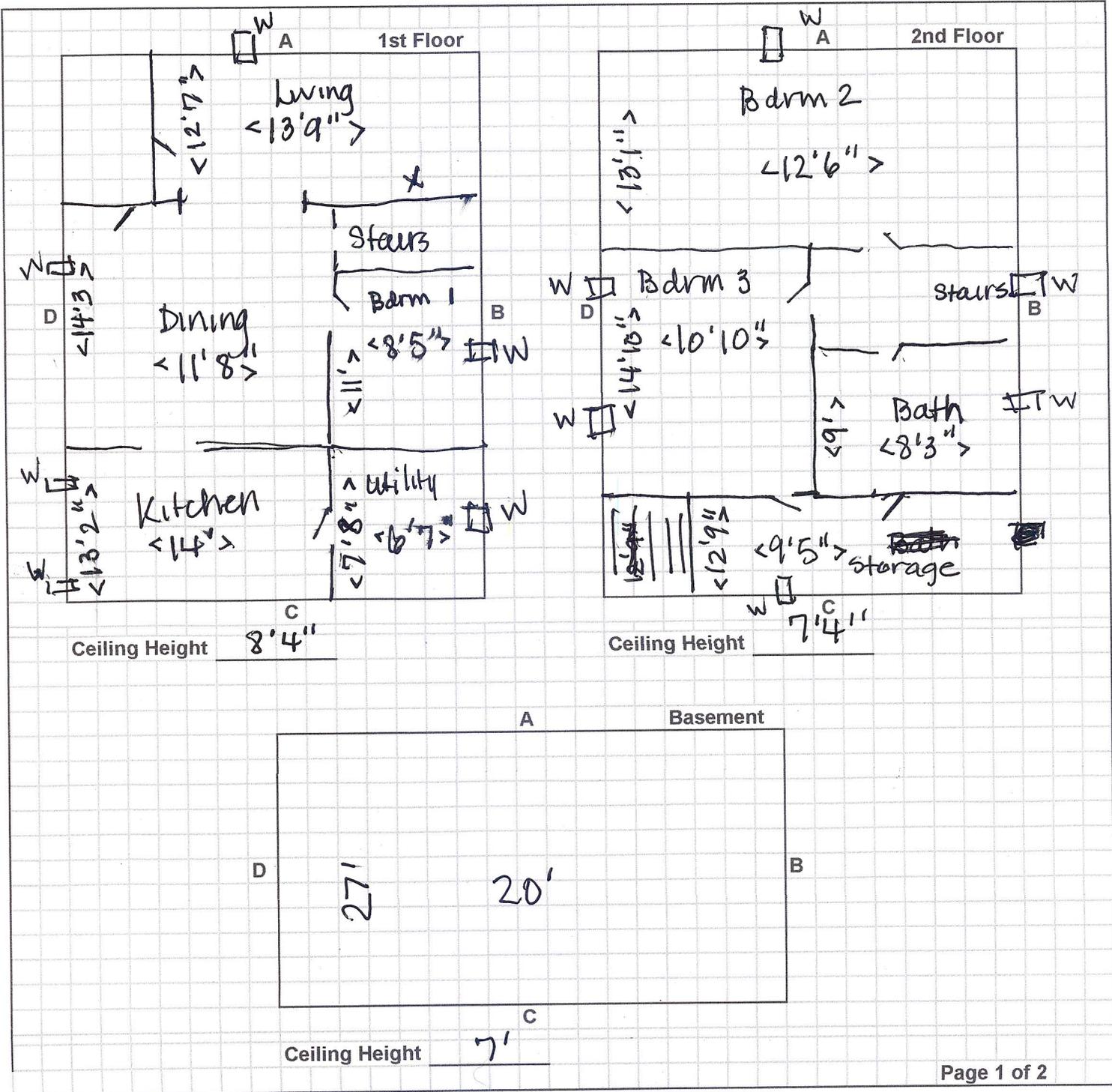


**ATTACHMENT 2**

**SITE INSPECTION WORK SHEET**

Site 1131 W. Second City Dayton State OH Zip \_\_\_\_\_

Structure  
 Levels: 1 \_\_\_\_\_ 2  3 \_\_\_\_\_ Other \_\_\_\_\_ Foundation: Slab \_\_\_\_\_ Crawl \_\_\_\_\_ Basement   
 Exterior: Wood  Over \_\_\_\_\_ Vinyl \_\_\_\_\_ Aluminum \_\_\_\_\_ Transite \_\_\_\_\_ Brick \_\_\_\_\_ Other \_\_\_\_\_  
 Interior Walls: Drywall \_\_\_\_\_ Plaster  Paneling  Other \_\_\_\_\_  
 Flooring: Linoleum/Vinyl SA Kitchen/utility Linoleum/Vinyl \_\_\_\_\_ Linoleum/Vinyl \_\_\_\_\_  
 Windows: Wood  Vinyl \_\_\_\_\_ Metal \_\_\_\_\_ Other \_\_\_\_\_ Number of Windows 12 wood  
 Heating: GFA \_\_\_\_\_ Hot Water \_\_\_\_\_ Other \_\_\_\_\_ Duct Work Yes /  No Seam Tape Yes /  No  
 Roofing: Asphalt Shingles  Transite Shingles \_\_\_\_\_ Metal \_\_\_\_\_ Other \_\_\_\_\_





**ATTACHMENT 3**

**PHOTOGRAPHS**



Photo 1: Plaster (1131S-1) Dining Room, Wall B. No Asbestos Detected.



Photo 2: Plaster (1131S-2) Living Room Wall D. No Asbestos Detected.



Photo 3: Plaster (1131S-3) Bedroom 1, Wall C. No Asbestos Detected.

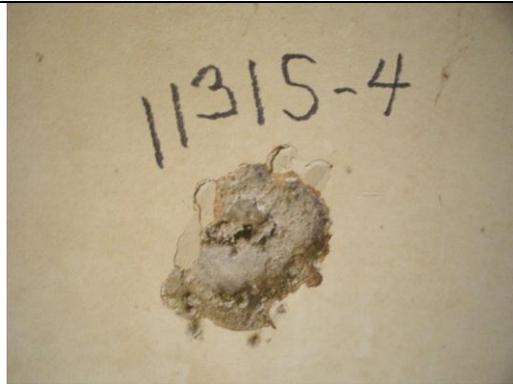


Photo 4: Plaster (1131S-4) Bedroom 3, Wall D. No Asbestos Detected.



Photo 5: Plaster (1131S-5) Bath, Wall A. No Asbestos Detected.

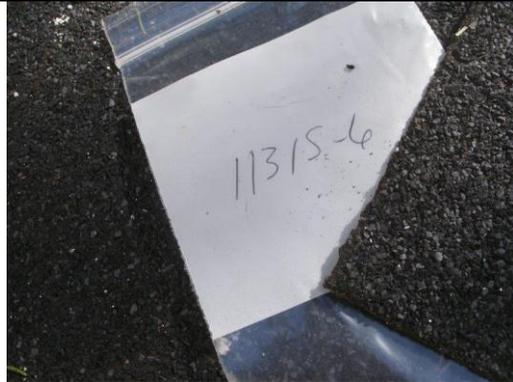


Photo 6: Shingles (1131S-6) Roof. No Asbestos Detected.



**Photo 7: Shingles (1131S-7) Roof. No Asbestos Detected.**



**Photo 8: Window glazing (1131S-8) Bedroom 3, Wall D. 3% Chrysotile (PC=1.75%) Asbestos Detected.**



**Photo 9: Window glazing (1131S-9) Kitchen, Wall D. 3% Chrysotile (PC=2.25%) Asbestos Detected.**

# **ATTACHMENT 4**

## **LAB RESULTS**



# Asbestos Bulk Analysis Report

Environmental Hazards Services, L.L.C.  
7469 Whitepine Rd  
Richmond, VA 23237  
Telephone: 800.347.4010

Report Number: 14-02-00719

Client: Hart Environmental Resources  
262 Hedge Drive  
Springfield, OH 45504

Received Date: 02/07/2014  
Analyzed Date: 02/07/2014  
Reported Date: 02/10/2014

Project/Test Address: City of Dayton; 1131 W. Second St.

Client Number:  
36-5620

Fax Number:  
937-324-0288

## Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-02-00719-001	1131S-1		Pale Gray Cementitious; White/Multi-Colored Brittle; Inhomogeneous	NAD	3% Hair 97% Non-Fibrous
14-02-00719-002	1131S-2		Pale Gray Cementitious; White/Multi-Colored Brittle; Inhomogeneous	NAD	3% Hair 97% Non-Fibrous
14-02-00719-003	1131S-3		Pale Gray Cementitious; White/Green Brittle; Tan Fibrous; Inhomogeneous	NAD	4% Cellulose 2% Hair 94% Non-Fibrous
14-02-00719-004	1131S-4		Pale Gray Cementitious; White/Pale Pink/Green Brittle; Tan Fibrous; Inhomogeneous	NAD	5% Cellulose 3% Hair 92% Non-Fibrous

# Environmental Hazards Services, L.L.C

Client Number: 36-5620

Report Number: 14-02-00719

Project/Test Address: City of Dayton; 1131 W. Second St.

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-02-00719-005	1131S-5		Pale Gray Cementitious; White/Multi-Colored Brittle; Inhomogeneous	NAD	3% Hair 97% Non-Fibrous
14-02-00719-006	1131S-6		Black Pliable to Brittle; Black Fibrous; Dark Gray Aggregate; Inhomogeneous	NAD	22% Fibrous Glass 78% Non-Fibrous
14-02-00719-007	1131S-7		Black Pliable to Brittle; Black Fibrous; Dark Gray Aggregate; Inhomogeneous	NAD	22% Fibrous Glass 78% Non-Fibrous
14-02-00719-008	1131S-8		Off-White to Pale Beige Brittle; Homogeneous	3% Chrysotile	1% Talc 96% Non-Fibrous
				Total Asbestos: 3%	
14-02-00719-009	1131S-9		Off-White to Pale Beige Brittle; Homogeneous	3% Chrysotile	1% Talc 96% Non-Fibrous
				Total Asbestos: 3%	

# Environmental Hazards Services, L.L.C

Client Number: 36-5620

Report Number: 14-02-00719

Project/Test Address: City of Dayton; 1131 W. Second St.

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Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
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QC Sample: 62-NY-33-2392

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Mark Case

Reviewed By Authorized Signatory:



*Howard Varner*  
General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

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LEGEND: NAD = no asbestos detected

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## Analyst Signature Page

Environmental Hazards Services, L.L.C.  
7469 Whitepine Rd  
Richmond, VA 23237  
Telephone: 800.347.4010

Report Number: 14-02-00719

Client: Hart Environmental Resources  
262 Hedge Drive  
Springfield, OH 45504

Received Date: 02/07/2014  
Analyzed Date: 02/07/2014  
Reported Date: 02/10/2014

Client Number: 36-5620

Project/Test Address: City of Dayton; 1131 W. Second St.

Analyst(s)

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A handwritten signature in black ink, appearing to read "Mark Case", with a long horizontal flourish extending to the right.

Mark Case





# Asbestos 400 Point Count Analysis Report

Environmental Hazards Services, L.L.C.  
7469 Whitepine Rd  
Richmond, VA 23237  
Telephone: 800.347.4010

Report Number: 14-02-00838

Client: Hart Environmental Resources  
262 Hedge Drive  
Springfield, OH 45504

Received Date: 02/07/2014  
Analyzed Date: 02/07/2014  
Reported Date: 02/11/2014

Project/Test Address: City of Dayton; 1131 W. Second St.; EHS# 14-02-00719

Client Number:  
36-5620

## Laboratory Results

Fax Number:  
937-324-0288

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
14-02-00838-001	1131S-8	Off-White to Pale Beige Brittle	1.75 % Chrysotile	
14-02-00838-002	1131S-9	Off-White to Pale Beige Brittle	2.25 % Chrysotile	

Reporting Limit: 0.25 % Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Mark Case

Reviewed By Authorized Signatory:

Tasha Eaddy  
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND NAD = No Asbestos Detected



## Analyst Signature Page

Environmental Hazards Services, L.L.C.  
7469 Whitepine Rd  
Richmond, VA 23237  
Telephone: 800.347.4010

Report Number: 14-02-00838

Client: Hart Environmental Resources  
262 Hedge Drive  
Springfield, OH 45504

Received Date: 02/10/2014  
Analyzed Date: 02/07/2014  
Reported Date: 02/11/2014

Client Number: 36-5620

Project/Test Address: City of Dayton; 1131 W. Second St.; EHS# 14-02-00719

Analyst(s)

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A handwritten signature in black ink, appearing to read "Mark Case", with a long horizontal flourish extending to the right.

Mark Case





# **ATTACHMENT 5**

## **WORK ORDER**



## NUISANCE ABATEMENT NOTICE OF POSSESSION

**NOP # 28**

February 18, 2014

HART ENVIRONMENTAL, INC.  
262 Hedge Drive  
Springfield, OH 45504

CT12-0330

Subject: 2012 NAP RESIDENTIAL ASBESTOS SURVEY AND POST  
ABATEMENT VERIFICATION INSPECTIONS 1 GENERAL FUNDS

This Transmittal is **Notice of Possession #28** for the performance of asbestos surveys on the properties listed herein.

A Notice of Possession under this agreement hereby gives you possession of the entire parcel(s) including the structures and all contents for the purpose of performance of asbestos surveys.

Address	Lot#	Type
118 Rockwood	20061	Two Story w/Basement
1005 Roseland	67350pt	One Story w/Slab
2037 Rugby	44262	Two Story w/Basement
2949 Sage	64544	Two Story w/Basement
1609 Salem	28667	One Story w/Basement
136-38 Samuel	4232	Two Story w/Basement/Dbf
1131 W Second	15226	Two Story w/Basement
2822 E Second	15720	Two Story w/Basement
4508 St. Johns	69404-5pts	One Story w/Crawl

This Notice of Possession becomes effective at 12:01 a.m. Eastern Standard Time in Ohio on **October 7, 2013** which is established as the beginning date of survey activities on these parcels. **Furthermore, the time for completion is 13 working days, or October 24, 2013.**

Sincerely,

Dennis Zimmer, Acting Supervisor  
Nuisance Abatement and  
Rehabilitation Division

DZ: