



Pre-Demolition Hazardous Waste Assessment

Chambers Grove Park
Bathroom Building
Duluth, Minnesota

TPT#16A0159

Prepared for:

**Ms. Tari Rayala, AIA
City of Duluth- Architect
Property & Facilities Management
1532 West Michigan Street
Duluth, Minnesota 55806**

March 25, 2016



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

March 25, 2016

TPT#16A0159

Ms. Tari Rayala, AIA
City of Duluth- Architect
Property & Facilities Management
1532 West Michigan Street
Duluth, Minnesota 55806

**Re: Pre-Demolition Hazardous Waste Assessment
Chambers Grove Park
Bathroom Building
Duluth, Minnesota**

Dear Ms. Rayala,

The following is a report outlining the pre-demolition hazardous waste assessment completed in the bathroom building located at Chambers Grove Park in Duluth, Minnesota. This report contains the following information:

- Introduction
- Asbestos
- Hazardous Waste Inventory
- Discussion/ Recommendations

INTRODUCTION

Twin Ports Testing, Inc. (TPT) was contacted by Ms. Tara Rayala, City of Duluth- Architect, regarding pre-demolition hazardous waste assessment at the above mentioned property. Mr. Gary Christner, of TPT, a Minnesota Department of Health certified Asbestos Inspector, conducted the inspection on March 22, 2016. TPT personnel certifications are attached as Appendix A.

ASBESTOS

TPT collected four samples that were potentially asbestos containing materials (ACMs). These samples included brick, mortar, caulk and putty. The samples were sent to EMSL Analytical, Inc. in Minneapolis, Minnesota for analysis by polarized light microscopy (PLM). The table on the following page lists the areas that were sampled for asbestos (bold and shading indicates positive results), sample number, sample description, sample location and asbestos percent (if applicable). Laboratory analytical results are attached as Appendix B.

Sample #	Sample Description	Sample Location	Asbestos %Type
1	Brick	Exterior building, black	None Detected
	Mortar	Exterior building between brick, gray	None Detected
2	Caulk	Around exterior electric conduit, clear	None Detected
3	Caulk	Around exterior electric conduit, gray	None Detected
4	Putty	Around exterior water pipes, gray	None Detected

According to the Minnesota Department of Health (MDH) rules and regulations, asbestos containing materials are materials that contain greater than 1% asbestos. None of the materials sampled are considered asbestos containing.

REGULATED WASTE

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.

Utility Room:

- 1 Compact fluorescent
- Electrical boxes
- Solid waste (Grocery cart, grill racks)

Men's bathroom:

- Solid waste (Garbage can)

Women's bathroom:

- Solid waste (Garbage can)

DISCUSSION/RECOMMENDATIONS

All samples are negative for asbestos; no special precautions are required when working with these materials.

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

TPT would like to thank you for the opportunity to assist you with this project. If you have any questions or concerns regarding this report please call us at your convenience.

Sincerely,

Twin Ports Testing, Inc.

Gary Christner
 Gary Christner
 Industrial Hygiene Technician
 Inspector# 3694

3-25-16
 Date

Appendix A

Licenses/Certifications



G. Christner
Director, Env. Health Div.



ASBESTOS
INSPECTOR

Certified by:
State of Minnesota
Department of Health

Expires: **01/07/2017**

Gary J Christner
632 N 60th Ave W #2
Duluth, MN 55807

No. A13694

Issued: 01/26/2016

Appendix B

Asbestos Analytical Results



EMSL Analytical, Inc.
 14375 23rd Avenue North Minneapolis, Mn 55447
 Tel/Fax: (763) 449-4922 / (763) 449-4924
 http://www.EMSL.com / minneapolislab@emsl.com

EMSL Order: 351601669
 Customer ID: TWIN50
 Customer PO:
 Project ID:

Attention: Tracy Jacobs
 Twin Ports Testing, Inc.
 1301 North 3rd Street
 Superior, WI 54880

Phone: (218) 390-0162
Fax: (715) 392-7163
Received Date: 03/23/2016 9:15 AM
Analysis Date: 03/23/2016
Collected Date: 03/22/2016

Project: 16A0159 Chamber Grove

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-Brick <i>351601669-0001</i>	Brick & mortar, black/gray	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-Mortar <i>351601669-0001A</i>	Brick & mortar, black/gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2 <i>351601669-0002</i>	Caulk, clear	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3 <i>351601669-0003</i>	Caulk, gray	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4 <i>351601669-0004</i>	Putty, gray/white	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
 Miles DelBusso (5)


 Rachel Travis, Laboratory Manager
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial Report From: 03/23/2016 13:10:39



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

16669

EMSL Analytical, Inc.
 14375 23rd Avenue North

Minneapolis, MN 55447
 PHONE: (763) 449-4922
 FAX: (763) 449-4924

Company: Twin Ports Testing, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 1301 North 3rd Street		Third Party Billing requires written authorization from third party	
City: Superior	State/Province: WI	Zip/Postal Code: 54880	Country: United States
Report To (Name): Tracy Jacobs		Telephone #: (218)390-0162	
Email Address: tracy.jacobs@twinportstesting.com		Fax #: 715-392-7163	Purchase Order:
Project Name/Number: 16A0159 Chamber Grove		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: MN		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

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 <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Sol/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>
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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	Brick & mortar, black/gray		3-22 @ 10:00
2	Caulk, clear		
3	Caulk, gray		
4	Petty, gray/white		

Client Sample # (s): 1 - 4 Total # of Samples: 4

Relinquished (Client): Gary Christner Date: 3-22-16 Time: 12:00

Received (Lab): McClaypool FE Date: 3/23/16 Time: 9:15

Comments/Special Instructions: 795125669336