



**CUY-90-14.90**

**PID 77332/85531**

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**APPENDIX EC-13**

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**Regulated Materials Investigation for Parcel 622  
(Contract Document)**

State of Ohio  
Department of Transportation  
Jolene M. Molitoris, Director

**Innerbelt Bridge  
Construction Contract Group 1 (CCG1)**

Revision Date: March 17, 2010

***FINDINGS OF A REGULATED  
MATERIALS INVESTIGATION***

***The White Properties Building  
1996 West 3<sup>rd</sup> Street, Cleveland, Cuyahoga County, Ohio  
[CUY-Innerbelt CCG1 Design/PID 77332]***

MARCH 2010

Prepared for:

Ohio Department of Transportation  
District 12  
5500 Transportation Boulevard  
Garfield Heights, OH 44125

Prepared by:



**HZW ENVIRONMENTAL**  
CONSULTANTS, LLC

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**HZW ENVIRONMENTAL**  
CONSULTANTS, LLC

March 17, 2010

Mr. Mark Carpenter  
ODOT District 12  
5500 Transportation Boulevard  
Garfield Heights, Ohio 44125

***Subject: Report of Findings of a Regulated Materials Investigation Conducted at The White Properties Building Located at 1996 West 3<sup>rd</sup> Street, Cleveland, Cuyahoga County, Ohio (H10002-03)***

Dear Mr. Carpenter:

HZW Environmental Consultants, LLC (HzW) is pleased to submit this letter report which presents the findings of a Regulated Materials Investigation conducted at The White Properties building located at 1996 West 3<sup>rd</sup> Street, Cleveland, Cuyahoga County, Ohio, herein referred to as the "subject building". The purpose of the Regulated Materials Investigation was to identify building materials that contain asbestos, regulated hazardous materials, as well as document the presence of any aboveground and underground storage tanks not previously identified at the subject building prior to the building being manually demolished.

#### **METHODS OF INVESTIGATION**

##### ***URS Phase II ESA Review & Visual Inspection for ASTs/USTs***

As part of the Regulated Materials Investigation, HzW reviewed the findings of URS's Phase II Environmental Site Assessment (ESA) report. In addition to this review, HzW performed a visual inspection of the subject building to identify any aboveground and/or underground storage tanks that had not been previously identified as part of the Phase II ESA findings. Any such findings were documented by HzW as part of our Regulated Materials Investigation.

##### ***Asbestos Survey***

During February 2010, representatives of HzW certified as Asbestos Hazard Emergency Response Act (AHERA) building inspectors and as Asbestos Hazard Evaluation Specialists (AHES), performed the asbestos survey. These certifications are required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and Ohio Department of Health (ODH) regulations.

The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP regulations require no specific survey protocol be followed; however, AHERA protocol is recommended. Therefore, the asbestos survey at the subject building was conducted in accordance with AHERA protocol, which initially requires that all homogeneous areas of building materials located in a building and suspected of containing asbestos be identified. A homogeneous area is a building material/area that is uniform in texture, color, date of application, use or system and appears identical in every other respect. Once all homogeneous areas are identified, functional spaces in which these homogeneous areas exist are subsequently identified. Within each functional space, the AHERA category, condition, quantity, and location of each suspect material is determined.

AHERA classifies friable building materials into the following three (3) categories: surfacing materials, thermal system insulation (TSI) and miscellaneous materials. A friable building material is defined as a material that can be crumbled, pulverized, or reduced to powder by hand pressure. It should be noted that nonfriable building materials are often included by building inspectors under the miscellaneous materials category. Examples of surfacing materials include fireproofing and acoustical plaster. TSI can include, but is not limited to, the following: pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation. Miscellaneous materials can include, but are not limited, to the following: ceiling tile, drywall and joint compound, floor tile and mastic, roofing materials and transite.

In determining the condition of the material the following guidelines are used.

General Damage Category	AHERA Damage Category	Criteria
Good	No Damage	No Damage
Fair	Damage	Up to 10% overall damage Up to 25% localized damage
Poor	Significant Damage	Over 10% overall damage Over 25% localized damage

The bulk sampling protocol is based on the AHERA category assigned to a specific homogeneous area and the quantity of that homogeneous area identified. For **surfacing materials** if the size of the homogeneous sampling area is less than 1,000 square feet (ft<sup>2</sup>) then a minimum of three (3) samples are collected. If the size of the homogeneous sampling area is between 1,000 and 5,000 ft<sup>2</sup> then a minimum of five (5) samples are collected. If the size of the homogeneous sampling area is greater than 5,000 ft<sup>2</sup> then a minimum of seven (7) samples are collected. For **TSI**, at least three (3) samples are collected from each homogeneous area with the following exceptions:

- One (1) sample will only be collected from a small section (less than six linear or square feet) of patched insulation,
- The number of samples taken from each area of insulating cement (mudded fittings such as fittings, tees, and valves) will be determined by the inspector. The current rule of thumb is generally accepted as three (3) samples, and
- Fibrous glass, foam glass, rubber and styrofoam are not considered suspect materials, unless they potentially cover up an asbestos containing material.

**Miscellaneous and nonfriable materials** are sampled in a manner sufficient as determined by the inspector. However, the recommended number of samples for these categories of materials is two (2).

During HzW's survey of the subject building, all accessible homogeneous areas of building materials suspected of containing asbestos were identified and the functional spaces in which they were located were documented. Thirty-nine (39) homogeneous areas of building materials suspected of containing asbestos were identified. A total of one hundred eight (108) bulk samples were collected from twenty-eight (28) of the homogeneous areas identified. The twenty-eight (28) homogeneous areas sampled consisted of the following: ceiling plaster (2 types), wall plaster, ceiling drywall, ceiling tile (8 types), drywall system (3 types), floor tile/mastic (2 types), pipe insulation, mud fitting insulation, boiler insulation, boiler gasket rope insulation, textured drywall wall, roofing material, and window glazing (5 types). All homogeneous areas sampled were considered to be in good condition at the time of the survey except for the following: boiler insulation and associated debris, one (1) type of floor tile/mastic and window glazing. The remaining eleven (11) homogeneous areas not sampled and assumed to contain asbestos consist of the following: vibration dampener, stair tread cover/mastic, floor sheeting (2 types), floor tile/mastic, cove base/mastic (2 types), sink bottom coating, drinking fountain tar insulation, built-up roof decking and tarred roof flashing.

The bulk samples collected were submitted to International Asbestos Testing Laboratories (IATL) of Mt. Laurel, New Jersey, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. In accordance with the United States EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP), ACMs identified by PLM as containing less than 10 percent asbestos were subsequently analyzed by point count methodology.

### ***Hazardous Materials***

During February 2010, representatives of HzW performed a walkthrough of the subject building to identify and quantify any hazardous materials. In addition, those materials not classified under law as hazardous but should, under sound risk management practice, be noted, were also identified and quantified.

Fluorescent light ballasts suspected of containing PCB oils were identified and subsequently documented. These oils were not tested; therefore, they were assumed to contain PCBs. All fluorescent light ballasts that could be visually observed were quantified and documented.

Fluorescent light bulbs including high intensity discharge (HID) lamps and batteries suspected of containing regulated metals (i.e. mercury), and any additional suspect mercury-containing equipment was also visually identified, quantified and documented throughout the subject buildings. No testing of these materials was performed; therefore, they were assumed to contain regulated metals.

Refrigerants suspected of containing Freon (i.e. air conditioners, refrigerators, drinking fountains, etc.) were visually identified, quantified and documented throughout the subject building.

## FINDINGS

A photographic log depicting various views of the subject building has been compiled by HzW and is included as **Attachment 1**.

### *URS Phase II ESA Review & Visual Inspection for ASTs/USTs*

The URS Phase II ESA indicated that "several probable USTs" are likely located on The White Properties site based on the findings of a geophysical survey. Additionally, the URS Phase II ESA indicated that, in locations where soil and groundwater samples were collected, soil and groundwater analytical results did not exceed Ohio EPA's Voluntary Action Program (VAP) Generic Direct Contact Soil Standards for commercial/industrial land use or construction/excavation activities or the State of Ohio Bureau of Underground Storage Tank Regulations (BUSTR) Closure Action Levels for soil analytical results, or VAP Generic Unrestricted Potable Use Standards or BUSTR Closure Action Levels for groundwater analytical results.

Based on the findings of the visual inspection conducted in February 2010, HzW identified no ASTs or any evidence indicating USTs, not previously identified by URS, at The White Properties site.

### *Asbestos Survey*

HzW's Asbestos Bulk Sampling Information form which documents the bulk sampling locations, each sample's characterization (homogeneous area and functional space), its AHERA category, the quantity and condition, and its asbestos content is included as **Attachment 2** for the subject building. A copy of the laboratory analytical report from IATL for the bulk samples collected at the subject building is included as **Attachment 3**. A site sketch of the subject building is included as **Attachment 4**.

Based on the findings of the laboratory analytical report for the subject building and HzW's visual inspection, the following asbestos-containing materials and assumed asbestos-containing materials were identified:

#### Two-Story Office Area

1. Approximately 2,100 square feet of floor tile (12-inch by 12-inch, Dark Brown) and its associated mastic were identified as containing 10 percent asbestos and from 1.2 to 1.3 percent asbestos, respectively.
2. Approximately 904 linear feet of pipe and fitting insulation was identified as containing from 20 to 50 percent asbestos and from 0 to 50 percent asbestos, respectively.
3. Approximately 30 square feet (9 Windows) of window glazing in poor condition located on metal windows was identified as containing from 0 to 1.2 percent asbestos.
4. Approximately 2 square feet of a vibration dampener was assumed to contain asbestos.
5. Approximately 76 square feet of stair tread cover (green) and its associated mastic (on Wood) was assumed to contain asbestos.
6. Approximately 1,515 square feet of floor sheeting (green) with tar paper (on Wood) was assumed to contain asbestos.
7. Approximately 80 square feet of floor tile (9-inch by 9-inch, green), tar paper, and mastic (on Wood) was assumed to contain asbestos.

8. Approximately 20 square feet of cove base (3-inch, black) and mastic was assumed to contain asbestos.
9. Approximately 4 square feet of sink bottom coating (black) was assumed to contain asbestos.
10. Approximately 192 square feet of floor sheeting (yellow) (on Wood) was assumed to contain asbestos.
11. Approximately 64 square feet of cove base (4-inch, black) was assumed to contain asbestos.

Warehouse

1. Approximately 110 square feet of boiler insulation in poor condition was identified as containing 40 percent asbestos. It should be noted that the boiler room floor was contaminated with the asbestos-containing boiler insulation.
2. Approximately 2 square feet of boiler gasket rope insulation was identified as containing 80 percent asbestos.
3. Approximately 510 square feet (35 Windows) of window glazing in poor condition located on metal windows was identified as containing from a trace to 0.5 percent asbestos.
4. Approximately 180 square feet of floor tile (9-inch by 9-inch, Brown) in poor condition was identified as containing 10 percent asbestos.
5. Approximately 2 square feet of drinking fountain tar coating was assumed to contain asbestos.

Two-Story Office Area & Warehouse

1. Approximately 63,000 square feet of built-up roofing materials was assumed to contain asbestos.
2. Approximately 3,400 square feet of tarred roof flashing was assumed to contain asbestos.

In addition, it should be noted that demolition of the ceilings and walls at the subject building may reveal additional suspect asbestos-containing materials.

***Hazardous Materials Survey***

The findings from the hazardous materials survey for the subject building are outlined in the table, below.

<b>PCBs Containing Equipment:</b> 1) Fluorescent light ballasts	<b>Heavy Metal Containing Equipment:</b> 1) Fluorescent light lamps (mercury-containing) 3) High Intensity Discharge Lamps 4) Thermostats (mercury-containing) 5) Batteries in Emergency Lighting	<b>Refrigerant Sources:</b> 1) Drinking Fountain 2) Freezer	<b>Any other Hazardous or Regulated Material:</b> 1) Fire Extinguishers 2) Misc. Chemicals 3) Misc. Materials
1) 316	1) 488 2) 13 3) 10 4) 5	1) 1 2) 1	1) 9 2) Oil associated with three (3) hydraulic dock lifts; 2 elevator motors containing oil; 1 1-gallon unknown container; 1 5-gallon container of driveway sealer; and 1 Bottle of Smoke-X remover 3) 9 Tires

## DISCUSSION

### *Asbestos Survey*

The Occupational Safety and Health Administration's (OSHA's) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) **regulates** all renovation and demolition work involving building materials which contain any amount of asbestos. The amount of asbestos identified in a building material would determine which applicable sections of OSHA's Asbestos Standard must be implemented. Building owners and/or contractors who perform renovation and/or demolition activities which disturb building materials identified as containing less than or equal to one (1) percent asbestos are only required to be in compliance with paragraphs (g)(1), (g)(2) and (g)(3) of the Standard. These paragraphs describe the required engineering and work practice controls that must be implemented when building materials containing less than one (1) percent asbestos (i.e. window glazing), are disturbed. A brief description of these paragraphs is included in **Attachment 5**. Building owners and/or contractors who perform renovation and/or demolition activities which disturb building materials identified as containing greater than one (1) percent asbestos, are required to be in compliance with all applicable sections of the Standard.

Unlike OSHA, the EPA under NESHAP regulates all renovation and demolition work involving building materials identified as containing greater than one (1) percent asbestos. Unlike OSHA, NESHAP regulates which ACMs must be removed prior to renovation and demolition activities being performed. The EPA defines three (3) classifications of building materials: regulated ACM (RACM), Category I Nonfriable ACM and Category II Nonfriable ACM. A regulated ACM is defined as 1) a friable asbestos material, 2) a Category I Nonfriable ACM that has become friable, 3) a Category I Nonfriable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or 4) a Category II Nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of the demolition or renovation activities. A Category I Nonfriable ACM is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using Polarized Light Microscopy (PLM) analysis. A Category II nonfriable ACM is defined as any material, excluding Category I nonfriable ACMs, containing more than 1 percent asbestos as determined using PLM analysis. All RACMs are **regulated** by NESHAP as long as their quantities meet or exceed 160 square feet or 260 linear feet.

Since the most stringent regulation typically takes precedent, HzW's recommendations outlined below are presented in order of recommended compliance (OSHA, EPA, ODH regulations).

## RECOMMENDATIONS

### *Review of URS Phase II ESA*

Based on the findings of the URS Phase II ESA, USTs may remain on-site. Therefore, HzW recommends conducting exploratory excavation activities at the locations in which the URS Phase II ESA indicated the probable presence of UST(s). Should any USTs be identified, properly remove the UST(s) in accordance with BUSTR regulations. Further, plan notes should be prepared to properly manage and dispose of soils impacted with petroleum associated with former USTs or impacted soils from wood treatment operations, which the URS Phase II ESA indicated were conducted at the site previously, should these soils be encountered during demolition and/or construction activities.

### *Asbestos Survey*

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

1. Notify any outside contractor(s), prior to them working at the subject building, of the presence of any building materials identified as containing or assumed to contain asbestos.

Contractors disturbing building materials identified as containing less than or equal to one (1) percent asbestos would be required to conduct their activities in accordance with sections (g)(1), (g)(2) and (g)(3) of the OSHA Asbestos Standard for the Construction Industry. Contractors disturbing the building materials identified as containing greater than one (1) percent would be required to conduct their activities in accordance with all applicable sections of OSHA's Asbestos Standard for the Construction Industry as well as applicable EPA NESHAP and ODH regulations.

2. Contract with an asbestos abatement contractor licensed in the State of Ohio to abate the asbestos-containing pipe and fitting insulation, boiler insulation and associated debris located on the floor, boiler gasket rope, window glazing identified in poor condition associated with the Two-Story Office Area, and floor tile identified in poor condition in the Warehouse of the subject building. If the assumed nonfriable asbestos-containing materials identified in good condition, become friable as a result of the demolition activities, then these materials are required to be abated prior to the demolition activities being performed.
3. If renovation and/or demolition activities are to occur at the subject building, submit the Ohio Environmental Protection Agency (OEPA), "Notification of Demolition and Renovation" form to the OEPA ten (10) days prior to renovation activities which will involve the disturbance of 160 square feet or 260 linear feet of RACM and ten (10) days prior to any demolition activities. HzW has completed the OEPA Notification of Demolition and Renovation form for the subject building and has included this form in **Attachment 6**.
4. If renovation activities are to occur at the subject building, submit the ODH "Prior Notification of Asbestos Hazard Abatement Project" form to the ODH ten (10) days prior to any asbestos hazard abatement activity being performed. ODH defines an asbestos hazard abatement activity as any activity involving the removal, renovation, enclosure, repair or encapsulation of reasonably related friable ACMs in an amount greater than fifty (50) linear feet or fifty (50) square feet.
5. If applicable, and as indicated in the OEPA "Notification of Demolition and Renovation" form, Section XVII, ensure that an individual trained in the provisions of NESHAP is on-site during the demolition activities. This individual would need to be certified by the ODH as an Asbestos Hazard Evaluation Specialist.
6. Prior to demolition of the subject building, notify the demolition contractor of the assumed asbestos-containing materials and the building materials identified as containing less than 1 percent asbestos that are to remain in the subject building during the demolition activities. The demolition contractor is required to conduct the demolition activities in accordance with all applicable sections of OSHA's Asbestos Standard as well as applicable EPA NESHAP and ODH regulations. All demolition work must be performed using wet methods.

***Hazardous Materials Survey***

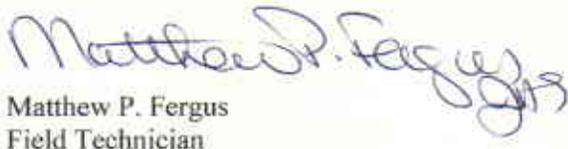
Based on the findings of the hazardous materials survey, the recommendations outlined below are presented for consideration:

1. All PCB-containing light ballasts shall be handled and disposed of in accordance with the Toxic Substance Control Act (TSCA) regulations.
2. All mercury containing fluorescent light bulbs, thermostats and heavy metal/mercury-containing equipment shall be handled, characterized and disposed of or recycled in accordance with Ohio's hazardous waste regulations outlined in OAC 3745-51 and universal waste rules outlined in OAC 3745-273.
3. All batteries should be handled and disposed of or recycled in accordance with OAC 3745-273.
4. All regulated refrigerants (i.e. Freon) should be handled, characterized and disposed of or recycled in accordance with 40 CFR 82.
5. All fire extinguishers should be handled in accordance with OSHA's Liquefied Petroleum Gas Standard (29 CFR 1926.153).
6. The electric motors associated with the elevators were assumed to contain oil and should be characterized and subsequently disposed of in accordance with federal, state and local regulations.
7. Any other hazardous or regulated material identified in the "Any other Hazardous or Regulated Materials" column should be handled and disposed of properly prior to demolition activities being performed.

HZW appreciates the opportunity you have given us to provide professional consulting services on this project. Should you have any questions regarding the information presented above, please do not hesitate to contact us.

Sincerely,

**HZW ENVIRONMENTAL CONSULTANTS, LLC**

  
Matthew P. Fergus  
Field Technician

  
Joan A. Sablar  
Senior Industrial Hygienist

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**ATTACHMENT 1**

**PHOTOGRAPIC LOG**

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**Photograph 01**  
**View Looking West at the East Side of The White Properties Building**  
**1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)**



**Photograph 02**  
**View Looking West at the East Side of The White Properties Building**  
**1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)**



**Photograph 03**  
View Looking Southwest at the East Side of The White Properties Building  
1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



**Photograph 04**  
View Looking Southwest at the North Side of The White Properties Building  
1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 05  
View Looking Southeast at the West Side of The White Properties Building  
1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 06  
View Looking West at the South Side of The White Properties Building  
1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



**Photograph 07**  
**View Looking West at the East Side of The White Properties Building**  
**1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)**



**Photograph 08**  
**View of the First Floor Office Space Located in the Northeast Portion of**  
**The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)**



Photograph 09

View of the First Floor Warehouse Area Located in the Northcentral Portion of The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 10

View of the Warehouse Area Loading Dock Located in the Central Portion of The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)





Photograph 11

View of the First Floor Warehouse Area Located in the Northcentral Portion of The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 12

View of the First Floor Warehouse Area Located in the Northwest Portion of The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 13  
View of the First Floor Warehouse Area Located in the Central Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 14  
View of the First Floor Warehouse Area Boiler Room Located in the Central Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 15  
View of the First Floor Warehouse Area Located in the Central Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 16  
View of the First Floor Warehouse Area Located in the South Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



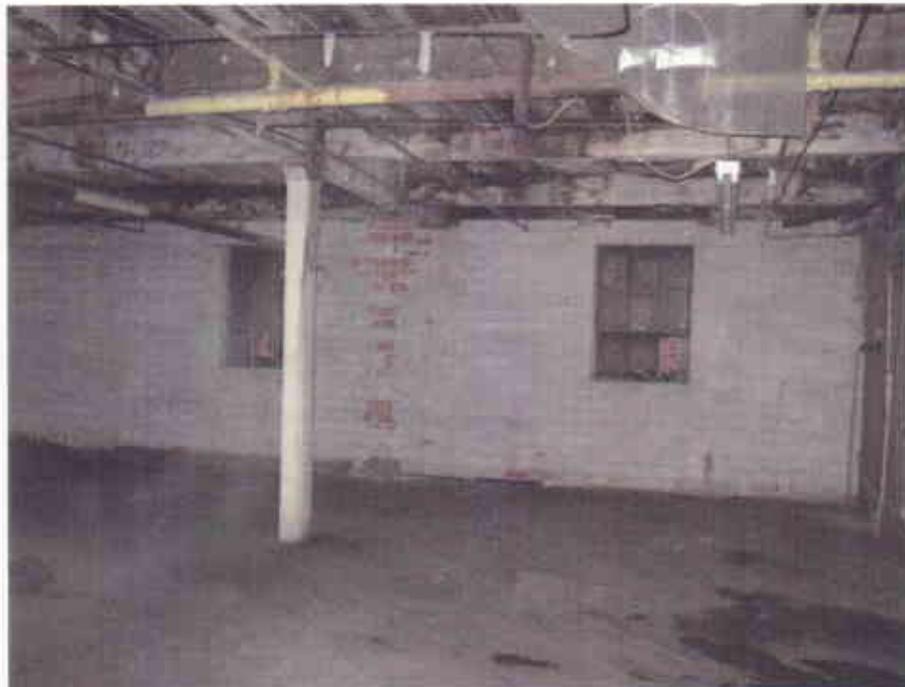
Photograph 17  
View of the First Floor Warehouse Area Located in the South Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 18  
View of the Second Floor Warehouse Area Located in the South Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



**Photograph 19**  
View of the Second Floor Warehouse Area Located in the Central Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



**Photograph 20**  
View of the Second Floor Warehouse Area Located in the North Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 21  
View of the Second Floor Office Area Located in the Northeast Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)



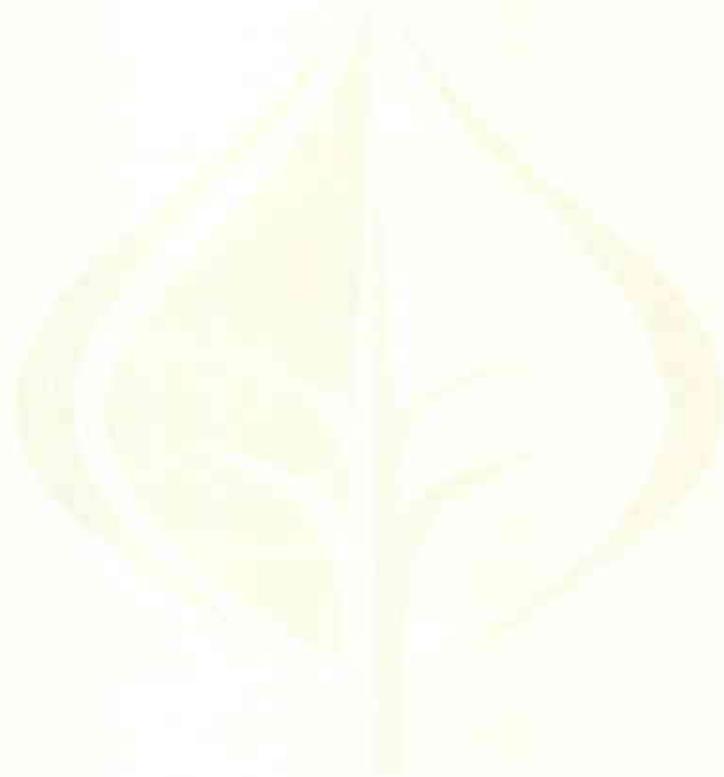
Photograph 22  
View of the Second Floor Office Area Located in the Northeast Portion of  
The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio (CCG1 Design PID 77332)

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**ATTACHMENT 2**

**ASBESTOS BULK SAMPLING INFORMATION FORM**

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**ODOT District 12**  
**Asbestos Survey – The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio**  
**HZW Environmental Consultants, LLC – Project No. H10002-03**

**Asbestos Bulk Sampling Information Form**

ID#	IDENTIFICATION LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT	
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	RESULT
19	Two Story Office Area	Drywall System – Walls over Wall Plaster	Ground Floor											ND
20	"	Drywall System – Walls over Wall Plaster	Ground Floor											ND
21	"	Drywall System – Walls over Wall Plaster	Ground Floor											ND
22	"	Floor Tile 6-inch by 12- Dark Brown Mastic (on Concrete)	Ground Floor			X			2,100 sq. ft.					10
23	"	Floor Tile 6-inch by 12- Dark Brown Mastic (on Concrete)	Ground Floor			X			"					10
24	"	Pipe Insulation - Aircell	Ground Floor			X			904 In. ft.					1.3
25	"	Pipe Insulation - Aircell	Ground Floor			X			"					50
26	"	Pipe Insulation - Aircell	Ground Floor			X			"					20
27	"	Mud Fitting Insulation	Ground Floor			X			"					20
28	"	Mud Fitting Insulation	Ground Floor			X			"					50
29	"	Mud Fitting Insulation	Ground Floor			X			"					ND
30	"	Ceiling Tile 12-inch by 12-inch w/Holes on Drywall Ceiling And Glue	Second Floor			X			"					ND
31	"	Ceiling Tile 12-inch by 12-inch w/Holes on Drywall Ceiling And Glue	Second Floor			X			"					ND
32	"	Ceiling Tile 12-inch by 12-inch w/Holes on Drywall Ceiling And Glue	Second Floor			X			"					ND





**ODOT District 12**  
**Asbestos Survey – The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio**  
**HzW Environmental Consultants, LLC – Project No. H10002-03**

**Asbestos Bulk Sampling Information Form**

ID#	LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT	
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	ASBESTOS
58	Warehouse	Ceiling Plaster	Ground Floor											ND
59	"	Ceiling Plaster	Ground Floor											ND
60	"	Ceiling Plaster	Ground Floor											ND
61	"	Ceiling Plaster	Ground Floor											ND
62	"	Ceiling Plaster	Ground Floor											ND
63	"	Boiler Insulation	Ground Floor		X			110 sq.ft.*						40
64	"	Boiler Insulation	Ground Floor		X			"						40
65	"	Boiler Insulation	Ground Floor		X			"						40
66	"	Boiler Gasket Rope Insulation	Ground Floor		X			2 sq.ft.						80
67	"	Boiler Gasket Rope Insulation	Ground Floor		X			"						80
68	"	Boiler Gasket Rope Insulation	Ground Floor		X			"						80
69	"	Textured Drywall Wall	Ground Floor											ND
70	"	Textured Drywall Wall	Ground Floor											ND
71	"	Textured Drywall Wall	Ground Floor											ND
72	"	Ceiling Tile 2-foot by 4-foot w/Pinholes and Long Fissures	Ground Floor, Locker Room & Restrooms											ND
73	"	Ceiling Tile 2-foot by 4-foot w/Pinholes and Long Fissures	Ground Floor, Locker Room & Restrooms											ND
74	"	Ceiling Tile 2-foot by 4-foot w/Pinholes and Long Fissures	Ground Floor, Locker Room & Restrooms											ND

\* Boiler Insulation debris located on floor of Boiler Room.



**ODOT District 12**  
**Asbestos Survey – The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio**  
**HZW Environmental Consultants, LLC – Project No. H10002-03**

**Asbestos Bulk Sampling Information Form**

IDENTIFICATION		MATERIAL CHARACTERIZATION			AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
94	Two Story Office Area	Window Glazing – Wood Windows with No Muntins	Exterior										ND	
95	"	Window Glazing – Wood Windows with Muntins	Exterior										ND	
96	"	Window Glazing – Wood Windows with Muntins	Exterior										ND	
97	"	Window Glazing – Wood Windows with Muntins	Exterior										ND	
98	"	Window Glazing – Metal Windows	Exterior			X			30 sq. ft. (9 Win)				1.2	
99	"	Window Glazing – Metal Windows	Exterior			X			"				ND	
100	"	Window Glazing – Metal Windows	Exterior			X			"				ND	
101	Warehouse	Window Glazing – Wood Windows	Exterior										ND	
102	"	Window Glazing – Wood Windows	Exterior										ND	
103	"	Window Glazing – Wood Windows	Exterior										ND	
104	"	Window Glazing – Metal Windows	Exterior			X			510 sq. ft. (35 Win)				Trace	
105	"	Window Glazing – Metal Windows	Exterior			X			"				0.5	
106	"	Window Glazing – Metal Windows	Exterior			X			"				0.25	
107	"	Floor Tile – 9-inch by 9-inch, Brown Mastic (on Wood)	Ground Floor, Office			X			180 sq. ft.				10 ND	
108	"	Floor Tile – 9-inch by 9-inch, Brown Mastic (on Wood)	Ground Floor, Office			X			"				10 ND	

**ODOT District 12**  
**Asbestos Survey – The White Properties Building, 1996 West 3<sup>rd</sup> Street, Cleveland, Ohio**  
**HZW Environmental Consultants, LLC – Project No. H10002-03**

**Asbestos Bulk Sampling Information Form**

IDENTIFICATION		MATERIAL CHARACTERIZATION			AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
	Two Story Office Area	Vibration Damper	Ground Floor			X	2 sq.ft.						Assumed	
	"	Stair Tread Cover – Green Mastic (on Wood)	Ground Floor			X	76 sq.ft.						Assumed	
	"	Floor Sheeting – Green w/ Tar Paper (on Wood)	Second Floor			X	1,515 sq.ft.						Assumed	
	"	Floor Tile – 9-inch by 9-inch, Green w/ Tar Paper Mastic (on Wood)	Second Floor			X	80 sq.ft.						Assumed	
	"	Cove Base – 3-inch Black Mastic	Second Floor			X	20 sq.ft.						Assumed	
	"	Sink Bottom Coating – Black	Second Floor			X	4 sq.ft.						Assumed	
	"	Floor Sheeting – Yellow (on Wood)	Back Office Area			X	192 sq.ft.						Assumed	
	"	Cove Base – 4-inch Black	Back Office Area			X	64 sq.ft.						Assumed	
	Warehouse	Drinking Fountain Tar Insulation	Ground Floor			X	2 sq.ft.						Assumed	
	Office Area and Warehouse	Built-up Roof Decking	Roof			X	63,000 sq.ft.						Assumed	
	"	Tarred Flashing	Roof			X	3,400 sq.ft.						Assumed	

---

**ATTACHMENT 3**

**LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED**

---

## CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

Report Date: 2/22/2010  
Project: ODOT-1996 West 3rd St.  
Project No.: HI0002-03

### BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3868250 Description / Location: Tan Plaster  
Client No.: 01 Ceiling  
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material  
None Detected None Detected 3 Hair 97

Lab No.: 3868251 Description / Location: Tan Plaster  
Client No.: 02 Ceiling  
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material  
None Detected None Detected 2 Hair 98

Lab No.: 3868252 Description / Location: Tan Plaster  
Client No.: 03 Ceiling  
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material  
None Detected None Detected 3 Hair 97

Lab No.: 3868253 Description / Location: Tan Plaster  
Client No.: 04 Ceiling  
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material  
None Detected None Detected 2 Hair 98

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

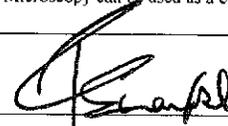
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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Approved By:



Date: 2/19/2010

Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868254	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 05	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	2	Hair
			98

<b>Lab No.:</b> 3868255	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 06	Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	2	Hair
			98

<b>Lab No.:</b> 3868256	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 07	Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	1	Hair
			99

<b>Lab No.:</b> 3868257	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 08	Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	1	Hair
			99

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

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6105 Heisley Rd.  
Mentor OH 44060

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**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868258	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 09	Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 3868259	<b>Description / Location:</b> Tan Plaster		
<b>Client No.:</b> 10	Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 3868260	<b>Description / Location:</b> Tan Sheetrock		
<b>Client No.:</b> 11	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	20	Cellulose
			80

<b>Lab No.:</b> 3868260	<b>Description / Location:</b> Brown Mastic		
<b>Client No.:</b> 11	Ceiling		<b>Layer No.: 2</b>
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868261      **Description / Location:** Tan Sheetrock  
**Client No.:** 12      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

**Lab No.:** 3868261      **Description / Location:** Brown Mastic      **Layer No.:** 2  
**Client No.:** 12      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868262      **Description / Location:** Tan Sheetrock  
**Client No.:** 13      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

**Lab No.:** 3868262      **Description / Location:** Brown Mastic      **Layer No.:** 2  
**Client No.:** 13      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Date:** 2/19/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868263      **Description / Location:** Tan Sheetrock  
**Client No.:** 14      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868263      **Description / Location:** Brown Mastic      **Layer No.:** 2  
**Client No.:** 14      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868264      **Description / Location:** Tan Sheetrock  
**Client No.:** 15      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868264      **Description / Location:** Brown Mastic      **Layer No.:** 2  
**Client No.:** 15      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868265	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 16				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b> 3868266	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 17				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b> 3868267	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 18				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method: EPA 600/R-93/116**

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**Analysis Performed By:** B. Fauseit

**Date:** 2/19/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868268      **Description / Location:** Tan Sheetrock  
**Client No.:** 19      Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868268      **Description / Location:** White Joint Compound      **Layer No.:** 2  
**Client No.:** 19      Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868269      **Description / Location:** Tan Sheetrock  
**Client No.:** 20      Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868269      **Description / Location:** White Joint Compound      **Layer No.:** 2  
**Client No.:** 20      Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868270	<b>Description / Location:</b> Tan Sheetrock			
<b>Client No.:</b> 21	Office Area			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 3868270	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 21	Office Area			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3868271	<b>Description / Location:</b> Brown Floor Tile			
<b>Client No.:</b> 22				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 3868271	<b>Description / Location:</b> Black Mastic	<b>Layer No.:</b> 2		
<b>Client No.:</b> 22				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868272	<b>Description / Location:</b> Brown Floor Tile			
<b>Client No.:</b> 23				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 3868272	<b>Description / Location:</b> Black Mastic			<b>Layer No.:</b> 2
<b>Client No.:</b> 23				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

<b>Lab No.:</b> 3868273	<b>Description / Location:</b> Tan Pipe Insulation			
<b>Client No.:</b> 24				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
50	Chrysotile	20	Cellulose	30

<b>Lab No.:</b> 3868274	<b>Description / Location:</b> Tan Pipe Insulation			
<b>Client No.:</b> 25				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	50	Cellulose	30

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/19/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868275      **Description / Location:** Tan Pipe Insulation  
**Client No.:** 26

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	50	Cellulose	30

**Lab No.:** 3868276      **Description / Location:** Tan Mud Fitting Insulation  
**Client No.:** 27

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
50	Chrysotile	20	Cellulose	30

**Lab No.:** 3868277      **Description / Location:** Tan Mud Fitting Insulation  
**Client No.:** 28

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	40
		50	Fibrous Glass	

**Lab No.:** 3868278      **Description / Location:** Tan Mud Fitting Insulation  
**Client No.:** 29

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	45
		50	Fibrous Glass	

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868279      **Description / Location:** Tan Sheetrock  
**Client No.:** 30

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868279      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 30

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

**Lab No.:** 3868279      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 30

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868280      **Description / Location:** Tan Sheetrock  
**Client No.:** 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868280      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

**Lab No.:** 3868280      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

**CERTIFICATE OF ANALYSIS**

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

**BULK SAMPLE ANALYSIS SUMMARY**

**Lab No.:** 3868281      **Description / Location:** Tan Sheetrock  
**Client No.:** 32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868281      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

**Lab No.:** 3868281      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868282      **Description / Location:** Tan Sheetrock  
**Client No.:** 33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

**Lab No.:** 3868282      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	40

**Lab No.:** 3868282      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868283      **Description / Location:** Tan Sheetrock  
**Client No.:** 34

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

**Lab No.:** 3868283      **Description / Location:** Tan Ceiling Tile, 12x12      **Layer No.:** 2  
**Client No.:** 34

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	40

**Lab No.:** 3868283      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 34

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

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**Analysis Performed By:** B. Fauseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** HI0002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868284      **Description / Location:** Tan Sheetrock  
**Client No.:** 35

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868284      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 35

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

**Lab No.:** 3868284      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 35

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

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**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868285      **Description / Location:** Tan Sheetrock  
**Client No.:** 36

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868285      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 36

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	40

**Lab No.:** 3868285      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 36

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868286      **Description / Location:** Tan Sheetrock  
**Client No.:** 37

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868286      **Description / Location:** Tan Ceiling Tile; 12x12      **Layer No.:** 2  
**Client No.:** 37

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	40

**Lab No.:** 3868286      **Description / Location:** Tan Mastic      **Layer No.:** 3  
**Client No.:** 37

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868287      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 38

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

**Lab No.:** 3868287      **Description / Location:** Tan Mastic      **Layer No.:** 2  
**Client No.:** 38

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868288      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 39

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

**Lab No.:** 3868288      **Description / Location:** Tan Mastic      **Layer No.:** 2  
**Client No.:** 39

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868289	<b>Description / Location:</b> Tan Ceiling Tile; 12x12			
<b>Client No.:</b> 40				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

<b>Lab No.:</b> 3868289	<b>Description / Location:</b> Tan Mastic			<b>Layer No.:</b> 2
<b>Client No.:</b> 40				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3868290	<b>Description / Location:</b> Tan Ceiling Tile; 12x12			
<b>Client No.:</b> 41				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 3868291	<b>Description / Location:</b> Tan Ceiling Tile; 12x12			
<b>Client No.:</b> 42				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

**CERTIFICATE OF ANALYSIS**

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

**BULK SAMPLE ANALYSIS SUMMARY**

**Lab No.:** 3868292      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 43

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

**Lab No.:** 3868293      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 44

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

**Lab No.:** 3868293      **Description / Location:** Tan Mastic      **Layer No.:** 2  
**Client No.:** 44

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868294      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 45

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

**Lab No.:** 3868295      **Description / Location:** Tan Mastic      **Layer No.:** 2  
**Client No.:** 45

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868295      **Description / Location:** Tan Ceiling Tile; 12x12  
**Client No.:** 46

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

**Lab No.:** 3868295      **Description / Location:** Tan Mastic      **Layer No.:** 2  
**Client No.:** 46

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 3868296	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 47				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b> 3868297	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 48				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b> 3868298	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 49				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868299      **Description / Location:** Tan Sheetrock  
**Client No.:** 50      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868299      **Description / Location:** White Joint Compound      **Layer No.:** 2  
**Client No.:** 50      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868300      **Description / Location:** Tan Sheetrock  
**Client No.:** 51      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868300      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 51      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Fauseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868301      **Description / Location:** Tan Sheetrock  
**Client No.:** 52      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868301      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 52      Back Office Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868302      **Description / Location:** Tan Sheetrock  
**Client No.:** 53      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868302      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 53      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868303      **Description / Location:** Tan Sheetrock  
**Client No.:** 54      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868303      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 54      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868304      **Description / Location:** Tan Sheetrock  
**Client No.:** 55      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868304      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 55      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868305      **Description / Location:** Tan Sheetrock  
**Client No.:** 56      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868305      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 56      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868306      **Description / Location:** Tan Sheetrock  
**Client No.:** 57      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868306      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 57      Warehouse Area

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
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**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868307      **Description / Location:** Tan Plaster  
**Client No.:** 58      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868308      **Description / Location:** Tan Plaster  
**Client No.:** 59      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868309      **Description / Location:** Tan Plaster  
**Client No.:** 60      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868310      **Description / Location:** Tan Plaster  
**Client No.:** 61      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
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**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868311      **Description / Location:** Tan Plaster  
**Client No.:** 62      Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868312      **Description / Location:** Tan Boiler Insulation  
**Client No.:** 63

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
40	Amosite	None Detected	None Detected	60

**Lab No.:** 3868313      **Description / Location:** Tan Boiler Insulation  
**Client No.:** 64

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
40	Amosite	None Detected	None Detected	60

**Lab No.:** 3868314      **Description / Location:** Tan Boiler Insulation  
**Client No.:** 65

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
40	Amosite	None Detected	None Detected	60

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868315      **Description / Location:** Tan Fibrous  
**Client No.:** 66      Boiler Gasket Rope Insulation

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
80	Chrysotile	None Detected	None Detected	20

**Lab No.:** 3868316      **Description / Location:** Tan Fibrous  
**Client No.:** 67      Boiler Gasket Rope Insulation

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
80	Chrysotile	None Detected	None Detected	20

**Lab No.:** 3868317      **Description / Location:** Tan Fibrous  
**Client No.:** 68      Boiler Gasket Rope Insulation

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
80	Chrysotile	None Detected	None Detected	20

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/20/2010

**CERTIFICATE OF ANALYSIS****Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03**BULK SAMPLE ANALYSIS SUMMARY**

<b>Lab No.:</b> 3868318	<b>Description / Location:</b> Tan Sheetrock			
<b>Client No.:</b> 69	Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 3868318	<b>Description / Location:</b> White Texture			<b>Layer No.:</b> 2
<b>Client No.:</b> 69	Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 3868319	<b>Description / Location:</b> Tan Sheetrock			
<b>Client No.:</b> 70	Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 3868319	<b>Description / Location:</b> White Texture			<b>Layer No.:</b> 2
<b>Client No.:</b> 70	Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA Lab No. 100188***This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government**This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit**Date:** 2/20/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868320      **Description / Location:** Tan Sheetrock  
**Client No.:** 71      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868320      **Description / Location:** White Texture      **Layer No.:** 2  
**Client No.:** 71      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868321      **Description / Location:** Tan Ceiling Tile; 2x4  
**Client No.:** 72

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

**Lab No.:** 3868322      **Description / Location:** Tan Ceiling Tile; 2x4  
**Client No.:** 73

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Method:** EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

**CERTIFICATE OF ANALYSIS****Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** HI0002-03**BULK SAMPLE ANALYSIS SUMMARY**

<b>Lab No.:</b> 3868323	<b>Description / Location:</b> Tan Ceiling Tile; 2x4			
<b>Client No.:</b> 74				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b> 3868324	<b>Description / Location:</b> Tan Sheetrock			
<b>Client No.:</b> 75	Locker Rooms			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 3868324	<b>Description / Location:</b> Tan Joint Compound			<b>Layer No.:</b> 2
<b>Client No.:</b> 75	Locker Rooms			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA Lab No. 100188***This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government**This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Fauseit**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868325      **Description / Location:** Tan Sheetrock  
**Client No.:** 76      Locker Rooms

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868325      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 76      Locker Rooms

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868326      **Description / Location:** Tan Sheetrock  
**Client No.:** 77      Locker Rooms

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

**Lab No.:** 3868326      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 77      Locker Rooms

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868327      **Description / Location:** Grey Plaster  
**Client No.:** 78      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868328      **Description / Location:** Grey Plaster  
**Client No.:** 79      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868329      **Description / Location:** Grey Plaster  
**Client No.:** 80      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868330      **Description / Location:** Tan Sheetrock  
**Client No.:** 81      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868331      **Description / Location:** Tan Sheetrock  
**Client No.:** 82      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868332      **Description / Location:** Tan Sheetrock  
**Client No.:** 83      Wall

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868333      **Description / Location:** Tan Sheetrock  
**Client No.:** 84

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868333      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 84

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Fauseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868334      **Description / Location:** Tan Sheetrock  
**Client No.:** 85

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868334      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 85

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868335      **Description / Location:** Tan Sheetrock  
**Client No.:** 86

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868335      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 86

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868336      **Description / Location:** Tan Sheetrock  
**Client No.:** 87

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868336      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 87

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868337      **Description / Location:** Tan Sheetrock  
**Client No.:** 88

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

**Lab No.:** 3868337      **Description / Location:** Tan Joint Compound      **Layer No.:** 2  
**Client No.:** 88

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868338      **Description / Location:** Black Roof Material  
**Client No.:** 89      Shed

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

**Lab No.:** 3868339      **Description / Location:** Black Roof Material  
**Client No.:** 90      Shed

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

**Lab No.:** 3868340      **Description / Location:** Black Roof Material  
**Client No.:** 91      Shed

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

**Lab No.:** 3868341      **Description / Location:** Tan Window Glazing  
**Client No.:** 92

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868342      **Description / Location:** Tan Window Glazing  
**Client No.:** 93

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868343      **Description / Location:** White Window Glazing  
**Client No.:** 94

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Other	98

**Lab No.:** 3868344      **Description / Location:** Tan Window Glazing  
**Client No.:** 95

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868345      **Description / Location:** Tan Window Glazing  
**Client No.:** 96

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government  
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868346      **Description / Location:** Tan Window Glazing  
**Client No.:** 97

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868347      **Description / Location:** Grey Window Glazing  
**Client No.:** 98

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

**Lab No.:** 3868348      **Description / Location:** White Window Glazing  
**Client No.:** 99

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868349      **Description / Location:** White Window Glazing  
**Client No.:** 100

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** HI0002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868350      **Description / Location:** Tan Window Glazing  
**Client No.:** 101      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868351      **Description / Location:** Tan Window Glazing  
**Client No.:** 102      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868352      **Description / Location:** Tan Window Glazing  
**Client No.:** 103      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 3868353      **Description / Location:** Tan Window Glazing  
**Client No.:** 104      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Fauseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868354      **Description / Location:** Tan Window Glazing  
**Client No.:** 105      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

**Lab No.:** 3868355      **Description / Location:** Tan Window Glazing  
**Client No.:** 106      Warehouse

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

**Lab No.:** 3868356      **Description / Location:** Brown Floor Tile; 9x9  
**Client No.:** 107

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

**Lab No.:** 3868356      **Description / Location:** Black Mastic      **Layer No.:** 2  
**Client No.:** 107

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010

## CERTIFICATE OF ANALYSIS

**Client:** HZW Environmental Consultants  
6105 Heisley Rd.  
Mentor OH 44060

**Report Date:** 2/22/2010  
**Project:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 3868357      **Description / Location:** Brown Floor Tile; 9x9  
**Client No.:** 108

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

**Lab No.:** 3868357      **Description / Location:** Black Mastic      **Layer No.:** 2  
**Client No.:** 108

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA Lab No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** B. Faulseit

**Date:** 2/21/2010



# Chain of Custody / Sample Log Bulk Asbestos

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** HzW Environmental Consultants, LLC  
6105 Heisley Road  
Mentor, Ohio 44060

**Project Name:** ODOT - 1996 West 3rd St. (White Properties)  
**Project No.:** H10002-03

**Office Phone:** 440-357-1260  
**Cell Phone:** \_\_\_\_\_  
**FAX / Email 1:** 440-357-1510

**Contact 1:** Joan Sablar  
**Contact 2:** \_\_\_\_\_  
**FAX / Email 2:** JSablar@hzwenv.com

**Special Instructions:** PO# 5285-10

### Matrix:

Air  Soil  Bulk  Other  
 Water  Paint  Surface Dust / Wipe

### Analysis Method:

PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116

PLM : Point Counting  
 PC : via ELAP 198.1  
 PC : 400 Points  
 PC : 800 Points \*  
 PC : other \_\_\_\_\_ Points \*

PLM : Gravimetric Reduction  
 PLM : NOB via 198.6  
 PLM : Friable via EPA 600 2.3  
 If <1% by PLM, to TEM via 198.4 \*  
 If <1% by PLM, Hold for Instructions

PLM : Analyze Until Positive (Positive Stop)  
 AUP : by Homogenous Area as Noted  
 AUP : by Material Type as Noted

PLM : Non-Building Material \*, \*\*(Dust, Wipe, Tape, Soil)  
 Soil or Vermiculite Analysis \*, \*\*

PLM: Instructions for Multi-Layered Samples  
 Analyze and Report All Separable Layers per EPA 600  
 Report Composite for Drywall Systems per NESHAP  
 Report All Layers and Composite Where Applicable  
 Only Analyze and Report Specifically Noted Layer

\* Additional charge and turnaround may be required. \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

### Turnaround Time:

Preliminary Results Requested By... \_\_\_\_\_  Verbals  FAX  Email

date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. Please notify the lab before shipping.

### Sample Numbers:

Client #(s): 01 - 108 iATL#(s): \_\_\_\_\_ - \_\_\_\_\_ Total: \_\_\_\_\_  
(start) (end) (start) (end)

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

### Chain of Custody:

Relinquished (Name / Organization): \_\_\_\_\_  
Received (Name / iATL): \_\_\_\_\_  
Sample Login (Name / iATL): LM 211510  
Sample Prep (Name / iATL): \_\_\_\_\_  
Analysis(Name(s) / iATL): \_\_\_\_\_  
QA/QC Review (Name / iATL): BNS 3/1/10  
Archived / Released: \_\_\_\_\_ QA/QC InterLAB Use: \_\_\_\_\_

Date: 2-10-10 Time: 4:00 pm  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: FEB 12 2010 Time: \_\_\_\_\_  
Date: 0102 2 11 10 Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_





# Chain of Custody / Sample Log

## Bulk Asbestos

9000 Commerce Parkway  
 Suite B  
 Mt. Laurel, NJ 08054  
 Toll Free: 877 428-4285  
[info@iatl.com](mailto:info@iatl.com)  
[www.iatl.com](http://www.iatl.com)

**Client:** H2W Environmental Consultants, LLC  
6105 Heisley Road Mentor, Oh 44060

**Project Name:** ODOT-1996 West 3rd St.  
**Project No.:** H10002-03

Sampling Date: \_\_\_\_\_

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01	3868250	Ceiling Plaster	
02	3868251	"	
03	3868252	"	
04	3868253	"	
05	3868254	"	
06	3868255	Wall Plaster	
07	3868256	"	
08	3868257	"	
09	3868258	"	
10	3868259	"	
11	3868260	Ceiling Drywall w/ glue layer	
12	3868261	"	
13	3868262	"	
14	3868263	"	
15	3868264	"	
16	3868265	CT - 2'x4' pinholes + Indents	
17	3868266	"	
18	3868267	"	
19	3868268	Drywall System - office Area	
20	3868269	"	
21	3868270	"	
22	3868271	FT - Dark Brown + mastic	
23	3868272	"	
24	3868273	Pipe Insulation	
25	3868274	"	
26	3868275	"	
27	3868276	Mud Fitting Insulation	
28	3868277	"	

6/21/10 Page 1 of 4



# Chain of Custody / Sample Log

## Bulk Asbestos

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** HzW Environmental Consultants, LLC  
6105 Heisley Road Mentor, Oh 44060

**Project Name:** ODOT - 1996 West 3rd St.  
**Project No.:** H1002-03

**Sampling Date:** \_\_\_\_\_

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
29	3868278	11	
30	3868279	CT - 12" x 12" w/ holes + glue on dry wall	
31	3868280	"	
32	3868281	"	
33	3868282	CT - 12" x 12" w/ deep fissures + glue on dry wall	
34	3868283	"	
35	3868284	"	
36	3868285	"	
37	3868286	"	
38	3868287	CT - 12" x 12" w/ deep fissures + glue on <sup>wood</sup> wall	
39	3868288	"	
40	3868289	"	
41	3868290	CT - 12" x 12" w/ large holes	
42	3868291	CT - 12" x 12" w/ large holes	
43	3868292	"	
44	3868293	CT - 12" x 12" w/ deep fissures + glue on particle board wall	
45	3868294	"	
46	3868295	"	
47	3868296	CT - 2' x 4' w/ holes + Lg. Fissures	
48	3868297	"	
49	3868298	"	
50	3868299	Drywall System - Back office Area	
51	3868300	"	
52	3868301	"	
53	3868302	Drywall System - Warehouse Area	
54	3868303	"	
55	3868304	"	
56	3868305	"	

Page 2 of 4  
B 2/20/04



# Chain of Custody / Sample Log

## Bulk Asbestos

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** HZW Environmental Consultants, LLC  
6105 Heisley Road Mentor, Oh 44060

**Project Name:** ODOT - 1996 West 3rd St.  
**Project No.:** H10002-03

Sampling Date: \_\_\_\_\_

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
57	3868306	"	
58	3868307	Ceiling Plaster	
59	3868308	"	
60	3868309	"	
61	3868310	"	
62	3868311	"	
63	3868312	Boiler Insulation	
64	3868313	"	
65	3868314	"	
66	3868315	Boiler Gasket Rope Insulation	
67	3868316	"	
68	3868317	"	
69	3868318	Textured Drywall Wall	
70	3868319	"	
71	3868320	"	
72	3868321	CT - 2x4' - pinholes + Long Fissures	
73	3868322	"	
74	3868323	"	
75	3868324	Drywall System - Locker Rooms	
76	3868325	"	
77	3868326	"	
78	3868327	Wall Plaster	
79	3868328	"	
80	3868329	"	
81	3868330	<del>Boiler Insulation</del> Drywall Wall	
82	3868331	"	
83	3868332	"	
84	3868333	Drywall system	

B 2/21/10



# Chain of Custody / Sample Log

## Bulk Asbestos

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** HZW Environmental Consultants, LLC  
6105 Heisley Road Mentor, Oh 44060

**Project Name:** ODOT-1996 West 3rd St  
**Project No.:** H10002-03

**Sampling Date:** \_\_\_\_\_

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
85	3868334	"	
86	3868335	"	
87	3868336	"	
88	3868337	"	
89	3868338	Roofing material - shed	
90	3868339	"	
91	3868340	"	
92	3868341	Window Glazing - Wood without muntins	
93	3868342	"	
94	3868343	"	
95	3868344	Window Glazing - Wood with muntins	
96	3868345	"	
97	3868346	"	
98	3868347	<del>Window Glazing</del> Window Glazing - Metal	
99	3868348	"	
100	3868349	"	
101	3868350	Window Glazing - Wood (warehouse)	
102	3868351	"	
103	3868352	"	
104	3868353	Window Glazing - Metal (warehouse)	
105	3868354	"	
106	3868355	"	
107	3868356	FT - 9"x9" Brown + Mastic	
108	3868357	"	

---

**ATTACHMENT 4**

**SITE SKETCH OF THE WHITE PROPERTIES BUILDING,  
1996 WEST 3<sup>RD</sup> STREET, CLEVELAND, OHIO**

---

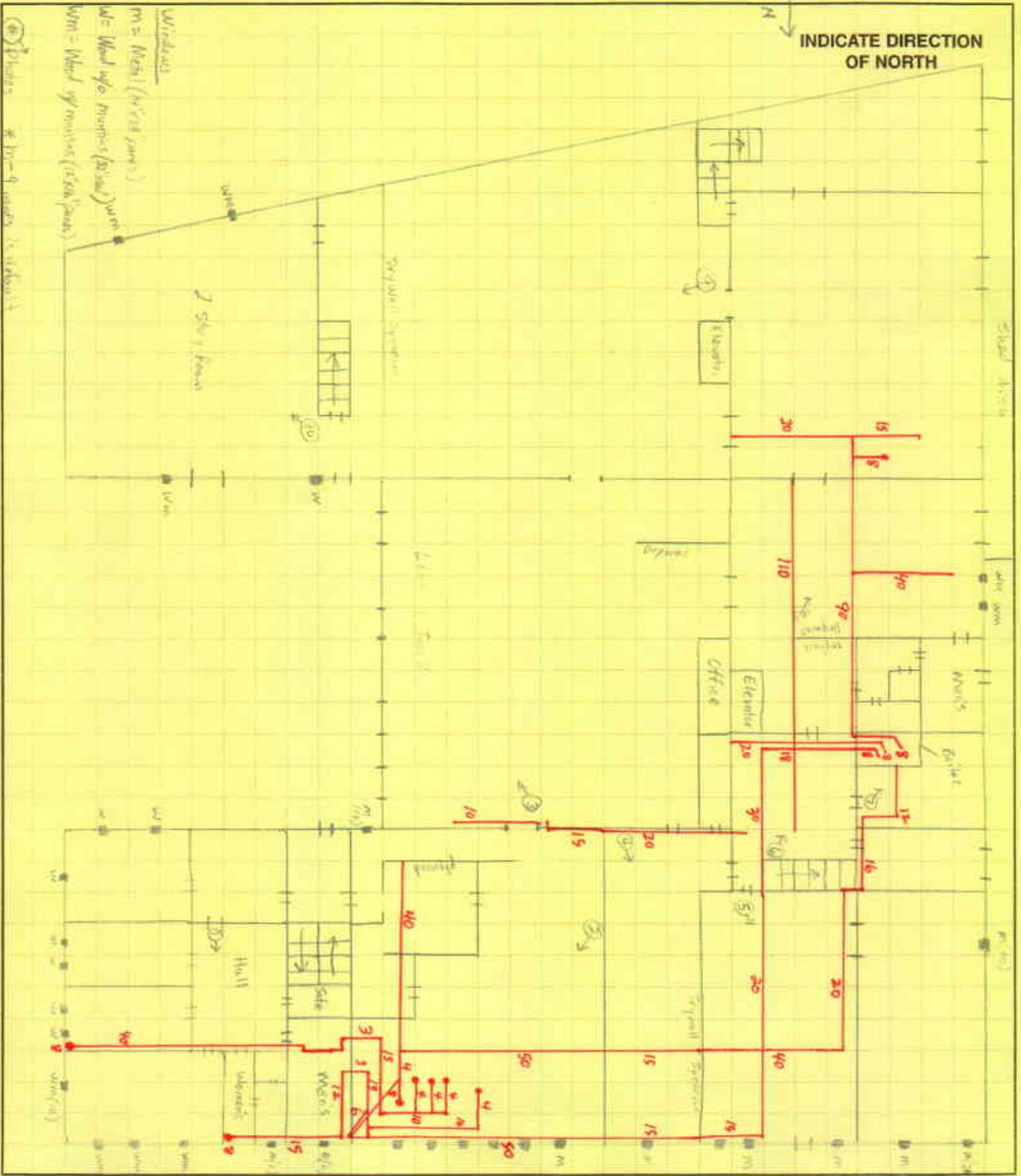


**HZW ENVIRONMENTAL**  
CONSULTANTS, LLC

6105 Heisley Road, Mentor, Ohio 44060  
phone 440-357-1260 • 800-804-8484  
fax 440-357-1510  
A WOMAN-OWNED BUSINESS ENTERPRISE

PROJECT 1776 W 3rd St (W. of Progress)  
PROJECT NO. H10002-03  
PAGE NO. \_\_\_\_\_ OF \_\_\_\_\_  
FIELD REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_  
SCALE \_\_\_\_\_

1st  
Floor

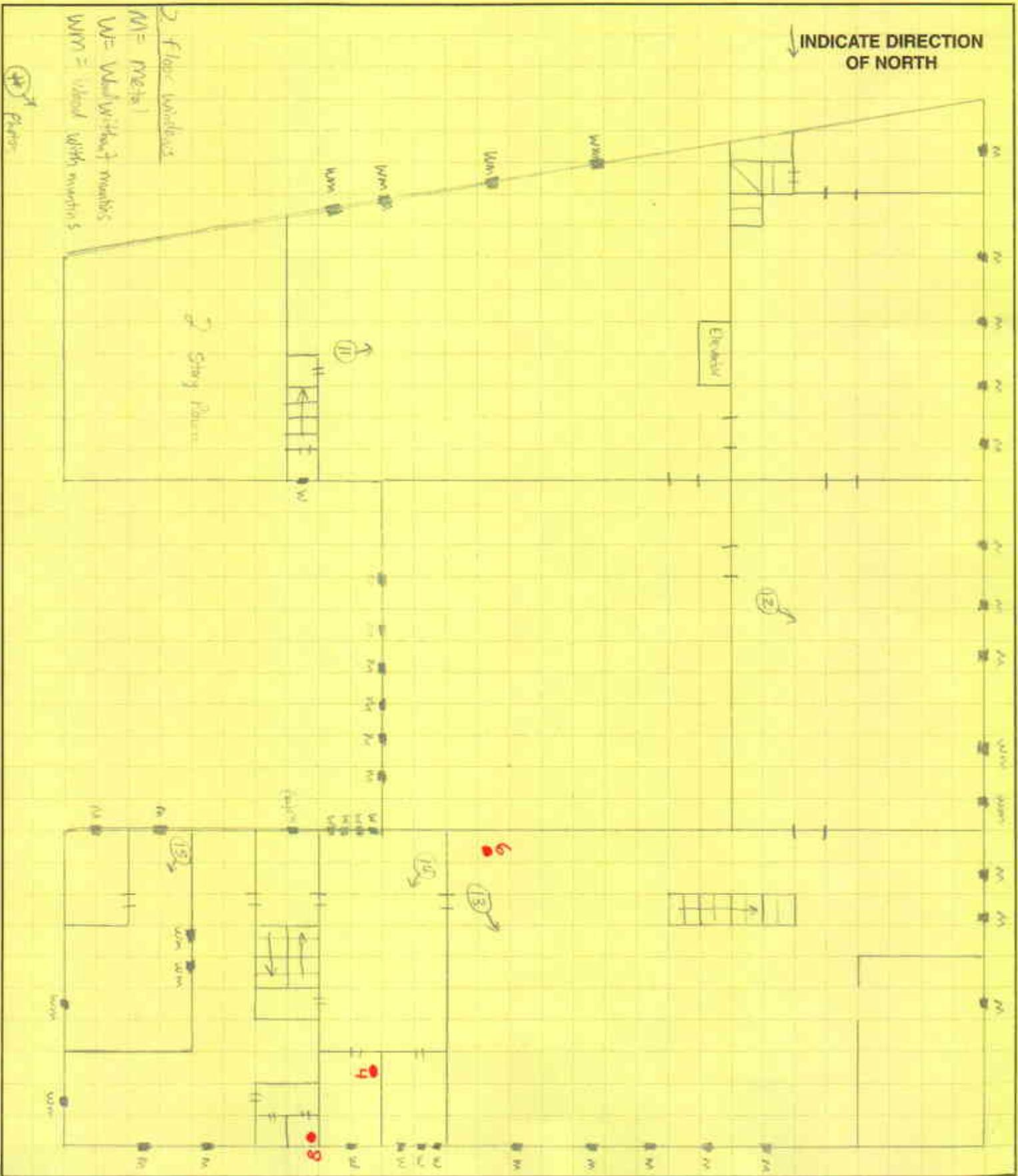




**HZW ENVIRONMENTAL**  
CONSULTANTS, LLC

605 HERSHEY ROAD, MENTOR, OHIO 44060  
PHONE 440-357-1260 • 800-804-8484  
FAX 440-357-1510  
A WOMAN-OWNED BUSINESS ENTERPRISE

PROJECT 1996 W. 3<sup>rd</sup> St (0000)  
PROJECT NO. \_\_\_\_\_  
PAGE NO. \_\_\_\_\_ OF \_\_\_\_\_  
FIELD REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_  
SCALE \_\_\_\_\_



---

**ATTACHMENT 5**

**OSHA 29 CFR 1926.1101 SECTIONS (g)(1), (g)(2) & (g)(3)**

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**OSHA 29 CFR 1926.1101 SECTIONS  
(g)(1), (g)(2) & (g)(3)**

Paragraph (g)(1) states that the following engineering controls and work practices must be implemented:

- a) vacuum cleaners equipped with high efficiency particulate air filters to collect all debris and dust;
- b) wet methods, or wetting agents to control employee exposure during asbestos handling, mixing, removal, cutting, application and cleanup; and
- c) prompt cleanup and disposal of wastes and debris contaminated with asbestos in leak-tight containers.

Paragraph (g)(2) states that in addition to the above requirements the following control methods must be implemented to be in compliance the time-weighted average (TWA) permissible exposure limit and excursion limit as set forth in the Standard:

- a) local exhaust ventilation equipped with HEPA filter dust collection systems;
- b) enclosure or isolation of processes producing asbestos dust;
- c) ventilation of the work area to move contaminated air away from the breathing zone of employees and toward a filtration collection device equipped with a HEPA filter;
- d) use of other feasible OSHA accepted work practices and engineering controls; and
- e) use of respiratory protection when the above stated engineering controls and work practices are not sufficient to reduce employee exposures below the permissible exposure limit and/or excursion limit.

Paragraph (g)(3) states that the following work practices and engineering controls must not be for work related to asbestos or for work which disturbs ACMs:

- a) high-speed abrasive disc saws that are not equipped with point-of-cut ventilator or enclosures with HEPA filtered exhaust air;
- b) compressed air unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air;
- c) dry sweeping, shoveling or other dry cleanup of dust and debris containing ACMs; and
- d) employee rotation as a means of reducing employee exposure to asbestos.

---

**ATTACHMENT 6**

**OEPA NOTIFICATION OF DEMOLITION AND RENOVATION FORM**

---

**OHIO ENVIRONMENTAL PROTECTION AGENCY  
NOTIFICATION OF DEMOLITION AND RENOVATION**

Operator Project #	Postmark	Date Received	Notification #
--------------------	----------	---------------	----------------

**I. Type of Notification (check one):**  Original  Revised  Canceled

**II. Facility Description (include building name, number and floor or room number)**  
 Building Name: White Properties Building (PID 77332)  
 Address: 1996 West 3<sup>rd</sup> Street  
 City: Cleveland State: OHIO Zip Code: \_\_\_\_\_ County: Cuyahoga  
 Site Location (specific): 1996 West 3rd Street  
 Building Size (square feet): 63,000 # of Floors: 2 Age in Years: ~85  
 Present Use: Vacant Prior Use: Industrial

**III. Type of Operation (check one):**  Demo  Ordered Demo  Renovation  Emergency Renovation  Fire Training

**IV. Is Asbestos Present? (check one):**  Yes  No

**V. Facility Information**  
 Owner Name: Ohio Department of Transportation  
 Address: 5500 Transportation Boulevard  
 City: Garfield Heights State: Ohio Zip Code: 44125  
 Contact: Mr. Mark Alan Carpenter Telephone: 216-584-2089 Fax: \_\_\_\_\_  
 Removal Contractor Name: \_\_\_\_\_ License # \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Other Operator (demolition/general): \_\_\_\_\_ License # \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:**  
NESHAP Inspection Procedure  
 Ohio Asbestos Hazard Evaluation Specialist: Matthew Fergus 33228  
 Name Certification #

**VII. Approximate Amount of Asbestos Materials:**

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	904				
Surface Area (square feet)	322			70,455	
Facility Components (cubic feet)					

**VIII. Scheduled Dates Demolition or Renovation:** Start: \_\_\_\_\_ Complete: \_\_\_\_\_

**IX. Dates for Asbestos Removal (MM/DD/YY)** Start: \_\_\_\_\_ Complete: \_\_\_\_\_

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

**OHIO ENVIRONMENTAL PROTECTION AGENCY**  
**NOTIFICATION OF DEMOLITION AND RENOVATION**

**X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

**XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:**

**XII. Waste Transporter #1**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**Waste Transporter #2**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**XIII. Waste Disposal**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**XIV. Emergency Demolition:** (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: \_\_\_\_\_ Title: \_\_\_\_\_
3. Authority of Order (Citation of Code): \_\_\_\_\_
4. Date of Order (MM/DD/YY): \_\_\_\_\_ Date Ordered to Begin: \_\_\_\_\_

**XV. Emergency Renovation:** (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

**XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.**

*Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.*

**XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.**

\_\_\_\_\_  
Signature of Owner/Operator                      Date                      Type or Print Name and Title

**XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.**

\_\_\_\_\_  
Signature of Owner/Operator                      Date                      Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)