



Cardno ATC

46555 Humboldt Dr.
Suite 100
Novi, MI 48377

Phone +1 248 669 5140
Fax +1 248 669 5147
www.cardno.com

www.cardnoatc.com

Client Name:	ADR Consultants – State of Michigan Fast Track Authority
Project Name:	Pre-Demolition Asbestos Inspections
Project Number:	39.43929.1304
Project Site Address (Subject Property):	1925 Central Street, Detroit, Michigan
Parcel #	
Date of Site Visit:	4/25/2013
Site Contact Name:	Barry Ellentuck
Site Contact Phone Number:	248-318-9424
Asbestos Inspection Performed by:	Branden Tincu (A39513)
Areas Not Accessible:	2 nd floor and some areas of 1 st floor due to fire damage
Number of Floors	2 plus basement & attic
Asbestos Present (Yes/No/Other)	No

On the date indicated above, a State of Michigan Asbestos Inspector Branden Tincu (A39513) from Cardno ATC conducted a pre-demolition Asbestos Containing Material Survey of the unoccupied residential building at the subject property. The purpose of this survey was to task an accredited asbestos inspector to complete a pre-demolition asbestos survey of the site and provide recommendation options for removal and disposal of asbestos containing materials prior to demolition of the building.

Laboratory reports are included in Appendix A. Photographs of the site are included in Appendix B. The following sections summarize Cardno ATC's findings:

Table I below identifies materials that were found to contain asbestos in concentrations greater than 1% and therefore are regulated under the rules of asbestos in the State of Michigan. Table II identifies materials that were suspect for asbestos and found to either not contain asbestos or contain asbestos in concentrations 1% or less.

**TABLE I
(Asbestos Containing Materials)**

ID#	MATERIAL	LOCATION	APPROXIMATE QUANTITY	RESULT
	No asbestos-containing materials were identified			

**TABLE II
(Non-ACM Suspect Materials)**

ID#	MATERIAL	LOCATION	APPROXIMATE QUANTITY	RESULT
1-PL-A, B, C, D, E	Plaster	Throughout	3,200 SF	ND
2-SC-A	Stack Cement	Basement	2 SF	ND
3-WG-A, B, C	Window Glaze	Basement Windows	80 LF	ND
4-EC-A, B, C	Exterior Caulk	Exterior Doors & Window Frames	310 LF	ND

ND=No asbestos detected
 NA=Not applicable

No other suspect ACMs were observed on the site. Although not anticipated based on surface observations, underground structures that could contain ACM may be present and should be managed accordingly if encountered during Site redevelopment.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled. Contractors working in an area where asbestos is present must be informed of the type and location of ACMs. Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

Lead-based paint may be present on the site and is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. LBP generally does not pose a health threat unless particles are disturbed, become airborne and are inhaled or ingested. Contractors and their employers that will be disturbing the building during demolition should follow all applicable requirements in the OSHA Lead in Construction Standard.

Further testing may be required of debris generated from demolition activities to determine whether the debris should be disposed as hazardous waste under the Resource Conservation and Recovery Act (RCRA) in accordance with 40-CFR Part 261 Subpart C.

Universal wastes not listed in this ACM report may be encountered prior to demolition that require disposal. Contractors should identify universal wastes that may exist on the premises and dispose according to all applicable Local, State, and Federal Requirements.

RECOMMENDATIONS:

Except for the following items listed below, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or renovation activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

Demolition with Roofing Materials in Place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M). Roofing materials were generally not tested during this inspection and

therefore the roofing material should be assumed to be Category I asbestos-containing roofing materials.

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM and are allowed to remain in place during demolition.

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste.

The asbestos-containing roofing material may not be ground up for recycling into other products.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition of Category I ACM materials. Category I or II nonfriable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

Cardno ATC recommends:

A licensed asbestos abatement company in the State of Michigan should remove the following materials according to the NESHAP standard prior to demolition:

1. No asbestos-containing materials were identified at the residential building.

LIMITATIONS:

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Cardno ATC's Asbestos Containing Material Survey of the vacant above-referenced property located in Detroit, Michigan

Any conditions or materials that could not be visually identified through limited destructive sampling were not inspected and may differ from those conditions or materials noted. The user of this report should keep in mind that conditions may change with time and observations made by Cardno ATC at the time of the Site reconnaissance may not be consistent with future observations made by others. Additional materials may be encountered during the demolition process and may require further sampling to determine disposal criteria.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos building materials to be removed prior to demolition activities.

Under no circumstances is the report to be utilized as a bidding document or as a project specification document. Contractors bidding the demolition of this Site should field verify project information.

Cardno ATC appreciates the opportunity to be of service to ADR Consultants on this project. In the meantime, if you have questions regarding the information in this report or if we can be of further assistance do not hesitate to contact our office at (248) 669-5140.

APPENDIX A
LABORATORY CUSTODY FORMS



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)


Project: 1925 Central St.
Project # 39.43929.1304

Report To:
Mr. Rob Smith
Cardno ATC
46555 Humboldt, Ste. 100
Novi, MI 48377

ARI Report # 13-45446
Date Collected: 04/25/13
Date Received: 04/29/13
Date Analyzed: 04/30/13
Date Reported: 04/30/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 45446 - 01 Cust. #: 1-PL-A Material: Plaster Location: Throughout Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 02 Cust. #: 1-PL-B Material: Plaster Location: Throughout Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 45446 - 03 Cust. #: 1-PL-C Material: Plaster Location: Throughout Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

For Layered Samples, each component will be analyzed and reported separately.



 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)


Project: 1925 Central St.
Project # 39.43929.1304

Report To:
Mr. Rob Smith
Cardno ATC
46555 Humboldt, Ste. 100
Novi, MI 48377

ARI Report # 13-45446
Date Collected: 04/25/13
Date Received: 04/29/13
Date Analyzed: 04/30/13
Date Reported: 04/30/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 45446 - 04 Cust. #: 1-PL-D Material: Plaster Location: Throughout Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 05 Cust. #: 1-PL-E Material: Plaster Location: Throughout Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 45446 - 06 Cust. #: 2-SC-A Material: Stack Cement Location: Basement Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)


Project: 1925 Central St.
Project # 39.43929.1304

Report To:
Mr. Rob Smith
Cardno ATC
46555 Humboldt, Ste. 100
Novi, MI 48377

ARI Report # 13-45446
Date Collected: 04/25/13
Date Received: 04/29/13
Date Analyzed: 04/30/13
Date Reported: 04/30/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 45446 - 07 Cust. #: 3-WG-A Material: Window Glaze Location: Basement Windows Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 08 Cust. #: 3-WG-B Material: Window Glaze Location: Basement Windows Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 09 Cust. #: 3-WG-C Material: Window Glaze Location: Basement Windows Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.


 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)


Project: 1925 Central St.
Project # 39.43929.1304

Report To:
Mr. Rob Smith
Cardno ATC
46555 Humboldt, Ste. 100
Novi, MI 48377

ARI Report # 13-45446
Date Collected: 04/25/13
Date Received: 04/29/13
Date Analyzed: 04/30/13
Date Reported: 04/30/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 45446 - 10 Cust. #: 4-EC-A Material: Exterior Caulk Location: Ext. of Doors & Window Frames Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 11 Cust. #: 4-EC-B Material: Exterior Caulk Location: Ext. of Doors & Window Frames Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 45446 - 12 Cust. #: 4-EC-C Material: Exterior Caulk Location: Ext. of Doors & Window Frames Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.



 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APPENDIX B
SITE PHOTOGRAPHS



Street view of the house 1925 Central.



View of the side of the house.



View of rear of the house from the alley.



View of the garage from the alley.



View of the house interior. Fire damage was present throughout limiting access to most of the house.



View of 2nd floor and rear stairwell from the 1st floor. The second floor was inaccessible.



View of south basement.



View of north basement.