

CUY-90-14.90

PID 77332/85531

APPENDIX EC-27

Regulated Materials Investigation for PPN 004-25-020, 021, 022 & 023, and 122-18-004 (Contract Document)

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

Innerbelt Bridge
Construction Contract Group 1 (CCG1)

Revision Date: June 22, 2010

/7 - Addendum No. 7 - New Appendix



June 22, 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 Scranton-Averill and Canal Road Buildings Located in Cleveland, Cuyahoga County, Ohio (H10002-13)

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 two (2) properties located in Cleveland, Cuyahoga County, Ohio. The properties and associated buildings surveyed as part of this Regulated Materials Investigation consisted of the following:

- Scranton-Averill located at 1515 Fairview Avenue. A one- (1-) story office/warehouse building is located at the property.
- <u>Canal Road</u> located at 2394 Canal Road. The building located at the property was built during three (3) separate constructions. The original building was constructed in the 1940s with two (2) additions being added in the 1950s and 1970s.

The two (2) properties are herein collectively referred to as the "subject properties". Individually, the properties are herein referred to as "Scranton-Averill" and "Canal Road", respectively. The Regulated Materials Investigation consisted of conducting an asbestos survey to identify building materials that contain asbestos and conducting a hazardous materials survey to identify building materials that contain regulated hazardous materials prior to any of the buildings being manually demolished. In addition, the Regulated Materials Investigation consisted of documenting the presence of any aboveground and underground storage tanks not previously identified at the subject properties prior to any of their associated buildings being manually demolished.

METHODS OF INVESTIGATION

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

As part of the Regulated Materials Investigation, HzW requested from ODOT a copy of any Phase II Environmental Site Assessments (ESAs) conducted at the subject properties for review. It was indicated to HzW that only the Canal Road property had a Phase II ESA completed, which was performed by URS. In addition to reviewing the Phase II ESA, HzW also performed a visual inspection at the subject properties to identify any aboveground and/or underground storage tanks (ASTs/USTs). For the Canal Road property, only those ASTs or USTs not previously identified in the Phase II ESA were documented. Any such findings were documented by HzW as part of our Regulated Materials Investigation.

Asbestos Survey

During June 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 (ft²) then a minimum of three (3) samples are collected. If the size of the homogeneous sampling area is between 1,000 and 5,000 ft² then a minimum of five (5) samples are collected. If the size of the homogeneous sampling area is greater than 5,000 ft² 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).

Any 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 June 2010, representatives of HzW performed a walkthrough of the subject properties 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 properties. 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.

Containers of miscellaneous chemicals (such as paints, oils, etc.) identified throughout the properties were quantified and documented.

FINDINGS

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

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

URS collected soil and groundwater samples from the Canal Road property as part of Phase II ESA activities. According to the URS Phase II ESA, concentrations of certain polynuclear aromatic hydrocarbons (PAHs) in one (1) soil sample location (20-MW03-1012) exceeded Ohio EPA's Voluntary Action Program (VAP) Generic Direct Contact Soil Standards for commercial/industrial land use and/or the State of Ohio Bureau of Underground Storage Tank Regulations (BUSTR) Closure Action Levels. In addition, the URS Phase II ESA report states that the detected concentration of lead in one (1) soil sample (20-MW03-1012) exceeded VAP Generic Direct Contact Soil Standards for commercial/industrial land use and construction/excavation activities. However, the detected concentration of lead in the soil sample, 446 milligrams per kilogram (mg/kg), is below the VAP Generic Direct Contact Soil Standard for commercial/industrial land use (1,800 mg/kg) and construction/excavation activities (750 mg/kg). Therefore, the detected concentrations of lead do not exceed VAP Generic Direct Contact Soil Standards for commercial/industrial land use or construction/excavation activities.

According to the URS Phase II ESA, the detected concentrations of two (2) PAHs and lead in one (1) groundwater sample (20-MW03) exceeded VAP Generic Unrestricted Potable Use Standards and/or BUSTR Closure Action Levels.

Based on the findings of the visual inspection conducted in June 2010, HzW identified no ASTs or any evidence indicative of USTs at the subject properties.

Asbestos Survey

HzW completed an Asbestos Bulk Sampling Information form for each of the subject properties documenting the bulk sampling locations, each sample's characterization (homogeneous area and functional space), its AHERA category, the quantity and condition, and its asbestos content. The completed Asbestos Bulk Sampling Information form for each of the subject properties is included as **Attachment 2**. A copy of the laboratory analytical reports from IATL for the bulk samples collected at each of the subject properties is included as **Attachment 3**.

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

Scranton-Averill.

- 1. Approximately 600 square feet of 9-inch by 9-inch green floor tile located in the Front Office Area was identified as containing 10 percent asbestos. The associated mastic layer was identified as containing from 3.1 to 3.5 percent asbestos. The floor tile and mastic were considered to be in good condition.
- Approximately 760 square feet of 9-inch by 9-inch brown floor tile and approximately 760 black floor tile (located beneath the 9-inch by 9-inch brown floor tile) located in the Front Office Area were both identified as containing 10 percent asbestos. The mastic layer associated with the 9-inch by 9-inch brown floor tile was identified as containing no asbestos. The floor tiles were considered to be in good condition.
- 3. Approximately 90 linear feet of pipe insulation located in the Front Office Area was identified as containing 60 percent asbestos. The pipe insulation was considered to be in fair condition.
- 4. Built-up roof decking and tarred roof flashing associated with the roof were assumed to contain asbestos. Approximately 1,500 square feet of roof decking and 570 square feet of tarred roof flashing were identified and considered to be in good condition.
- 5. Approximately 76 square feet (17 Windows) of window glazing was identified as containing from 1.2 to 1.3 percent asbestos. The glazing was considered to be in good condition.
- 6. Approximately 48 square feet of 12-inch by 12-inch brown floor tile with tan and black specks located in the High Bay Warehouse Area was identified as containing from 4.2 to 5.1 percent asbestos. The associated mastic layer was identified as containing from 3.1 to 3.2 percent asbestos. The floor tile and mastic were considered to be in good condition.
- 7. Approximately 84 square feet of 9-inch by 9-inch gray floor tile located in the High Bay Warehouse Area was identified as containing 10 percent asbestos. The associated mastic layer was identified as containing 2.1 percent asbestos. The floor tile and mastic were considered to be in good condition.
- 8. Built-up roof decking and tarred roof flashing associated with the High Bay Warehouse roof were assumed to contain asbestos. Approximately 12,375 square feet of roof decking and 1,440 square feet of tarred roof flashing were identified and considered to be in good condition.
- 9. Built-up roof decking and tarred roof flashing associated with the Back Warehouse Area's roof were **assumed** to contain asbestos. Approximately 6,375 square feet of roof decking and 960 square feet of tarred roof flashing were identified and considered to be in good condition.

Canal Road

- Built-up roof decking and tarred roof flashing associated with the 1970 South Addition's roof were **assumed** to contain asbestos. Approximately 9,000 square feet of roof decking and 1,872 square feet of tarred roof flashing were identified and considered to be in good condition.
- 2. Approximately 5,342 square feet of transite ceiling located on the first floor of the 1940's Original Construction and 1950's Construction was identified as containing 30 percent asbestos. The transite ceiling was considered to be in good condition. It should be noted that HzW assumed this material was located above the ceiling of two coolers located in the 1940's Original Construction and above the ceiling in the 1950's Construction.

- 3. Approximately 1,549 square feet of 9-inch by 9-inch light gray floor tile located on the second floor of the 1940's Original Construction was identified as containing from 2.1 to 2.3 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tile was considered to be in poor condition.
- 4. Approximately 667 square feet of 9-inch by 9-inch dark brown floor tile, 9-inch by 9-inch medium brown floor tile and 9-inch by 9-inch light brown floor tile located on the second floor of the 1940's Original Construction was identified as containing from 2.8 to 4.1 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tiles were considered to be in poor condition.
- 5. Approximately 744 square feet of paneling adhesive located on the second floor of the 1940's Original Construction was identified as containing from 1.2 to 2.5 percent asbestos. The adhesive was considered to be in good condition.
- 6. Approximately 80 square feet of 12-inch by 12-inch reddish brown floor tile located on the second floor of the 1940's Original Construction was identified as containing 5.2 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tile was considered to be in good condition.
- 7. Approximately 252 square feet of 9-inch by 9-inch light green with green streaks floor tile located on the second floor of the 1940's Original Construction was identified as containing 3.8 percent asbestos. The associated mastic layer was identified as containing 1.5 percent asbestos. The floor tile and mastic were considered to be in good condition.
- 8. Approximately 152 square feet of white stone patterned floor sheeting and white square patterned floor sheeting located on the second floor of the 1940's Original Construction was identified as containing 35 percent asbestos. The floor sheetings were considered to be in good condition.
- 9. Approximately 72 square feet of transite flue pipe located on the second floor of the 1940's Original Construction was identified as containing 30 percent asbestos. The transite flue pipe was considered to be in good condition.
- 10. Approximately 1,800 square feet of brown floor covering mastic located in the basement of the 1940's Original Construction was identified as containing 1.4 percent asbestos. The floor covering was identified as containing no asbestos. The brown floor covering mastic was considered to be in good condition.
- 11. Approximately 8 square feet of transite located in the basement of the 1940's Original Construction was assumed to contain asbestos. The transite was considered to be in good condition.
- 12. Built-up roof decking and tarred roof flashing associated with the 1940's Original Construction and 1950's Construction roofs were **assumed** to contain asbestos. Approximately 9,060 square feet of roof decking and 1,998 square feet of tarred roof flashing were identified and considered to be in good condition.

It should be noted that the following building materials located at the subject properties were identified as containing less than one (1) percent asbestos:

Scranton-Averill

Mastic associated with the black 4-inch Cove Base located in the High Bay Warehouse Area.

Canal Road

- Wall cement on tar and cork located in a first floor cooler of the 1940's Original Construction.
- Felt paper located underneath the 9-inch by 9-inch, dark brown, medium brown and light brown floor tile on the second floor of the 1940's Original Construction.

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

Hazardous Materials Survey

The findings from the hazardous materials survey for the buildings located on the subject properties are outlined in the table, below.

Property	PCBs Containing Equipment: 1) Fluorescent light ballasts 2) Transformers	Heavy Metal Containing Equipment: 1) Fluorescent light lamps (mercury-containing) 2) High Intensity Discharge Lamps 3) Thermostats (mercury-containing) 4) Batteries in Emergency Lighting/Signs	Freon Containing Equipment: 1) Drinking Fountain 2) Coolers or Refrigerators, Air Conditioners	Any other Hazardous or Regulated Material: 1) Fire Extinguishers 2) Misc. Chemicals/ Materials
Scranton Averill	1) 43	1) 83 2) 22 4) 6	1) !	Hydraulic oil associated with the two loading dock levelers;
Canal Road	1) 109	1) 240 4) 4	2) Air-conditioning equipment throughout the building; I refrigerant tank	1) 4 2) 4 5-gal contains of paint, used oil, one tank of ammonia, 1-gal splicing cement, 1 5-gal aquacade-A10, 1 5-gal compressor oil, 1 5-gal oil, cans of metal primer, paint, glazing compound, varnish, deicer, oil, lard oil, hand cleaner, Lysol, Draino, comet, Chlorox; 4 1-galn and 1 5-gal Scale Dissolver, refrigeration oils, motor oil, 1-bag floor adsorbents, 1-bag oil and grease adsorbents; bags of cements and unlabeled bags, used 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 are disturbed. A brief description of these paragraphs is included in **Attachment 4**. 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 I) 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 I 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 I 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 & Visual Inspection for ASTs/USTs

Based on the findings of the URS Phase II ESA and visual inspection for ASTs/USTs, no ASTs or USTs were identified at the subject properties. In addition, based upon constituents of concern detected in soil and groundwater samples in excess of BUSTR's Closure Action Levels and/or the Ohio EPA's VAP Generic Direct Contact Soil Standards or Generic Unrestricted Potable Use Standards, a plan note should be included in construction documents. The plan note should address the proper handling, management and/or disposal of impacted soils and groundwater in accordance with all applicable laws and regulations should they be encountered during demolition and/or construction activities. Further, based upon the detected concentrations of lead in soil, a plan note should be prepared to properly characterize, manage and dispose of impacted soils in accordance with all applicable laws and regulations should the soils be excavated and disposed of 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 buildings located at the subject properties, 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 materials highlighted in "red" on HzW's Asbestos Bulk Sampling Information forms. 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. In addition, if any of the building materials located at the subject properties are to be recycled (i.e., concrete) and they were identified during the asbestos survey as being covered with an asbestos-containing material, then in order for these materials to be recycled, the asbestos-containing material must be abated first.
- 3. 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 each of the subject buildings and has included these forms in Attachment 5.
- 4. 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.
- 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 buildings located at the subject properties, notify the demolition contractor of the nonfriable ACMs and assumed asbestos-containing materials, as well as 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 batteries should be handled and disposed of or recycled in accordance with OAC 3745-273.
- 3. All regulated refrigerants (i.e. Freon) should be handled, characterized and disposed of or recycled in accordance with 40 CFR 82.
- 4. All fire extinguishers should be handled in accordance with OSHA's Liquefied Petroleum Gas Standard (29 CFR 1926.153).
- 5. 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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Attachments (5)

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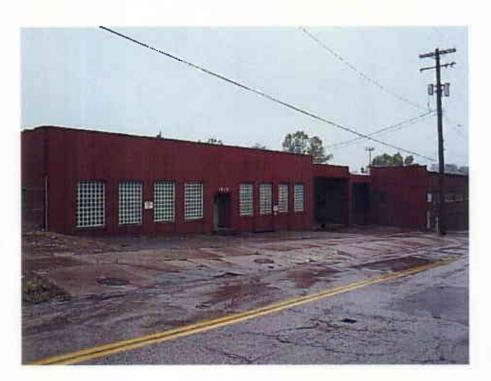
ATTACHMENT 1

PHOTOGRAPHIC LOG



Photograph 01

Aerial View of the Scranton-Averill Property Located at 1515 Fairfield Road, Cleveland, Ohio



Photograph 02

View Looking Southwest at the North Side of the Scranton-Averill Building Located at 1515 Fairfield Road, Cleveland, Ohio





Photograph 03

Aerial View of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio



Photograph 04

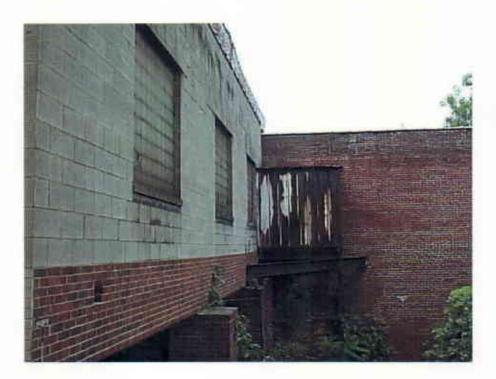
View Looking Northwest at the North Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio





Photograph 05

View Looking East at the Northwest Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio



Photograph 06

View Looking West at the South and West Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio





Photograph 07

View Looking South at the North Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio



Photograph 08

View Looking Northwest at the South Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio





Photograph 9

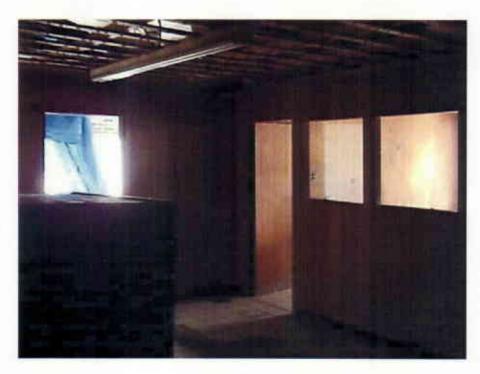
View Looking West at the East Side of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio



Photograph 10

Interior View of the First Floor of the Original Building Construction of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio





Photograph 11

Interior View of the Second Floor of the Original Building Construction of the Canal Road Property Located at 2394 Canal Road, Cleveland, Ohio



ATTACHMENT 2

ASBESTOS BULK SAMPLING INFORMATION FORMS

Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio HzW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	QN	ND	QN	QN	ND	QN	QN	QN	QN	QN	ND	10	3.1	QN	Q.	01	01
FOR	TOW																	
POTENTIAL FOR DISTURBANCE	MOD.																	
	HIGH																	
NOILION	POOR																	
QUANTITY & CONDITION	FAIR																	
QUAN	GOOD												600 sq.ft.	1			760 sq.ft.	3
GORY	MISC. F/NF												×	×			×	×
AHERA CATEGORY	TSI																	
AH	SUR																	
MATERIAL CHARACTERIZATION	FUNCTIONAL SPACE	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area
MATERIAL CHAF	HOMOGENEOUS AREA	Ceiling Tile – 12-inch by 12-inch Solid	Ceiling Tile – 12-inch by 12-inch Solid	Ceiling Tile – 12-inch by 12-inch Solid	Ceiling Tile – 12-inch by 12-inch with Holes	Ceiling Tile – 12-inch by 12-inch with Holes	Ceiling Tile – 12-inch by 12-inch with Holes	Drywall System	Floor tile – 9-inch by 9-inch, Green Mastic	Floor tile – 9-inch by 9-inch, Green	Flooring Felt Paper	Flooring Felt Paper	Floor Tile – Black	Floor Tile - Black				
IDENTIFICATION	LOCATION	Scranton Averill	- F			1	*		27			3	4	*		3	*)	
Ð	港	10	02	03	40	90	90	07	80	60	10	=	12	13	14	15	91	17

 $\frac{\text{Red}}{\text{quantities indicate the asbestos-containing materials to be abated prior to demolition activities.} \\ ND-No Asbestos Detected$

Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio HzW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

DESTITE	KESOLI	% ASBESTOS	10	ND	10 ND	QN	QN	ND	09	09	09	ND	QN	ND	ND ON	ND	Assumed	Assumed	1.3	1.2	1.2
90%	ž B	ТОМ																			
	POTENTIAL FOR DISTURBANCE	MOD																			
	5 0	HIGH																			
TO THE OWNER.	ADITION	POOR																			
000 0 73443	QUANTITY & CONDITION	FAIR							90 ln.ft.	(E)											
CITAL DE	QUAN	GOOD	092	sq.f.	2												1,500 sq.ft.	570 sq.ft.	76 sq.ft.	18	3
AMOOGGOOD TOTAL	GORY	MISC. F/NF	×		×												×	×	×	×	×
	AHERA CATEGORY	TSI							×	×	×										
	AH	SUR																			
ш	CACTERIZATION	FUNCTIONAL SPACE	Front Office Area		Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area	Front Office Area Roof	Front Office Area Roof	High Bay Warehouse Area	High Bay Warchousc Area	High Bay Warehouse Area
	MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Floor Tile – 9-inch by	9-inch, Brown Mastic	Floor Tile – 9-inch by 9-inch, Brown Mastic	Window Glazing	Window Glazing	Window Glazing	Pipe Insulation	Pipe Insulation	Pipe Insulation	Wall Panel Adhesive	Wall Panel Adhesive	Drywall	Drywall	Drywall	Built-up Roof Decking	Tarred Roof Flashing	Window Glazing	Window Glazing	Window Glazing
	IDENTIFICATION	LOCATION	Scranton Averill		*	1		*	3	*	1	33	77				3	99		£	
	O D	担	18		61	20	21	22	23	24	25	26	27	28	29	30			31	32	33

 $\frac{\text{Red}}{\text{quantities}}$ indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Survey - Scranton-Averill, 1515 Fairfield, Cleveland, Ohio HzW Environmental Consultants, LLC - Project No. H10002-14 ODOT District 12

Asbestos Bulk Sampling Information Form

	RESULT	% ASBESTOS	ND	ND	ND		QN	2		QN	5.1		3.1	4.2	7:	,	2.5	10	2.1	10		ND		O N	Tracc	QN	div	ON C	ON.	ND
	FOR	ТОМ																												
	POTENTIAL FOR DISTURBANCE	MOD																												
	P. 0	нісн																												
	NDITION	POOR																												
	QUANTITY & CONDITION	FAIR																												
	QUAN	GOOD									48	sq.ft.		3	i):			84	sd.ft.	4)										
	GORY	MISC F/NF									X			>	<			×		×										
The second	AHERA CATEGORY	TSI																												
	¥	SUR																												
	VACTERIZATION	FUNCTIONAL SPACE	High Bay Warehouse	Aica	High Bay Warehouse	Arca		High Bay Warehouse	Area		High Bay Warehouse	Arca		6 - 15	High Bay Warehouse			High Bay Warehouse	Area	High Bay Warehouse	Arca	High Bay Warehouse	Area	High Bay Warchouse	Area	High Bay Warehouse	Area		High Bay Warehouse	Alfa
	MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Ceiling Tile – 12-inch	by 12-men with Fissures Glue	Ceiling Tite – 12-inch	by 12-inch with	Glue	Ceiling Tile – 12-inch	by 12-inch with	Glue	Floor Tile - 12-inch by	12-inch Brown with	Tan and Black Specks Mastic	IMastic to	Floor Life – 12-inch by	Tan and Black Specks	Mastic	Floor Tile – 9-inch by	9-inch, Gray Mastic	Floor Tile - 9-inch by	9-inch, Gray	Cove Base – 4-inch,	Вгомп	Cove Base – 4-inch,	Brown	Cove Base – 4-inch,	Black	Mastic	Cove Base – 4-inch,	Mastic
	IDENTIFICATION	LOCATION	Scranton Averill					3			- E-1			4				7.5		3		3				3				
		#01	34		35			36			37			0	38			39		40		41		42		43			4	

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Survey - Scranton-Averill, 1515 Fairfield, Cleveland, Ohio HzW Environmental Consultants, LLC - Project No. H10002-14 ODOT District 12

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	ND	ND	ND	QN	QN	9 Q	Q Q	Q Q	Assumed	Assumed	QN	QN	QN	QN	QN	Assumed	Assumed
POTENTIAL FOR DISTURBANCE	D. LOW																	
POTENT	HIGH MOD.																	
NOILION	POOR																	
QUANTITY & CONDITION	GOOD FAIR									12,375 sq.ft.	1,440 sq.ft.						6,375 sq.ft.	960 sq.ft.
GORY	MISC. F/NF									×	×						×	×
AHERA CATEGORY	SUR. TSI																	
ACTERIZATION	FUNCTIONAL SPACE SU	High Bay Warehouse Area	High Bay Warehouse Area	High Bay Warchouse Area	High Bay Warchousc Area	High Bay Warehousc Area	High Bay Warehouse Area	High Bay Warchousc Area	High Bay Warehouse Area	High Bay Warehouse Area Roof	High Bay Warehouse Area Roof	Back Warehouse Area	Back Warehouse Area	Back Warehouse Area	Back Warehouse Area	Back Warehouse Area	Back Warehouse Area Roof	Back Warehouse Area Roof
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Wall Panel Adhesive	Wall Pancl Adhesive	Drywall	Drywall	Drywall	Drywall System	Drywall System	Drywall System	Built-up Roof Decking	Tarred Roof Flashing	Floor Walkway Coating	Floor Walkway Coating	Window Glazing	Window Glazing	Window Glazing	Built-up Roof Decking	Tarred Roof Flashing
IDENTIFICATION	LOCATION	Scranton Averill	4	.#	*		4	*	*)	#	*	1	3	3	***	(H)	93	(#)
IDE	#OI	45	46	47	48	49	50	51	22			53	54	55	56	57		

 $\frac{\text{Red}}{\text{quantities}} \text{ indicate the asbestos-containing materials to be abated prior to demolition activities.} \\ ND-No Asbestos Detected$

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	QN	QN	ND	Assumed	Assumed	30	30	ND 0.75	ND 0.5	ND 0.75	ON ON	QN QN	ON ON
FOR	пом													
POTENTIAL FOR DISTURBANCE	MOD													
	HIGH													
QUANTITY & CONDITION	POOR													
TITY & CO	FAIR													
QUAN	GOOD				9,000 sq.ft.	1,872 sq.ft.	5,342 sq.ft.	1						
EGORY	MISC F/NF				×	×	×	×						
AHERA CATEGORY	TSI													
ΑΥ	SUR.													
ACTERIZATION	FUNCTIONAL SPACE	1970 South Addition	1970 South Addition	1970 South Addition	1970 South Addition Roof	1970 South Addition Roof	1940 Original Construction & 1950 Construction – First Floor	1940 Original Construction & 1950 Construction – First Floor	1940 Original Construction – First Floor					
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Sink Bottom Coating - White	Sink Bottom Coating - White	Sink Bottom Coating - White	Built Up Roof Decking	Tarred Roof Flashing	Transite Ceiling	Transite Ceiling	Wall Cement on Tar & Cork	Wall Cement on Tar & Cork	Wall Cement on Tar & Cork	Cciling Plaster on Tar & Cork	Ceiling Plaster on Tar & Cork	Cciling Plaster on Tar & Cork
IDENTIFICATION	LOCATION	Canal Road	23	33	33	35	33	33	4	39	23	77	99	39
IDE	#0	10	02	03			40	05	90	07	80	60	01	=

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Bulk Sampling Information Form

RESULT	, % ASBESTOS	99	S S	Q	QN	QN	QN QN	ON ON	ON ON	ON ON	Q	Qu	Q.
POTENTIAL FOR DISTURBANCE	нісн мор. гом												
QUANTITY & CONDITION	FAIR POOR												
AHERA CATEGORY QI	SUR TSI MISC. GOOD F/NF												
VACTERIZATION	FUNCTIONAL SPACE S	1940 Original Construction – First Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second				
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Cciling Plaster on Tar & Cork	Ceiling Plaster on Tar & Cork	Red Concrete Floor Coating	Red Concrete Floor Coating	Red Concrete Floor Coating	Stair Tread & Riser Covering	Stair Tread & Riser Covering	Cove Base – 4-inch Black Mastic	Cove Base – 4-inch Black Mastic	Ceiling File – 12-inch by 12-inch with Large Holes	Ceiling Tile – 12-inch by 12-inch with Large Holes	Ceiling Tile – 12-inch by 12-inch with Large
IDENTIFICATION	LOCATION	Canal Road	>>	29	"	37	55	29	"	"	29	33	79
IDE	#0	12	13	41	15	91	71	<u>∞</u>	61	20	21	22	23

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND -- No Asbestos Detected

Asbestos Bulk Sampling Information Form

4IR	ann	F/NF	L SPACE SUR TSI
	×	×	- Second
	×	×	- Second
	×	X	- Second
	×	×	Second
	X	×	1940 Original Construction – Second Floor
	×	X	Original uction — Second
	×	X	1940 Original Construction – Second Floor
	X	×	1940 Original Construction – Second Floor
			1940 Original Construction – Second Floor
			1940 Original Construction – Second Floor
			1940 Original Construction – Second Floor
			1940 Original Construction – Second Floor

Rcd quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	QN	QN	QN	QN	QN	1.2	2.5	5,2 ND	NA ND	3.8	NA
POTENTIAL FOR DISTURBANCE	HIGH MOD LOW											
QUANTITY & CONDITION	POOR											
QUANTITY	GOOD FAIR						744 sq.ft.		80 sq.ft.	*	252 sq.ft.	3
EGORY	MISC. F/NF						X	×	Х	×	×	×
AHERA CATEGORY	SUR. TSI											
MATERIAL CHARACTERIZATION	FUNCTIONAL SPACE	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor					
MATERIAL CHAF	HOMOGENEOUS AREA	Drywall Ceiling	Drywall Ceiling	Drywall Ceiling	Drywall Ceiling	Drywall Ceiling	Adhesive - Black	Adhesive - Black	Floor Tile – 12-inch by 12-inch, Reddish Brown with Specks Mastic	Floor Tile – 12-inch by 12-inch, Reddish Brown with Specks Mustic	Floor Tile - 9-inch by 9-inch, Light Green with Green Streaks Mastic	Floor Tile – 9-inch by 9-inch, Light Green with Green Streaks Mastic
IDENTIFICATION	LOCATION	Canal Road	39	33	95	33	33	3	23	33	79	33
IDE	#01	36	37	38	39	40	41	42	43	44	45	46

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	35	NA	35	NA	S S	<u> </u>	ON ON	ON ON	ON ON	ON ON	30	NA
POTENTIAL FOR	MOD LOW												
POTE	нісн												
QUANTITY & CONDITION	POOR												
IITY & CO	FAIR												
QUAN	GOOD	152 sq.ft.	*	3	1							72 sq.ft.	1
GORY	MISC, F/NF	×	X	×	×							×	×
AHERA CATEGORY	TSI												
AHE	SUR.												
RACTERIZATION	FUNCTIONAL SPACE	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction - Second Floor	1940 Original Construction – Second Floor							
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Floor Sheeting – Off White Stone Pattern	Floor Sheeting – Off White Stone Pattern	Floor SheetingWhite Square Pattern	Floor Sheeting – White Square Pattern	Drywall System	Drywall System	Drywall System	Textured Drywall Ceiling	Textured Drywall Ceiling	Textured Drywall Ceiling	Transite Fluc	Transite Flue
IDENTIFICATION	LOCATION	Canal Road	99	>9	23	23	99	273	23	77	99	99	55
IDE	#01	47	48	49	50	51	52	53	54	55	56	57	58

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities. ND – No Asbestos Detected

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	QN	QN	QN	ND	ND	QN	ND 1.4	QN	ON ON	N Q Q	ON ON	QN
POTENTIAL FOR	нісн мор гом												
QUANTITY & CONDITION	FAIR POOR							1,800 sq.ft.					
AHERA CATEGORY QU	TSI MISC. GOOD F/NF							X 1,8	×				
-	FUNCTIONAL SPACE SUR	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction – Second Floor	1940 Original Construction - Basement	1940 Original Censtruction - Basement	1940 Original Construction - Basement	1940 Original Construction - Basement	1940 Original Construction - Basement				
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA F	Ceiling Tile – 1-foot by 19 1-foot, Flat Fly	Ceiling Tile – I-foot by 19 1 –foot, Flat Co	Ceiling Tile – 1-foot by 19 1-foot, Flat Co	Drywall 19 Cc	Drywall [9]	Drywall 19 Co Ba	Floor Covering – 19 Brown Co	Floor Covering - Brown 19 Co Ba	Tar Coated Cork Pipe 19 Insulation Co	Tar Coated Cork Pipe [60] Insulation Co	Tar Coated Cork Pipe 19 Insulation Co	Tar on Duct Co
IDENTIFICATION	LOCATION	Canal Road	23	99	3	7,5	55	33	59	3	3	ņ	29
	ID#	59	09	61	62	63	49	99	99	29	89	69	70

 $\frac{\text{Red}}{\text{quantities indicate the asbestos-containing materials to be abated prior to demolition activities.}\\ \text{ND}-\text{No Asbestos Detected}$

Asbestos Survey - Canal Road, 2394 Canal Road, Cleveland, Ohio HzW Environmental Consultants, LLC - Project No. H10002-14 ODOT District 12

Asbestos Bulk Sampling Information Form

RESULT	% ASBESTOS	ND	Q.	QN	QZ	QN	ND	QN	QN	Assumed	Assumed	Assumed
POTENTIAL FOR DISTURBANCE	том											
	MOD.											
	HIGH											
QUANTITY & CONDITION	POOR											
	FAIR											
	GOOD									8 sq.ff	9,060 sq.ft.	1,998 sq.ft.
AHERA CATEGORY	MISC. F/NF									×	×	×
	ISI											
	SUR											
ACTERIZATION	FUNCTIONAL SPACE	1940 Original Construction - Basement	1940 Original Construction - Basement	1940 Original Construction - Basement	1940 Original Construction Sub Basement	1940 Original Construction Sub Basement	1940 Original Construction Sub Basement	1940 Original Construction Second Floor	1940 Original Construction Second Floor	Basement	1940 Original Construction & 1950 Addition Roof	1940 Original Construction & 1950 Addition Roof
MATERIAL CHARACTERIZATION	HOMOGENEOUS AREA	Tar on Duct	Wood-like Insulation	Wood-like Insulation	Drywall	Drywall	Drywall	Vibration Dampeners	Vibration Dampeners	Transite	Built Up Roof Decking	Tarred Flashing
IDENTIFICATION	LOCATION	Canal Road	23	93	23	33	77	22	27	3	39	¥
IDE	#QI	7.1	72	73	74	75	76	60A	61A			

 $\frac{\text{Red}}{\text{quantities indicate}} \text{ the asbestos-containing materials to be abated prior to demolition activities.} \\ \text{ND}-\text{No Asbestos Detected}$

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED

Scranton-Averill

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985932

Description / Location:

44060

Tan Ceiling Tile

Client No.: 01

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

None Detected

Lab No.: Client No.: 02

3985933

Description / Location: Tan Ceiling Tile

% Non-Fibrous Material

% Asbestos

<u> Type</u>

% Non-Asbestes Fibrous Material

Type Callalose

None Detected

None Detected

100

None Detected

Lab No.:

3985934

Description / Location: Tan Ceiling Tile

% Non-Fibrous Material

% Asbestos

Client No.: 03

Type

% Non-Asbestos Fibrous Material

Турс

None Detected

Name Detected

100

Cellulose

None Detected

Lab No.:

3985935

Description / Location:

Tan Ceiling Tile

Client No.: 04

Турс

Туре

% Non-Fibrous Material

% Asbestos None Detected

None Detected

% Non-Asbestos Fibrous Material 100

Celhilose

None Detected

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 fall, 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 aspectors 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 snalyzed. 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:

6/12/2010

Page 1 of 19

Frank E. Ehrenfeld, III Laboratory Director

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985936

Description / Location:

44060

Tan Ceiling Tile

Client No.:

Type

% Non-Axhestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

100

Cellulosc

None Detected

Lab No.:

3985937

Description / Location: Tan Ceiling Tile

Client No.: 06

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

None Detected

Lab No.:

3985938

Description / Location: White Joint Compound

Client No.: 07 % Asbestos

Type

% Non-Asbestos Fibrons Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985939

Description / Location; White Joint Compound

Client No.: 08

Type

% Non-Asbestos Pilmous Material

<u>Type</u>

% Non-Fibrous Material

% Asbestos None Detected

None Detected

None Detected

None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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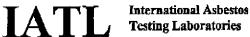
Analysis Method: EPA 600/R-93/116

(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 arbestos 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 asbeness 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:

6/12/2010



Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985940

Description / Location;

44060

White Joint Compound

Client No.: 09

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985941

Description / Location: White Joint Compound

Client No.: 10

% Ashestos

Турс

% Non-Ashestos Fibrous Material

Tvp≥

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985942

Description / Location: White Joint Compound

Client No.: 11

% Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

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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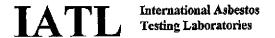
Analysis Method: EPA 600/R-93/116

(PC) Indicates Stratified Point Cours 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 salestos 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 metrix.

Analysis Performed By: B. Faulseit

Date:

6/12/2010



Client:

HZW Environmental Consultants

Report Date: 6/14/2010

6105 Heisley Rd.

Project:

ODOT Scranton Averell

Mentor

OH44060 Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

% Aspestos

3985943

Description / Location:

Green Floor Tile

Client No :

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

Chrysotile

None Detected

None Detected

Lab No.:

3985943

Description / Location:

Black Mastic

Layer No.: 2

Client No.: 12

% Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

PC 3.5

Chrysotile

None Detected None Detected

PC 96.5

Lab No.:

3985944

Description / Location: Green Floor Tile

Client No.: 13

% Asbestos

Туре

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material 90

10

Chrysotile

None Detected

None Detected

Lab No.:

3985944

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

13

% Asbestos

Type

% Non-Asbestos Fibrous Material

<u>Tvpe</u>

% Non-Fibrous Material

PC 3.1

Chrysotile

None Detected

None Detected

PC 96.9

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

(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 metrix.

Analysis Performed By: B. Faulscit

Date:

6/12/2010

Page 4 of 19

Client:

HZW Environmental Consultants

Report Date: 6/14/2010

6105 Heisley Rd.

Project:

ODOT Scranton Averell

Mentor

44060 OH

Project No.:

H10002-I3

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985945

Description / Location:

Black Tar Paper

Client No.: 14

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrons Material

% Asbestos None Detected

None Detected

Cellulose

50

Lab No.:

3985946

Description / Location: Black Tar Paper

Client No.: 15

Туре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

50

Çellulosc

ج۸

Lab No.:

3985947

Description / Location: Black Floor Tile

Client No.: 16

% Asbestos

Түра

% Non-Asbestos Fibrous Material

 \underline{Type}

% Non-Fibrous Material

Chrysotile

None Detected

None Detected

Description / Location: Black Floor Tile

Lab No.:

% Asbestos

3985948

Client No.: 17

Type

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

10

Chrysotile

None Detected

None Detected

MIST-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 (PC) indicates similared Point Count Method performed. Method not personned waters stated. Quantification at Quantification is possible with any method. (PC-Trace) represents with limit of quantifiation. (PC-Trace) means that usbestos was detected but is not quantifiable under the Point Coording 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 ashestos fibers may be missed by PLM that the 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 due to resolution limitations of the optical microscope. is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date:

6/12/2010

Page 5 of 19

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985949

Description / Location:

44060

Brown Floor Tile

Client No.: 18

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

10

Chrysotile

None Detected

None Detected

90

Lab No.:

3985949

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985950

Description / Location: Brown Floor Tile

Client No.: 19

% Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material 90

10

Chrysotile

None Detected

None Detected

Lab No.:

3985950

Description / Location:

Black Mastic

Layer No.: 2

Client No.: 19

Type

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

% Asbestos 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:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

H10002-13 Project No.:

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbastos

3985951

Description / Location:

Tan Glazing

Client No.: 20

Type

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

None Detected

None Detected

None Detected

Name Detected

100

Lab No .:

3985952

Description / Location: Tan Glazing

Client No.: 21 % Asbestos

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

Lab No.:

3985953

Description / Location: Tan Glazing

Client No.: 22

% Asbestos

Түре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

3985954

Description / Location:

Tan Wrap

Lab No.

% Asbestos

Client No.: 23

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

Type Chrysotile

20

Cellulosc

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

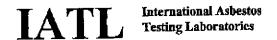
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Analysis Performed By: B. Faulseit

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

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Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985955

Description / Location:

44060

Tan Wrap

Client No.: 24

% Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Pibrous Material

60

Chrysotile

Cellulose

Lab No.:

3985956

Description / Location:

Tan Wrap

Client No.: 25

% Asbeston

Туре

% Non-Asbestos Fibrous Material

<u>Түре</u>

% Non-Fibrous Material

60

Chrysotile

20

Cellulose

20

Lab No.:

3985957

Description / Location:

Tan Mastic

Client No.: 26

% Asbestos

Туре

% Non-Asbestos Fibrous Material 3

Type

% Non-Fibrous Material 97

Name Detected

Name Detected

Other

Lab No.:

3985958

Description / Location:

Tan Mastic

Client No.: 27

T<u>vpc</u>

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Other

97

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

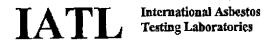
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Analysis Performed By: B. Faulseit

Date:



Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

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44060

Report Date: 6/14/2010

Project: ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985959

Description / Location:

Tan Sheetrock

Client No.:

% Asbestos

Тура

% Non-Asbestos Fibrous Material

Type

% Non-Pibrous Material

None Detected

None Detected

Cellulose

Lab No.:

3985960

Description / Location:

Tan Sheetrock

Client No.: 29

% Asbestos

Type

% Non-Asbestos Fibrous Material

<u>Туре</u>

% Non-Fibrous Material

None Detected

None Detected

20

Celhulose

80

Lab No.:

3985961

Description / Location:

Tan Sheetrock

Client No.: 30

% Ashestos

Type

% Non-Asbestos Fibrons Material

Турс

% Non-Fibrous Material

None Detected

None Detected

20

Cellulose

80

Lab No.:

3985962

Description / Location:

Tan Glazing

Client No.: 31

Type:

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos PC 1.3

Chrysotile

None Detected

None Detected

PC 98.7

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Faulseit

Date:

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Client:

HZW Environmental Consultants

Report Date: 6/14/2010

6105 Heisley Rd.

Project:

ODOT Scranton Averell

Mentor

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44060

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985963

Description / Location:

Tan Glazing

Client No.: 32

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 1.2

Chrysotile

None Detected

None Detected

PC 98.8

Lab No.:

3985964

Description / Location: Tan Glazing

Client No.: 33

% Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 1.2

Chrysotile

None Detected

None Detected

PC 98.8

Lab No .:

3985965

Description / Location:

Tan Ceiling Tile

% Asbestos

Client No.: 34

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Pilmous Glass

20

Lab No.:

3985965

Description / Location: Brown Mastic

Layer No.: 2

Client No.: 34

Type

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Type: Other

98

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Faulseit

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

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Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985966

Description / Location:

44060

Tan Ceiling Tile

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrons Material

None Detected

None Detected

80

Fibrous Glass

20

Lab No.:

3985966

Description / Location:

Brown Mastic

Layer No.: 2

Client No.: 35 % Asbestos

Турс

<u>Type</u>

% Non-Fibrous Materia)

None Detected

None Detected

% Non-Asbestos Fibrous Material

Other

97

Lab No.:

3985967

Description / Location:

Tan Ceiling Tile

Client No.: 36

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

ጸበ

Pibrous Glass

20

Lab No.:

3985967

Description / Location:

Brown Mastic

Layer No.: 2

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Other

97

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Faulseit

Date:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985968

Description / Location:

Tan Floor Tile

Client No.: 37

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 5.1

Chrysotile

None Detected

None Detected

PC 94.9

Lab No.: Client No.: 3985968

Description / Location:

Black Mastic

Layer No.: 2

% Asbestos

PC 3.1

Турс Chrysotile % Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

None Detected

PC 96.9

Lab No .:

3985969

Description / Location:

Tan Floor Tile

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

PC 4.2

Chrysotile

None Detected

None Detected

PC 95.8

Lab No.:

3985969

Description / Location:

Black Mastic

Layer No.: 2

Client No.: 38 % Asbestos

Турс

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

PC 3.2

Chrysotile

None Detected

None Detected

PC 96.8

NIST-NVLAP No. 101165-0

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Analysis Performed By: B. Faulseit

Date:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

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Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985970

Description / Location:

Tan Floor Tile

Client No.: 39

Туре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

10

Chrysotile

None Detected

None Detected

Lab No.:

3985970

Description / Location:

Black Mastic

Layer No.: 2

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 2.1

Chrysotile

None Detected

None Detected

PC 97.9

Lab No.:

3985971

Description / Location:

Tan Floor Tile

Client No.: 40

% Asbestos

Type:

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

Chrysotile

None Detected

None Detected

90

Lab No.:

3985972

Description / Location:

Brown Cove Base

Client No.: 41

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos 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. Faulscit

Date:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

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Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985973

Description / Location:

Brown Cove Base

Client No.: 42

% Asbestos

Турс

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985973

Description / Location:

Black Mastic

Layer No.: 2

Client No.: % Авьетов

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC Trace

Туре Chrysotile

Other

Lab No.:

3985974

Description / Location: Black Cove Base

Client No.: % Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985974

Description / Location:

Tan Mastic

Layer No.: 2

Client No.:

% Non-Asbestos Fibrous Material

Туре

% Asbestos None Detected

Type None Detected

None Detected

None Detected

% Non-Fibrous Material 100

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(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 (PC) indicates Strained from Count Method performed, Michod has performed unless stated. Quantification at 10.2278 by volume is possible with this method in the performed and stated but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with RPA 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.

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Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

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Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.;

% Asbestos

3985975

Description / Location:

44060

Black Cove Base

Client No.: 44

Type:

Турс

% Non-Fibrous Material

None Detected

None Detected

% Non-Asbestos Fibrous Material None Detected

None Detected

100

Lab No.:

3985975

Description / Location:

Tan Mastic

Layer No.: 2

Client No.:

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

% Non-Asbestos Fibrous Material None Detected

<u>Tvpe</u> None Detected

100

Lab No.:

3985976

Description / Location:

Tan Mastic

Client No.: 45

% Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

None Detected

Other

98

Lab No.:

3985977

Description / Location:

Tan Mastic

Client No.: 46

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Other

98

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

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Analysis Performed By: B. Faulseit

Date:

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Client:

HZW Environmental Consultants

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6105 Heisley Rd.

Project:

ODOT Scranton Averell

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44060

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

% Asbestos

3985978

Description / Location:

Tan Sheetrock

Client No: 47

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

None Detected

Cellulose

80

Lab No.:

3985979

Description / Location: Tan Sheetrock

Client No.: 48

% Non-Fibrous Material

% Asbestos None Detected

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

<u>Type</u> Cellulose

Lab No.:

3985980

Description / Location:

Tan Sheetrock

Client No.: 49

% Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

Cellulose

80

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: B. Faulseit

Date:

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9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3985981

Description / Location:

Tan Sheetrock

Client No.:

Турс

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

Cellulose

80

Lab No.:

3985981

Description / Location:

White Joint Compound

Layer No.: 2

% Asbestos

Client No.: 50

None Detected

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

None Detected

100

Lab No.:

3985982

Description / Location: Tan Sheetrock

Client No.: 51

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

20

Cellulose

80

Lab No.:

3985982

Description / Location:

White Joint Compound

Layer No.: 2

Client No.:

Type:

% Non-Asbestos Fibrons Material

Туре

% Non-Fibrous Material

% Asbestos None Detected

None Detected

None Defected

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:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985983

Description / Location:

Tan Sheetrock

Client No.:

%_Asbestos

Type

% Non-Asbestos Fibrous Material

Тура

% Non-Fibrous Material

None Detected

None Detected

20

Cellulose

Lab No.:

3985983

Description / Location:

White Joint Compound

Layer No.: 2

% Asbestos

Client No.: 52

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985984

Description / Location: Black Non Fibrons

Client No.: 53

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3985985

Description / Location: Black Non Fibrous

Client No.: 54

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

% Asbestos 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:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/14/2010

Project:

ODOT Scranton Averell

Project No.:

HI0002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3985986

Description / Location:

Tan Glazing

Client No.:

Турс

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Nane Detected

None Detected

100

Lab No.:

3985987

Description / Location: Tan Glazing

% Asbestos

Type

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

Client No.: 56

None Detected

None Detected

None Detected

100

Lab No.:

3985988

Description / Location:

Tan Glazing

Client No.: 57

% Asbastcs

Type |

% Non-Asbestos Fibrous Material

Тур∉

% Non-Fibrous Material

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:



9000 Commerce Parkway Suite 8 Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@iatl.com Www.iatl.com

Client: HzW Environmental Consultants. LLC	Project Name: ODOT (SCRANTON AVEREIL)
6105 Heisley Road Mentor, Ohio 44060	Project No.: H10002-13
Office Phone: 440-357-1260 Cell Phone:	Contact 1: Joan Sablar
FAX / Email 1: 440-357-1510	Contact 2:
2777 Billan 1: 440-357-1510	FAX / Email 2 JSablar@hzwenv.com
Special	Pot 5353-10
Instructions:	40. 7377 10
Matrix: Air Soil Bulk Water Paint Surf	ace Dust / Wipc
Analysis Method:	
PLM: Bulk Asbestos Building Materials EPA 600 / R 93-1	16
PLM: Point Counting PC: via BLAP 198.1 PC: 400 Points PC: 800 Points *	PLM: Analyze Until Positive (Positive Stop) AUP: by Homogenous Area as Noted AUP: by Material Type as Noted
PC : other Points *	PLM: Non-Building Material *, **(Dust, Wipe, Tape, Soil) Soil or Vermiculite Analysis *, **
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: 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 Met	hod (ex: EPA 600/R-04/004) may be recommended by Laboratory
Towns	
Time:	□ Verbals □ FAX □ Email
10 Day 5 Day 3 Day 2 Day	1 Day* 12 Hour** 6 Hour** P(1918*
* End of next business day unless otherwise specified. ** M	latrix Dependent. Please notify the lab before shipping.
Sample Numbers:	
Client #(s): 0/ 57	
(start) (end) Please use your sample log to supply sampling information (ex. Volume	Total 2
	wast phones, recations, etc.) or download forms at latt.com
Chain of Custody: Relinquished (Name / Organization): Received (Name / iATL): Sample Login (Name / iATL): (N /)	Date 6/9/10 Time 8/20
Sample Prep (Name / IATL):	Date:
Analysis(Name(s) / iATL)	Time:
QA/QC Review (Name / iATL): Archived / Released: QA/QC Intert AR Hay	The state of the s
Archived / Released: QA/QC InterLAB Use:	Date: Time:
	IATI - ZV



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Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT (SCRANTON AVEARS)
Project No.: #10002-13

			V1000X-12
Client Sample ID:	iATL Sample ID:	Sample Description / Location	
01	3985932	CT	Notes
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Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODJ (SCANTON AUTURAL)
Project No.: 171002-13

lient Sample ID:		Sample Description / Location	
_29	3985960	Prywall	Notes
30	3985961)	
31	3085062	Comp. Cli	
32	3985962 3985963	Window GLAZIA	
33	3985964		
. 34	3985965	(
. 35	3985,966	CT + GLUR	
36	3985967		
. 36 27	3985968		
38	3985969	JET & MUFIL	
39			
40 1	3985970	FT + mastic	
4/	3985971 3985972		
46	3985973	CCUR BAYE + MAUTH	
47	3985974		
44		COUR BAR + MITH	
4/5	3985975		
46	3985976	ADN FESCURE	
47	3985977		
48	3985978	Dynarl	
75	39 85979		
	3 9 85980		
50	3985981	Duyunu system	- , , , , , , , , , , , , , , , , , , ,
3/	3985982 3985983	- price-	
52	3385383		
57 3	3985984	Flux coating	
54 3	985985	Land Courting	
	985986	laindu gistzia	
56 3	985987	- Whelen Alter	

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Mt. Laurel, NJ 08054
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info@iatl.com
www.iatl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: (SCAATON AN FRAGE)
Project No.: 1410002-18

Client Sample ID:	iATL Samule ID-	Samula Danavinsi / / /	
57	iATL Sample ID: 3985988	Sample Description / Location (Window Chary	Notes
	000000	Winder Glorey	
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> info@iatl.com www.iatl.com

Client:	HzW Environmental Consultants. L	LC Project Nam	e: ODUT (SC	RANTON AVERTIL
	6105 Heisley Road	Project No.:	H10002	1 12
	Mentor, Ohio 44060			
Office Pho	ne: 440-357-1260	Contact 1:	J 0.11	
Cell Phone		Contact 1:	Joan Sablar	
FAX / Ema	iil 1: 440-357-1510		2 JSablar@hzwenv.co	·
		2		<u>)m</u>
Special		Por	5353-10	
Instruction	S:	<u> </u>		
Matrix:				
	Air Soil	D.Jr.		
	Water Paint	Bulk Surface Dust / Wipe	Other	
Analysis N	Method:			
TXIPLM : BU	ulk Asbestos Building Materials EPA 600 / J	2.02.116		
l		₹ 93-116		
PLM:Po	oint Counting	PLM : Analyze Until	l Positive (Positive Stop)	
	PC: via ELAP 198.1 PC: 400 Points	[AUP : by H	omogenous Area as Note	ed .
	PC: 400 Points	AUP : by M	laterial Type as Noted	
	PC: other Points *			
<u></u>		Soil or Ver	Material *, **(Dust, Wi miculite Analysis *, **	pe, Tape, Soil)
DIM: G	ovimatela D. L. C.		micume Analysis *, **	
	avimetric Reduction PLM : NOB via 198.6	PLM: Instructions for	or Multi-Layered Sample	s
	PLM : Friable via EPA 600 2.3	Analyze and	Report All Separable La	avers per EPA 600
' 11	f <1% by PLM, to TEM via 198.4 *	Report Com	posite for Drywall Syster	ms per NESHAP
11	f <1% by PLM, Hold for Instructions	Only Analyz	ayers and Composite Wite and Report Specificall	nere Applicable
* Additional shap	wa and the second secon			
Additional cliar	ge and turnaround may be required. ** Alternat	ive Method (ex: EPA 600/R-04/0	04) may be recommended b	y Laboratory.
Turnaroun	*			
Time:	Preliminary Results Requested By	[🗅 Verbals 💢 🗀 FA	X 🛛 Email
inic.		date / time		
10 Da	y 5 Day 3 Day 2 Da	y	our** 6 Hour**	Proven
* End of ne	ext business day unless otherwise specified.			
	diffes otherwise specified.	** Matrix Dependent. Please	notify the lab before shipping	ng.
Sample Nu	mbers:			
•	Client #(s):	(ATT 4/_).	÷	
n.	(start) (and)	iATL#(s):	start) (end)	_Total:
Please	use your sample log to supply sampling information (e	ex. Volumes, areas, descriptions, locat	ions, etc.) or download forms a	at latt.com
Chain of Cu				
Relinani	ished (Name / Organization):	Els.	1101	
Receive	d (Name / iATL):		Date: 6/9/10	Time: Dico
Sample i	Login (Name / iATL)		Date:/	Time:
Sample	rrep (Name / IATL):		Pate:	_Time:
1 111417313	((Agine(2) / IATE):		Pate: Pate:	_ Time:
QA/QC :	Review (Name / iATL):	. <u></u>	Pate:	_ Time: _ Time:
Archived	d / Released:QA/QC InterLA	AB Use:n	late:	Time:



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www.iatl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT	(SCRANTON AVENED
	H10002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
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02)	
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27			
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info@iatl.com www.iatl.com

Client:

HzW Environmental Consultants, LLC

6105 Heisley Road Mentor, Oh 44060

Project Name: ODJ (SCRATOW AVELENI)
Project No.: 1+1002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	
29		Prywall	Notes
30			
_31		12/10 1 (14)	
32		Window Glazing	
33			
34			
35		CT + GLUK	
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7		Cyndu glazin	

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Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: Out (SCIATION AV FRIELD)
Project No.: 1410002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
57		Window Charing	rotes
			+

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Canal Road

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994287

Description / Location:

44060

White Insulation

Sink Bottom Coating

Client No.:

Type

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Cellulose

85

Lab No.:

Description / Location:

White Insulation

Sink Bottom Coating

Client No.: 02 % Asbestos

% Non-Ashestos Fibrous Material

% Non-Fibrous Material

None Detected

Type. None Detected

10

Cellulose

Lab No.:

3994289

Description / Location:

White Insulation

Sink Bottom Coating

Client No.: 03 % Ashestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Pibrous Material

None Detected

None Detected

15

Cellulose

Lab No.:

3994290

04

Description / Location:

Grey Transite

Ceiling

Client No.: % Asbestos

Typė

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

30

Chrysotile

None Detected

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 quantifiation. (PC-Trace) means that ashestos was described but its 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 metrix.

Analysis Performed By: L. Price

Approved By:

Date:

6/22/2010

Page I of 31

Frank E. Ebrenfeld, III Laboratory Director

Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

OH

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3994291

Description / Location:

44060

Grey Transite

Ceiling

Client No.: 05

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

30

Chrysotile

None Detected

None Detected

70

Lab No.:

3994292

Description / Location:

Black/Brown Tar/Cork

Wall

Wall

Client No.: 06 % Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994292

Description / Location:

White Cementitious

Layer No.: 2

ÓĞ Client No.:

% Asbestos

Τγρε

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

PC 0.75

Chrysotile

None Detected

None Detected

PC 99.25

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analys	is Performed	By:	L. PTICE

Date:

6/22/2010

Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

OH

44060

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994293

Description / Location:

Black/Brown Tar/Cork

Wall

Client No.: 07 % Asbestos

% Non-Ashestos Pibrous Material

Type

% Non-Fibrous Material

None Detected

Турс None Detected

None Detected

None Detected

Lab No.:

% Asbestos

3994293

Description / Location:

White Cementitious

Layer No.: 2

Client No.:

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 0.5

Chrysotile

None Detected

None Detected

PC 99.5

Lab No.:

3994294

Description / Location:

Black/Brown Tar/Cork

Wall

Client No.:

% Asbestos

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material 100

None Detected

None Detected

None Detected

None Detected

Lab No.:

3994294

Description / Location:

White Cementitions

Layer No.: 2

Client No.:

% Asbestos

1/2 Non-Ashestos Fibrous Majerial

Type

% Non-Fibrous Material

PC 0.75

Турс Chrysotile

None Detected

None Detected

PC 99.25

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis	Performe	d By:	L, Price
----------	----------	-------	----------

Date:

6/22/2010

Page 3 of 31

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

QDQT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.: 3994295

Description / Location:

44060

Black/Brown Tar/Cork

Ceiling

Calling

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Pibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994295

Description / Location:

Grey Cementitious

Layer No.: 2

Client No.:

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

Туре None Detected

None Detected

None Detected

100

Lab No.:

3994296

Description / Location:

Black/Brown Tor/Cork

Client No.: 10

Ceiling

% Ashestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994296

Description / Location:

Grey Comontitious

Layer No.: 2

Client No.:

Ceiling

% Asbestos

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 190188

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Analysis Performed By: L. Price

Date:

6/22/2010

Page 4 of 31

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .: Client No.: 3994297

Description / Location:

44060

Black/Brown Tar/Cork

Ceiling

Coiling

% Ashestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibraus Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994297

Description / Location:

Grey Cementitious

Layer No.: 2

Client No.: % Asbestos

Туре

1/2 Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994298

Description / Location:

Black/Brown Tar/Cork

Client No.: 12

Ceiling

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994298

Description / Location:

Grey Cementitious

Layer No.: 2

% Asbestos

Client No.:

% Non-Pibrous Material

None Detected

Type None Detected % Non-Asbestos Fibrous Material

None Detected

Type 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: L. Price

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

QDQT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Ceiling

Ceiling

Lab No.:

3994299

Description / Location:

44060

Black/Brown Tar/Cork

Client No.:

<u>Туре</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

None Detected

None Detected

Lab No.:

3994299

Description / Location:

Grey Cementitious

Layer No.: 2

Client No.:

% Asbestos

Тупе

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994300

Description / Location:

Red Cementitious

Client No.:

% Ashestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994301

Description / Location:

Red Cementitious

Client No.: 15

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

% Asbestos Nane 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: L. Price

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

ŌН

Report Date:

6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994302

Description / Location:

44060

Red Cementitious

Client No.: 16

CHORETTON 10

Тупе

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Aspestos

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994303

Description / Location:

Green/Brown Floor Tite

Stair Tread

Client No.: 17
% Asbestos

Type

% Nnn-Ashestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

30

Cellulose

=0

Lab No.:

3994303

Description / Location:

Off-White Mastic

Stair Tread

Layer No.: 2

Client No.: 1

% Asbestos

Турс

% Non-Asbestos Fibrous Material
None Detected

<u>Type</u>

% Non-Fibrous Material

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: L. Price

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

44060 OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994304

Description / Location:

Green/Brown Floor Tile

Stair Tread

Chient No.:

Type

% Non-Ashestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Cellulose

Lab No.:

3994304

Description / Location:

Off-White Mastic

Stair Tread

Layer No.: 2

Client No.:

<u>Type</u>

Type

% Non-Fibrous Material

% Asbestos

% Non-Asbestos Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994305

Description / Location:

Black Rubber Cove Base

Client No.: 19

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

None Detected

None Detected

100

3994305

Description / Location:

Brown Mastic

Layer No.: 2

Lab No.: Client No.:

Yvne

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos 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: L. Price

Date:

6/22/2010

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Client:

HZW Environmental Consultants

OH

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

44060

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994306

Description / Location:

Black Rubber Cove Base

Client No.:

% Non-Fibrous Material

% Asbestos None Detected

Type None Detected

None Detected

% Non-Asbestos Fibrous Material

Type None Detected

Lab No.:

3994306

Description / Location:

Brown Mastic

Layer No.: 2

Client No.:

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Ashestos None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994307

Description / Location:

White/Brown Coiling Tile

Client No.: 21

% Asbestos

% Non-Asbestos Fibrous Material

Typė

% Non-Fibrous Material

None Detected

None Detected

Cellulose

Lab No.:

3994308

Description / Location:

White/Brown Ceiling Tile

Client No.:

Type

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Collulose

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis	Performed	By:	L. Price
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Date:

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date:

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

6/22/2010

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994309

Description / Location:

44060

White/Brown Cailing Tile

Client No.:

% Asbestos

Туре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

2

Lab No.:

3994310

Description / Location:

Grey Floor Tile

Client No.:

% Asbestos

<u>Туре</u>

Type

% Non-Fibrous Material

PC 2.3

Chrysotile

% Non-Asbestos Fibrous Material None Detected

None Detected

PC 97.7

Lab No .:

3994310

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Ashestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

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 I	erformed	By: L	. Price	

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994311

Description / Location:

Grey Floor Tile

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 2.1

Chrysotite

None Detected

None Detected

PC 97.9

Lab No.:

3994311

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

 $\underline{\text{Type}}$

% Non-Ashestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994312

Client No.:

% Asbestos

Type

% Non-Ashestos Fibrous Material

<u>Τνης</u>

% Non-Fibrous Material

PC 3.1

Chrysotile

None Detected

None Detected

PC 96.9

Lab No.:

3994312

Description / Location:

Description / Location:

Black Mastic

Brown Floor Tile

Layer No.: 2

Client No.:

% Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

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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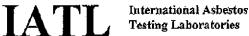
Analysis Method: EPA 600/R-93/116

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Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

OH44060 Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994313

Description / Location:

Brown Floor Tile

Client No.:

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

PC 4.1

Chrysotile

None Detected

None Detected

PC 95.9

Lab No.:

3994313

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994314

Description / Location:

Brown Floor Tile

Client No.: 28

% Asbestos

Туре

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

PC 3.5

Chrysotile

None Detected

None Detected

PC 96 5

Lab No .:

3994314

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Type None Detected % Non-Ashestos Fibrous Material

Турс Cellulose % Non-Fibrous Material

None Detected

97

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Date:

6/22/2010

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994315

Description / Location:

44060

Brown Floor Tile

Client No.:

% Asbestos

Туре

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

PC 2.8

Chrysotile

None Detected

None Detected

PC 97.2

Lab No.:

3994315

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Type

% Non-Ashestas Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

98

Lab No.:

3994316

Description / Location:

Brown Floor Tile

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

PC 2.5

Chrysotile

None Detected

None Detected

FC 97.5

Lab No.:

3994316

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Туре

% Non-Asbestos Fibrous Material

<u>Туре</u> Cellulose <u>% Non-Fibrous Material</u>

None Detected

None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: L. Price

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6/22/2010

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Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

OH44060 Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994317

Description / Location:

Brown Floor Tile

Client No.: 31

% Asbestos

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

PC 3.1

None Detected

None Detected

None Detected

PC 96.9

Lab No.:

3994317

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

98

Lab No.:

3994318

Description / Location: Brown/Black Floor Tile/Backing

Client No.: 32

% Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC Trace

Chrysotile

Cellulose

40

Lab No.:

3994319

Description / Location: Brown/Black Floor Tile/Backing

Client No.: 33 % Ashestos

Tync

% Non-Asbestos Fibrous Material

Type

% Non-Pibrous Material

PC Trace

Chrysotile

Cellulose

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 try) indicates an annear rount count against a parameter. Provided that is not quantifable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with 1274 600 Melhod. 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 FLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy cm be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis	Performed	By:	L. Price
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Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH 44060 Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994320

Description / Location:

Brown Rubber Cove Base

Client No.:

% Asbestos

Type

Type

% Non-Fibrous Material

None Detected

None Detected

% Non-Asbestos Fibrous Material None Detected

None Detected

Lab No.:

3994320

Description / Location:

Brown Mastic

Layer No.: 2

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lah No.:

3994321

Description / Location:

Brown Rubber Cove Base

Client No.:

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Pibrous Material 100

None Detected

None Detected

None Detected

None Detected

Lab No.:

3994321

Description / Location:

Tan/Brown Mastic

Layer No.: 2

Client No .:

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos 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	Perfor	med By:	L.	Price
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Date:

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9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No .:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994322

Description / Location:

44060

Brown/White Sheetrock

Client No.:

% Asbestos

Type

Type

% Non-Fibrous Material

None Detected

None Detected

% Non-Asbestos Fibrous Material 15

Cellulose

χû

Fibrous Glass

Lab No.:

3994323

Description / Location:

Brown/White Sheetrock

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

10

Cellulose

5

Fibrous Glass

Lab No .:

Description / Location:

Brown/White Sheetrock

Client No.:

Type

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

10

Cellulose

None Detected

Fibrous Gless

85

3994325

Description / Location:

Brown/White Sheetrock

Lab No .:

Client No.: 39

Type

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Cellulose Fibrous Glass 85

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	Ву:	L. Price)

Date:

6/22/2010

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9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

Report Date:

6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

OH

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

3994326

Description / Location:

440б0

Brown/White Sheetrock

Client No.: 40

Тупе

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

10

Ceffulose

Fibrous Glass

Lab No.:

3994327

Description / Location: Black Mastic

Client No.:

% Ashestos

Tyne

% Non-Fibrous Material

PC 1.2

Chrysotile

None Detected

% Non-Asbestos Pibrous Material

None Detected

PC 98.8

Lab No.:

3994328

Description / Location: Black Mastic

Client No.: 42

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 2.5

Chrysotile

None Detected

None Detected

PC 97.5

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Date:

6/22/2010

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

OH

44060

Report Date: 6/22/2010

ODOT-2394 Canal Rd

Project No.:

Project:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994329

Mentor

Description / Location:

Pink Floor Tile

43 Client No.:

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

PC 5.2

Chrysotile

None Detected

None Detected

PC 94.8

Lab No.:

3994329

Description / Location:

Tan Mastic

Layer No.: 2

Client No.:

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Туре

% Non-Pibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994330

Description / Location:

Tan Mastic, A/W Floor Tile

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

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	i liy:	It, Çaran

Date:

6/22/2010

Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

44060 OH

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Ashestos

3994331

Description / Location:

Green Floor Tile

Client No.:

Type

% Non-Asbestos Fibrous Material

Tvn≎

% Non-Fibrous Material

PC 3.8

Chrysotile

None Detected

None Detected

PC 96.2

Lab No.:

3994331

Description / Location:

Black Mastic

Layer No.: 2

Client No.:

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 1.5

Chrysotile

Collulose

PC 96.5

Lab No.:

Description / Location:

Sample Not Analyzed

Client No.: 46

% Ashestas

Type

% Non-Asbestos Fibrous Material Sample Not Analyzed

% Non-Fibrous Material

Sample Not Analyzed

3994333

Description / Location:

Green/Grey Vinyl Sheet Flooring

Lab No : Client No.: 47

% Asbestos

<u>Type</u>

% Non-Ashestos Pibrous Material

<u>Type</u>

% Non-Fibrous Material

Chrysotile

None Detected

None Detected

65

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: R. Caran

Date:

6/22/2010

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Client

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH.

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

% Asbestos

3994334

Description / Location:

44060

Sample Not Analyzed

Client No.:

Type

% Non-Asbestos Fibrons Material

% Non-Fibrous Material

Sample Not Analyzed

Sample Not Analyzed

Lab No.:

% Asbestos

3994335

Description / Location:

Tan Vinyl Sheet Flooring

Client No.:

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

Chrysotile

None Detected

None Detected

Lab No.:

3994336

Description / Location:

Sample Not Analyzed

Client No.:

% Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

Sample Not Analyzed

Sample Not Analyzed

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: R. Cara	Analysis	Performed	By:	R.	Carar
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Date:

6/22/2010

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

3994337

Description / Location:

44060

White Sheetrock

Client No.:

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Collulose

99

Lab No .:

3994337

Description / Location:

Off-White Joint Compound

Layer No.: 2

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Pibrous Material

None Detected

None Detected

None Detected

None Detected

100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AUHA Lab No. 100188

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Analysis Performed By: R. Caran

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

OH 44060 Report Date: 6/22/2010

ODOT-2394 Canal Rd

Project: Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994338

Mentor

Description / Location:

White Shootrock -

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

99

Lab No.:

3994338

Description / Location:

Off-White Joint Compound

Layer No.: 2

Client No.:

Туре

<u>Туре</u>

% Non-Fibrous Material

% Asbestos None Detected

None Detected

% Non-Ashestos Fibrous Material None Detected

None Detected

Lab No .:

3994338

Description / Location:

Off-White Joint Compound

Layer No.: 3

Client No.:

% Ashestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

99

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

ATHA Lab No. 100188

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Analysis Performed By: R. Caran

Date:

6/22/2010

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994339

Description / Location:

44060

White Sheetrock

Client No.:

% Asbestos

Туре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

Lab No .:

3994339

Description / Location:

Off-White Joint Compound

Layer No.: 2

% Asbestos

Client No.: 53

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994340

Description / Location:

White Sheetrock

Client No.: 54

% Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

Celluiose

Lab No.:

3994340

Description / Location:

White Joint Compound

Layer No.: 2

Client No.: % Asbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Defected

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: R. Caran

Date:

6/22/2010

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994341

Description / Location:

White Sheetrock

Client No.:

None Detected

% Ashestos

Τγρέ None Detected

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

Cellulose

99

Lab No.: Client No.: 3994341

Description / Location:

White Joint Compound

Layer No.: 2

% Asbestos

Type

% Non-Ashestos Pibrous Material

Τνρέ

% Non-Fibrous Material

None Detected

None Octopted

None Detected

None Detected

100

Lab No.:

3994342

56

Description / Location:

White Sheetrock

Client No .:

% Ashestos

Type

% Non-Ashestos Fibrous Material

Type Cellulose

% Non-Pibrous Material

None Detected

None Detected

QQ.

Lab No .:

3994342

Description / Location:

White Joint Compound

Layer No.: 2

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

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: R. Caran

Date:

6/22/2010

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Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

44060 OH

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994343

Description / Location:

White Transite

Client No.:

% Non-Fibrous Material

% Asbestos

Туре

None Detected

% Non-Asbestos Fibrous Material

<u>Tyne</u> None Detected

15

Chrysotile Crocidolite

Lab No .:

% Asbestos

3994344

Description / Location:

Sample Not Analyzed

Client No.: 58

Type

% Non-Ashestos Fibrous Material

% Non-Pibrous Material

Sample Not Analyzed

Sample Not Analyzed

Lab No.:

3994345

Description / Location:

Brown Ceiling Tile

Client No.: 59

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

None Detected

Lab No .:

3994346

Description / Location:

Brown Cailing Tile

Client No.:

60

<u> Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

100

Cellulosc

None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AJHA Lab No. 100188

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Analysis Performed By: R. Caran

Date:

6/22/2010

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Client:

HZW Environmental Consultants

Report Date: 6/22/2010

6105 Heisley Rd.

Project:

ODOT-2394 Canal Rd

Mentor

ŌН

44060

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994347

Description / Location:

Brown Ceiling Tile

Client No.:

Туре

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

100

Cellulose

None Detected

Lab No.:

Description / Location:

White Sheetrock

Client No.: % Asbestos

62

<u>Туре</u>

% Non-Fibrous Material

None Detected

Type None Detected % Non-Asbestos Fibrous Material

Çallulqşe

Lab No.:

3994349

Description / Location:

White Sheetrock

Client No.: 63

% Ashestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

Cellulose

Lab No.:

3994350

Description / Location:

White Sheetrock

Client No.: 64

% Asbestos

Турс

% Non-Ashestos Fibrous Material

Type

% Non-Pibrous Material

None Detected

None Detected

Cellulose

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis	Perform	ed By:	R.	Caran
----------	---------	--------	----	-------

Date

6/22/2010

Client:

HZW Environmental Consultants

6105 Heisley Rd.

OH 44060 Report Date: 6/22/2010

ODOT-2394 Canal Rd

Project: Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994351

Mentor

Description / Location:

Brown Floor Tile

Client No.:

% Asbestos

<u> Type</u>

% Non-Ashestos Pibrous Material

 γ_{ype}

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No .:

3994351

Description / Location:

Brown Mastic

Layer No.: 2

Client No.:

% Ashestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

PC 1.4

Chrysotile

None Detected

None Detected

PC 98.6

Lab No.:

3994352

Description / Location:

Brown Floor Tile

Client No.: % Asbestos

<u>Түре</u>

% Non-Ashestos Fibrons Material

Type

% Non-Fibrous Material

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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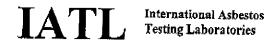
Analysis Method: EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date:

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Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994353

Description / Location:

Black Tar

A/W Pipe

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

<u>Type</u>

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.: Client No.: 3994353

Description / Location:

Brown Cork A/W Pipe

Layer No.: 2

% Asbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

None Detected

Lab No.: Client No.: 3994354

68

Description / Location:

Black Tar

A/W Pipe

% Asbestos

% Non-Ashestas Fibrous Material

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

Lab No.:

3994354

Description / Location:

Brown Cork

Layer No.: 2

Client No.:

A/W Pipe

% Asbestos

% Non-Ashestos Pibrous Material

<u>Type</u>

% Non-Pibrous Material

None Detected

Type 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: BPA 600/R-93/116

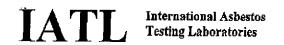
(PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantifation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. 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: R. Caran

Date:

6/22/2010

Page 28 of 31



Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.: 3994355

Description / Location:

Black Tar

A/W Pipe

% Asbestos

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994355

Description / Location:

Brown Cork

Layer No.: 2

Client No.:

A/W Pipe

% Axbestos None Detected

Type None Detected % Non-Asbestos Fibrous Material

Туре Cellulose % Non-Fibrous Material None Detected

Lab No.:

3994356

Description / Location:

Black Tar

On Duct

Client No.: % Asbestos

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3994357

Description / Location:

Black Tar On Duct

Client No.: 71

Type

% Non-Asbestos Pibrous Material

Type

% Non-Fibrous Material

% Asbestos 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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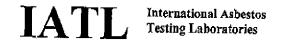
Analysis Method: EPA 600/R-93/116

(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 quantitable 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: R. Caran

Date:

6/22/2010



Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3994358

Description / Location:

White Insulation .

Client No.:

% Axbestos

<u>Type</u>

% Non-Asbestos Fibrous Material

% Non-Fibrous Material

None Detected

None Detected

100

Fibrous Glass

None Detected

Lab No.:

3994359

Description / Location:

White Insulation

Client No.:

% Asbestos

% Non-Ashestos Fibrous Material

% Non-Fibrous Material

None Detected

None Detected

Fibrous Glass

None Detected

Lab No.:

% Asbestos

3994360

Description / Location:

White Sheetrock

Client No.: 74

<u>Type</u>

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellulose

Lab No.:

Description / Location: White Sheetrock

Client No.:

% Asbestos

Type

% Non-Fibrous Material

None Detected

None Detected

% Non-Asbestos Fibrous Material

Type Cellulose

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

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 malyzed. Simil 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 I	By: R	Caran
----------------------	-------	-------

Date:

6/22/2010

· Page 30 of 31

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

ОH

44060

Report Date: 6/22/2010

Project:

ODOT-2394 Canal Rd

Project No.:

H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

3994362

Description / Location:

White Sheetrock

Client No.:

% Asbestos

Type

% Non-Asbestos Fibrous Material

<u> Type</u>

% Non-Fibrous Material

None Detected

None Detected

Cellulose

Lab No.: Client No.: 3994363

Description / Location:

Black Woven Fibers

Additional Sample Received

% Asbestos

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Type None Detected

Cellulose

Lab No.;

3994364

Description / Location:

Black Woven Fibers

Additional Sample Received

Client No.: % Asbestos

Type

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

Cellutose

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

(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: R. Caran

Date:

6/22/2010

Page 31 of 31



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

Client:	HzW Environmental Consultants. L 6105 Heisley Road Mentor, Ohio 44060	LC Project Name: Project No.:	ODOT - 2394 Canal Rd H10002-13
Office Phone: Cell Phone: FAX / Email	440-357-1260 1:440-357-1510	Contact 2;	loan Sabiar JSablar@hzwenv.com
Special Instructions:		fo#5353-10	- Company Comp
Matrix:	Soil X	Bulk Surface Dust / Wipe	Other
Analysis Me	thod:		
PLM : Bulk A	Asbestos Building Materials EPA 600 / F	93-116	
PLM : Point of PC : PC : PC :		PLM : Analyze Until Po AUP : by Home AUP : by Maler	Sitive (Positive Stop) Ogenous Area as Noted ial Type as Noted terial *, **(Dust, Wipe, Tape, Soil) utite Analysis *, **
PLM PLM If<19	tetric Reduction : NOB via 198.6 : Friable via EPA 600 2.3 by PLM, to TEM via 198.4 * by PLM, Hold for Instructions	PLM: Instructions for M Analyze and Rej Report Composi Report All Layer Only Analyze an	oulti-Layered Samples port All Separable Layers per EPA 600 to for Drywall Systems per NESHAP and Composite Where Applicable and Report Specifically Noted Layer
Additional charge ar	d turnaround may be required. ** Alternati	vc Method (ex: EPA 600/R-04/004) r	nay be recommended by Laboratory.
Turnaround Time:	Prefiminary Results Requested By		erbals
10 Day * End of next bu	5 Day 3 Day 2 Day 3 Day 3 Day 12 Day	12 Hour* 12 Hour*	L STOSET
	ent #(s): 0 - 16	iATL#(s):(start)	Tota[:
	(end) our sample log to supply sampling information (ex	. Volumes, areas, descriptions, locations,	erc.) or download forms at lath.com
Received (Na Sämple Logii Sample Prep Analysis(Nan	(Name / Organization): ume / iATL): (Name / iATL): (Name / iATL): cex (Name / iATL):	Date: Dafe! Date:	Time
· 	•		-1-7/



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

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: 0D0T

Project No.: -170002 - 13

ent Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
07	3994287 3994288	Sink Bottom Coating	
02		17	
03	3994289	37	-
04	3994290	Transite Ceiling	
0.5	3994291	<u> </u>	
06	3994292	hall coment	
07	39 9 4 293	})	
26	3994294	Ŋ	
09	3994295	Ceiling Plaster	
10	3994296	11	
[1	3994297		
2	3994298 3994299	1)	
13	3994300	11	
14	'	Red floor Country	
	3994301		
	3994302	tr	
17	3994303	Stair Tread	
18	3994304 3994305	()	
	3994306	Cove Base	
	3994307	Cove Base	
	3994308	CT- Large Holes	
	3994309		
	994510	hh	
	1994311	FT- Lt gray	
		11	
	394312	FT- Lt gray 11 FT- Med. Brown 11	
	3994517 3994514	11	-
28]:	0004014	F-T- med. Brown	_

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C	lan	+
4 .I	IC II	T.

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT
Project No.: +40002 -13

lient Sample ID: iATL Sample	ID: Sample Description / Location	Notes
هر 3994315	1.1	450
30 3994316 31 2994317	FT- Lt. Brown	6-22-10
<u> 32 8994318</u>		
<u>33 3994319</u>		
<u>34 3994320</u>	Cove Base 11 Drywall	
<u>35 3994321</u>		
36 3994322	Drywall	
<u>37 3994323</u>	<u> </u>	
$\frac{38}{3994324}$	(1	
39 3994325		
40 3994329		
<u> </u>	Black Adhesive	
42 3998358	11	
<u>43 3994329</u>	FT - REU	
<u> </u>	<u> </u>	
45 3994331 46 3994332	FT- Lt. Green	
	11	
47 3994333	TS- off white	
4 ₈ 3994334	11	
<u>49 3994335</u>	Fs - White	
<u>50</u> 3994336	t)	
51 3994337	Dryway System	
<u> </u>		
53 3994339 54 3994340	11	
<u> </u>	Textured Drywall	_
55 3994341	11	
56 B994342	· h	-

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Page 2 of 3



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Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT
Project No.: H10002-13

lient Sample ID:	3994343	Sample Description / Location	Notes
		CI- Flat	11000
58	3994344	11	
59	3994345	. 11	
60	3994346	Vibration Dansprer	
<u> </u>	3994347 3994348	11	
62	1	Drywall	
63	3994549	1	
64	3994350	v1	
65	β99 4 351	Flore Consul	
	3994352	Floor Covering	
67	094553	0.5	
	394354	Tar conted cork pipe	insulation
	3994355	1)	
70	3994356		
_	3994357	Tor on dust	
72	3994358		
73	3994358 3994359	Insulation	
	3994360	11	
	3994361	Drywall	
	3994362	1)	
7 7	3332302	11	
ditional	0 0-	(not	
60	3994363	avered	
61	3994364		
- 01	3034304		
-			

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info@iati.com
www.iati.com

Client		Project Name:	ODOT - 2394 Canal Rd
	6105 Heisley Road	Project No.:	H10002-13
	Mentor, Ohio 44060	• · ·	
Office	Phone: 440-357-1260;	Confact 1: J	ea- Calif.
Cell P	hone:	Contact 1:	oan Sablar
FAX/	Email 1: 440-357-1510		Sablar@hzwenv.com
Specia		Po#5353-10	
Instru	ctions:	10.0000	
			<u> </u>
Matri	<u> </u>		
		Bulk Surface Dust / Wipe	Other
4 7			
Analy	sis Method:	· · · · · · · · · · · · · · · · · · ·	
X PLN	: Bulk Asbestos Building Materials EPA 600 / R 9	3-116	
PLA	: Point Counting	TET PLACE A TOTAL CLASS	** **
}	PC: via ELAP 198.1 PC: 400 Points	PLM : Analyze Until Pos	ituve (Positive Stop) genous Area as Noted
}	PC: 800 Points *	AUP : by Mater	al Type as Noted
	PC : other Points *	PLM : Non-Building Mas	ranial # ##/TO . in
1		Soil or Vermice	erial *, **(Dust, Wipe, Tape, Soil) dite Analysis *, **
PLM	: Gravimetric Reduction		·
-	PLM: NOB via 198.6	PLM: Instructions for Mu	Ilti-Layered Samples
<u> </u>	PLM: Friable via EPA 600 2.3 If <1% by PLM, to TEM via 198.4 *	I I WASOU COMDOSI	ort All Separable Layers per EPA 600 e for Drywall Systems per NESHAP
	If <1% by PLM, Hold for Instructions	1 1 MODOLI WILL TAY CI	Sand Linministe Wheel Applicable
* Additiona		I OMIT A HAIY ZE BE	4 KCDOR Specifically Note I raves
ridditidig	charge and turnaround may be required. ** Alternative	Method (ex: EPA 600/R-04/004) m	2y be recommended by Laboratory
Turnar			
Time:	OUNG Proliminary Results Requested By	Q Vo	erbals DFAX DEmail
	;	date / time	- Dillaii
1	Day 5 Day 3 Day 2 Day	1 Day* 12 Hour*	
* End	of next business days where Land		
		* Matrix Dependent. Please notify	the lab before shipping.
Sample	Numbers:		
	Client #(s): 01 76	iATL#(s):	
<u> </u>	(start) (end)	(Start)	Total:
	lease use your sample log to supply sampling information (ex. V	olumes, areas, descriptions, locations, e	tc.) or download forms at tail, com
TO MIRUL	Custody:		
Rec	nquished (Name / Organization):eived (Name / iATL):	Date:	6-16-10 - U
Sam	ple Login (Name / IATL)	Date:	Time: //3m
Sam	ple Prep (Name / i A Tr.)	Date:	Time:
Anai OA/	ysis(Name(s) / iATL): QC Review (Name / iACL):	Date	Time
Arci	mod I Data	Date /	Time.
	QA/QC InterLAB U	se:Date:_	Time:
, 		; 1 A.	7 . 7 /



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Mt. Laurel, NJ 08054
Toll Free: 877 428-4285
info@iatl.com
www.istl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODO7

-H0002-13

lient Sample ID: iATL Sample ID:	Sample Description / Location	
عو 3994315	14	Notes
30 3994316	FT - Lt. Brown	
3, 8994317	1) Drown	
- 3z 39943 <u>1</u> 8		· _ _ _
33 8994319		
34 3994320	Cove Base	-
35 8994321	u sase	
36 3994322	Drywaii	
37 3994323	by your	
38 3994324	11	
$\frac{39}{3994325}$	11	
14/0 1	N .	
41 3994326		
42 3994328	Black Adhesive	
43 3994329		
74 3994330	FT - Red	57mt
45 3994331 46 3994332	FT- Lt. Greey	
47 3994333 48 3994334	FS- off white	
49 3994335	Fs- white	, , , , , , , , , , , , , , , , , , ,
50 3994336	TS - White	
S/ 3994337		1
52 3994338	Dryway System	, p
52 3994330	13	
53 3994339 54 3394340		
55 3994341	Textured Dywall	
56 8994342		1 1

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Page 2 of 3

ATTACHMENT 4

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

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.