To All Interested Bidders:

The City of Duluth is requesting quotes for demolition of a structure located at 121 E. 4th St, Duluth, MN and 319 N 28th Ave. West, Duluth, MN. Due to the estimated dollar value of this procurement, formal sealed bids are not required. This project is subsidized by HUD Community Block Development Grant funds and additional terms and conditions apply which are included in this solicitation. Awarded bidders must hold an active registration in SAM.gov. You may register here https://sam.gov/content/home. Due to the volume of requests for registration it can take over two weeks to get an active SAM.gov ID.

Not less than the minimum salaries and prevailing wages as set forth in the attached documents must be paid on this project. The awarded contractor will be required to provide proof of insurance meeting the city's requirements prior to commencement of work. If the cost of the project is over $25K, the contractor will be required to sign the city standard construction contract and a declaration of non-collusion, affirmative action/EEO, and submit performance and payment bonds. In addition, if the cost exceeds $50K, a Responsible Contractor Form must be submitted WITH the quote. All of these documents can be reviewed on the city purchasing website at https://www.duluthmn.gov/purchasing/forms/

A copy of the demolition specifications and site-specific requirements, applicable prevailing wage decision, City of Duluth General Bid Specifications, Non-Collusion, responsible contractor and the HazMat Report for the site are attached.

A copy of the state license for the abatement contractor must be submitted with your quote.

Please contact Brett Crecelius at 218-730-5301 with any site-specific questions. General questions on the RFQ process should be sent to purchasing@duluthmn.gov

Please submit your quote via email, mail or in person **no later than 2:00 PM local time Wednesday August 10, 2022**, with your total lump sum price to furnish all labor, material, abatement profit, and equipment to perform all services and work required to wreck and remove the listed buildings in strict accordance with the specifications and with the City of Duluth ordinances pertaining to the moving or wrecking of buildings. Email your quote to purchasing@duluthmn.gov , reference "RFQ 22-99541 – Structure Demolition City of Duluth" in the subject line.

The City reserves the right to waive any informalities or irregularities, and to reject any or all quotes.

CITY OF DULUTH
MINIMUM SPECIFICATIONS FOR DEMOLITION OF CONDEMNED BUILDINGS
121 East 4th Street

GENERAL

The Contractor shall furnish all labor, material and equipment and shall perform all services and work required to wreck and remove the listed buildings in strict accordance with the specifications and with the City of Duluth ordinances pertaining to the moving or wrecking of buildings.

All work shall be performed by mechanics skilled in demolition of all types of structures and shall be subject to approval by the Duluth Construction Services & Inspections Division.

The Contractor will be required to comply with all applicable Federal, State or Local laws, regulations and ordinances and it is expressly understood and agreed that buildings indicated in this bid request may not be moved and re-erected upon some other site but are to be demolished upon and removed from the premises.

Notice shall be given to the Construction Services & Inspections Division prior to the start of demolition.

BUILDING REMOVAL AND FILLING EXCAVATIONS

In addition to wrecking and removing the building(s) the Contractor shall completely remove all exterior and interior foundation walls, columns, piers, footings, beams, floor slabs and other projections. All building service piping, heating equipment and systems, other fixtures, furniture, partitions, steps, rubbish or other debris shall be removed from the premises. All combustible debris shall be removed from the premises. Concrete stairs and walks shall be removed from the premises and those areas graded.

Excavations shall be filled to grade and backfill will have less than 7% passing #200 sieve. Fill shall be free of foreign materials (rubbish, debris, etc.), frozen clumps, aggregate larger than 3 inches, rock, concrete or bituminous chunks or other unsuitable materials that may prevent thorough compaction or increase the risk of settlement. The city Building Official shall have final say on what material is suitable. The city will work to coordinate and hire a third party engineer to test for compaction to 95% standard proctor density to confirm proper compaction has been achieved for future residential home construction on this site. The site shall be contoured to match adjacent existing grades on all four sides. Grading shall be completed to ensure that water drains towards the city storm system and does not drain toward existing adjacent structures. Following backfill, all areas shall be seeded and mulched.

UTILITY SERVICE

Any sewer, water and gas services cut off shall be the responsibility of the demolition contractor/subcontractor in accordance with the regulations of the city of Duluth. The Contractor shall be responsible for contacting City Engineering directly prior to bidding to confirm the available information concerning water, sewer and gas cut offs and including all costs in their bid. No additional payments will be made for unknown conditions regarding water, gas and sanitary sewer cut offs. Strict adherence to the City of Duluth Engineering Guidelines and the City Standard Specifications for cutting off and/or plugging of water, gas and sewer services shall be required. Any old unused water wells within the property shall be abandoned in accordance with Department of Health regulations. Telephone and electric service shall be terminated under the supervision of the utility company owning the service.

Before commencing any demolition work, contractor shall verify that all utility services have been shut off. Contractor shall disconnect all water and sewer services at the main unless City Engineering has issued specific

121 East 4th St

written permission to shut water off at the curb. All sanitary sewer laterals shall be abandoned at the main unless written permission is granted from the Chief Engineer of Utilities. Contractor shall coordinate gas service disconnection with City Engineering and provide excavation for City crews to cut and cap live gas lines. The Contractor shall coordinate phone, cable and electrical service disconnection with the company owning the utility. Engineering approval of utility cut offs shall be submitted with invoices.

- Gas: Contractor to expose the connection of the service and main, city will cut off in contractor excavation.
- Water: Water to be cut-off at the shut-off box. Contractor will expose the service at the shut-off location, and city will disconnect and cap.
- Sewer: Sewer will need to be disconnected/capped at the main. Contact City of Duluth Engineering to confirm sewer main location.

PERMITS

The contractor is responsible for obtaining all required permits, including but not limited to wrecking, obstruction, and excavation permits as applicable.

DISPOSAL OF SOLID WASTE

All disposal waste materials must be disposed of at a site approved by the MPCA and WLSSD.

REMOVAL AND SALVAGE OF EXISTING BUILDINGS

1. At the time the Contractor moves onto the demolition site to begin demolition, he shall have a right of salvage to all materials that exist because of the demolition of the structure under the Contract, subject to all the provisions of the contract and the following:
    a. Contractor shall notify the Construction Services & Inspections Division if he finds on the site:
        i. Personal property which is obviously of considerably more value than salvage value.
        ii. Personal property which he knows or has reason to believe belongs to a third party.
        iii. Motor vehicles.
    b. Only such property may be salvaged by the Contractor as is owned by the owner and in the event of any doubt respecting the ownership of any particular property, the Contractor shall request from the landowner a written statement respecting its ownership.
    c. Personal property of the third persons or occupants of buildings on the site shall not become the property of the Contractor.
    d. Any salvage workers authorized by the Contractor to be on the property shall be considered as subcontractors for indemnification purposes.

2. Unless otherwise specified, no dwelling structure shall be removed from the premises as a whole, or in substantially whole condition, but all such buildings shall be demolished on the premises.

TREES, SHRUBBERY, SOD

No trees on the property shall be removed without permission. Care shall be exercised that all trees, shrubbery and sod on adjoining property will not be damaged. See Appendix A for site specific instructions for trees.

121 East 4th St

LICENSES AND PERMITS

All expense and cost of permits arising from or in conjuncture with the performance or the provision of these specifications shall be borne by the contractor. The contractor shall obtain an erosion control permit prior to any site disturbance. The Contractor shall possess or obtain all required permits and licenses and pay the prescribed fees prior to commencing work.

SAFETY AND CLEANUP

The structure shall be demolished upon the site. All combustibles and scrap material shall be removed by the Contractor.

Under no circumstances shall dust and debris be allowed to blow or scatter from the area as a result of the demolition operation. If necessary, the Contractor will be required to maintain a source of water to dampen and water down the structure as the demolition operation proceeds.

Contractor shall maintain erosion control measures in accordance with the erosion control permit and shall stabilize the site upon completion using sod, seed and mulch, or other method approved by the city of Duluth.

Damage to sidewalks, curb and gutter, street paving and utility structures shall be avoided on or adjoining the site. Any damage caused by the operations shall be repaired at the expense of the Contractor.

INSURANCE

Contractor shall provide Public Liability and Automobile Liability Insurance with limits not less than **$1,500,000** Single Limit, and twice the limit provided when a claim arises out of release or threatened release of a hazardous substance; shall be with a company approved by the City of Duluth; shall provide for the following; Liability for Premises, Operations, Completed Operations; Independent Contractors and Contractual Liability.

City of Duluth shall be named as Additional Insured under Public liability, *Excess/Umbrella Liability, and Automobile Liability, or as an alternate, Contractor may provide Owners-Contractor Protective policy, naming itself and the City of Duluth. Contractor shall also provide evidence of Statutory Minnesota Workman's compensation Insurance. Contractor to provide Certificate of Insurance evidencing such coverage with 30-days notice of cancellation non-renewal or material change provisions included. The City of Duluth does not represent or guarantee that these types or limits or coverage are adequate to protect the Contractor's interests and liabilities. If a Certificate of Insurance is provided, the form of the certificate shall contain an unconditional requirement that the insurer must notify the City without fail not less than 30 days prior to any cancellation, non-renewal or modification of policy or coverage's evidence by said certificate and shall further provide that failure to give such notice to the City will render any such change or changes in said policy or coverage ineffective as against the City.

*An umbrella policy with a "following form" provision is acceptable if written verification is provided that the underlying policy names the City of Duluth as an additional insured.

RIGHT OF THE CITY TO DO THE WORK

If the successful bidder should neglect to prosecute the work properly or fail to perform any provision of the contract, the city, after three days' written notice to the successful bidder, may without prejudice to any other remedy the city may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the successful bidder.

INVOICING

121 East 4th St

Invoices shall be itemized by address, include a description of tasks completed and dates of completion, itemization with hourly rate X hours, invoice total and the vendor name. Lump sum invoices and % of contract invoices are not acceptable. All work must be observed and approved by City prior to payment.

HAZARDOUS MATERIALS and WASTE

Hazardous Material Inspection Report has been completed and should be referenced when determining abatement scope of work. TCLP samples detected lead exceeding regulatory levels and proper disposal is required.

MPCA NOTITIFICATION OF INTENT TO PERFORM DEMOLITION

Contractor must properly complete this form and any/all other documents required by City, State, and federal regulations and forward as required. Copies of all forms shall also be forwarded to the City of Duluth Construction Services & Inspections Division office.

GOPHER STATE ONE-CALL

Contractor **SHALL** call 800-262-1166 and comply with all Gopher State One-Call requirements.

SAM.GOV REGISTRATION

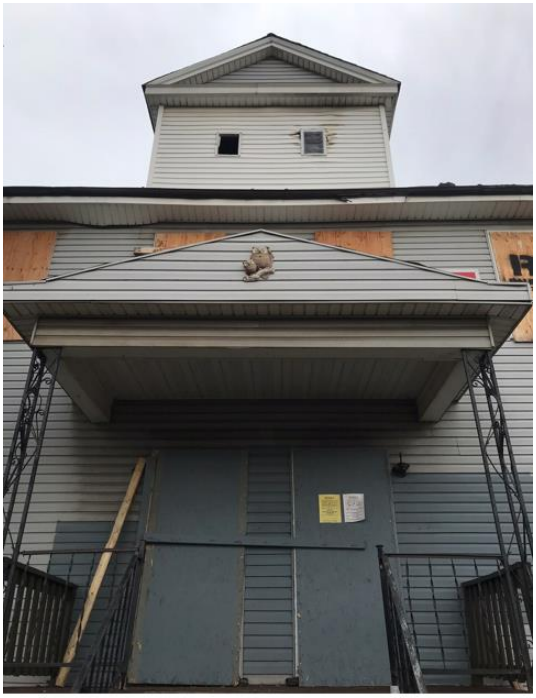
Contractor shall provide SAM.gov registration number or DUNS number to the City of Duluth prior to demolition work commencing.

Pre-Demolition Hazardous Building Materials Inspection Report

Residential Structure
119-121 East 4th Street
Duluth, Minnesota

Prepared for

City of Duluth



Project B2203724
June 7, 2022

Braun Intertec Corporation

BRAUN INTERTEC
The Science You Build On.

121 East 4th St

Braun Intertec Corporation
4511 West First Street, Suite 4
Duluth, MN 55807

Phone: 218.624.4967
Fax: 218.624.0196
Web: braunintertec.com

June 7, 2022 Project B2203724

Mr. Brett Crecelius
City of Duluth – Planning & Economic Development
411 West 1st Street
Duluth, MN 55802

Re: Pre-Demolition Hazardous Building Materials Inspection
Residential Property
119-121 East 4th Street
Duluth, Minnesota

Dear Mr. Crecelius:

The enclosed report provides the results of the pre-demolition hazardous building materials inspection conducted on May 12, 2022, of the residential building located at 119-121 East 4th Street in Duluth, Minnesota (site). Braun Intertec Corporation was authorized to conduct this inspection in accordance with our Proposal QTB157379 dated April 21, 2022, and the Braun Intertec General Conditions.

The following outline provides the structure of the report.

- Scope of Services
- Site Description
- Results
- Discussion
- Limitations

If you have any questions or need further assistance, please call Samantha Schmidt at 701.318.0657.

Sincerely,

BRAUN INTERTEC CORPORATION

Scott Budahn
Field Scientist

Robert E. Nordby
Group Manager, Senior Scientist

Attachments:
Pre-Demolition Hazardous Building Materials Inspection Report

Table of Contents

Description **Page**

Appendices

A. Scope of Services

The scope of our services was limited to:

- Visually examine accessible areas and identify locations of suspect asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), mercury, and other miscellaneous hazardous material.
- Collect and analyze representative bulk samples of materials suspected of containing asbestos.
- Conduct limited LBP testing of potential re-useable components with painted surfaces suspected of containing lead (where applicable). Testing was not conducted as re-useable painted concrete was not identified.
- Collect a sample burned/cinder materials for analytical testing of Toxicity Characteristic Leaching Procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals for landfill disposal purposes.
- Assign a hazard rating based on asbestos content with respect to the materials condition, friability, accessibility, and hazard potential.
- Document the various materials' current conditions and estimated ACM quantities based on visual observations.
- Generate a final report documenting the sample locations, analysis results, conditions, estimated ACM quantities and recommendations.

B. Site Description

The subject of the inspection is the residential building located at 119-121 East 4th Street in Duluth, Minnesota. The residential structure is a two-level wood structure with a basement. It was constructed in 1906 and encompasses approximately 1,600 square feet. The structure is constructed of wood, and a stone and mortar foundation walls. The typical interior finishes included plaster, sheetrock/joint compound, floor tile, and vinyl flooring. The exterior of the structure consists of vinyl siding with an asphalt roof shingle roof system. The building was vacant and unoccupied at the time of the inspection.

The building has been subject to multiple structure fires since at least 2016. Due to extensive fire damage and resulting safety restrictions, not all interior portions of the structure were accessible during this inspection.

C. Results

C.1. Asbestos

Nineteen (19) bulk samples were collected from eleven (11) homogenous materials on May 12, 2022, and submitted to EMSL Analytical, Inc., a microscopy laboratory that is fully accredited for bulk analysis.

C.1.a. Asbestos-Containing Materials

The following is a summary of building materials found or assumed to contain greater than one percent asbestos (ACM by regulatory definition):

- **No ACM was detected in the samples tested as part of this inspection**.

C.1.b. Non-Asbestos-Containing Materials

The following is a summary of building materials found to contain no asbestos or materials that contain one percent or less asbestos (non-ACM by regulatory definition):

- Asphalt Roofing, Shingles
- Attic Insulation, Grey
- Ceiling Texturing
- House Wrap, Black
- Peel and Stick Flooring
- Plaster
- Sheet Flooring, Tan
- Sheetrock/Joint Compound
- Shower Panel Adhesive, Tan
- Stone And Mortar Foundation
- Wall Adhesive, Brown

Refer to Table I in Appendix A, which lists individual functional spaces of the building, the suspect materials identified in that functional space, whether the suspect material was identified by analysis to be ACM, an estimated amount of each suspect material for the functional space, material conditions,

assessment categories, and hazard ratings based on subjective observations made by our representatives.

Refer to Table II in Appendix B, which lists the homogenous material sample numbers, sample locations, suspect material descriptions, and the analysis results for each sample. This table summarizes the results from the Bulk Asbestos Laboratory Report, which is attached in Appendix D.

Bulk asbestos analysis was conducted in accordance with U.S. Environmental Protection Agency (U.S. EPA) Method 40 CFR, Chapter 1, Part 763, Subpart F, and Appendix A (7/1/87 Edition).

C.2. Lead-Based Paint

No potential re-usable "painted" surfaces were observed at the time of the inspection; therefore, no LBP testing was conducted. According to the Minnesota Pollution Control Agency (MPCA) Rules, LBP testing is not required for demolition debris disposal.

C.3. Miscellaneous Regulated Waste

A visual inspection for miscellaneous regulated waste materials that require separate handling and disposal prior to disturbance during building demolition was also performed as part of this assessment. The following is a list of items documented at the Site:

C.3.a. Polychlorinated Biphenyls

- Light ballasts

C.3.b. Mercury

- Batteries – smoke detectors
- Electrical Systems – electrical panels, control switches
- Heating – unit heater controls, thermostats
- Lighting – fluorescent lamps

C.3.c. Chlorofluorocarbons and Hydrochlorofluorocarbons

- Refrigerants – Heating Ventilation Air Conditioning (HVAC) units, air-conditioning units

C.3.d. Hazardous Waste

- Chemicals – paint cans

C.3.e. Miscellaneous

- Aerosol spray cans
- Air conditioner
- Electronic equipment
- Microwave ovens
- Computers, monitors, TV's
- Refrigerators/freezers
- Water heater
- Miscellaneous cleaning supplies

One sample of the burned/cinder material was collected for disposal characterization purposes, and analyzed for TCLP RCRA metals using United States Environmental Protection Agency (EPA) Methods 6010D and 7470A. The TCLP method is used to evaluate leaching potential.

Results of the TCLP analysis is presented in Table III, which is included as Appendix C. Table III also lists respective hazardous waste regulatory levels. TCLP results are expressed in units of milligrams per liter (mg/L). The following provides a summary of the soil analytical results.

- **Lead was detected at a concentration of 71.20 mg/L, which exceeds its respective regulatory level of 5.0 mg/L.**

No other RCRA metals were detected at concentrations greater than or equal to laboratory reporting limits.

D. Discussion

D.1. Lead-Based Paint

According to the MPCA Rules, LBP testing is not required for demolition debris disposal. However, painted building components from structures built before 1978 may not be recycled or used as fill or aggregate without obtaining a case-specific beneficial reuse determination from the MPCA. Any potential LBP-containing demolition waste and/or debris generated during building demolition should be subject to proper handling and disposal, consistent with applicable regulations and requirements.

D.2. Miscellaneous Regulated Waste

In the case of building renovation/demolition, any of the miscellaneous regulated waste items listed in Section C.3 that will be disturbed, must be removed prior to disturbance, and must be recycled or disposed of in accordance with state and federal guidelines.

Lead was detected above its respective hazardous waste regulatory level within the sample of the burned/cinder material collected from the site. The burned/cinder material must be disposed of at a facility licensed to accept this type of hazardous waste.

E. Limitations

In any building, the potential exists for hazardous building materials to be located inside walls, above ceilings, under floors, and other inaccessible areas. Destructive investigation was performed in an attempt to locate hazardous materials in inaccessible areas of the building. However, it was not feasible to inspect 100 percent of these areas. Also, the potential exists for hazardous materials to be found outside the building buried underground. Braun Intertec cannot be held responsible for the presence of any such hidden materials. In the case of building demolition, contractors involved in the project should be made aware of this potential. If previously unidentified suspect hazardous building materials are exposed during their activities, they should be sampled and analyzed for content prior to any disturbance.

Please note that due to severe fire damage impacting the structural integrity, portions of the interior of the building were deemed unsafe, and therefore not accessible for inspection. For the purpose of this report, suspect ACM not sampled as part of this assessment on the building interior should be assumed to contain asbestos until proven otherwise by sampling and analysis.

Braun Intertec will not be liable for any past, existing, or future damage to the roofing systems, the building structures, or the contents of the building.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

F. Inspector Certification

I, the undersigned, do hereby certify that I am an accredited Asbestos Inspector in the State of Minnesota. A photocopy of my current asbestos inspector certificate is attached in Appendix F.

Signature: _____ Date: June 7, 2022

Scott Budahn
Field Scientist IV
Minnesota Department of Health Asbestos Inspector No: AI11776

Appendix A

Table I. Asbestos Building Inspection Results

121 East 4th St

BRAUN INTERTEC

The Science You Build On.

Table I. Asbestos Building Inspection Results

Client: City of Duluth, Minnesota
Location: 119-121 East 4th Street; Duluth, Minnesota
Date of Inspection: May 12, 2022
Project: B2203724

Functional Space	Homogeneous Material Description	Contains Asbestos (Yes/No)	Ref. Client Sample No. (See Table II)	Estimated Quantity Units	Material Condition[1]	Hazard Category[2]
Interior of House	Plaster	No	1A-E	Throughout	D	0
Interior of House	Ceiling Texturing	No	2A-E	Throughout	D	0
Interior of House	SR/JC	No	3	Throughout	D	0
Interior of House	Wall Adhesive, Brown	No	4	150 ft.²	D	0
Interior of House	Shower Panel Adhesive, Tan	No	5	100 ft.²	D	0
Interior of House	Sheet Flooring, Tan	No	6	500 ft.²	D	0
Interior of House	Peel N Stick Flooring	No	7	500 ft.²	D	0
Interior of House	Attic Insulation, Grey	No	8	1,000 ft.²	D	0
Exterior of House	Stone And Mortar Foundation	No	9	1,500 ft.²	D	0
Exterior of House	House Wrap Black	No	10	2,000 ft.²	D	0
Exterior of House	Asphalt Roofing Shingles	No	11	2,000 ft.²	D	0

1. Condition of ACM:

ND = Not Damaged

D = Damaged

SD = Significantly Damaged

2. Hazard Category:

0 = No hazard - material does not contain asbestos

1 = ACM with potential for damage

2 = ACM with potential for significant damage

3 = Damaged or significantly damaged asbestos-containing miscellaneous material

4 = Damaged or significantly damaged friable asbestos-containing thermal system insulation

5 = Damaged or significantly damaged friable asbestos-containing surfacing material

Appendix B

Table II. Bulk Asbestos Analytical Results

121 East 4th St

BRAUN INTERTEC
The Science You Build On.

Table II. Bulk Asbestos Analytical Results

Client: City of Duluth, Minnesota
Location: 119-121 East 4th Street; Duluth, Minnesota
Date of Inspection: May 12, 2022
Project: B2203724

Sample No.	Sample Location			Material	Asbestos Content (%)[1]
1A	119-121 E. 4th St.	House	Interior	Plaster	N.D.[2]
1B	119-121 E. 4th St.	House	Interior	Plaster	N.D.
1C	119-121 E. 4th St.	House	Interior	Plaster	N.D.
1D	119-121 E. 4th St.	House	Interior	Plaster	N.D.
1E	119-121 E. 4th St.	House	Interior	Plaster	N.D.
2A	119-121 E. 4th St.	House	Interior	Ceiling Texture	N.D.
2B	119-121 E. 4th St.	House	Interior	Ceiling Texture	N.D.
2C	119-121 E. 4th St.	House	Interior	Ceiling Texture	N.D.
2D	119-121 E. 4th St.	House	Interior	Ceiling Texture	N.D.
2E	119-121 E. 4th St.	House	Interior	Ceiling Texture	N.D.
3	119-121 E. 4th St.	House	Interior	Sheetrock / joint compound	N.D.
4	119-121 E. 4th St.	House	Interior	Wall Adhesive, Brown	N.D.
5	119-121 E. 4th St.	House	Interior	Shower Panel Adhesive, Tan	N.D.
6	119-121 E. 4th St.	House	Interior	Sheet Flooring, Tan	N.D.
7	119-121 E. 4th St.	House	Interior	Peel and Stick Flooring	N.D.
8	119-121 E. 4th St.	House	Interior	Attic Insulation, Grey	N.D.
9	119-121 E. 4th St.	House	Exterior	Stone And Mortar Foundation	N.D.
10	119-121 E. 4th St.	House	Exterior	House Wrap Black	N.D.
11	119-121 E. 4th St.	House	Exterior	Asphalt Roofing Shingles	N.D.

* Materials containing 1 percent of asbestos or less are not considered to be asbestos-containing materials by the U.S.EPA.

1. Asbestos content is indicated as an approximate percent by area.
2. N.D. = None Detected

Appendix C

Table III. TCLP RCRA Metals Results

Table III
TCLP Analytical Results
Residential Structure : 119-121 East 4th Street
Duluth, MN
Project B2101551

Compound/Parameter	EPA Hazardous Waste Number	CAS No.	Sample Identifier and Date Collected	Regulatory Level (mg/L)
			S-1	
			05/12/22	
Toxicity Characteristic Leaching Procedure (TCLP) - Metals (mg/L)				
Arsenic	D004	7440-38-2	<0.400	5.0
Barium	D005	7440-39-3	<1.00	100.0
Cadmium	D006	7440-43-9	<0.0400	1.0
Chromium	D007	7440-47-3	<0.0400	5.0
Lead	D008	7439-92-1	**71.2**	5.0
Mercury	D009	7439-97-6	<0.00200	0.2
Selenium	D010	7782-49-2	<0.200	1.0
Silver	D011	7440-22-4	<0.0400	5.0

Notes

Regulatory Level = Maximum Concentration of Contaminants for the Toxicity Characteristic from 40 CFR 261.24.

mg/L = Milligrams per liter.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

[^+] = Continuing Calibration Verification (CCV) is outside acceptance limits, High biased.

Exceeds Regulatory Level

BRAUN INTERTEC

Appendix D

Bulk Asbestos Analysis Reports

121 East 5th St
EMSL Analytical, Inc.
3410 Winnetka Avenue North New Hope, MN 55427
Tel/Fax: (763) 449-4922 / (763) 449-4924
http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order: 352204361
Customer ID: BRAU50
Customer PO: B2203724
Project ID:

Attention: Scott Budahn
Braun Intertec
11001 Hampshire Avenue South
Bloomington, MN 55438

Project: B2203724

Phone: (952) 995-2000
Fax: (952) 995-2020
Received Date: 05/16/2022 1:00 PM
Analysis Date: 05/19/2022
Collected Date: 05/12/2022

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1A-Paint *352204361-0001*	Interior of House - Plaster	Brown/Red Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1A-Plaster *352204361-0001A*	Interior of House - Plaster	Gray Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
1B-Paint *352204361-0002*	Interior of House - Plaster	Brown/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1B-Plaster *352204361-0002A*	Interior of House - Plaster	Gray Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
1C-Paint *352204361-0003*	Interior of House - Plaster	Brown/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1C-Plaster *352204361-0003A*	Interior of House - Plaster	Gray Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
1D-Paint *352204361-0004*	Interior of House - Plaster	Gray/Red Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1D-Plaster *352204361-0004A*	Interior of House - Plaster	Gray Fibrous Homogeneous	2% Hair	98% Non-fibrous (Other)	None Detected
1E-Paint *352204361-0005*	Interior of House - Plaster	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1E-Plaster *352204361-0005A*	Interior of House - Plaster	Gray Fibrous Homogeneous	3% Hair	97% Non-fibrous (Other)	None Detected
2A *352204361-0006*	Interior of House - Ceiling Texture, popcorn	White/Beige Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
2B *352204361-0007*	Interior of House - Ceiling Texture, popcorn	White/Beige Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
2C *352204361-0008*	Interior of House - Ceiling Texture, popcorn	White/Beige Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
2D *352204361-0009*	Interior of House - Ceiling Texture, popcorn	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2E *352204361-0010*	Interior of House - Ceiling Texture, popcorn	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-Drywall *352204361-0011*	Interior of House - SR/JC	Brown/Beige Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected

Initial report from: 05/20/2022 10:44:29

121 Fawn St
EMSL Analytical, Inc.
3410 Winnetka Avenue North New Hope, MN 55427
Tel/Fax: (763) 449-4922 / (763) 449-4924
http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order:	352204361
Customer ID:	BRAU50
Customer PO:	B2203724
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-Joint Compound *352204361-0011A*	Interior of House - SR/JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4 *352204361-0012*	Interior of House - Wall adhesive, Brown	Brown/Beige Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
5 *352204361-0013*	Interior of House - Shower Panel adhesive, Tan	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6 *352204361-0014*	Interior of House - Sheet flooring, tan	Tan Fibrous Homogeneous	35% Cellulose 10% Glass	55% Non-fibrous (Other)	None Detected
7-Floor Tile *352204361-0015*	Interior of House - Peel n Stick flooring	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-Mastic *352204361-0015A*	Interior of House - Peel n Stick flooring	Clear Non-Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (Other)	None Detected
8 *352204361-0016*	Interior of House - attic insulation, grey	Brown/Tan Fibrous Homogeneous	90% Cellulose 2% Synthetic	8% Non-fibrous (Other)	None Detected
9 *352204361-0017*	Exterior of House - Stone and mortar foundation	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10 *352204361-0018*	Exterior of House - House wrap black	Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
11 *352204361-0019*	Exterior of House - asphalt roofing shingles	White/Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected

Analyst(s)

Catalina Lachowski (16)
Mellany Medina (10)

Rachel Travis, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/20/2022 10:44:29

OrderID: 352204361

121 East 4th St

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 352204361

PHONE:
FAX:

Company Name : Braun Intertec		**EMSL Customer ID:** BRAU50	
Street: 11001 Hampshire Ave. South		**City:** Minneapolis	**State/Province:** MN
Zip/Postal Code: 55438	**Country:** USA	**Telephone #:** 651-895-3968	**Fax #:**
Report To (Name): Scott Budahn		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: Sbudahn@Braunintertec.com		**Purchase Order:**	
Project Name/Number: B220 3724		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: Minnesota		**CT Samples:** ☐ Commercial/Taxable ☐ 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.*

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM EPA 600/R-93/116 with milling prep (<1%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
- ☐

☒ **Check For Positive Stop – Clearly Identify Homogenous Group**

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Scott Budahn

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	See Table II		

Client Sample # (s): 1A-11 - **Total # of Samples:** 19

Relinquished (Client): **Date:** 5/13/22 **Time:** 1145

Received (Lab): **Date:** 5/13/22 **Time:** 1PM

Comments/Special Instructions:

DB

Page 1 of _____ pages

Controlled Document – Asbestos COC – R10 – 05/09/2016

OrderID: 352204361

BRAUN INTERTEC
The Science You Build On.

Table II. Bulk Asbestos Analytical Results

L3361

Client: City of Duluth
Location: 119-121 E. 4th St. Duluth MN
Date of Inspection: 5/12/22
Project: B2203724

Sample No.	Sample Location	Material	Asbestos Content (%)[1]
1A	Interior of House	Plaster	
1B			
1C			
1D			
1E			
2A		Ceiling Texture, popcorn	
2B			
2C			
2D			
2E			
3		SR/K	
4		Wall adhesive, Brown	
5		Shower pan adhesive, tan	
6		Sheet flooring, tan	
7		Pad & Stick flooring	
8		attic insulation, grey	
9	Exterior of House	Stone and mortar foundation	
10		House wrap, Black	
11		asphalt roofing shingles	

Appendix E

TCLP RCRA Metals Analytical Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-231447-1
Laboratory Sample Delivery Group: B2203724
Client Project/Site: City of Duluth HMA

For:
Braun Intertec Corporation
4511 West First Street
Suite 4
Duluth, Minnesota 55807

Attn: Samantha Schmidt

Authorized for release by:
5/24/2022 10:33:59 AM

Zach Bindert, Project Manager I
(319)277-2401
Zach.Bindert@et.eurofinsus.com

Table of Contents

Case Narrative

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Job ID: 310-231447-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-231447-1

Comments
No additional comments.

Receipt
The sample was received on 5/14/2022 10:40 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
Method 6010D: The following sample(s) was diluted due to the presence of an interferent. S-1 (310-231447-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-231447-1	S-1	Solid	05/12/22 10:30	05/14/22 10:40

Detection Summary

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Client Sample ID: S-1 — Lab Sample ID: 310-231447-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	71.2		0.200		mg/L	2		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Client Sample ID: S-1

Date Collected: 05/12/22 10:30
Date Received: 05/14/22 10:40

Lab Sample ID: 310-231447-1

Matrix: Solid

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.400		0.400		mg/L		05/23/22 10:30	05/24/22 10:09	2
Barium	<1.00		1.00		mg/L		05/23/22 10:30	05/24/22 10:09	2
Cadmium	<0.0400		0.0400		mg/L		05/23/22 10:30	05/24/22 10:09	2
Chromium	<0.0400		0.0400		mg/L		05/23/22 10:30	05/24/22 10:09	2
Lead	**71.2**		0.200		mg/L		05/23/22 10:30	05/24/22 10:09	2
Selenium	<0.200		0.200		mg/L		05/23/22 10:30	05/24/22 10:09	2
Silver	<0.0400		0.0400		mg/L		05/23/22 10:30	05/24/22 10:09	2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/19/22 12:58	05/19/22 17:16	1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-353628/1-C
Matrix: Solid
Analysis Batch: 354119

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 353958

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.200		0.200		mg/L		05/23/22 10:30	05/23/22 16:41	1
Barium	<0.500		0.500		mg/L		05/23/22 10:30	05/23/22 16:41	1
Cadmium	<0.0200		0.0200		mg/L		05/23/22 10:30	05/23/22 16:41	1
Chromium	<0.0200		0.0200		mg/L		05/23/22 10:30	05/23/22 16:41	1
Lead	<0.100		0.100		mg/L		05/23/22 10:30	05/23/22 16:41	1
Selenium	<0.100		0.100		mg/L		05/23/22 10:30	05/23/22 16:41	1
Silver	<0.0200		0.0200		mg/L		05/23/22 10:30	05/23/22 16:41	1

Lab Sample ID: LCS 310-353628/2-C
Matrix: Solid
Analysis Batch: 354119

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 353958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	3.847		mg/L		96	80 - 120
Barium	2.00	1.871		mg/L		94	80 - 120
Cadmium	2.00	1.781		mg/L		89	80 - 120
Chromium	2.00	1.868		mg/L		93	80 - 120
Lead	4.00	3.526		mg/L		88	80 - 120
Selenium	8.00	7.687		mg/L		96	80 - 120
Silver	2.00	1.928		mg/L		96	80 - 120

Lab Sample ID: 310-231456-B-1-K MS
Matrix: Solid
Analysis Batch: 354119

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 353958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.200		4.00	4.015		mg/L		100	75 - 125
Barium	1.10		2.00	3.043		mg/L		97	75 - 125
Cadmium	<0.0200		2.00	1.771		mg/L		89	75 - 125
Chromium	<0.0200		2.00	1.914		mg/L		96	75 - 125
Lead	<0.100		4.00	3.579		mg/L		89	75 - 125
Selenium	<0.100		8.00	7.993		mg/L		100	75 - 125
Silver	<0.0200		2.00	2.001		mg/L		100	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-353628/1-B
Matrix: Solid
Analysis Batch: 353734

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 353683

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		05/19/22 12:58	05/19/22 16:52	1

Lab Sample ID: LCS 310-353628/2-B
Matrix: Solid
Analysis Batch: 353734

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 353683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.01867		mg/L		112	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 310-230989-A-1-E MS
Matrix: Solid
Analysis Batch: 353734

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 353683

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00200		0.0167	0.01886		mg/L		113	80 - 120

QC Association Summary

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Metals

Leach Batch: 353628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-231447-1	S-1	TCLP	Solid	1311	
LB 310-353628/1-B	Method Blank	TCLP	Solid	1311	
LB 310-353628/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-353628/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-353628/2-C	Lab Control Sample	TCLP	Solid	1311	
310-230989-A-1-E MS	Matrix Spike	TCLP	Solid	1311	
310-231456-B-1-K MS	Matrix Spike	TCLP	Solid	1311	

Prep Batch: 353683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-231447-1	S-1	TCLP	Solid	7470A	353628
LB 310-353628/1-B	Method Blank	TCLP	Solid	7470A	353628
LCS 310-353628/2-B	Lab Control Sample	TCLP	Solid	7470A	353628
310-230989-A-1-E MS	Matrix Spike	TCLP	Solid	7470A	353628

Analysis Batch: 353734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-231447-1	S-1	TCLP	Solid	7470A	353683
LB 310-353628/1-B	Method Blank	TCLP	Solid	7470A	353683
LCS 310-353628/2-B	Lab Control Sample	TCLP	Solid	7470A	353683
310-230989-A-1-E MS	Matrix Spike	TCLP	Solid	7470A	353683

Prep Batch: 353958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-231447-1	S-1	TCLP	Solid	3010A	353628
LB 310-353628/1-C	Method Blank	TCLP	Solid	3010A	353628
LCS 310-353628/2-C	Lab Control Sample	TCLP	Solid	3010A	353628
310-231456-B-1-K MS	Matrix Spike	TCLP	Solid	3010A	353628

Analysis Batch: 354119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-231447-1	S-1	TCLP	Solid	6010D	353958
LB 310-353628/1-C	Method Blank	TCLP	Solid	6010D	353958
LCS 310-353628/2-C	Lab Control Sample	TCLP	Solid	6010D	353958
310-231456-B-1-K MS	Matrix Spike	TCLP	Solid	6010D	353958

Lab Chronicle

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Client Sample ID: S-1

Date Collected: 05/12/22 10:30
Date Received: 05/14/22 10:40

Lab Sample ID: 310-231447-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			353628	05/18/22 15:20	JTA	TAL CF
TCLP	Prep	3010A			353958	05/23/22 10:30	ACM2	TAL CF
TCLP	Analysis	6010D		2	354119	05/24/22 10:09	CTB	TAL CF
TCLP	Leach	1311			353628	05/18/22 15:20	JTA	TAL CF
TCLP	Prep	7470A			353683	05/19/22 12:58	EAM	TAL CF
TCLP	Analysis	7470A		1	353734	05/19/22 17:16	EAM	TAL CF

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	019-999-319	12-31-22

Method Summary

Client: Braun Intertec Corporation
Project/Site: City of Duluth HMA

Job ID: 310-231447-1
SDG: B2203724

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF
7470A	Preparation, Mercury	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-231447 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Braun

City/State. CITY: Duluth STATE: MN Project:

Receipt Information

Date/Time Received: DATE: 5-14-22 TIME: 1040 Received By: PK

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID.
Multiple Coolers?	☐ Yes	☑ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☑ Yes	☐ No	*If yes:* Cooler custody seals intact? ☑ Yes ☐ No
Sample Custody Seals Present? No	☐ Yes	☑ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☑ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: C Correction Factor (°C): C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.8 Corrected Temp (°C): 1.8

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613
phone 319 277 2401 fax 319.277.2425

Chain of Custody Record

eurofins Environment Testing America

Eurofins Minneapolis SC
213

121 East 4th St

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Samantha Schmidt		COC No 1
Braun Intertec - Duluth	Email saschmidt@braunintertec.com	Site Contact: Samantha Schmidt Date: 5.12.22	___1___ of ___1___ COCs
4511 West 1st Street, Ste 4	Tel/Fax: 701.318.0657	Lab Contact: Zach Bindert Carrier:	TALS Project #:
Duluth MN 55802	**Analysis Turnaround Time**		Sampler: Scott Budahn
701 318 0657	☐ CALENDAR DAYS ☑ WORKING DAYS		**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below _____		Walk-in Client:
Project Name City of Duluth HMA	☐ 2 weeks		Lab Sampling
Site: 119-121 East 4th Street	☑ 1 week		
P O # B2203724	☐ 2 days		Job / SDG No.
	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCLP 8 RCRA Metals	Sample Specific Notes.
Embers			G	S	1	N	N	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____1_____								X	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☑ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd. _____		Therm ID No. _____
Relinquished by:	Company: Braun Intertec	Date/Time: 5/13/22 1200	Received by:	Company Eurofins	Date/Time: 5/13/22 1200
Relinquished by:	Company: Eurofins	Date/Time: 5/13/22 1800	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by	Company:	Date/Time: 5-14 22 1040

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

5/24/2022

Bindert, Zach

From: Schmidt, Samantha <SaSchmidt@braunintertec.com>
Sent: Monday, May 16, 2022 10:34 AM
To: Bindert, Zach
Subject: RE: Eurofins Environment Testing North Central, LLC Sample Login Confirmation files from 310-231447 City of Duluth HMA

EXTERNAL EMAIL*

Oh jeeze, lol.

This should be labeled as S-1, sampled on 5.12 at 10:30 am. It was a new guy…

Let me know if you have any questions.

Thanks!

From: Zach Bindert <Zach.Bindert@et.eurofinsus.com>
Sent: Monday, May 16, 2022 9:56 AM
To: Schmidt, Samantha <SaSchmidt@braunintertec.com>
Subject: Eurofins Environment Testing North Central, LLC Sample Login Confirmation files from 310-231447 City of Duluth HMA
Importance: High

Sam,

Can you confirm date and time collected?

Thanks,

Zach

Zach T Bindert
Project Manager

Eurofins Cedar Falls
Phone: 319-277-2401

E-mail: Zach.Bindert@et.eurofinsus.com
www.eurofinsus.com/env

121 East 4th St

Reference: [310-566655]
Attachments: 2

Login Sample Receipt Checklist

Client: Braun Intertec Corporation

Job Number: 310-231447-1
SDG Number: B2203724

Login Number: 231447
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F

Asbestos Inspector Certificate

121 East 4th St

Certificate No: 5LM08062107IR *Expiration Date: August 6, 2022*

This is to certify that

Scott M. Budahn

has attended and successfully completed an

ASBESTOS INSPECTOR

REFRESHER TRAINING COURSE

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722

and meets the requirements of

Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.

in

Hudson, WI on August 6, 2021

Examination Date: August 6, 2021

Lake States Environmental, Ltd
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811

DEPARTMENT OF HEALTH ASBESTOS INSPECTOR
Certified by:
State of Minnesota
Department of Health
Expires: 08/06/2022
Scott M Budahn
W12798 State Rd 35
Prescott, WI 54021

Director, Env. Health Div. No. AI11776 Issued: 08/24/2021

Training Instructor

CITY OF DULUTH
MINIMUM SPECIFICATIONS FOR DEMOLITION OF CONDEMNED BUILDINGS
319 N 28th Avenue West

GENERAL

The Contractor shall furnish all labor, material and equipment and shall perform all services and work required to wreck and remove the listed buildings in strict accordance with the specifications and with the City of Duluth ordinances pertaining to the moving or wrecking of buildings.

All work shall be performed by mechanics skilled in demolition of all types of structures and shall be subject to approval by the Duluth Construction Services & Inspections Division.

The Contractor will be required to comply with all applicable Federal, State or Local laws, regulations and ordinances and it is expressly understood and agreed that buildings indicated in this bid request may not be moved and re-erected upon some other site but are to be demolished upon and removed from the premises.

Notice shall be given to the Construction Services & Inspections Division prior to the start of demolition.

BUILDING REMOVAL AND FILLING EXCAVATIONS

In addition to wrecking and removing the building(s) the Contractor shall completely remove all exterior and interior foundation walls, columns, piers, footings, beams, floor slabs and other projections. All building service piping, heating equipment and systems, other fixtures, furniture, partitions, steps, rubbish or other debris shall be removed from the premises. All combustible debris shall be removed from the premises. Concrete stairs and walks shall be removed from the premises and those areas graded.

Excavations shall be filled to grade and backfill will have less than 7% passing #200 sieve. Fill shall be free of foreign materials (rubbish, debris, etc.), frozen clumps, aggregate larger than 3 inches, rock, concrete or bituminous chunks or other unsuitable materials that may prevent thorough compaction or increase the risk of settlement. The city Building Official shall have final say on what material is suitable. The city will work to coordinate and hire a third party engineer to test for compaction to 95% standard proctor density to confirm proper compaction has been achieved for future residential home construction on this site. The site shall be contoured to match adjacent existing grades on all four sides. Grading shall be completed to ensure that water drains towards the city storm system and does not drain toward existing adjacent structures. Following backfill, all areas shall be seeded and mulched.

UTILITY SERVICE

Any sewer, water and gas services cut off shall be the responsibility of the demolition contractor/subcontractor in accordance with the regulations of the city of Duluth. The Contractor shall be responsible for contacting City Engineering directly prior to bidding to confirm the available information concerning water, sewer and gas cut offs and including all costs in their bid. No additional payments will be made for unknown conditions regarding water, gas and sanitary sewer cut offs. Strict adherence to the City of Duluth Engineering Guidelines and the City Standard Specifications for cutting off and/or plugging of water, gas and sewer services shall be required. Any old unused water wells within the property shall be abandoned in accordance with Department of Health regulations. Telephone and electric service shall be terminated under the supervision of the utility company owning the service.

Before commencing any demolition work, contractor shall verify that all utility services have been shut off. Contractor shall disconnect all water and sewer services at the main unless City Engineering has issued specific

written permission to shut water off at the curb. All sanitary sewer laterals shall be abandoned at the main unless written permission is granted from the Chief Engineer of Utilities. Contractor shall coordinate gas service disconnection with City Engineering and provide excavation for City crews to cut and cap live gas lines. The Contractor shall coordinate phone, cable and electrical service disconnection with the company owning the utility. Engineering approval of utility cut offs shall be submitted with invoices.

- Gas: Contractor to expose the connection of the service and main, city will cut off in contractor excavation.
- Water: Water to be cut-off at the shut-off box. Contractor will expose the service at the shut-off location, and city will disconnect and cap.
- Sewer: Sewer will need to be disconnected/capped at the main. Contact City of Duluth Engineering to confirm sewer main location.

PERMITS

The contractor is responsible for obtaining all required permits, including but not limited to wrecking, obstruction, and excavation permits as applicable.

DISPOSAL OF SOLID WASTE

All disposal waste materials must be disposed of at a site approved by the MPCA and WLSSD.

REMOVAL AND SALVAGE OF EXISTING BUILDINGS

1. At the time the Contractor moves onto the demolition site to begin demolition, he shall have a right of salvage to all materials that exist because of the demolition of the structure under the Contract, subject to all the provisions of the contract and the following:
    a. Contractor shall notify the Construction Services & Inspections Division if he finds on the site:
        i. Personal property which is obviously of considerably more value than salvage value.
        ii. Personal property which he knows or has reason to believe belongs to a third party.
        iii. Motor vehicles.
    b. Only such property may be salvaged by the Contractor as is owned by the owner and in the event of any doubt respecting the ownership of any particular property, the Contractor shall request from the landowner a written statement respecting its ownership.
    c. Personal property of the third persons or occupants of buildings on the site shall not become the property of the Contractor.
    d. Any salvage workers authorized by the Contractor to be on the property shall be considered as subcontractors for indemnification purposes.

2. Unless otherwise specified, no dwelling structure shall be removed from the premises as a whole, or in substantially whole condition, but all such buildings shall be demolished on the premises.

TREES, SHRUBBERY, SOD

No trees on the property shall be removed without permission. Care shall be exercised that all trees, shrubbery and sod on adjoining property will not be damaged. See Appendix A for site specific instructions for trees.

LICENSES AND PERMITS

All expense and cost of permits arising from or in conjuncture with the performance or the provision of these specifications shall be borne by the contractor. The contractor shall obtain an erosion control permit prior to any site disturbance. The Contractor shall possess or obtain all required permits and licenses and pay the prescribed fees prior to commencing work.

SAFETY AND CLEANUP

The structure shall be demolished upon the site. All combustibles and scrap material shall be removed by the Contractor.

Under no circumstances shall dust and debris be allowed to blow or scatter from the area as a result of the demolition operation. If necessary, the Contractor will be required to maintain a source of water to dampen and water down the structure as the demolition operation proceeds.

Contractor shall maintain erosion control measures in accordance with the erosion control permit and shall stabilize the site upon completion using sod, seed and mulch, or other method approved by the city of Duluth.

Damage to sidewalks, curb and gutter, street paving and utility structures shall be avoided on or adjoining the site. Any damage caused by the operations shall be repaired at the expense of the Contractor.

INSURANCE

Contractor shall provide Public Liability and Automobile Liability Insurance with limits not less than **$1,500,000** Single Limit, and twice the limit provided when a claim arises out of release or threatened release of a hazardous substance; shall be with a company approved by the City of Duluth; shall provide for the following; Liability for Premises, Operations, Completed Operations; Independent Contractors and Contractual Liability.

City of Duluth shall be named as Additional Insured under Public liability, *Excess/Umbrella Liability, and Automobile Liability, or as an alternate, Contractor may provide Owners-Contractor Protective policy, naming itself and the City of Duluth. Contractor shall also provide evidence of Statutory Minnesota Workman's compensation Insurance. Contractor to provide Certificate of Insurance evidencing such coverage with 30-days notice of cancellation non-renewal or material change provisions included. The City of Duluth does not represent or guarantee that these types or limits or coverage are adequate to protect the Contractor's interests and liabilities. If a Certificate of Insurance is provided, the form of the certificate shall contain an unconditional requirement that the insurer must notify the City without fail not less than 30 days prior to any cancellation, non-renewal or modification of policy or coverage's evidence by said certificate and shall further provide that failure to give such notice to the City will render any such change or changes in said policy or coverage ineffective as against the City.

*An umbrella policy with a "following form" provision is acceptable if written verification is provided that the underlying policy names the City of Duluth as an additional insured.

RIGHT OF THE CITY TO DO THE WORK

If the successful bidder should neglect to prosecute the work properly or fail to perform any provision of the contract, the city, after three days' written notice to the successful bidder, may without prejudice to any other remedy the city may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the successful bidder.

INVOICING

Invoices shall be itemized by address, include a description of tasks completed and dates of completion, itemization with hourly rate X hours, invoice total and the vendor name. Lump sum invoices and % of contract invoices are not acceptable. All work must be observed and approved by City prior to payment.

HAZARDOUS MATERIALS and WASTE

Required abatement of asbestos and regulated materials and waste shall be completed be by a licensed hazardous remediation contractor and be included in costs of this contract. Hazardous Material Inspection Report has been completed and should be referenced when determining abatement scope of work. As per the Hazardous Material Inspection Report, all asbestos containing materials must be properly remediated prior to demolition by a licensed asbestos removal contractor as well as the proper disposal of certain waste throughout the property.

MPCA NOTITIFICATION OF INTENT TO PERFORM DEMOLITION

Contractor must properly complete this form and any/all other documents required by City, State, and federal regulations and forward as required. Copies of all forms shall also be forwarded to the City of Duluth Construction Services & Inspections Division office.

GOPHER STATE ONE-CALL

Contractor **SHALL** call 800-262-1166 and comply with all Gopher State One-Call requirements.

SAM.GOV REGISTRATION

Contractor shall provide SAM.gov registration number or DUNS number to the City of Duluth prior to demolition work commencing.

Twin Ports Testing
1301 N 3rd St. • Superior WI 54880 • 715-392-7114 • 1-800-373-2562 • F 715-392-7163 • www.twinportstesting.com

May 31, 2022 TPT #22A0201

Mr. Brett Crecelius
City of Duluth
Planning & Economic Development
411 West First Street
Duluth, Minnesota 55802

Re: Asbestos and Regulated Waste Assessment
319 North 28th Avenue West
Duluth, Minnesota

Dear Mr. Crecelius,

The following is a final report outlining the asbestos and regulated waste inspection conducted at the subject site for demolition purposes. This report contains the following information:

- Introduction
- Results
- Recommendations

INTRODUCTION

Twin Ports Testing II, Inc. (TPT) was contracted by Mr. Brett Crecelius, City of Duluth, to conduct an Asbestos and Regulated Waste Inspection prior to demolition of the home located at 319 North 28th Avenue West in Duluth, Minnesota. On May 11, 2022, Mr. Gary Christner, a Minnesota Department of Health (MDH) Certified Asbestos Inspector was on-site to collect material samples that potentially contain asbestos. A copy of the inspectors' MDH hard card is included in Appendix A.

RESULTS

Asbestos

TPT collected forty-three samples that were potentially asbestos containing materials (ACM). These building materials included: glaze, asphalt shingle, siding, caulk, roof layer, tar flashing, thermal system insulation (TSI), paper wrap, linoleum, mastic, ceramic tile, grout, adhesive, brick, mortar, sheetrock, plaster, composite, ceiling texture, floor tile and ceiling board. TPT staff collected bulk samples from the suspect building components in accordance with the Minnesota Department of Health (MDH) regulations pertaining to asbestos inspections.

The table on the following page lists the areas that were sampled for asbestos (bold and shading indicates positive results), sample ID, location, and percent (%) asbestos (if applicable). Laboratory analytical results are included in Appendix B.

Table 1 – Sampled Material

Object or Item	Sample ID	Location	% Asbestos
Glaze	1	Around exterior windows, basement level (tan/white)	None Detected
Glaze	2	Around exterior windows, 1st floor (tan/white)	None Detected
Glaze	3	Around exterior windows, 2nd floor (tan/white)	None Detected
Glaze	4	Around exterior window, attic level (tan/white)	None Detected
Asphalt shingle	5	Exterior sides of home (gray/black)	None Detected
Siding		Exterior sides of home (tan)	None Detected
Caulk	6	Exterior NW corner of home (black)	None Detected
Caulk	7	Exterior around window and door frames (gray)	None Detected
Asphalt shingle	8	Exterior home roof (gray/black/green)	None Detected
Roof layer	9	2nd floor flat roof (black)	None Detected
Tar flashing	**10**	**Exterior home flat roof around perimeter (black)**	**5% Chrysotile**
TSI	**11a,b**	**Basement SW room on pipes elbows (white)**	**20% Chrysotile**
Paper wrap	**12**	**Basement on ceiling (white)**	**75% Chrysotile**
TSI	**13a,b,c**	**Basement on pipe fittings/elbows (white)**	**20% Chrysotile**
Linoleum	14	Basement stairway landing (tan)	None Detected
Linoleum	15	1st floor dining room (brown/tan/green)	None Detected
Mastic		1st floor dining room under linoleum (tan)	None Detected
Ceramic tile	**16**	1st floor fireplace (white)	None Detected
Grout		1st floor fireplace between tiles (tan)	None Detected
Adhesive		**1st floor fireplace under tile (black)**	**4% Chrysotile**
Brick	17	1st floor fireplace walls (tan)	None Detected
Mortar		1st floor fireplace walls between bricks (gray)	None Detected
Ceiling sheetrock & plaster	18a	1st floor dining room (tan/white)	None Detected
Ceiling sheetrock	18b	1st floor living room (tan/white)	None Detected
Ceiling plaster		1st floor living room (tan)	None Detected

Table 1 – Sampled Material

Object or Item	Sample ID	Location	% Asbestos
Ceiling composite	18c	1st floor living room (tan/white)	None Detected
Ceiling plaster		1st floor living room (tan)	None Detected
Wall sheetrock	19a,b	1st floor kitchen (tan/white)	None Detected
Wall plaster	20a,b,c	1st floor walls (tan)	None Detected
Ceiling plaster	21	1st floor entryway (tan)	None Detected
Ceiling texture	22a,b,c	1st floor entryway and 2nd floor hallway (white)	None Detected
Floor tile (12"x 12")	23	2nd floor bathroom (white)	None Detected
Mastic		2nd floor bathroom under tile (tan)	None Detected
Linoleum	24	2nd floor bedroom #2 (brown/black/pink)	None Detected
Mastic		2nd floor bedroom #2 under linoleum (tan)	None Detected
Wall sheetrock	25	2nd floor bedroom 3 & 4	None Detected
Tar paper		2nd floor bedroom 3 & 4 inside walls (black)	None Detected
Ceiling board	26	2nd floor bedroom #4, top layer, (tan/white)	None Detected
Ceiling plaster	27	2nd floor bedroom #4, bottom layer, (tan)	None Detected
Wall plaster	28a,b,c	Throughout 2nd floor (tan)	None Detected
Ceiling plaster	29a,b,c	Throughout 2nd floor (tan)	None Detected

By the MDH and MPCA rules and regulations, asbestos containing materials are materials that contain greater than 1% asbestos. Five of the materials tested are considered to be Asbestos Containing Materials (ACMs).

Table 2 – Asbestos Containing Materials Summary

Sample #	Sample Type	Location / Description	Friability	Approximate Amount
10	Tar flashing	2nd floor flat roof around perimeter (black)	Non-Friable	~270 linear feet
11a,b	TSI	Basement in small room (white)	Friable	~5 fittings & 10 linear feet
12	Paper wrap	Basement ceiling (white)	Friable	~5 square feet
13a,b,c	TSI	Basement on elbows & fittings (white)	Friable	~30 elbow & fittings

Table 2 – Asbestos Containing Materials Summary

Sample #	Sample Type	Location / Description	Friability	Approximate Amount
16	Adhesive	1st floor fireplace under tile (black)	Non-Friable	~50 square feet

Regulated Wastes

TPT identified the following items that must be removed and properly disposed of before demolition. The following list is merely a guideline for removal; items may have been missed and quantities may not be exact. Any additional regulated waste that is discovered should be removed prior to demolition.

Basement

- 1 Electrical box
- 1 Water heater

1st Level

- 1 Smoke alarm

Exterior

- 1 Television

RECOMMENDATIONS

TPT recommends the abatement of the asbestos containing material prior to demolition. This material includes:

- Black tar flashing located around the flat roof perimeter on the 2nd floor;
- White TSI located on the pipe run, pipe elbows & fittings;
- White paper wrap located on the ceiling openings in the basement; and
- Black adhesive located under the ceramic tile of the fire place on the 1st floor.

The abatement must be completed by a State of Minnesota licensed asbestos abatement contractor. If additional materials are discovered that may be asbestos containing during demolition, the materials must be tested or assumed to be asbestos containing and treated as such.

TPT recommends proper removal and disposal of the regulated wastes prior to demolition.

This inspection was conducted according to federal, state and local regulations. If you have any questions regarding this report, please feel free to contact me at (715) 392-7114 (office). Thank you for the opportunity to conduct this work.

Sincerely,

Twin Ports Testing II, Inc.

Gary J. Christner

Gary Christner
Industrial Hygiene Technician
Inspector #AI3694

Date 5/31/22

Attachments: Appendix A: Inspector Certifications
Appendix B: Asbestos Laboratory Analytical Results
Appendix C: Map showing locations of Asbestos Containing Materials

Appendix A

Inspector Certifications

319 N 28th Ave West

DEPARTMENT OF HEALTH

ASBESTOS INSPECTOR

Certified by:
State of Minnesota
Department of Health

Expires: 01/21/2023

Gary J Christner
2337 Pershing Street
Duluth, MN 55811

Director, Env. Health Div. No. AI3694 Issued: 02/23/2022

Appendix B

Asbestos Laboratory Analytical Results

EMSL Analytical, Inc.
3410 Winnetka Avenue North New Hope, MN 55427
Tel/Fax: (763) 449-4922 / (763) 449-4924
http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order: 352204403
Customer ID: TWNT42
Customer PO:
Project ID:

Attention: Tracy Jacobs
Twin Ports Testing II, Inc.
1301 North Third Street
Superior, WI 54880

Project: 22A0201 319 N. 28th Ave W.

Phone: (218) 390-0162
Fax:
Received Date: 05/12/2022 9:50 AM
Analysis Date: 05/19/2022 - 05/20/2022
Collected Date: 05/11/2022

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1 *352204403-0001*	Ext. Win Glaze basement level white/green	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
2 *352204403-0002*	Ext. win. Glaze, 1st Floor, white/green	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
3 *352204403-0003*	Ext. win glaze 2nd Fl., gray/white	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
4 *352204403-0004*	Ext. win glaze, Attic level, green white	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
5-Shingle *352204403-0005*	Asphalt shingle, Ext. sides of house, gray/black/brown	Gray/Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
5-Siding *352204403-0005A*	Asphalt shingle, Ext. sides of house, gray/black/brown	Tan Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
6 *352204403-0006*	Caulk, Ext. NW Corner of home, white/black	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
7 *352204403-0007*	Caulk, Ext. around win & door seams, gray/black	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8 *352204403-0008*	Asphalt shingle, Ext. roof, green/black	Gray/Black/Green Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
9 *352204403-0009*	Roof layer, 2nd Fl. Flat roof, black/brown	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
10 *352204403-0010*	Tar flashing, 2nd Fl. Flat roof around perimeter, black	Black Non-Fibrous Homogeneous	10% Cellulose	85% Non-fibrous (Other)	5% Chrysotile
11a *352204403-0011*	TSI, pipe elbows, basement in sw. roof, white/gray	White Fibrous Heterogeneous		80% Non-fibrous (Other)	20% Chrysotile
11b *352204403-0012*	TSI, pipe elbows, basement in sw. roof, white/gray				Positive Stop (Not Analyzed)
12 *352204403-0013*	Paper Wrap, basement ceiling, gray/white	White Fibrous Homogeneous		25% Non-fibrous (Other)	75% Chrysotile
13a *352204403-0014*	TSI, basement on elbows/fitting, white	White Fibrous Heterogeneous		80% Non-fibrous (Other)	20% Chrysotile
13b *352204403-0015*	TSI, basement on elbows/fitting, white				Positive Stop (Not Analyzed)

Initial report from: 05/20/2022 11:39:15

EMSL Analytical, Inc.
3410 Winnetka Avenue North New Hope, MN 55427
Tel/Fax: (763) 449-4922 / (763) 449-4924
http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order: 352204403
Customer ID: TWNT42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
13c *352204403-0016*	TSI, basement on elbows/fitting, white				Positive Stop (Not Analyzed)
14 *352204403-0017*	Linoleum, basement stairway landing, gray/brown/tan	Tan Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
15-Linoleum *352204403-0018*	Linoleum, 1st Fl dining rm, gray/tan/beige	Brown/Tan/Green Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
15-Mastic *352204403-0018A*	Linoleum, 1st Fl dining rm, gray/tan/beige	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
16-Ceramic Tile *352204403-0019*	Ceramic tile, 1st fl. Fireplace, black/white	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
16-Grout *352204403-0019A*	Ceramic tile, 1st fl. Fireplace, black/white	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
16-Adhesive *352204403-0019B*	Ceramic tile, 1st fl. Fireplace, black/white	Black Non-Fibrous Heterogeneous		96% Non-fibrous (Other)	4% Chrysotile
17-Brick *352204403-0020*	Brick & mortar, 1st Fl fireplace wall, tan/gray/black	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17-Mortar *352204403-0020A*	Brick & mortar, 1st Fl fireplace wall, tan/gray/black	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
18a *352204403-0021* *Sheetrock only*	Ceiling sheetrock & plaster, 1st Fl. Din. Rm, white/brown	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
18b-Sheetrock *352204403-0022*	Ceiling S.R. & plaster 1st Fl. Liv. Rm, white.brown/gray	Tan/White Fibrous Heterogeneous	10% Cellulose <1% Glass	90% Non-fibrous (Other)	None Detected
18b-Plaster *352204403-0022A*	Ceiling S.R. & plaster 1st Fl. Liv. Rm, white.brown/gray	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
18c-Composite *352204403-0023* *This is a composite result of wallboard, jt. compound, and tape*	Ceiling S.R. & plaster. 1st Fl Liv. Rm, white/brown/gray	Tan/White Fibrous Heterogeneous	10% Cellulose <1% Glass	<1% Perlite 90% Non-fibrous (Other)	None Detected
18c-Plaster *352204403-0023A*	Ceiling S.R. & plaster. 1st Fl Liv. Rm, white/brown/gray	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
19a *352204403-0024*	Wall Sheetrock, 1st Fl kit., white/brown/tan	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
19b *352204403-0025*	Wall Sheetrock, 1st Fl kit., white/brown/tan	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
20a *352204403-0026*	Wall plaster, 1st fl. Walls, gray/white	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20b *352204403-0027*	Wall plaster, 1st fl. Walls, gray/white	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/20/2022 11:39:15

EMSL Analytical, Inc.
3410 Winnetka Avenue North New Hope, MN 55427
Tel/Fax: (763) 449-4922 / (763) 449-4924
http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order: 352204403
Customer ID: TWNT42
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
20c *352204403-0028*	Wall plaster, 1st fl. Walls, gray/white	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21 *352204403-0029*	Ceiling Plaster, 1st Fl. Entryway, gray/tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22a *352204403-0030*	Ceiling texture, 1st Fl. Entry way, white/orange	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22b *352204403-0031*	Ceiling texture, 2nd Fl. Hallway, white/orange	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22c *352204403-0032*	Ceiling texture, 2nd. Fl hallway =, white=/orange	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Floor Tile *352204403-0033*	12x12 floor tile, 2nd Fl. Bathroom, white/gray/tan	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
23-Mastic *352204403-0033A*	12x12 floor tile, 2nd Fl. Bathroom, white/gray/tan	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
24-Linoleum *352204403-0034*	Linoleum, 2nd Fl. Bedroom #2, brown/black/pink	Brown/Black/Pink Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
24-Mastic *352204403-0034A*	Linoleum, 2nd Fl. Bedroom #2, brown/black/pink	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
25-Sheetrock *352204403-0035*	Wall sheetrock & tar paper, 2nd Fl bedroom 34, white/brown/black	Tan/White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
25-Tar Paper *352204403-0035A*	Wall sheetrock & tar paper, 2nd Fl bedroom 34, white/brown/black	Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
26 *352204403-0036*	Ceiling board, 2nd Fl. Bedroom #4, top layers, white/brown	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
27 *352204403-0037*	Ceiling plaster, 2nd Fl. B.r #4, bot. layer, gray/tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28a *352204403-0038*	Wall plaster, throughout 2nd Fl., gray/white/green	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28b *352204403-0039*	Wall plaster, throughout 2nd Fl., gray/white/green	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28c *352204403-0040*	Wall plaster, throughout 2nd Fl., gray/white/green	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29a *352204403-0041*	Ceiling plaster, throughout 2nd Fl., white/gray/tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29b *352204403-0042*	Ceiling plaster, throughout 2nd Fl., white/gray/tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order:	352204403
Customer ID:	TWNT42
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
29c *352204403-0043*	Ceiling plaster, throughout 2nd Fl., white/gray/tan	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Lynn Scott (50)

Rachel Travis, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/20/2022 11:39:15

319 N 28th Ave West
OrderID: 352204403

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 352204403

14375 23rd Avenue North
Minneapolis, MN 55447
PHONE (763) 449-4922
FAX (763) 449-4924

Company Name : Twin Ports Testing II		**EMSL Customer ID:**	
Street: 1301 North 3rd Street		**City:** Superior	**State/Province:** WI
Zip/Postal Code: 54880	**Country:** US	**Telephone #:** (218) 390-0162	**Fax #:** 7153927163
Report To (Name): Tracy Jacobs		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: tracy.jacobs@twinportstesting.com		**Purchase Order:**	
Project Name/Number: 22A0201 319 N. 28th Ave W.		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: MN		**CT Samples:** ☐ Commercial/Taxable ☐ 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.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☒ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Gary Christner **Samplers Signature:** Gary Christner

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1	Ext. Win Glaze, basement level white/green		5/11 @ 1900
2	Ext. win. glaze, 1st Floor, white/green		
3	Ext. win glaze, 2nd Fl., gray/white		
4	Ext. win glaze, Attic level, green/white		
5	Asphalt shingle, Ext. sides of house, gray/black/brown		

Client Sample # (s): 1 - 29-C **Total # of Samples:** 43

Relinquished (Client): Gary Christner **Date:** 5-11-22 **Time:** 1530

Received (Lab): [signature] **Date:** 5/12/22 **Time:** 9:50AM

Comments/Special Instructions:
TTP = Please test until positive. FE: 7963 9517 4682

14

319 N 28th Ave West
OrderID: 352204403

EMSL Analytical, Inc.
14375 23rd Avenue North

Minneapolis, MN 55447
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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4403

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
6	Caulk, Ext. NW Corner of house, white/black		
7	Caulk Ext. around win. & door seams, gray/black		
8	Asphalt shingle, Ext. roof, green/black		
9	Roof layer, 2nd Fl. flat roof, black/brown		
10	Tar flashing, 2nd Fl. flat roof around perimeter	black	
11a, b	TSI, pipe elbows, basement in sm. room, white/gray	TTP	
12	Paper Wrap, basement ceiling, gray/white		
13a, b, c	TSI, basement on elbows/fitting, white	TTP	
14	Linoleum, basement stairway landing, gray/brown/tan		
15	Linoleum, 1st Fl. dining rm., gray/tan/beige		
16	Ceramic tile, 1st Fl. fireplace, black/white		
17	Brick & mortar, 1st Fl. fireplace wall, tan/gray/black		
18a	Ceiling sheetrock & plaster, 1st Fl. Din. Rm, white/brown	TTP	
18b	Ceiling S.R & plaster, 1st Fl. Liv. Rm, white/brown/gray	TTP	
18c	Ceiling S.R & plaster, 1st Fl. Liv. Rm, white/brown/gray	TTP	
19a, b	Wall sheetrock, 1st Fl. kit., white/brown/tan	TTP	
20a, b, c	Wall plaster, 1st Fl. walls, gray/white	TTP	
21	Ceiling Plaster, 1st Fl. entryway, gray/tan		
22a	Ceiling texture, 1st Fl. entryway, white/orange	TTP	
22b	" " , 2nd Fl. stairway, white/orange	TTP	
22c	Ceiling texture, 2nd Fl. hallway, white/orange	TTP	
23	12X12 floor tile, 2nd Fl. bathroom, white/gray/tan		
24	Linoleum, 2nd Fl. bedroom #2, brown/black/pink		

*Comments/Special Instructions:

Page 2 of 3 pages

319 N 28th Ave West
OrderID: 352204403

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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 4403

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
25	Wall sheetrock & tar paper, 2nd Fl. bedroom #4, white/brown/black		
26	Ceiling board, 2nd Fl. bedroom #4, top layer, white/brown		
27	Ceiling plaster, 2nd Fl. b.r #4, bot. layer, gray/tan		
28a, b, c	Wall plaster, throughout 2nd Fl., gray/white/tan	TTP	
29a, b, c	Ceiling plaster, throughout 2nd Fl., white/gray/tan	TTP	

***Comments/Special Instructions:**

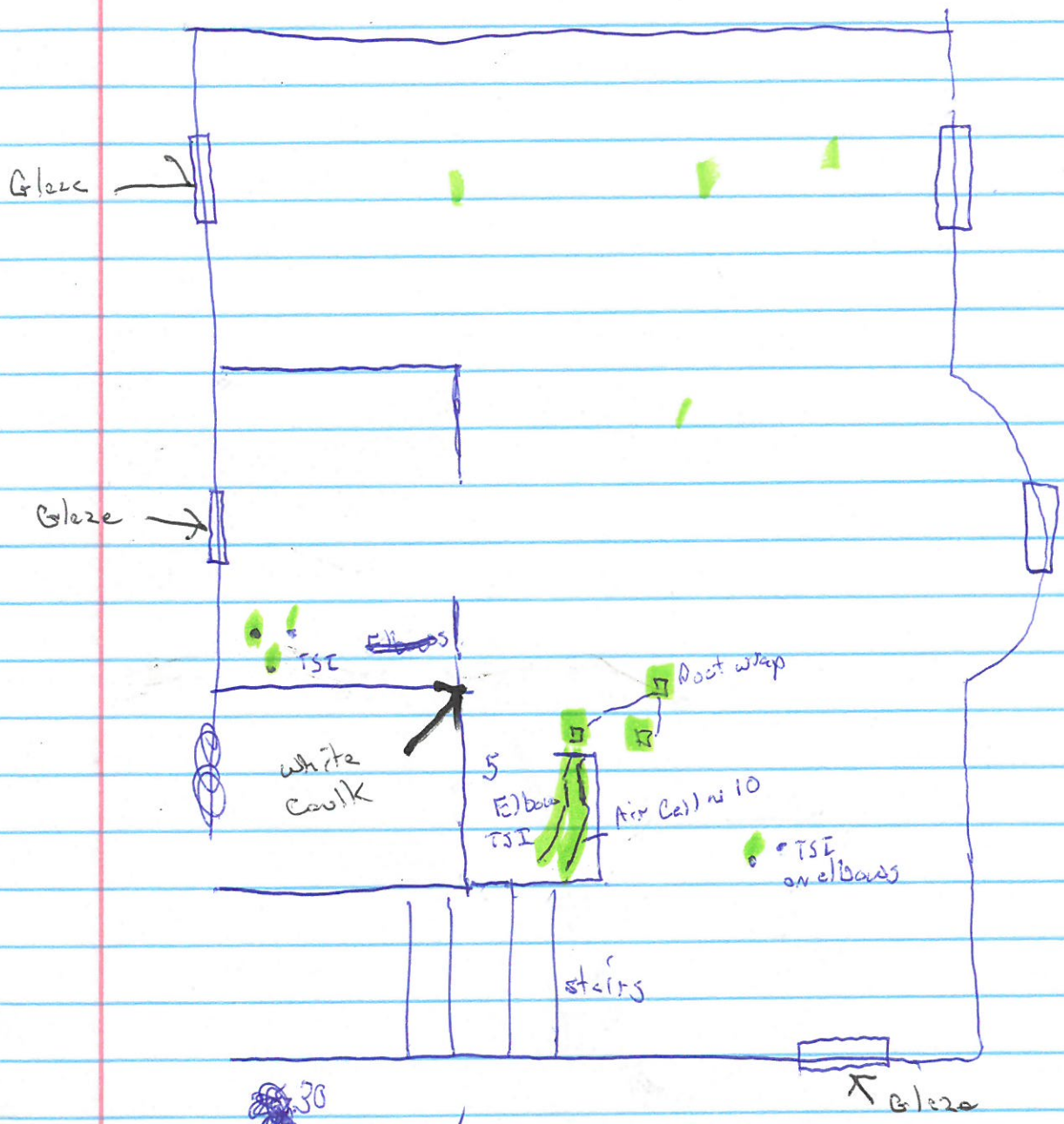
Page 3 of 3 pages

Appendix C

Map showing locations of Asbestos Containing Materials

319 N 28th Ave West

28th Ave W.



30

TSI = Elbows/Fits

[Air Cell = 10 linear Ft.
Elbows = ITN]

Windows Glaze = III

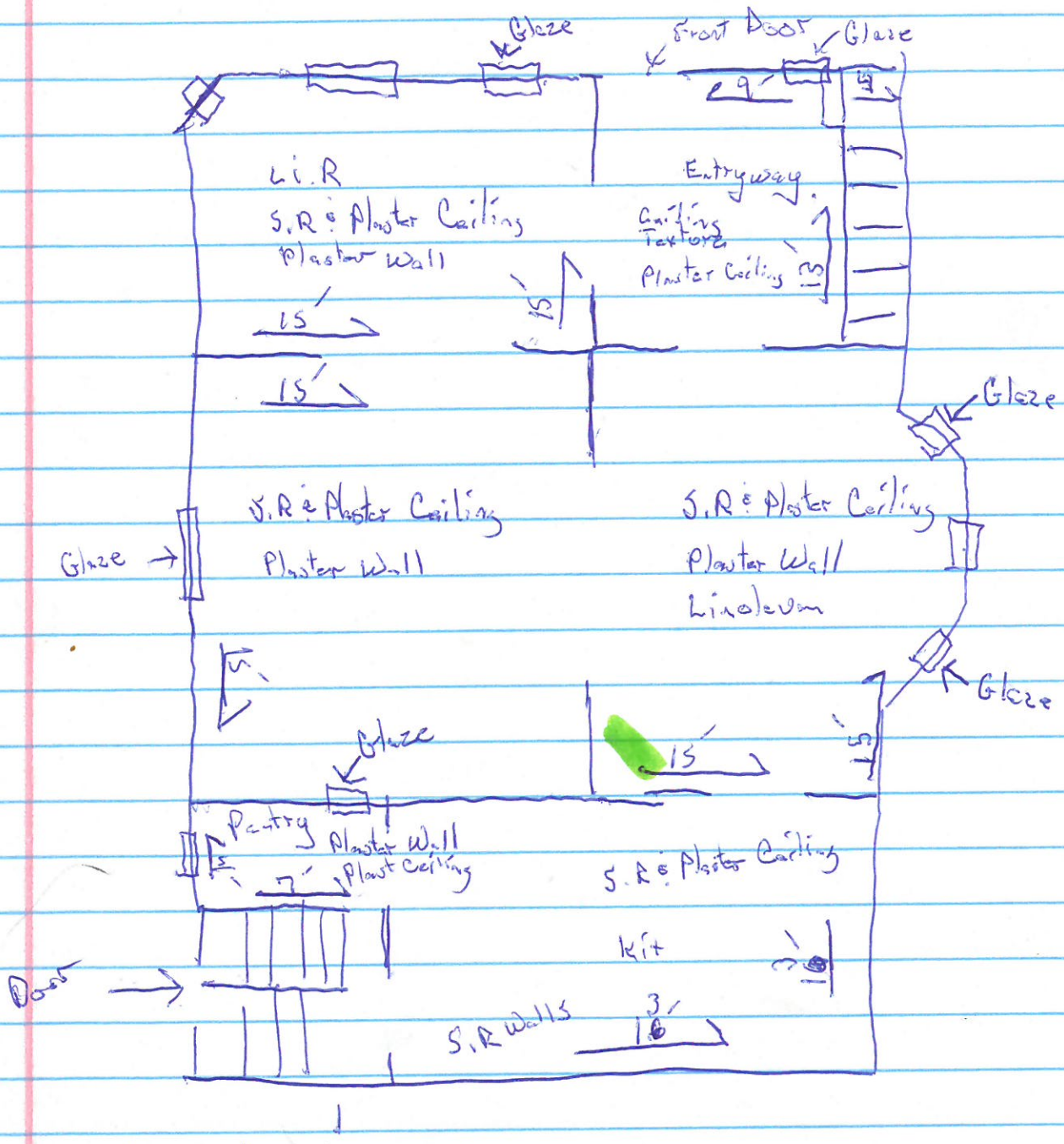
Duct Wrap = □ 5 sq.

Gray Caulk

Ext White Caulk

319 N 28th Ave West

1st Fl. 28



Ceiling Texture = ∏ 15 ft²

Wall Plaster

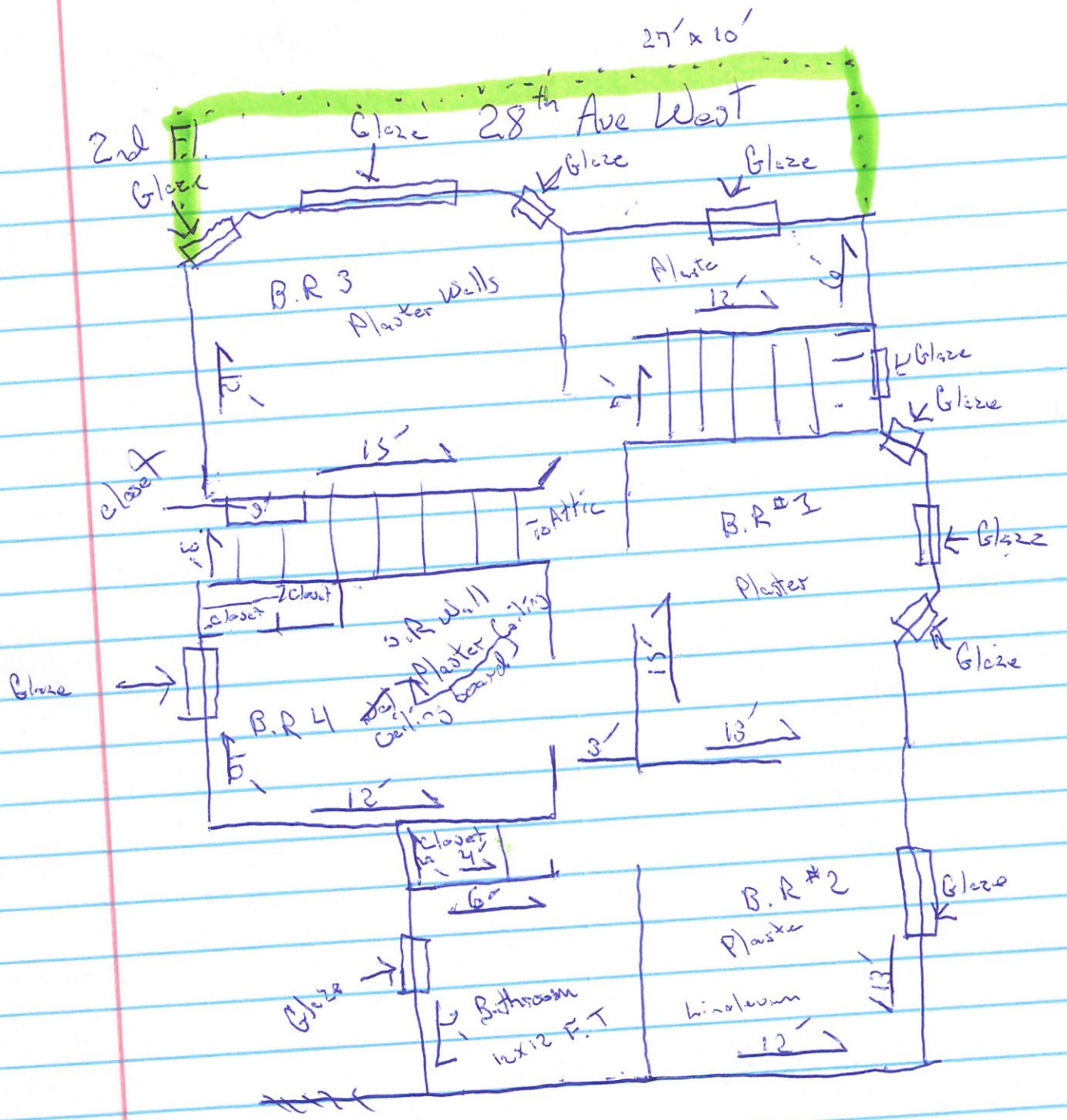
Ceiling S.R & Plaster

Ceiling Plaster - Entryway

Win Glaze = 6 wins

Linoleum

319 N 28th Ave West



Walls
Ceiling
12X12 F.T
Glaze : ||| ||| ||
Lino = 1 □ ft
12X12 F.T = Bathroom □ 42
Ceiling Texture Hallway & Stairwell