

May 12, 2026

Ms. Haley Faulds
Systems Management Lead
Indiana Brownfields Program
100 North Senate Avenue
Room 1275
Indianapolis, Indiana 46204
Electronic Mail: HFaulds1@ifa.in.gov



**Re: Final Remediation Work Plan for Asbestos Containing Materials Abatement
Former Dodge Manufacturing Company / Former RMG Foundry Facility
500 South Union Street in Mishawaka, Indiana
Indiana Brownfields Program Site #4060054
USEPA Revolving Loan Fund Cooperative Agreement #4B-00E03232
Heartland Project #5113-26-04**

Dear Ms. Faulds:

Heartland Environmental Associates, Inc. (Heartland), is pleased to provide the Indiana Brownfields Program (IBP) with this Remediation Work Plan (RWP) for the former Dodge Manufacturing Company / former RMG Foundry facility in Mishawaka, Indiana. The proposed site activities are being funded and implemented utilizing funds awarded to the City of Mishawaka (City) from a United States Environmental Protection Agency (USEPA) Revolving Loan Fund (RLF) subgrant (Cooperative Agreement #4B-00E03232).

Heartland conducted an asbestos building inspection for the site buildings in December 2024. Based on the results of this inspection, friable, regulated ACMs in the form of thermal systems insulation (TSI) pipe wrapping and boiler jacket insulation materials, as well as textured ceiling materials, were identified in both site buildings. Furthermore, non-regulated, Category I non-friable ACMs in the form of resilient vinyl flooring materials and non-regulated, Category II non-friable ACMs in the form of transite wallboard panels/materials, were identified. Transite panels were identified both within the site buildings as well as cladding the exterior of the site buildings.

The site buildings are currently being evaluated for demolition due to the significantly dilapidated and deteriorating conditions of the buildings. Demolition of the site buildings will further serve to assist in the future redevelopment of the site. It is recommended that ACMs, particularly regulated asbestos containing materials (RACMs) and non-regulated transite wallboard panels, be abated prior to any future planned demolition activities for the site buildings. Furthermore, due to the prevalence of damaged and/or significantly damaged ACMs, select areas, specifically the basement of the main site building, will require full decontamination as part of the proposed abatement efforts.

Heartland has recommended an asbestos abatement be completed prior to any future planned demolition of the existing site buildings in order to mitigate any future potential asbestos exposure concerns. This RWP is being provided to outline the tasks associated with the abatement of the regulated TSI, transite paneling and resilient vinyl flooring materials that have been confirmed to be

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asbestos containing, as well as to perform decontamination and abatement of strewn, friable TSI in locations identified. As stated above, the work being conducted will aid in preparing the site buildings for demolition.

SITE BACKGROUND

The site was developed by at least 1878 as the Dodge Manufacturing Company/Corporation sawmill and factory. Operations at the site progressively expanded through at least the mid-1960s. In 1967, the Dodge Manufacturing Company was purchased and became a division of Reliance Electric Company. The Dodge Manufacturing Company closed in 1999, reopened with new owners and operated under the name RMG Foundry until the foundry operations ultimately ceased in 2006. The site was most recently utilized for warehousing of equipment, boats, automobiles, and RVs as well as for minor amounts of small vehicle repair. In 2013, a large fire occurred on the property and destroyed the far southern portion of the main site building. In 2023 and 2024, the site property and buildings were substantially emptied. The Site has been vacant and not in use since 2024, and was only utilized for warehousing and storage after 2007.

The site was obtained by the City in October 2024. Figures depicting the site are included with this RWP (see Figure 1 for a site location map and Figure 2 for a site map with parcel boundaries).

SUMMARY OF PERTINENT SITE-SPECIFIC INVESTIGATIONS

The Site has been subject to extensive environmental assessment activities, dating back to 1991. These investigations have included extensive subsurface investigative assessments, and have also included investigations of the site buildings. Note that, for the purposes of this RWP, only historical asbestos building inspections are summarized.

A comprehensive asbestos building inspection was completed in December 2024, and encompassed the entirety of the facility buildings. The December 2024 inspection served to update an inspection that was completed in 1995, which documented the presence of significant quantities of ACMs within the site building at that time.

Based on the findings of the December 2024 asbestos building inspection, friable RACMs were encountered in the buildings in the form of TSI pipe wrapping, pipe fittings and textured ceiling material. RACMs in the form of TSI pipe wrapping and pipe fittings were encountered cladded on exposed pipe chases throughout all floors of the site buildings. RACMs in the form of textured ceiling materials were encountered on the ceilings in the north offices in the pattern shop.

In general, the RACMs were encountered in fair to poor condition, with several sections of TSI pipe wrap and pipe fittings encountered either intact or slightly damaged. However, significant amounts of TSI were observed to be damaged or significantly damaged. Additionally, several sections of TSI were scattered on the floor as debris. This included areas in the basement portion of the main site building, where asbestos containing debris was strewn. Potential exposure to damaged and friable RACMs was determined to be a concern, particularly in the basement where strewn TSI was observed on the floors in several areas.

RACMs pose an exposure risk if disturbed; therefore, these materials require abatement in the State of Indiana prior to the onset of demolition activities.

Additionally, non-friable ACMs in the form of resilient vinyl floor coverings and associated mastics, rolled asphalt roofing, rubberized roofing and roof flashing were encountered within select areas of the site building. Resilient vinyl flooring materials and associated mastics, rolled asphalt roofing and roof flashing are considered non-friable ACMs and therefore are not regulated. These materials do not pose an exposure concern to occupants of the site building unless subject to sanding, grinding, abrading or any other mechanical process which would render these materials friable.

Finally, non-friable ACMs in the form of transite wallboard materials were encountered on the exterior and interior of the site building, on the east mezzanine wall of the main foundry and on the ceiling of the 2nd floor, west mezzanine offices within the main foundry. The transite wallboard materials are considered non-friable ACMs and therefore are not regulated. However, these materials will likely become friable RACMs during demolition activities and therefore require abatement in the State of Indiana prior to the onset of demolition activities.

The quantity of materials to be abated (as identified in the Heartland asbestos inspections) are as follows:

Main Site Building:

- Approximately 140 2" - 8" Mud Joints
- Approximately 1,745 Linear Feet (LF) of TSI* (*Potentially more TSI in sub-building chases)
- Approximately 18,900 Square Feet (SF) of basement flooring to be decontaminated due to strewn asbestos debris (full containment)
- Approximately 500 SF of Textured Ceiling
- Approximately 2,240 SF of Exterior Flat Panel Transite
- Approximately 21,352 SF of Interior and Exterior Corrugated Transite
- Approximately 1,040 SF of ceiling flat panel transite
- Approximately 4,100 SF of Floor Tile & Mastic (~500 SF in Mastic on Wood)

Power House Site Building:

- Approximately 145 LF of 12" TSI
- Approximately 600 SF of Boiler Jacket
- Approximately 12 Mud Joints (8" - 12")
- Approximately 100 SF of Interior Transite Flat Panels
- Approximately 1,420 SF of Floor Tile / Mastic

Copies of Heartland's asbestos building inspection reports, which provide tabulated listings of identified ACMs (both regulated and non-regulated), are included in Attachment A of this RWP.

REMEDIATION GOALS

The goal of the proposed and planned remediation activities is to properly abate, in accordance with all applicable municipal, state and federal guidance, identified ACMs within the site buildings and to prepare the site buildings for demolition. Abatement activities will serve to mitigate exposure risks to human health and the environment as it pertains to asbestos.

Abatement activities will further serve to facilitate demolition of the site buildings, with the added benefit of facilitating redevelopment of this Brownfield.

APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

In addition to the general statutes and rules applicable to the governing of cleanups of a Brownfield redevelopment site, the following applicable or relevant and appropriate requirements (ARARs) have been identified for this remediation project:

1. Environmental Response Actions
 - a. 40 CFR 61 National Emissions Standards for Hazardous Air Pollutants
 - b. 40 CFR 763 Asbestos
 - c. Indiana Administrative Code 326 IAC 14-10: Indiana Asbestos Work Practice Standards
 - d. Indiana Administrative Code 326 IAC 18-1: Indiana Asbestos Licensing Requirements
2. Waste Management
 - a. 40 CFR 260 General Regulations for Hazardous Waste Management
 - b. Indiana Administrative Code 329 IAC Hazardous and Non-hazardous Waste
3. Transportation of Waste
 - a. 49 CFR 172: Hazardous materials (DOT)
 - b. 40 CFR 263 Standards Applicable to Transporters of Hazardous Waste
4. Health and Safety
 - a. 29 CFR 1910.120 (HAZWOPER)
 - b. 29 CFR 1926 (all applicable standards)
 - c. IC-22-8: Indiana Occupational Safety and Health Act (IOSHA)

PROPOSED ASBESTOS ABATEMENT WORK PLAN

The USEPA National Emission Standard for a Hazardous Air Pollutant (NESHAP): Asbestos (40 CFR 61, Subpart M) requires that operators of certain renovation/demolition projects give notification to the Indiana Department of Environmental Management (IDEM) prior to the commencement of site activities. This notification is required if friable ACMs or materials that could be made friable during demolition/renovation activities are present in structures in certain quantities. These materials require removal prior to demolition/renovation activities if they may be disturbed. Friable ACMs are those materials that can be turned to dust by hand pressure and therefore would release asbestos fibers to the atmosphere. Generally, when ACMs are removed, it requires proper planning and oversight, followed by sampling to confirm proper removal (termed clearance of abatement).

Planned abatement activities will incorporate the removal and disposal of previously identified regulated and non-regulated ACMs, located in both the interior and cladding the exterior of the site buildings. All work activities will be conducted by asbestos abatement workers licensed in the State of Indiana and overseen by an asbestos abatement supervisor licensed in the State of Indiana. Abatement work will further be overseen by an accredited asbestos building inspector licensed in the State of Indiana. The asbestos building inspector will additionally be tasked to evaluate for the presence of any additional ACMs identified during the course of abatement activities and ensure

ACMs are abated and disposed of appropriately by licensed asbestos workers certified in the State of Indiana.

TSI pipe insulation (RACMs) and associated mudded joints will be removed or handled using a combination of glovebag procedures or via cut removal methods. All removed materials shall be appropriately containerized (double-bagged) and transported to a lined dumpster pending offsite disposal. Personal protective equipment (PPE) in accordance with state and federal guidance for friable asbestos removals, will be required for all personnel.

Transite panels will be subject to manual removal and transport into a lined dumpster pending offsite disposal. Care will be taken to not remove transite panels utilizing mechanical processes (i.e., sanding, grinding, abrading) which may render the materials friable. Should any of these mechanical methods be determined necessary, then further protective measures to eliminate asbestos fiber releases will be implemented.

The abatement of strewn TSI located on the floors of the basement of the site building where damaged, friable TSI materials were observed, and a full decontamination and cleaning of these areas to ensure that all friable ACMs have been properly removed, is included in this scope of services. A full, negative air containment will be required to be set up in this area prior to the onset of abatement in the basement so as to eliminate the potential for asbestos fibers to be released during abatement activities. All personnel will be required to wear appropriate PPE when entering the containment area. The containment area cannot be taken down until a visual clearance inspection is conducted.

The selected contractor shall maintain current State of Indiana licenses as required for the removal, transporting, disposal, or other regulated activity relative to the work of this project. All employees working directly with asbestos-containing material and wastes must have successfully completed a course of asbestos training as specified by USEPA requirements at 40 CFR Part 763, Subpart E, Appendix C, within one (1) year prior to conducting asbestos abatement activities. Each worker must successfully complete the "Worker" course, and on-site supervisors and technical support personnel must successfully complete the "Project Supervisor" course.

Individuals working with asbestos on the site shall possess current and applicable State of Indiana asbestos accreditation from IDEM. The controlling employer shall conduct personal air sampling as defined by the previously noted regulations to monitor employee exposure to airborne asbestos fibers for all employees engaged in asbestos-related work activities governed by the OSHA standard.

Asbestos abatement activities will be conducted in accordance with all applicable local, state and federal guidance. Abatement will include proper notification to the IDEM, along with all required personal air monitoring and manifesting for offsite waste disposal.

REPORTING

Documentation of the completion of all onsite activities, including waste disposal manifests, will be provided within a week of the completion of the onsite abatement. No other significant deliverables are expected to be required for this project.

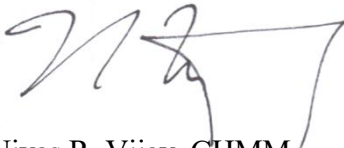
PROJECT TIMELINE

The anticipated timeline for the completion of abatement activities is summarized in Table 1 below.

Table 1 Former Dodge Manufacturing Company / Former RMG Foundry Facility 500 South Union Street in Mishawaka, Indiana Estimated Asbestos Abatement Project Timeline	
Task	Cost
Submittal of Draft RWP, ABCA and other applicable USEPA RLF Related Documents	May 15, 2026
Submittal of Final RWP, ABCA and other applicable USEPA RLF Related Documents	May 31, 2026
Public Comment Period	June 5, 2026 – July 5, 2026
Finalization of RWP	July 10, 2026
10-Day IDEM Notification Period	July 13 – July 24, 2026
Asbestos Abatement Onsite Activities	July 27 – September 4, 2026

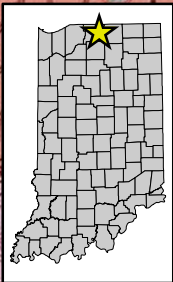
Please feel free to contact Nivas R. Vijay with Heartland with any questions and/or comments regarding this submittal at 574-360-0961 or at nvijay@heartlandenv.com.

Sincerely,

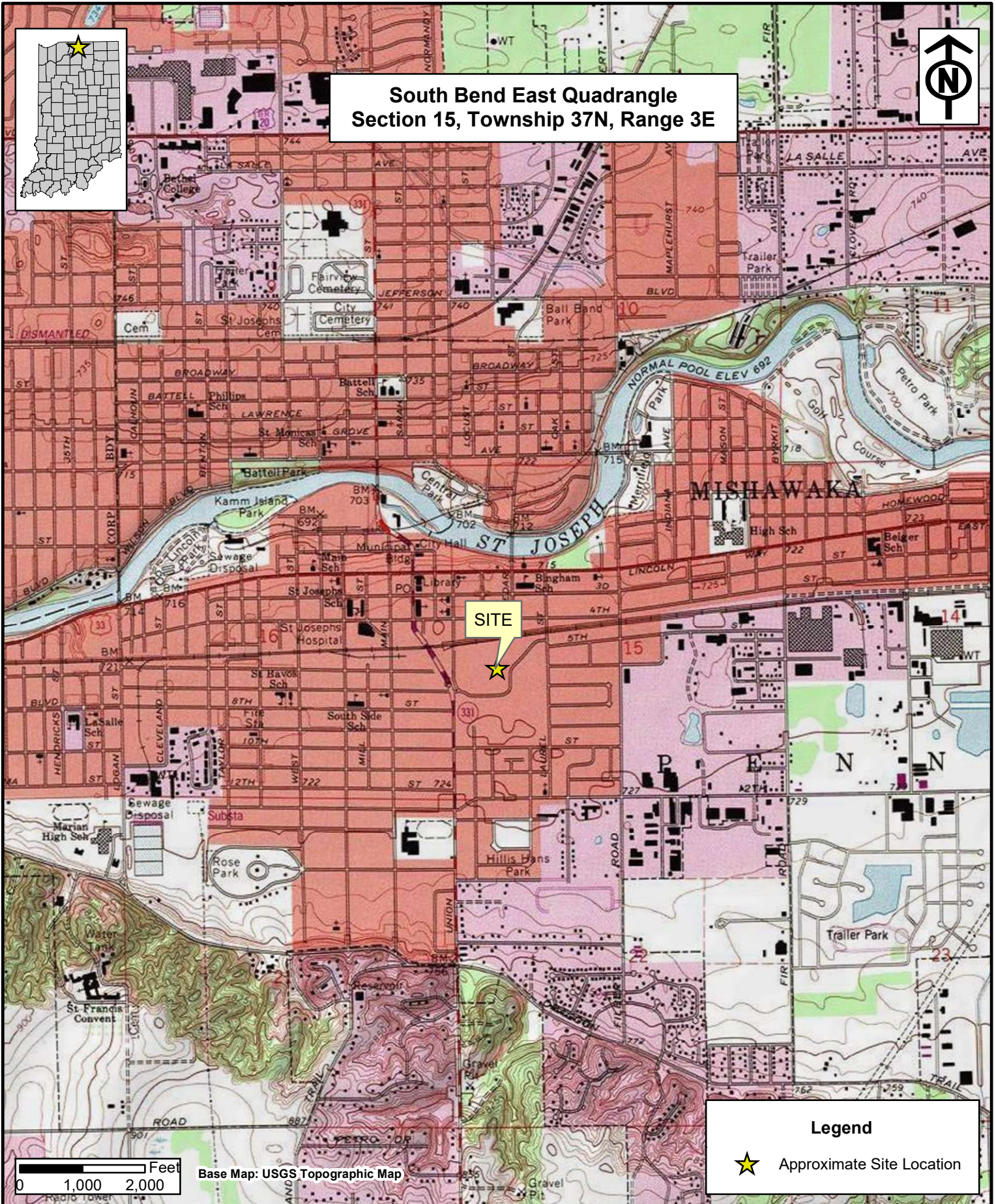


Nivas R. Vijay, CHMM
Senior Project Manager / Principal

FIGURES



South Bend East Quadrangle
Section 15, Township 37N, Range 3E



0 1,000 2,000 Feet

Base Map: USGS Topographic Map

Legend

★ Approximate Site Location

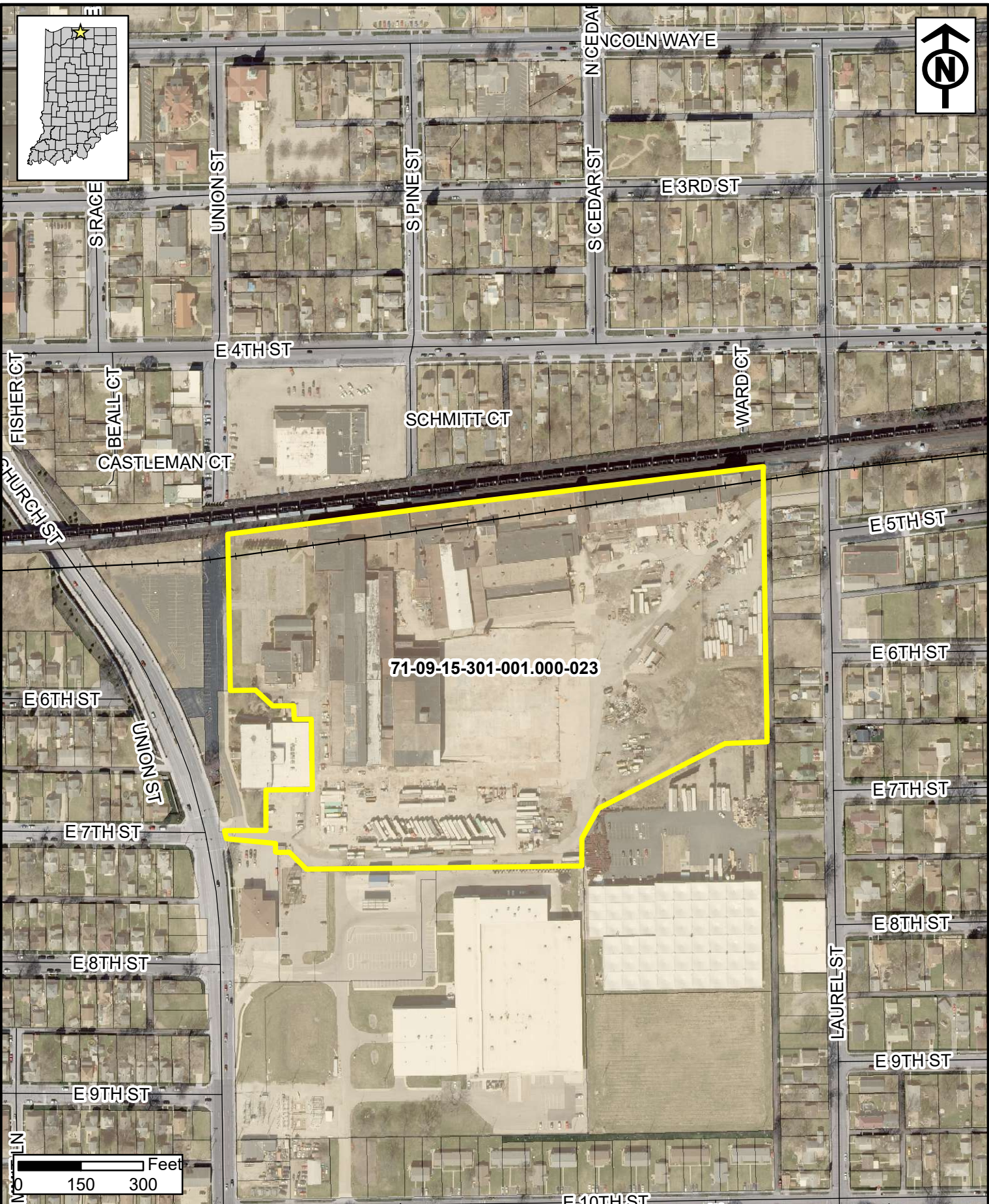
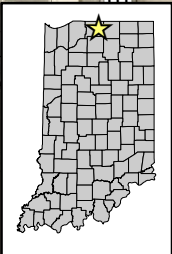


Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615
1324 East 16th Street, Indianapolis, Indiana 46202

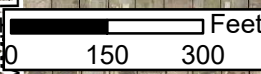
FIGURE 1
SITE LOCATION MAP

FORMER RMG / DODGE MANUFACTURING COMPANY FOUNDRY
500 UNION STREET
MISHAWAKA, INDIANA 46544-2340

Date:
5/14/2024
Scale:
1"=2,000'
Drawn By:
NV



71-09-15-301-001.000-023



Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615
1324 East 16th Street, Indianapolis, Indiana 46202

FIGURE 2
SITE MAP W/PARCEL BOUNDARY

FORMER RMG / DODGE MANUFACTURING COMPANY FOUNDRY
500 UNION STREET
MISHAWAKA, INDIANA 46544-2340

Date:
5/14/2024
Scale:
1"=300'
Drawn By:
NV

ATTACHMENT A

Asbestos Building Inspection Reports

HEARTLAND

ENVIRONMENTAL ASSOCIATES INC.

ASBESTOS BUILDING INSPECTION REPORT

**Former Dodge Manufacturing Company / Former RMG Foundry
Main Foundry Building
500 South Union Street
Mishawaka, Indiana 46544**

January 6, 2025

Heartland Project Number 5306-24-01

“Your dependable partner for environmental compliance”

3410 Mishawaka Avenue

South Bend, Indiana 46615

Phone 574.289.1191

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This report is prepared by:

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Prepared For:

City of Mishawaka, Indiana
c/o Department of Planning & Community Development
Attn: Mr. Kenneth B. Prince ASLA, AICP
600 East Third Street
Mishawaka, Indiana 46544

For the Site:

Former Dodge Manufacturing Company / Former RMG Foundry
Main Foundry Building
500 Union Street
Mishawaka, Indiana 46544
Heartland Project #5306-24-01

Report prepared by:



Ryan M. Orzechowicz, LPG
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Heartland Environmental Associates, Inc.
State of Indiana Asbestos Inspector
License #19A001542



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State of Indiana Asbestos Inspector
License #197004016

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EXECUTIVE SUMMARY

Heartland Environmental Associates, Inc. (Heartland), on behalf of the City of Mishawaka (City), conducted an asbestos building inspection of the former Dodge Manufacturing Company / former RMG Foundry facility located at 500 South Union Street in Mishawaka, Indiana. The subject property is located on one (1) parcel of land (Parcel ID #71-09-15-301-001.000-023) situated on an area of approximately 22.38-acres. The site is improved with one (1) one to four-story former industrial building encompassing approximately 372,981-square feet. The remaining portions of the site are capped with vegetation, concrete, crushed gravel and asphalt. The purpose of this inspection was to evaluate for the presence and/or absence of asbestos containing materials (ACMs) within the site building. This inspection was completed as part of pre-demolition project planning being initiated at the site and was requested by the City.

Note that the subject site also contains one (1) single-story detached structure formerly utilized as a boiler / utility building (referred to as the Power House Building). This building is situated west of the main foundry building subject to this inspection. This detached building was inspected in concert with this inspection and the results of the inspection of the Power House Building are reported under separate cover to this report.

Based on the results of this inspection, friable, regulated asbestos containing materials (RACMs) were encountered at the building in the form of thermal systems insulation (TSI) pipe wrapping, pipe fittings and textured ceiling material. RACMs in the form of TSI pipe wrapping and pipe fittings were encountered cladded on exposed pipe chases throughout all floors of the site building. RACMs in the form of textured ceiling materials were encountered on the ceilings in the north offices in the pattern shop. The TSI pipe wrap and pipe fittings were all presumed asbestos containing materials (PACMs) and were therefore not sampled.

The potential exists that some of the TSI pipe fitting materials extend upwards throughout the building; however, due to several of the interior walls being composed of concrete block and due to the dilapidated condition of the site building, a fully comprehensive inspection of potential hidden pipe chases could not be conducted due to safety considerations of the sampling personnel.

RACMs were identified in quantities (260 linear feet/160 square feet/35 cubic feet) greater than the written notification requirements specified in Indiana Administrative Code (326 IAC 14-10). **Therefore, written notification to the Indiana Department of Environmental Management (IDEM) will be required pertaining to asbestos related demolition and/or renovation actions at this property, as RACMs were encountered at the site exceeding written notification requirements. Abatement of these materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned renovation and/or demolition activities.**

In general, the RACMs were encountered in fair to poor condition, with several sections of TSI pipe wrap and pipe fittings encountered either intact or slightly damaged. However, significant amounts of TSI were observed to be damaged or significantly damaged. Additionally, several sections of TSI were scattered on the floor as debris. This included areas in the basement portion of the site building, where asbestos containing debris was strewn. Potential exposure to damaged and friable RACMs is a concern, particularly in the basement where strewn TSI was observed on the floors in several areas.

Additionally, non-friable ACMs in the form of resilient vinyl floor coverings and associated mastics, rolled asphalt roofing, rubberized roofing and roof flashing were encountered within select areas of the site building. Resilient vinyl flooring materials and associated mastics, rolled asphalt roofing and roof flashing are considered non-friable ACMs and therefore are not regulated. These materials do not pose an exposure concern to occupants of the site building unless subject to sanding, grinding, abrading or any other mechanical process which would render these materials friable.

Non-friable, unregulated ACMs can be disposed of as construction related demolition debris and will not require special abatement. Future abatement of these materials may be warranted, should these materials be subject to mechanical processes (i.e., sanding, grinding and/or abrading) as part of any future planned demolition activities. Note that, should abatement of these materials be desired, abatement work should be conducted by licensed asbestos abatement workers accredited in the State of Indiana.

Finally, non-friable ACMs in the form of transite wallboard materials were encountered on the exterior and interior of the site building, on the east mezzanine wall of the main foundry and on the ceiling of the 2nd floor, west mezzanine offices within the main foundry. The transite wallboard materials are considered non-friable ACMs and therefore are not regulated. However, these materials will likely become friable RACMs during demolition activities. **Therefore, abatement of these transite wallboard materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned renovation and/or demolition activities.**

Reasonable efforts were made to identify suspect ACMs within the facility building inspected. This inspection was performed using a combination of “destructive” and “non-destructive” sampling methods. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants. Furthermore, this inspection was limited in that a comprehensive inspection of the entire site building was not feasible due to some areas being restricted by concrete block walls and general safety considerations due to the dilapidated nature of the site building. As such, areas behind some concrete block walls and areas not accessible by ladder were not fully accessed as part of this inspection. Focus was made to identify ACMs and/or suspect ACMs in all accessible areas of the site building and in common locations throughout the building.

1.0 INTRODUCTION

Heartland was provided with authorization from the City, and coordinated access with representatives and staff from the City, to conduct an asbestos building inspection of the former Dodge Manufacturing Company / former RMG Foundry facility located at 500 South Union Street in Mishawaka, Indiana. The purpose of the inspection was to identify ACMs in order to assist the City as part of its pre-demolition project planning efforts. A site location map has been provided as Figure 1. A site map depicting the site and parcel boundaries is provided as Figure 2.

The site consists of one (1) vacant, industrial building addressed at 500 South Union Street in Mishawaka, Indiana. The site is located in a mixed industrial, commercial and residentially developed area on the southeast side of downtown Mishawaka. The site is bounded to the north by a railroad corridor, followed by a mix of residential and commercial properties, with East 4th Street located farther to the north. The site is bounded to the east by South Laurel Street (northern portion of site) and residential properties (southern portion of site) with residential properties located farther to the east. The site is bounded to the south by commercial and industrial properties (including the City of Mishawaka Fire Department and City of Mishawaka Street Department facilities), followed by residential properties, with East 10th Street located farther to the south, and the site is bounded to the west by South Union Street with residential properties located farther to the west.

The site was improved with one (1) one to four-story former industrial building and one (1) detached, single-story former boiler / utility building, with associated asphalt and concrete parking areas and landscaped areas. The subject property is located on one (1) parcel of land (Parcel Identification #71-09-15-301-001.000-023) situated on approximately 22.38-acres. The subject property was accessible via paved driveway approaches extending from South Union Street to the west and South Laurel Street to the northeast. Note that 7th Street, which is no longer a public thoroughfare, transects the southern and eastern portions of the site property and is now incorporated into the site parcel.

It should be noted that the detached, single-story former boiler / utility building (commonly referred to as the Power House Building) was inspected separately and the results of the inspection are provided under separate cover. This asbestos inspection report focuses on the main former industrial building.

The site conducted extensive manufacturing and foundry operations throughout its time of operation from at least 1878 through 2006.

The main site building consisted of a one to four-story, interconnected former industrial building encompassing approximately 372,981-square feet of space. The building consisted of a building and successive building additions. In general, the building consisted of a combination of brick, wood and steel frame construction and was constructed on a concrete foundation with basement

areas underlying some portions of the building. Exterior walls were finished with a combination of brick, metal and transite wallboard panels, and the interior portions of the site building were segregated with brick, concrete block and sheetrock or plaster walls over frame. The roofing consisted of built-up asphalt roofing materials overtop wood decking.

Reasonable efforts were made to identify suspect ACMs within the site building. Heartland acted on the understanding that the building would be subject to future renovation and/or be demolished. The inspection was performed using a combination of “destructive” and “non-destructive” sampling methods. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants.

This inspection was limited in that a comprehensive inspection of the entire site building was not feasible due to some areas being restricted by concrete block walls and some areas where uncompromised access was not feasible. As such, areas behind some concrete block walls and areas not accessible by ladder were not fully accessed as part of this inspection. Focus was made to identify ACMs and/or suspect ACMs in all accessible areas of the site building and in common locations throughout the building.

2.0 PREVIOUS REPORTS

Heartland was provided with a copy of ATEC Associates, Inc., *Asbestos Investigation Report* dated December 20, 1995, and conducted for the then Dodge Manufacturing Company facility buildings. Based on the findings of this investigation, significant quantities of both friable and non-friable ACMs were identified within the site building. These included significant quantities of regulated, friable TSI and transite materials, as well as non-friable resilient vinyl flooring and associated mastics.

Further, based on limited documentation reviewed, abatement activities were conducted at the site between the late 1990s and early 2000s. However, based on the limited documentation available for review, the exact volume of ACMs abated from the site is unknown. Based on observations made during these asbestos inspection activities, a significant amount of TSI pipe wrap and pipe fittings were likely abated due to the presence of fiberglass TSI along several pipe chases.

Note no other previous asbestos building inspection reports and/or as-built drawings were provided to Heartland prior to the initiation of this inspection for review.

3.0 METHODOLOGY

On December 9th, 10th and on December 17, 2024, Mr. Ryan M. Orzechowicz, Senior Project Geologist and Mr. Nivas Vijay, Senior Project Manager with Heartland, completed the inspection of the facility building. Mr. Orzechowicz and Mr. Vijay are both accredited asbestos building inspectors in the State of Indiana (License #'s 19A001542 and 197004016). Copies of Mr. Orzechowicz's and Mr. Vijay's Certificate of Asbestos Accreditations are provided for review in Appendix A. Photographs taken during inspection activities are included in Appendix B.

As part of the inspection, Heartland performed the following activities:

- Consulted with City staff about historical site operations;
- Inspected the construction materials of the building;
- Identified presumed ACMs and suspect ACMs for sampling;
- Sampled suspect ACMs; and
- Completed a report documenting Heartland's findings.

Based on Heartland's visual assessment of the facility building, several types of building materials were considered non-suspect ACMs and therefore were not considered in its evaluation. These materials included: concrete floors, brick and block, metal fixtures, glass, wood and plywood materials, fiberglass insulation and newly installed gypsum drywall board with proper labeling. The historical documentation summarized previously, pertaining to previously conducted asbestos inspections and/or abatements, were reviewed prior to inspection activities and was utilized in assisting in identifying suspect materials that may have historically been subject to sampling.

Focus was made to identify ACMs and/or suspect ACMs in all accessible areas of the site building and in common locations throughout the building.

4.0 INSPECTION FINDINGS

4.1 Description of Sample Locations

Heartland personnel obtained one hundred and thirty (130) bulk samples from thirty-eight (38) homogeneous areas of suspect ACMs for laboratory analysis. Sampled homogeneous materials included both suspect friable and non-friable building materials and included resilient vinyl flooring materials and associated mastics, acoustical ceiling tiles, drywall, plaster, insulation, asphalt roofing materials, rubberized roofing materials, roof flashing materials, window glazing, exterior caulking, transite paneling, exterior siding, textured ceiling materials, sprayed-on fireproofing materials, TSI pipe wrap and fittings, glue pods and corrugated debris materials.

Several materials were considered PACMs and were therefore not sampled. These PACMs consisted of TSI pipe wrap and fittings, TSI mudded joints, HVAC duct insulation and some areas of transite paneling.

The suspect materials were assessed based on condition of the material and friability (the ability to be crumbled or turned to dust by hand pressure). Heartland utilized disposable nitrile gloves while obtaining samples. The samples were then placed into pre-labeled sealable bags.

Following collection of the samples, Heartland transported the samples under Heartland chain-of-custody protocol to EMSL Analytical, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, in Indianapolis, Indiana. The suspect ACMs sampled were submitted for Polarized Light Microscopy (PLM) analysis, with the laboratory estimating the percent asbestos by visual inspection. Materials defined as ACM are those that contain greater than 1% asbestos. Materials that are not friable and contain less than 1% asbestos are not considered to be ACM.

4.2 Findings

Based on the results of this inspection, friable RACMs were encountered at the property in the form of TSI pipe wrapping, pipe fittings and textured ceiling materials. RACMs in the form of TSI pipe wrapping and pipe fittings were encountered cladded on exposed pipe chases throughout all floors of the site building. Approximate quantities of RACMs are summarized below in Table 1.

Additionally, non-friable ACMs in the form of resilient vinyl flooring materials and associated mastics, rolled asphalt roofing, rubberized roofing and roof flashing were identified throughout the site building and non-friable ACMs in the form of transite wallboard materials were identified on the exterior and interior of the site building, on the east mezzanine wall of the main foundry and on the ceiling of the 2nd floor, west mezzanine offices within the main foundry.

None of the remaining sampled materials were identified as containing asbestos. Laboratory analytical results are provided in Appendix C. A summary of sampled materials is provided in Table 1 below.

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry 500 South Union Street Mishawaka, Indiana December 9 th , 10 th & December 17, 2024					
Material/Location	Friable	Category	Asbestos Content	Area (ft ²) *	Sample #
Drywall – 1 st Floor Warehouse	Yes	RACM	ND	~2,000	DW – 1 (A-E)
Drywall – Main Foundry Rooms	Yes	RACM	ND	~1,000	DW – 2 (A-C)
Drywall – West Mezzanine Offices in Main Foundry	Yes	RACM	ND	~1,000	DW – 3 (A-C)
Drywall – Northwest Office Area, Interior	Yes	RACM	ND	~1,000	DW – 4 (A-C)
Drywall – Northwest Office Area, Exterior	Yes	RACM	ND	~1,000	DW – 5 (A-C)
Plaster – Ceilings of Warehouse	Yes	RACM	ND	~10,000	PL – 1 (A-G)
Plaster – Walls Throughout Building	Yes	RACM	ND	~3,000	PL – 2 (A-E)
Plaster – 2 nd Floor North Office Area Utility Chases	Yes	RACM	ND	~1,000	PL – 3 (A-C)
Plaster – Pattern Shop North Offices	Yes	RACM	ND	~600	PL – 4 (A-C)
Floor Tile/Mastic – 12” x 12” Dark Gray / Tan – 1 st Floor Warehouse	No	I (Mastic Only)	2% Chrysotile (Mastic Only)	~1,500	FT – 1 (A-E)
Floor Tile/Mastic – 9” x 9” Green / Streaks – Main Foundry Rooms	No	I (Mastic Only)	2% Chrysotile (Tile and Mastic)	~1,500	FT – 2 (A-E)
Floor Tile/Mastic – 12” x 12” Gray / Marble – Southeast Rooms in Main Foundry	No	I (Mastic Only)	ND	~800	FT – 3 (A-C)

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry 500 South Union Street Mishawaka, Indiana December 9th, 10th & December 17, 2024					
Floor Tile/Mastic – 12” x 12” Cream w/Brown Streaks – 2 nd Floor Room in Main Foundry	No	I (Mastic Only)	2% Chrysotile (Tile and Mastic)	~500	FT – 4 (A-C)
Floor Tile/Mastic – 9” x 9” Green w/ Cream Marble – 2 nd Floor North Office Areas in Main Foundry	No	I (Mastic Only)	ND	~6,600	FT – 5 (A-G)
Floor Tile/Mastic – 12” x 12” Mauve w/ Streaks – Northwest Office Entryway, 1 st Floor	No	I (Mastic Only)	3% Chrysotile (Mastic Only)	~500	FT –6 (A-C)
Floor Tile/Mastic – Maroon Vinyl Sheet – Northwest Office Entryway, 2 nd Floor	No	I (Mastic Only)	ND	~100	FT – 7 (A)
Floor Tile/Mastic – 12” x 12” Light Green – West Office in South Foundry	No	I (Mastic Only)	2% Chrysotile (Tile Only)	~100	FT – 8 (A)
Floor Tile/Mastic – 12” x 12” Light Gray w/ Marble – North Offices in Pattern Shop	No	I (Mastic Only)	ND	~100	FT – 9 (A)
Ceiling Tile – 4’x2’ White w/ Smooth Gypsum Board – 1 st Floor Warehouse	Yes	RACM	ND	~1,200	CT – 1 (A-E)
Ceiling Tile – 4’x2’ White w/ Buckshot & Squiggles – Main Foundry Rooms	Yes	RACM	ND	~1,000	CT – 2 (A-C)
Ceiling Tile – 4’x2’ White w/ Dots & Grooves – 2 nd Floor North Offices & Southeast Room of Main Foundry	Yes	RACM	ND	~2,500	CT – 3 (A-E)
Ceiling Tile – 4’x2’ White w/ Smooth Finish – West Office in South Foundry	Yes	RACM	ND	~100	CT – 4 (A)
Glue Pods – Ceilings/Ceiling Tiles, 2 nd Floor Above Laboratories	No	I	ND	~100	GP – 1 (A)
Rolled Asphalt Roofing Material, Roof of Building	No	I	3% Chrysotile	-	RF – 1 (A-C)
Rubberized Roofing Material, Roof of Building	No	I	3% Chrysotile	-	RF – 2 (A-C)
Roofing Flashing, Roof of Building	No	I	2% Chrysotile	-	FL – 1 (A-C)

<p align="center">Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry 500 South Union Street Mishawaka, Indiana December 9th, 10th & December 17, 2024</p>					
Corrugated Debris – Scattered As Debris on Floor of Warehouse Basement	No	I	70% Chrysotile	~Strewn About Over ~18,900 Square Feet of Basement Space Note: Area includes 90' x 60' on the North Side of Basement; 90' x 120' centrally in basement; and 90' x 30' on the South Side of Basement	DB – 1 (A-C)
Corrugated Transite Wallboard – Exterior of Building	No	II	30% Chrysotile	~2,240	SD – 1 (A-C)
Flat Panel Transite Siding – Exterior of Building	No	II	20% Chrysotile	~21,352 Note area includes side panels and exterior roofing panels	SD – 2 (A-C)
Siding Coating – Red/Salmon, Exterior of Building	No	II	ND	~1,500	GL – 1 (A)
Siding Coating – Blue, Exterior of Building	No	II	ND	~1,500	GL – 2 (A)
Ceiling Panels – Ceiling of West Mezzanine Office in Main Foundry	No	II	20% Chrysotile	~1,000	CP – 1 (A-C)
Wallboard – East Mezzanine in Main Foundry	No	II	20% Chrysotile	~40	WB – 1 (A)
Window Glazing – Gray, Windows of Warehouse	No	I	<1% Chrysotile	-	WG – 1 (A-G)
Window Glazing – Gray, Windows of Building	No	I	<1% Chrysotile	-	WG – 2 (A-G)

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry 500 South Union Street Mishawaka, Indiana December 9th, 10th & December 17, 2024					
Exterior Caulking – Exterior Doors	No	I	ND	~300 Linear Feet	EC – 1 (A-C)
Sprayed-On Fireproofing – On Interior Walls of Building	Yes	RACM	ND	>5,000	FP – 1 (A-G)
Textured Ceiling Material – North Offices in Pattern Shop	Yes	I	15% Chrysotile	~500	TC – 1 (A-C)
Thermal Systems Insulation Pipe Wrapping – 2”, 3” and 5” Runs in Pattern Shop	Yes	RACM	PACM	~185 LF + ~8 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 2”, 3” and 5” Runs in South Core Room	Yes	RACM	PACM	~245 LF + ~6 to 8 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 2”, 3” and 5” Runs, West Catwalk / Packing	Yes	RACM	PACM	~355 LF + ~18 to 23 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 2”, 3” and 5” Runs, East Catwalk / Packing	Yes	RACM	PACM	~135 LF + ~2 to 6 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 3” and 4” Runs in Locker Room	Yes	RACM	PACM	~170 LF + ~2 to 7 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 2” and 3” Runs, East 1 st Floor Packing	Yes	RACM	PACM	~140 LF + ~2 to 4 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 4” and 5” Runs, Central 1 st Floor Packing	Yes	RACM	PACM	~55 LF + ~4 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 3” and 5” Runs, Basement	Yes	RACM	PACM	~30 LF + ~6 to 8 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 3” and 5” Runs – Foundry Main NW	Yes	RACM	PACM	~60 to 80 LF + ~6 to 12 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 12” Runs under tunnel chase, Foundry Main NW	Yes	RACM	PACM	~100 – 200 LF (Could Not Definitively Ascertain Quantity due to chase location)	NS
Thermal Systems Insulation Pipe Wrapping – 5” Runs – Mid-West North Foundry Room	Yes	RACM	PACM	~12 - 15 Mud Joints	NS

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry 500 South Union Street Mishawaka, Indiana December 9th, 10th & December 17, 2024					
Thermal Systems Insulation Pipe Wrapping – 2” Runs – Middle North Foundry Room	Yes	-	PACM	~120 LF (~80 LF Encapsulated) + ~20 to 25 Mud Joints	NS
Thermal Systems Insulation Pipe Wrapping – 5” Runs – Eastern North Foundry Room	Yes	-	PACM	~25 to 30 LF + ~15 to 20 Mud Joints	NS
Friable: Yes – hand friable, No – non-friable ND: No asbestos detected NS: Not Sampled PACM: Presumed Asbestos Containing Materials Results in BOLD indicate positive results for asbestos LF: Linear Feet *Square footage estimates determined from during site inspection activities and take into account reasonable assumptions for locations that were inaccessible.					

It should be noted that damaged and/or significantly damaged ACMs and/or friable ACMs were observed which were readily accessible within the site building. Potential exposure to damaged and friable RACMs is a concern, particularly where strewn TSI was observed on the floors in several areas. Further of note, damaged ACMs and friable RACMs were scattered throughout the site building as debris, particularly in the basement of the site building. Therefore, the estimated quantities of ACMs were based on reasonable assumptions of what was visible during the time of inspection.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Heartland conducted an asbestos building inspection of the former Dodge Manufacturing Company / former RMG Foundry facility located at 500 South Union Street in Mishawaka, Indiana. The site is improved with one (1) one to four-story former industrial building encompassing approximately 372,981-square feet. The remaining portions of the site are capped with vegetation, concrete, crushed gravel and asphalt. The purpose of this inspection was to evaluate for the presence and/or absence of ACMs within the inspected site building and the assist in the City in pre-demolition project planning.

Based on the results of this inspection, friable, RACMs were encountered at the building in the form of TSI pipe wrapping, pipe fittings and textured ceiling material. RACMs in the form of TSI pipe wrapping and pipe fittings were encountered cladded on exposed pipe chases throughout all floors of the site building. RACMs in the form of textured ceiling materials were encountered on the ceilings in the north offices in the pattern shop. The TSI pipe wrap and pipe fittings were all PACMs and were therefore not sampled.

The potential exists that some of the TSI pipe fitting materials extend upwards throughout the building; however, due to several of the interior walls being composed of concrete block and due to the dilapidated condition of the site building, a fully comprehensive inspection of potential hidden pipe chases could not be conducted due to safety considerations of the sampling personnel.

RACMs were identified in quantities (260 linear feet/160 square feet/35 cubic feet) greater than the written notification requirements specified in Indiana Administrative Code (326 IAC 14-10). **Therefore, written notification to the IDEM will be required pertaining to asbestos related demolition and/or renovation actions at this property, as RACMs were encountered at the site exceeding written notification requirements. Abatement of these materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned renovation and/or demolition activities.**

In general, the RACMs were encountered in fair to poor condition, with several sections of TSI pipe wrap and pipe fittings encountered either intact or slightly damaged. However, significant amounts of TSI were observed to be damaged or significantly damaged. Additionally, several sections of TSI were scattered on the floor as debris. This included areas in the basement portion of the site building, where asbestos containing debris was strewn. Potential exposure to damaged and friable RACMs is a concern, particularly in the basement where strewn TSI was observed on the floors in several areas.

Additionally, non-friable ACMs in the form of resilient vinyl floor coverings and associated mastics, rolled asphalt roofing, rubberized roofing and roof flashing were encountered within select areas of the site building. Resilient vinyl flooring materials and associated mastics, rolled asphalt

roofing and roof flashing are considered non-friable ACMs and therefore are not regulated. These materials do not pose an exposure concern to occupants of the site building unless subject to sanding, grinding, abrading or any other mechanical process which would render these materials friable.

Non-friable, unregulated ACMs can be disposed of as construction related demolition debris and will not require special abatement. Future abatement of these materials may be warranted, should these materials be subject to mechanical processes (i.e., sanding, grinding and/or abrading) as part of any future planned demolition activities. Note that, should abatement of these materials be desired, abatement work should be conducted by licensed asbestos abatement workers accredited in the State of Indiana.

Finally, non-friable ACMs in the form of transite wallboard materials were encountered on the exterior and interior of the site building, on the east mezzanine wall of the main foundry and on the ceiling of the 2nd floor, west mezzanine offices within the main foundry. The transite wallboard materials are considered non-friable ACMs and therefore are not regulated. However, these materials will likely become friable RACMs during demolition activities. **Therefore, abatement of these transite wallboard materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned renovation and/or demolition activities.**

Reasonable efforts were made to identify suspect ACMs within the facility building inspected. This inspection was performed using a combination of “destructive” and “non-destructive” sampling methods. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants. Furthermore, this inspection was limited in that a comprehensive inspection of the entire site building was not feasible due to some areas being restricted by concrete block walls and general safety considerations due to the dilapidated nature of the site building. As such, areas behind some concrete block walls and areas not accessible by ladder were not fully accessed as part of this inspection. Focus was made to identify ACMs and/or suspect ACMs in all accessible areas of the site building and in common locations throughout the building.

6.0 DISCLAIMER AND SIGNATURE PAGE

This environmental report was prepared in accordance with generally accepted principles and practices in the environmental consulting field. Conclusions and recommendations expressed herein were developed from site evaluation and limited research, and we are not responsible for unrecorded data pertaining to this site. Heartland makes no warranties, expressed or implied, as to the fitness or merchantability of said property for any particular purpose, and we are not responsible for independent conclusions or opinions made by others based on this report.

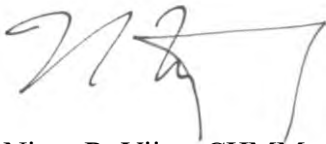
Reasonable efforts were made to identify suspect ACMs within the facility building inspected. This inspection was performed using a combination of “destructive” and “non-destructive” sampling methods. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants. Furthermore, as stated prior, this inspection was limited in that a comprehensive inspection of the entire site building was not feasible due to some areas being restricted by concrete block walls and general safety considerations due to the dilapidated nature of the site building. As such, areas behind some concrete block walls and areas not accessible by ladder were not fully accessed as part of this inspection. Focus was made to identify ACMs and/or suspect ACMs in all accessible areas of the site building and in common locations throughout the building.

If you should have questions regarding this report, please contact Heartland at 574-289-1191.

Sincerely,

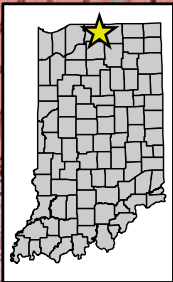


Ryan Orzechowicz, LPG
Senior Project Geologist
Indiana Asbestos License #19A001542

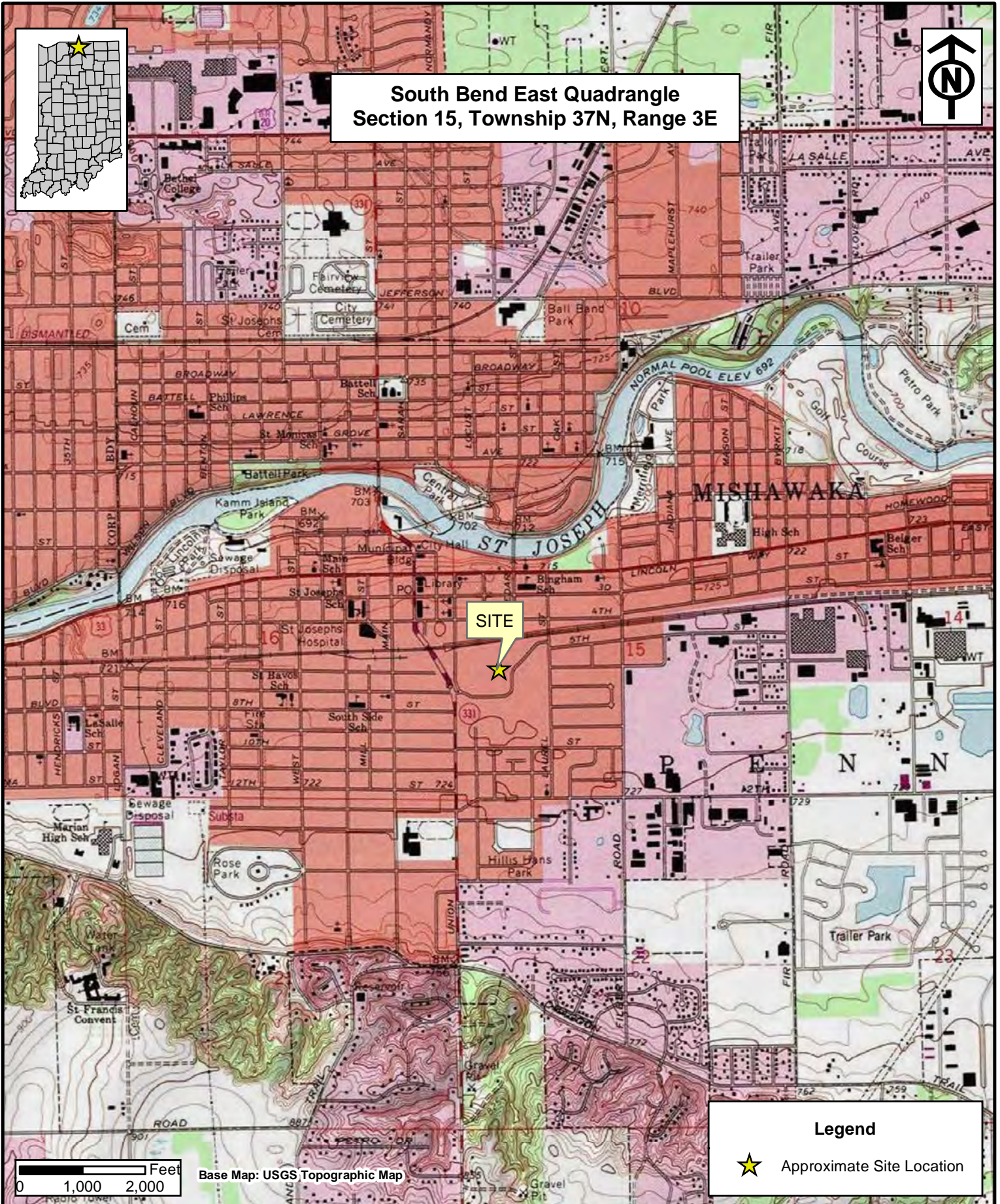


Nivas R. Vijay, CHMM
Senior Project Manager / Principal
Indiana Asbestos License #197004016

FIGURES




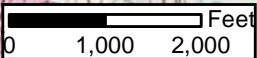
**South Bend East Quadrangle
Section 15, Township 37N, Range 3E**



SITE

Legend

 Approximate Site Location



Base Map: USGS Topographic Map

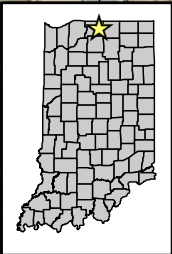


Heartland Environmental Associates, Inc.
3410 Mishawaka Avenue, South Bend, Indiana 46615
1324 East 16th Street, Indianapolis, Indiana 46202

**FIGURE 1
SITE LOCATION MAP**

**FORMER RMG / DODGE MANUFACTURING COMPANY FOUNDRY
500 UNION STREET
MISHAWAKA, INDIANA 46544-2340**

Date:
2/11/2025
Scale:
1"=2,000'
Drawn By:
NV



S P I N E S T

S C E D A R S T

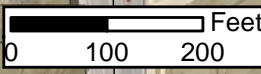
E 4 T H S T

S C H M I T T C T


W A R D C T

71-09-15-301-001.000-023

E 8 T H S T



Legend

 Approximate Parcel Boundary



Heartland Environmental Associates, Inc.
 3410 Mishawaka Avenue, South Bend, Indiana 46615
 1324 East 16th Street, Indianapolis, Indiana 46202

FIGURE 2
 SITE MAP W/PARCEL BOUNDARY

FORMER RMG / DODGE MANUFACTURING COMPANY FOUNDRY
 500 UNION STREET
 MISHAWAKA, INDIANA 46544-2340

Date:
2/11/2025
 Scale:
1"=200'
 Drawn By:
NV

ATTACHMENT A

ASBESTOS LICENSE DOCUMENTATION



Indiana Dept. of Environmental Management

Ryan M. Orzechowicz

Asbestos Inspector License #: 19A001542

Effective: 04/08/2024	Expiration: 04/08/2025
Birth Date: 07/29/1983	Gender: M
Height: 5-09	Eye Color: GRN
Weight: 160	Hair Color: BRO



Indiana Dept. of Environmental Management

Nivas R. Vijayaraghavan

Asbestos Inspector License #: 197004016

Effective: 04/14/2024

Expiration: 04/14/2025

Birth Date: 05/29/1979

Gender: M

Height: 5-08

Eye Color: BRO

Weight: 160

Hair Color: BLK

ATTACHMENT B

SITE PHOTOGRAPHIC LOG



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of south face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 1



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of south face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 2



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of central portion of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 3



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of eastern portion of south face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 4



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of northern portion of west face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 5



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of west face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 6



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of west face of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 7



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of south face of west portion of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 8



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of east face of warehouse building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 9



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of south face of central portion of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 10



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of interior of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 11



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 628 Western Avenue in South Bend, Indian
SUBJECT: View of interior of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 12



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of interior of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 13



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of rooftop of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 14



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of rooftop of site building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 15



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of interior of main foundry
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 16



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of basement of warehouse building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 17



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of tunnel underneath former south building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 18



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of 1st floor of warehouse building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 19



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled sprayed-on fireproofing (FP-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 20



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled rolled asphalt roofing (RF-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 21



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled rubberized roofing (RF-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 22



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled roof flashing (FL-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 23



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled exterior caulking (EC-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 24



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled corrugated wallboard siding (SD-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 25



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled smooth panel transite siding (SD-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 26



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of double paneling structure of smooth panel transite siding
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 27



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled window glazing (WG-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 28



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled window glazing (WG-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 29



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled wallboard (WB-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 30



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled ceiling panels (CP-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 31



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled textured ceiling (TC-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 32



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled corrugated debris in basement of warehouse (DB-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 33



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 34



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 35



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 36



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 37



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-5)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 38



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-6)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 39



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-7)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 40



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-8)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 41



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled floor tile (FT-9)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 42



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled glue pods (GP-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 43



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled ceiling tile (CT-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 44



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled ceiling tile (CT-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 45



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled ceiling tile (CT-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 46



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled ceiling tile (CT-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 47



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled drywall (DW-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 48



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled drywall (DW-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 49



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled drywall (DW-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 50



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled drywall (DW-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 51



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled drywall (DW-5)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 52



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled plaster (PL-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 53



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled plaster (PL-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 54



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled plaster (PL-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 55



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled plaster (PL-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 56



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled TSI pipe wrap (PW-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 57



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 58



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 59



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap scattered as debris
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 60



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of sampled TSI mudded joint (MJ-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 61



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of damaged ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 62



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 63



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 64



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 65



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 66



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 67



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 68



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 69



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap scattered as debris
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 70



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap scattered as debris
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 71



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 72

ATTACHMENT C

LABORATORY ANALYTICAL REPORT



EMSL Analytical, Inc.

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<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162421098
Customer ID: HRTL42
Customer PO:
Project ID:

Attention: Ryan Orzechowicz
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615
Phone: (317) 771-2283
Fax:
Received Date: 12/11/2024 1:08 PM
Analysis Date: 12/13/2024
Collected Date: 12/10/2024
Project: 500 S. Union St.

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-1A-Floor Tile <small>162421098-0001</small>	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-1A-Mastic <small>162421098-0001A</small>	Floor Tile	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-1B-Floor Tile <small>162421098-0002</small>	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-1B-Mastic <small>162421098-0002A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-1C-Floor Tile <small>162421098-0003</small>	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-1C-Mastic <small>162421098-0003A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-1D-Floor Tile <small>162421098-0004</small>	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-1D-Mastic <small>162421098-0004A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-1E-Floor Tile <small>162421098-0005</small>	Floor Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-1E-Mastic <small>162421098-0005A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-2A-Floor Tile <small>162421098-0006</small>	Floor Tile	Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-2A-Mastic <small>162421098-0006A</small>	Floor Tile	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-2B <small>162421098-0007</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-2C <small>162421098-0008</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-2D <small>162421098-0009</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-2E <small>162421098-0010</small>	Floor Tile				Positive Stop (Not Analyzed)

Initial report from: 12/13/2024 13:54:21



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EMSL Order: 162421098
Customer ID: HRTL42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-3A <small>162421098-0011</small>	Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-3B <small>162421098-0012</small>	Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-3C-Floor Tile <small>162421098-0013</small>	Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-3C-Mastic <small>162421098-0013A</small>	Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4A-Floor Tile <small>162421098-0014</small>	Floor Tile	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4A-Mastic <small>162421098-0014A</small>	Floor Tile	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-4B-Floor Tile <small>162421098-0015</small>	Floor Tile	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-4B-Mastic <small>162421098-0015A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-4C <small>162421098-0016</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-5A <small>162421098-0017</small>	Floor Tile	Green Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
FT-5B <small>162421098-0018</small>	Floor Tile	Green Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
FT-5C <small>162421098-0019</small>	Floor Tile	Green Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
FT-5D-Floor Tile <small>162421098-0020</small>	Floor Tile	Green Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
FT-5D-Mastic <small>162421098-0020A</small>	Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-5E <small>162421098-0021</small>	Floor Tile	Green Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
FT-5F <small>162421098-0022</small>	Floor Tile	Green Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
FT-5G <small>162421098-0023</small>	Floor Tile	Green Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
FT-6A-Floor Tile <small>162421098-0024</small>	Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-6A-Mastic <small>162421098-0024A</small>	Floor Tile	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile

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EMSL Order: 162421098
Customer ID: HRTL42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-6B-Floor Tile <small>162421098-0025</small>	Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-6B-Mastic <small>162421098-0025A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-6C-Floor Tile <small>162421098-0026</small>	Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-6C-Mastic <small>162421098-0026A</small>	Floor Tile				Positive Stop (Not Analyzed)
FT-7A-Floor Tile <small>162421098-0027</small>	Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-7A-Mastic <small>162421098-0027A</small>	Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-8A-Floor Tile <small>162421098-0028</small>	Floor Tile	Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-8A-Mastic <small>162421098-0028A</small>	Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-9A-Floor Tile <small>162421098-0029</small>	Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-9A-Mastic <small>162421098-0029A</small>	Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CT-1A <small>162421098-0030</small>	Ceiling Tile	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	75% Gypsum 2% Mica 1% Non-fibrous (Other)	None Detected
CT-1B <small>162421098-0031</small>	Ceiling Tile	Brown/White Non-Fibrous Heterogeneous	5% Cellulose 2% Glass	90% Gypsum 2% Mica 1% Non-fibrous (Other)	None Detected
CT-1C <small>162421098-0032</small>	Ceiling Tile	Brown/White Non-Fibrous Heterogeneous	5% Cellulose 2% Glass	90% Gypsum 2% Mica 1% Non-fibrous (Other)	None Detected
CT-1D <small>162421098-0033</small>	Ceiling Tile	Brown/White Non-Fibrous Heterogeneous	5% Cellulose 2% Glass	85% Gypsum 2% Mica 6% Non-fibrous (Other)	None Detected
CT-1E <small>162421098-0034</small>	Ceiling Tile	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	70% Gypsum 2% Mica 6% Non-fibrous (Other)	None Detected
CT-2A <small>162421098-0035</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	70% Cellulose 10% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-2B <small>162421098-0036</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	70% Cellulose 10% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-2C <small>162421098-0037</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	70% Cellulose 10% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3A <small>162421098-0038</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected

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EMSL Order: 162421098
Customer ID: HRTL42
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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CT-3B <small>162421098-0039</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3C <small>162421098-0040</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3D <small>162421098-0041</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3E <small>162421098-0042</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-4A <small>162421098-0043</small>	Ceiling Tile	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
DW-1A <small>162421098-0044</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1B <small>162421098-0045</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1C <small>162421098-0046</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1D <small>162421098-0047</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1E-Drywall <small>162421098-0048</small>	Drywall	Brown/Tan Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
DW-1E-Joint Compound <small>162421098-0048A</small>	Drywall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
DW-2A <small>162421098-0049</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-2B <small>162421098-0050</small>	Drywall	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-2C <small>162421098-0051</small>	Drywall	White/Black Fibrous Heterogeneous	10% Cellulose	80% Gypsum 10% Non-fibrous (Other)	None Detected
DW-3A <small>162421098-0052</small>	Drywall	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-3B <small>162421098-0053</small>	Drywall	Brown/White Fibrous Heterogeneous	10% Cellulose	85% Gypsum 5% Non-fibrous (Other)	None Detected
DW-3C <small>162421098-0054</small>	Drywall	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-4A <small>162421098-0055</small>	Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	80% Gypsum 5% Non-fibrous (Other)	None Detected
DW-4B <small>162421098-0056</small>	Drywall	Brown/White Fibrous Heterogeneous	15% Cellulose	80% Gypsum 5% Non-fibrous (Other)	None Detected

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EMSL Order: 162421098
Customer ID: HRTL42
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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DW-4C <small>162421098-0057</small>	Drywall	Brown/White Non-Fibrous Homogeneous	3% Cellulose <1% Glass	90% Gypsum 7% Non-fibrous (Other)	None Detected
DW-5A <small>162421098-0058</small>	Drywall	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-5B <small>162421098-0059</small>	Drywall	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-5C <small>162421098-0060</small>	Drywall	Tan Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
PL-1A <small>162421098-0061</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1B-Texture <small>162421098-0062</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1B-Plaster <small>162421098-0062A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1C-Texture <small>162421098-0063</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1C-Plaster <small>162421098-0063A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1D-Texture <small>162421098-0064</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1D-Plaster <small>162421098-0064A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1E-Texture <small>162421098-0065</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1E-Plaster <small>162421098-0065A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1F-Texture <small>162421098-0066</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1F-Plaster <small>162421098-0066A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1G-Texture <small>162421098-0067</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1G-Plaster <small>162421098-0067A</small>	Plaster	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-2A <small>162421098-0068</small>	Plaster	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-2B <small>162421098-0069</small>	Plaster	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

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EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162421098

Customer ID: HRTL42

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PL-2C <small>162421098-0070</small>	Plaster	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-2D <small>162421098-0071</small>	Plaster	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-2E-Texture <small>162421098-0072</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-2E-Plaster <small>162421098-0072A</small>	Plaster	White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-3A-Finish Coat <small>162421098-0073</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-3A-Base Coat <small>162421098-0073A</small>	Plaster	Gray Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
PL-3B-Finish Coat <small>162421098-0074</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-3B-Base Coat <small>162421098-0074A</small>	Plaster	Gray Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
PL-3C-Finish Coat <small>162421098-0075</small>	Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-3C-Base Coat <small>162421098-0075A</small>	Plaster	Gray Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
PL-4A <small>162421098-0076</small>	Plaster	Gray/Rust Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
PL-4B <small>162421098-0077</small>	Plaster	Gray/Rust Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
PL-4C <small>162421098-0078</small>	Plaster	Gray/Rust Non-Fibrous Homogeneous		10% Perlite 90% Non-fibrous (Other)	None Detected
RF-1A <small>162421098-0079</small>	Rolled Asphalt Roofing	Black Fibrous Heterogeneous	15% Cellulose	82% Non-fibrous (Other)	3% Chrysotile
RF-1B <small>162421098-0080</small>	Rolled Asphalt Roofing				Positive Stop (Not Analyzed)
RF-1C <small>162421098-0081</small>	Rolled Asphalt Roofing				Positive Stop (Not Analyzed)
RF-2A <small>162421098-0082</small>	Rubberized Roofing	White/Black Fibrous Heterogeneous	15% Cellulose	82% Non-fibrous (Other)	3% Chrysotile
RF-2B <small>162421098-0083</small>	Rubberized Roofing				Positive Stop (Not Analyzed)
RF-2C <small>162421098-0084</small>	Rubberized Roofing				Positive Stop (Not Analyzed)

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FL-1A <small>162421098-0085</small>	Roof Flashing	Gray/Black Fibrous Homogeneous	20% Cellulose	5% Quartz 75% Non-fibrous (Other)	None Detected
FL-1B <small>162421098-0086</small>	Roof Flashing	Black/Silver Fibrous Homogeneous	20% Cellulose	5% Quartz 73% Non-fibrous (Other)	2% Chrysotile
FL-1C <small>162421098-0087</small>	Roof Flashing				Positive Stop (Not Analyzed)
SD-1A <small>162421098-0088</small>	Corrugated Siding	Gray Fibrous Homogeneous		70% Non-fibrous (Other)	30% Chrysotile
SD-1B <small>162421098-0089</small>	Corrugated Siding				Positive Stop (Not Analyzed)
SD-1C <small>162421098-0090</small>	Corrugated Siding				Positive Stop (Not Analyzed)
SD-2A <small>162421098-0091</small>	Flat Panel Siding	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
SD-2B <small>162421098-0092</small>	Flat Panel Siding				Positive Stop (Not Analyzed)
SD-2C <small>162421098-0093</small>	Flat Panel Siding				Positive Stop (Not Analyzed)
GP-1A <small>162421098-0094</small>	Glue Pods	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
GL-1A <small>162421098-0095</small>	Siding	Tan/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
GL-2A <small>162421098-0096</small>	Siding	Tan/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WG-1A <small>162421098-0097</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1B <small>162421098-0098</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1C <small>162421098-0099</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1D <small>162421098-0100</small>	Window Glazing	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1E <small>162421098-0101</small>	Window Glazing	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1F <small>162421098-0102</small>	Window Glazing	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-1G <small>162421098-0103</small>	Window Glazing	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WG-2A <small>162421098-0104</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2B <small>162421098-0105</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2C <small>162421098-0106</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2D <small>162421098-0107</small>	Window Glazing	Tan/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2E <small>162421098-0108</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2F <small>162421098-0109</small>	Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
WG-2G <small>162421098-0110</small>	Window Glazing	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
DB-1A <small>162421098-0111</small>	Corrugated Debris	White Fibrous Homogeneous		30% Non-fibrous (Other)	70% Chrysotile
DB-1B <small>162421098-0112</small>	Corrugated Debris				Positive Stop (Not Analyzed)
DB-1C <small>162421098-0113</small>	Corrugated Debris				Positive Stop (Not Analyzed)
FP-1A <small>162421098-0114</small>	Sprayed-On Fireproofing	Brown/White Fibrous Homogeneous	80% Cellulose	15% Perlite 5% Non-fibrous (Other)	None Detected
FP-1B <small>162421098-0115</small>	Sprayed-On Fireproofing	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
FP-1C <small>162421098-0116</small>	Sprayed-On Fireproofing	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
FP-1D <small>162421098-0117</small>	Sprayed-On Fireproofing	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
FP-1E <small>162421098-0118</small>	Sprayed-On Fireproofing	Brown/Gray/Green Fibrous Homogeneous	90% Cellulose	5% Mica 5% Non-fibrous (Other)	None Detected
FP-1F <small>162421098-0119</small>	Sprayed-On Fireproofing	Brown/Gray/Green Fibrous Homogeneous	90% Cellulose	5% Mica 5% Non-fibrous (Other)	None Detected
FP-1G <small>162421098-0120</small>	Sprayed-On Fireproofing	Brown/Gray/Green Fibrous Homogeneous	90% Cellulose	5% Mica 5% Non-fibrous (Other)	None Detected
CP-1A <small>162421098-0121</small>	Ceiling Panels	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
CP-1B <small>162421098-0122</small>	Ceiling Panels				Positive Stop (Not Analyzed)

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EMSL Order: 162421098
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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CP-1C	Ceiling Panels				Positive Stop (Not Analyzed)
<i>162421098-0123</i>					
WB-1A	Wall Board	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
<i>162421098-0124</i>					
EC-1A	Exterior Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>162421098-0125</i>					
EC-1B	Exterior Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>162421098-0126</i>					
EC-1C	Exterior Caulking	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>162421098-0127</i>					
TC-1A	Textured Ceiling	Brown/Tan Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
<i>162421098-0128</i>					
TC-1B	Textured Ceiling				Positive Stop (Not Analyzed)
<i>162421098-0129</i>					
TC-1C	Textured Ceiling				Positive Stop (Not Analyzed)
<i>162421098-0130</i>					

Analyst(s)

Alison Pacey (31)
Luke Anderson (27)
Maggie Hayden (62)
Ross Matlock (10)

Asbestos Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262, A2LA Accredited - Certificate #2845.25

Initial report from: 12/13/2024 13:54:21



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

162421098

EMSL ANALYTICAL, INC.
6340 CASTLEPLACE DR.
INDIANAPOLIS, IN 46250
PHONE: (800) 220-3675
FAX: (317)803-3047

Company Name: <u>HEARTLAND ENVIRONMENTAL ASSOCIATES, INC.</u>		EMSL Customer ID:	
Street: <u>3410 MISHAWAKA AVENUE</u>		City: <u>SOUTH BEND</u>	State/Province: <u>IN</u>
Zip/Postal Code: <u>46615</u>	Country: <u>USA</u>	Telephone #: <u>574-289-1191</u>	Fax #:
Report To (Name): <u>RYAN ORZECZOWICZ</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: <u>rozzedawicz@heartlandenv.com</u>		Purchase Order:	
Project Name/Number: <u>500 S. UNION ST.</u>		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: <u>IN</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples are from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NYS 198.8 SOF-V</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM- Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%)</p> <p><input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%)</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep</p> <p><input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)</p> <p>Other:</p> <p><input type="checkbox"/></p>
---	--	--

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: RYAN ORZECZOWICZ Samplers Signature: Ryan Orzechowicz

Sample #	Sample Description	Volume/Area (µl) HA # (Bulk)	Date/Time Sampled
FT-1	FLOOR TILE	A-E	12/10/24
FT-2		A-E	
FT-3		A-C	
FT-4		A-C	
FT-5		A-G	

Client Sample # (s):	-	Total # of Samples:	
Relinquished (Client): <u>Ryan Orzechowicz</u>	Date: <u>12/11/24</u>	Time: <u>1:00pm</u>	
Received (Lab): <u>OBingham</u>	Date: <u>12/11/24</u>	Time: <u>1:50PM</u>	
Comments/Special Instructions: <u>WZ</u>			



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

- 21098

EMSL ANALYTICAL, INC.
6340 CASTLEPLACE DR
INDIANAPOLIS, IN46250
PHONE: (800) 220-3675
FAX: (317)803-3047

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
FT-6	FLOOR TILE	A-C	12/10/24
FT-7		A	
FT-8		A	
FT-9		A	
CT-1		CEILING TILE	
CT-2		A-C	
CT-3		A-E	
CT-4		A	
DW-1		DRYWALL	
DW-2		A-C	
DW-3		A-C	
DW-4		A-C	
DW-5		A-C	
PL-1		PLASTER	
PL-2		A-E	
PL-3		A-C	
PL-4		A-C	
RF-1	ROLLED ASPHALT ROOFING	A-C	
RF-2	RUBBERIZED ROOFING	A-C	
FL-1	ROOF FLASHING	A-C	
SD-1	CORRUGATED SIDING	A-C	
SD-2	FLAT PANEL SIDING	A-C	
GP-1	GLUE PODS	A	
*Comments/Special Instructions:			

December 26, 2024

Mr. Kenneth B. Prince, FASLA
Executive Director
City of Mishawaka
Planning and Community Development
100 Lincolnway West
Mishawaka, Indiana 46544
Electronic Mail: kprince@mishawaka.in.gov



**Re: Asbestos Building Inspection Report
Former Dodge Manufacturing Company / Former RMG Foundry Facility
Power House Building
500 South Union Street in Mishawaka, Indiana
Heartland Project #5306-24-01**

Dear Mr. Prince:

Heartland Environmental Associates, Inc. (Heartland) is pleased to provide the City of Mishawaka (City) with this asbestos building inspection report for the above referenced former industrial facility in Mishawaka, Indiana. This asbestos building inspection was conducted to evaluate for the presence and/or absence of asbestos containing materials (ACMs) at the subject site and was conducted as part of pre-demolition project planning.

Note that, based on information provided to Heartland, it is understood that the site building subject to this inspection will be subject to demolition; therefore, this inspection was conducted utilizing partially “destructive” sampling methods. However, due to the nature of the site building and the unknown nature of utility infrastructure associate with the site building, the manner of inspection did not damage and/or interfere with any utility chases; therefore, some areas of the site building (e.g., areas behind concrete walls or utility chases) were not fully accessed during this inspection so as to not damage these components. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants.

Further note that this inspection constitutes an inspection of only the Power House Building portion of the facility campus. The main former foundry / manufacturing building located on the campus was also inspected in concert with this inspection. The results of the inspection of the main foundry building are provided under separate cover to this report.

BUILDING INSPECTION

Asbestos Building Inspection

On December 9 and December 10, 2024, Mr. Ryan M. Orzechowicz, Senior Project Geologist, and Mr. Nivas R. Vijay, Senior Project Manager with Heartland, completed the inspection of the site building. Both Mr. Orzechowicz and Mr. Vijay are accredited asbestos building inspectors in the

State of Indiana. A copy of both Mr. Orzechowicz's and Mr. Vijay's certificate of asbestos accreditation has been provided for review in Attachment A. Photographs taken of the property during the time of the inspection are provided in Attachment B.

The site building subject to this inspection was detached from the main former foundry / manufacturing facility and was located on the western portion of the facility campus. This building consisted of a single-story building encompassing approximately 14,973-square feet and constructed of steel and wood frame on concrete foundation with a partial basement area. The exterior walls were finished with a combination of brick and metal panel, and the building's interior was segregated with brick and concrete block. The roofing consisted of built-up asphalt roofing materials overtop wood and metal decking.

The southern portion of the building was minimally improved, typical to that of a boiler / maintenance building. This portion of the building contained several catwalks to access boilers that were staged on elevated platforms. A tunnel system exited this portion of the building and ran south then east into the main site building.

The northern portion of the building contained offices and storage spaces that were segregated with wood frame and concrete block walls. The northern portion of the building contained a mezzanine storage area/room. This portion of the building was in a state of disrepair during the time of this inspection.

Based on Heartland's visual assessment of the property, several types of building materials were considered non-suspect ACMs and therefore were not sampled. These materials included, but were not limited to: concrete floors, brick and block, glass, metal fixtures, wood and plywood materials and fiberglass insulation.

Heartland identified twenty-two (22) homogeneous areas of suspect ACMs within the building. Homogeneous areas identified included five (5) types of acoustical ceiling tile, four (4) types of resilient vinyl flooring materials and associated mastics, one (1) type of sheetrock, one (1) type of plaster material, two (2) types of boiler gasket materials, two (2) types of thermal systems insulation (TSI) mudded joint, one (1) type of insulation (boxed debris), one (1) type of window glazing, one (1) type of transite wallboard material, three (3) types of asphalt roofing materials and one (1) type of roof flashing material. Two (2) types of material, boiler jacketing on a boiler in the mezzanine portion of the site building and TSI on 12"-diameter horizontal and vertical pipe chases in the southern portion of the site building, were identified as presumed asbestos containing materials (PACMs) and not subject to sampling.

The suspect materials were assessed based on condition of the material and friability (the ability to be crumbled or turned to dust by hand pressure). Heartland utilized disposable nitrile gloves while obtaining samples. The samples were then placed into pre-labeled sealable bags. A total of fifty (50) bulk samples from the twenty-two (22) homogeneous areas were collected for laboratory analysis.

Following collection of the samples, Heartland transported the samples under Heartland chain of custody to EMSL Analytical, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, in Indianapolis, Indiana. The suspect ACM materials sampled were submitted for Polarized Light Microscopy (PLM) analysis, with the laboratory estimating the percent asbestos by visual inspection. Materials defined as ACM are those that contain greater than

1% asbestos. Materials that are not friable and contain less than 1% asbestos are not considered to be ACM.

SAMPLE RESULTS

Based on the laboratory analytical results, two (2) types of resilient vinyl flooring materials and associated mastics, along with one (1) type of flooring mastic material, were identified as asbestos containing. Additionally, TSI mud joints in the tunnel of the site building, along with the transite wallboard paneling and asphalt roof flashing materials were identified as asbestos containing.

Note that one (1) type of materials, rolled asphalt roofing tar on the roof of the site building, was determined to contain <1% asbestos. As these materials are considered non-friable materials, these materials are, per definition, non-asbestos containing.

None of the remaining sampled suspect materials were determined to contain asbestos. As stated above, two (2) types of material, boiler jacketing on a boiler in the mezzanine portion of the site building and TSI on 12”-diameter horizontal and vertical pipe chases in the southern portion of the site building, were identified as PACMs and not subject to sampling.

Laboratory analytical results are provided as Attachment C. A summary of sampled materials is provided in Table 1 below.

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry – Power House Building 500 South Union Street in Mishawaka, Indiana December 9 and December 10, 2024					
Material/Location	Friable	Category	Asbestos Content	Area (ft ²) *	Sample #
Floor Tile / Mastic – 9” x 9” light grayish beige w/dark brown streaks, northern portion of site building	No	I	2% Chrysotile (Tile) 2% Chrysotile (Mastic)	~1,350	FT – 1 (A-C)
Floor Tile / Mastic – yellow and green pattern vinyl sheet, northern office	No	I	2% Chrysotile (Tile) 4% Chrysotile (Mastic)	~40	FT – 2 (A)
Floor Tile / Mastic – 12” x 12” greenish brown squiggle and marble pattern, northern office hallways	No	I	ND (Tile) 3% Chrysotile (Mastic)	~30	FT – 3 (A)
Floor Tile / Mastic – 12” x 12” brown w/beige and green squiggle and marble pattern, northern office hallways	No	I	ND	~450	FT – 4 (A-C)
Ceiling Tiles – 2’ x 2’ white w/squiggles, northern offices	Yes	RACM	ND	~250	CT – 1 (A-C)
Ceiling Tiles – 2’ x 4’ white ridged pattern w/squiggles and buckshot, northern offices	Yes	RACM	ND	~825	CT – 2 (A-C)

<p align="center">Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry – Power House Building 500 South Union Street in Mishawaka, Indiana December 9 and December 10, 2024</p>					
Material/Location	Friable	Category	Asbestos Content	Area (ft²) *	Sample #
Ceiling Tiles – 2’ x 4’ white w/squiggles and buckshot, northern offices	Yes	RACM	ND	~200	CT – 3 (A-C)
Ceiling Tiles – 2’ x 4’ white w/squiggles and gouges, northern offices	Yes	RACM	ND	~350	CT – 4 (A-C)
Ceiling Tiles – 2’ x 4’ white ridged pattern w/squiggles and seams, northern offices	Yes	RACM	ND	~400	CT – 5 (A-C)
Sheetrock – interior walls, northern portion of the site building	Yes	RACM	ND	~1,800	DW – 1 (A-C)
Plaster (Base + Skim Coat), behind drywall, northern portion of the site building	Yes	RACM	ND	~1,200	PL – 1 (A-C)
Insulation – boxed material debris on ground floor in the southern portion of the site building	Yes	RACM	ND	-	INS – 1 (A-C)
Gasket – Brick Boiler, ground floor, southern portion of the site building	No	I	ND	~15	GS – 1 (A)
Gasket – Mezzanine Boiler, southern portion of the site building	No	I	ND	~10	GS – 2 (A)
Transite Wallboard Material – wall panel near mezzanine, southern portion of the site building	No	II	20% Chrysotile	~100	TS – 1 (A)
TSI Pipe Wrap – 12”-diameter horizontal and vertical pipe chases, mezzanine, southern portion of the site building	Yes	RACM	PACM	~90 - 145 LF	-
Boiler Jacket Material – Clad on 5,000-gallon boiler in mezzanine, southern portion of the site building	Yes	RACM	PACM	~600	-
TSI Mud Joints, Tunnel (8” – 12” Diameter)	Yes	RACM	20% Chrysotile	~8 – 12 Joints	MJ – 1 (A)
TSI Mud Joints, Upper Mezzanine Area on Repaired Piping, southern portion of the site building	Yes	RACM	ND	~6 – 10 Joints	MJ – 2 (A)
Window Glazing – Interior Accent Windows	No	II	ND	~600	WG – 1 (A-C)
Rubberized Asphalt Roofing Materials – Rooftop	No	I	ND	~6,000	RF – 1 (A-C)

Table 1 Summary of Sampled Building Materials Former Dodge Manufacturing Company / Former RMG Foundry – Power House Building 500 South Union Street in Mishawaka, Indiana December 9 and December 10, 2024					
Material/Location	Friable	Category	Asbestos Content	Area (ft ²) *	Sample #
Rolled Asphalt Roofing	No	I	ND (Shingles) <1% Chrysotile (Tar)	~6,000	RF – 2 (A-C)
Asphalt Roofing Shingles	No	I	ND	~3,000	RF – 3 (A-C)
Asphalt Roof Flashing	No	I	2% Chrysotile	~1,400	FL – 1 (A-C)
Friable: Yes – hand friable, No – non-friable PACM: Presumed Asbestos Containing Materials RACM: Regulated Asbestos Containing Materials ND: No asbestos detected *Footage estimates determined from site reconnaissance and measurement obtained during site reconnaissance					

RECOMMENDATIONS

Based on the results of this asbestos building inspection, two (2) types of resilient vinyl flooring materials and associated mastics, along with one (1) type of flooring mastic material, were identified as asbestos containing. Additionally, TSI mud joints in the tunnel of the site building, along with transite wallboard paneling and asphalt roof flashing materials were identified as asbestos containing.

Note that one (1) type of materials, rolled asphalt roofing tar on the roof of the site building, was determined to contain <1% asbestos. As these materials are considered non-friable materials, these materials are, per definition, non-asbestos containing.

Additionally, two (2) types of material, boiler jacketing on a boiler in the mezzanine portion of the site building and TSI on 12”-diameter horizontal and vertical pipe chases in the southern portion of the site building, were identified as PACMs and not subject to sampling.

TSI pipe wrapping, boiler jacketing and TSI mud joints are considered friable ACMs and are therefore regulated asbestos containing materials (RACMs). Abatement of these materials will be required prior to any future planned demolition of the site building. The transite wallboard materials, the resilient vinyl flooring materials and associated mastics and the roof flashing materials are considered non-friable ACMs and are therefore not regulated.

It is the understanding of Heartland that the building will be subject to demolition, meeting the definition of renovation and demolition, in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for the State of Indiana. RACMs were identified in quantities (260 linear feet/160 square feet/35 cubic feet) greater than the written notification requirements specified in Indiana Administrative Code (326 IAC 14-10). **Therefore, written notification to the IDEM will be required pertaining to asbestos related demolition actions at this property, as RACMs were encountered at the site exceeding written notification requirements. Abatement**

of these materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned demolition activities.

In general, the RACMs were encountered in fair to poor condition, with several sections of TSI pipe wrap and pipe fittings encountered either intact or slightly damaged. However, significant amounts of TSI were observed to be damaged or significantly damaged. Potential exposure to damaged and friable RACMs is a concern at this time, and care should be taken to limit entry into the site building until abatement activities can commence.

As non-friable ACMs in the form of resilient vinyl flooring materials and associated mastics and asphalt roof flashing materials encountered are non-friable, these materials are recommended to be removed as part of demolition activities, provided the materials are not subject to sanding, grinding, abrading or any other mechanical operations which may damage the roofing materials and cause them to become friable. The flooring and roofing materials can be disposed of as construction related debris and will not require special abatement.

Although transite wallboard materials are considered non-friable ACMs and are not regulated, these materials will likely become friable RACMs during demolition activities. Therefore, abatement of the transite siding materials will be required to be conducted by an accredited asbestos abatement contractor licensed in the State of Indiana prior to any future planned demolition activities. Proper notification to IDEM will be required prior to the onset of abatement activities of these materials.

Further note that, should non-friable flooring and/or roofing materials be subject to any of the above referenced mechanical processes or any other process which may render the materials friable, then work should be ceased, and the materials should be subject to abatement. Should abatement activities be determined necessary, work completed should be conducted by accredited asbestos abatement contractors licensed in the State of Indiana.

DISCLAIMER

This environmental report was prepared in accordance with generally accepted principles and practices in the environmental consulting field. Conclusions and recommendations expressed herein were developed from site evaluation and limited research, and we are not responsible for unrecorded data pertaining to this site. Heartland makes no warranties, expressed or implied, as to the fitness or merchantability of said property for any particular purpose, and we are not responsible for independent conclusions or opinions made by others based on this report.

Reasonable efforts were made to identify suspect ACMs within the inspected facility. As stated above, based on information provided to Heartland, it is understood that the site building subject to this inspection will be subject to demolition; therefore, this inspection was conducted utilizing partially “destructive” sampling methods. However, due to the nature of the site building and the unknown nature of utility infrastructure associated with the site building, the manner of inspection did not damage and/or interfere with any utility chases; therefore, some areas of the site building (e.g., areas behind concrete walls or utility chases) were not fully accessed during this inspection so as to not damage these components. The manner of the inspection did not compromise the structural integrity of the building or endanger the safety of sampling personnel or other contractors/occupants.

Further note that this inspection constitutes an inspection of only the Power House Building portion of the facility campus. The main former foundry / manufacturing building located on the campus was also inspected in concert with this inspection. The results of the inspection of the main foundry building are provided under separate cover to this report.

If you should have questions regarding this report, please contact Heartland at 574-289-1191.

Sincerely,

A handwritten signature in black ink, appearing to read 'N. Vijay', written over a rectangular box.

Nivas R. Vijay, CHMM
Senior Project Manager / Principal
State of Indiana Asbestos Inspector License #197004016

ATTACHMENT A

ASBESTOS LICENSE DOCUMENTATION



Indiana Dept. of Environmental Management

Ryan M. Orzechowicz

Asbestos Inspector License #: 19A001542

Effective: **04/08/2024**

Expiration: **04/08/2025**

Birth Date: **07/29/1983**

Gender: **M**

Height: **5-09**

Eye Color: **GRN**

Weight: **160**

Hair Color: **BRO**



Indiana Dept. of Environmental Management

Nivas R. Vijayaraghavan

Asbestos Inspector License #: 197004016

Effective: 04/14/2024

Expiration: 04/14/2025

Birth Date: 05/29/1979

Gender: M

Height: 5-08

Eye Color: BRO

Weight: 160

Hair Color: BLK

ATTACHMENT B

SITE PHOTOGRAPHIC RECORD



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of north face of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 1



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of northwest side of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 2



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of west face of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 3



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of east face of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 4



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of south face of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 5



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of interior of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 6



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of interior of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 7



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of interior of office portion of power house building
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 8



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled floor tile (FT-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 9



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled floor tile (FT-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 10



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled floor tile (FT-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 11



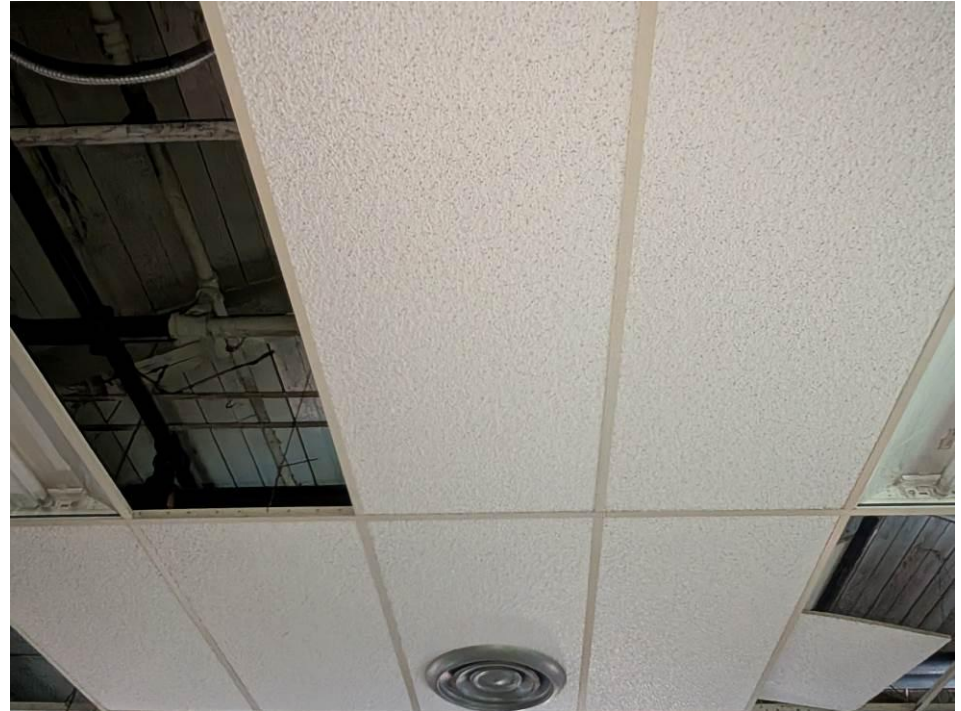
CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 628 Western Avenue in South Bend, Indian
SUBJECT: View of sampled floor tile (FT-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 12



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled ceiling tile (CT-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 13



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled ceiling tile (CT-2)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 14



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled ceiling tile (CT-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 15



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled ceiling tile (CT-4)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 16



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled plaster (PL-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 17



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled drywall (DW-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 18



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled boiler gasket (GS-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 19



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled window glazing (WG-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 20



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled wallboard siding (SD-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 21



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled rolled asphalt roofing (RF-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 22



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024

LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)

SUBJECT: View of sampled rubberized roofing (RF-2)

PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)

PHOTO: 23



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024

LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)

SUBJECT: View of sampled roof flashing (FL-1)

PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)

PHOTO: 24



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled asphalt shingles (RF-3)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 25



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled loose insulation on floor (INS-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 26



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled mudded joint (MJ-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 27



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of sampled TSI pipe wrap (PW-1)
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 28



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 29



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 30



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 31



CLIENT NAME: City of Mishawaka

DATE: December 10, 2024
LOCATION: 500 Union Street in Mishawaka, Indiana (Power House Building)
SUBJECT: View of ACM TSI pipe wrap
PHOTOGRAPHER: Ryan M. Orzechowicz (Heartland)
PHOTO: 32

ATTACHMENT C

LABORATORY ANALYTICAL REPORT



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162421095

Customer ID: HRTL42

Customer PO:

Project ID:

Attention: Nivas Vijay
Heartland Environmental
3410 Mishawaka Ave.
South Bend, IN 46615

Phone: (574) 360-0961

Fax:

Received Date: 12/11/2024 1:08 PM

Analysis Date: 12/12/2024 - 12/13/2024

Collected Date:

Project: FORMER DODGE FOUNDRY, POWER HOUSE BUILDING, MISHAWAKA

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-1A-Floor Tile <small>162421095-0001</small>	FLOOR TILE / MASTIC	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-1A-Mastic <small>162421095-0001A</small>	FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-1B-Floor Tile <small>162421095-0002</small>	FLOOR TILE / MASTIC				Positive Stop (Not Analyzed)
FT-1B-Mastic <small>162421095-0002A</small>	FLOOR TILE / MASTIC				Positive Stop (Not Analyzed)
FT-1C-Floor Tile <small>162421095-0003</small>	FLOOR TILE / MASTIC				Positive Stop (Not Analyzed)
FT-1C-Mastic <small>162421095-0003A</small>	FLOOR TILE / MASTIC				Positive Stop (Not Analyzed)
FT-2A-Floor Tile <small>162421095-0004</small>	FLOOR TILE / MASTIC	Brown/Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
FT-2A-Mastic <small>162421095-0004A</small>	FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
FT-3A-Floor Tile <small>162421095-0005</small>	FLOOR TILE / MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-3A-Mastic <small>162421095-0005A</small>	FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
FT-4A-Floor Tile <small>162421095-0006</small>	FLOOR TILE / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4A-Mastic <small>162421095-0006A</small>	FLOOR TILE / MASTIC	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4B-Floor Tile <small>162421095-0007</small>	FLOOR TILE / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4B-Mastic <small>162421095-0007A</small>	FLOOR TILE / MASTIC	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4C-Floor Tile <small>162421095-0008</small>	FLOOR TILE / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FT-4C-Mastic <small>162421095-0008A</small>	FLOOR TILE / MASTIC	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 01/06/2025 15:23:26



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162421095
Customer ID: HRTL42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CT-1A <small>162421095-0009</small>	CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-1B <small>162421095-0010</small>	CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-1C <small>162421095-0011</small>	CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-2A <small>162421095-0012</small>	CEILING TILE	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-2B <small>162421095-0013</small>	CEILING TILE	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-2C <small>162421095-0014</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3A <small>162421095-0015</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3B <small>162421095-0016</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-3C <small>162421095-0017</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-4A <small>162421095-0018</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-4B <small>162421095-0019</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-4C <small>162421095-0020</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-5A <small>162421095-0021</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-5B <small>162421095-0022</small>	CEILING TILE	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
CT-5C <small>162421095-0023</small>	CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
DW-1A-Drywall <small>162421095-0024</small>	DRYWALL / JOINT COMPOUND	Brown/White Fibrous Heterogeneous	5% Cellulose	90% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1A-Joint Compound <small>162421095-0024A</small>	DRYWALL / JOINT COMPOUND				Layer Not Present
DW-1B-Drywall <small>162421095-0025</small>	DRYWALL / JOINT COMPOUND	Brown/White Fibrous Heterogeneous	2% Cellulose	90% Gypsum 8% Non-fibrous (Other)	None Detected
DW-1B-Joint Compound <small>162421095-0025A</small>	DRYWALL / JOINT COMPOUND				Layer Not Present

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EMSL Order: 162421095
Customer ID: HRTL42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DW-1C-Drywall <small>162421095-0026</small>	DRYWALL / JOINT COMPOUND	White Non-Fibrous Homogeneous		95% Gypsum 5% Non-fibrous (Other)	None Detected
DW-1C-Joint Compound <small>162421095-0026A</small>	DRYWALL / JOINT COMPOUND				Layer Not Present
PL-1A-Skim Coat <small>162421095-0027</small>	PLASTER (BASE + SKIM)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1A-Base Coat <small>162421095-0027A</small>	PLASTER (BASE + SKIM)	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1B-Skim Coat <small>162421095-0028</small>	PLASTER (BASE + SKIM)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1B-Base Coat <small>162421095-0028A</small>	PLASTER (BASE + SKIM)	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
PL-1C-Skim Coat <small>162421095-0029</small>	PLASTER (BASE + SKIM)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PL-1C-Base Coat <small>162421095-0029A</small>	PLASTER (BASE + SKIM)	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
GS-1A <small>162421095-0030</small>	LOWER FLOOR BOILER GASKET	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
GS-2A <small>162421095-0031</small>	UPPER LEVEL BOILER GASKET	Brown/Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
MJ-1A <small>162421095-0032</small>	TUNNEL MUD JOINT	Brown/Gray Fibrous Homogeneous	10% Cellulose 60% Glass	10% Non-fibrous (Other)	20% Chrysotile
MJ-2A <small>162421095-0033</small>	12" UPPER LEVEL MUD JOINT	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
WG-1A <small>162421095-0034</small>	WINDOW GLAZING	Gray/Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WG-1B <small>162421095-0035</small>	WINDOW GLAZING	Gray/Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WG-1C <small>162421095-0036</small>	WINDOW GLAZING	Gray/Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
TS-1A <small>162421095-0037</small>	TRANSITE WALLBOARD PANEL	Brown/Gray/Black Fibrous Homogeneous	10% Cellulose	70% Non-fibrous (Other)	20% Chrysotile
RF-1A <small>162421095-0038</small>	RUBBERIZED ROOFING	Black Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
RF-1B <small>162421095-0039</small>	RUBBERIZED ROOFING	Black Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
RF-1C <small>162421095-0040</small>	RUBBERIZED ROOFING	Black Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected

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**Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E
Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RF-2A-Shingle <small>162421095-0041</small>	ROLLED ASPHALT ROOFING	Tan/White/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
RF-2A-Tar <small>162421095-0041A</small>	ROLLED ASPHALT ROOFING	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
RF-2B-Roof Shingle <small>162421095-0042</small>	ROLLED ASPHALT ROOFING	Tan/White/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
RF-2B-Tar <small>162421095-0042A</small>	ROLLED ASPHALT ROOFING	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
RF-2C-Shingle <small>162421095-0043</small>	ROLLED ASPHALT ROOFING	Tan/White/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
RF-2C-Tar <small>162421095-0043A</small>	ROLLED ASPHALT ROOFING	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
RF-3A <small>162421095-0044</small>	ASPHALT ROOFING SHINGLES	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
RF-3B <small>162421095-0045</small>	ASPHALT ROOFING SHINGLES	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
RF-3C <small>162421095-0046</small>	ASPHALT ROOFING SHINGLES	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
FL-1A <small>162421095-0047</small>	FLASHING	Brown/Black/Silver Fibrous Homogeneous	20% Cellulose	78% Non-fibrous (Other)	2% Chrysotile
FL-1B <small>162421095-0048</small>	FLASHING	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
FL-1C <small>162421095-0049</small>	FLASHING	Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
INS-1A <small>162421095-0050</small>	BOXED INSULATION MATERIAL	Gray Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected

Analyst(s)
Maggie Hayden (16)
Sean O'Donnell (44)

Asbestos Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262, A2LA Accredited - Certificate #2845.25

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Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

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EMSL ANALYTICAL, INC.
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162421095

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information and Billing Information section containing fields for Customer ID, Company Name, Contact Name, Street Address, City, State, Zip, Country, Phone, and Email(s) for Report and Billing.

Project Information section containing Project Name/No., Purchase Order, and State of Connecticut (CT) selection options.

EMSL LIMS Project ID, US State where samples collected (Indiana), and Sampled By Name/Signature fields.

Turn-Around-Time (TAT) section with checkboxes for 3 Hour, 4-4.5 Hour, 6 Hour, 24 Hour, 32 Hour, 48 Hour, 72 Hour, 96 Hour, 1 Week, and 2 Week.

Test Selection section including PCM Air, PLM - Bulk, TEM - Air, TEM - Bulk, TEM - Settled Dust, and Soil - Rock - Vermiculite options.

Filter Pore Size (Air Samples) section with checkboxes for 0.8um and 0.45um.

Table with 4 columns: Sample Number, Sample Location / Description, Volume, Area or Homogeneous Area, and Date / Time Sampled. Contains 12 rows of sample data.

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) section.

Method of Shipment, Sample Condition Upon Receipt, and Relinquished by/Date/Time fields with handwritten signatures and dates.

Controlled Document - COC-05 Asbestos R16 10/28/2021
AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)
EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety.

