



January 17, 2024

City of Toronto
Corporate Real Estate Management
Metro Hall, 55 John Street
Toronto, ON M5V 3C6

Via email: Inder.Bhamra@toronto.ca

Attention: Inder Bhamra | Environmental Coordinator

Re: Bulk Sample Analysis Report
Rexdale Community Hub
21 Panorama Court, Toronto, ON
ECOH Project No.: 28129-02

1. INTRODUCTION

ECOH Management Inc. (ECOH) was retained by the City of Toronto to complete visual inspection and sampling, as necessary, to determine the potential presence of asbestos-containing materials at Rexdale Community Hub, located at 21 Panorama Court, Toronto, ON. ECOH understands the request was made prior to planned renovations to the stage area of the Gymnasium (hereafter referred to as the “Project Area”). ECOH previously completed and submitted a *Pre-Renovation Designated Substances and Hazardous Materials Survey* report, issued October 31, 2023. The findings in this report are based on the original report and current assessment.

Andrew Walsh of ECOH was on-site January 9, 2024 to complete a visual assessment of the Project Area.

2. ASBESTOS & LEAD BULK SAMPLE ANALYSIS & RESULTS

EMSL Canada Inc. (EMSL), an independent commercial laboratory, analyzed the collected samples following the analytical method prescribed by Ontario Regulation 278/05, Designated Substance – *Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations* [U.S. Environmental Protection Agency Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993, using Polarized Light Microscopy (PLM)]. Although not required by provincial regulation, all laboratories used by ECOH are accredited under the U.S. National Voluntary Laboratory Accreditation Program (NVLAP) to ensure consistent, accurate and defensible results.

Table 1 summarizes the sample collection information and results from the asbestos bulk sampling.

Table 1: Asbestos Bulk Samples – Summary of Analysis			
Sample Number	Sample Location	Description	Asbestos Content
28129-02-ASB-01A	Stage - Gymnasium	Drywall Joint Compound	None Detected

Table 1: Asbestos Bulk Samples – Summary of Analysis			
Sample Number	Sample Location	Description	Asbestos Content
28129-02-ASB-01B	Stage - Gymnasium	Drywall Joint Compound	None Detected
28129-02-ASB-01C	Stage - Gymnasium	Drywall Joint Compound	None Detected
- shading indicates sample result positive for asbestos (if applicable)			

Although no regulations exist in Ontario, guidelines indicate that paints and surface coatings that contain 0.5% lead concentration by dry weight (i.e., concentrations of lead at or above 0.5%, or 5000 parts per million (ppm) is considered to be a “lead-based paint or surface coating”. Paints or surface coatings that contain concentrations of lead greater than 0.1% by dry weight (1000 ppm), and less than 0.5% by dry weight (5000 ppm), is considered to be a “lead-containing paint or surface coating”. Paints or surface coatings that contain concentrations of lead at, or below, 0.1% by dry weight (1000 ppm) is considered to be a “low-level lead paint or surface coating”.

Table 2 summarizes the sample collection information and results from the lead bulk sampling.

Table 2: Lead Bulk Samples – Summary of Analysis			
Sample Number	Sample Location	Description	Lead Content (ppm)
28129-02-Pb-01	Stage - Gymnasium	Yellow Paint on Drywall Walls (Bulkhead)	580 ppm
- shading indicates sample result positive for lead (if applicable)			

No major sources of lead or lead-containing products were observed during this assessment. However, the following should be noted.

- Lead may be present in wiring connectors and electric cable sheathing, and
- Lead may be present in solder joints on copper piping.

3. OBSERVATIONS

The following recommendations meet requirements of the Occupational Health and Safety Act. Asbestos recommendations meet the requirements of the Designated Substance – Regulation respecting *Asbestos on Construction Projects and in Buildings and Repair Operations*, Ontario Regulation 278/05. Based upon the results of ECOH’s investigations, ECOH offers the following recommendations.

1. Laboratory analysis determined that the drywall joint compound within the Project Area is non-asbestos and contains only trace amounts of lead.
2. Materials confirmed not to contain asbestos, or not suspected of containing asbestos, do not require asbestos safety precautions during disturbance or removal. However, general health

and safety construction procedures should be utilized during removal work, including provisions for dust suppression methods, proper respiratory protection and protective clothing, as is appropriate for the work being completed.

3. Renovation, demolition or general construction work involving the removal of materials containing only trace concentrations of lead (i.e. lead concentrations below 0.1% by dry weight, or 1000ppm) can be completed without lead specific safety precautions provided that:
 - a) Work does not include 'fume generating activities' (heat producing) such as welding, torching, burning, high temperature cutting, etc.,
 - b) Work does not include dust-generating activities such as grinding, cutting or chemical stripping,
 - c) Dust levels are maintained below $3\text{mg}/\text{m}^3$, and
 - d) General health and safety construction procedures are implemented, which would include dust suppression methods, proper respiratory protection (minimum of a 1/2-face respirator) and protective clothing, as is appropriate for the work being completed.

4. STATEMENT OF LIMITATIONS

Due to the nature of building construction, and on-going building activities, some limitations exist to the thoroughness of a building assessment. The field observations, measurements and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings and conclusions presented in this report. The observations, results and conclusions drawn by ECOH Management Inc. (ECOH) are limited to the specific scope of work for which ECOH was retained and are based solely on information generated as a result of the specific scope of work authorized by City of Toronto. Only those items that are capable of being observed and are reasonably obvious to ECOH personnel or have been identified to ECOH by other parties, can be reported. ECOH has exercised a degree of thoroughness and competence that is consistent with the profession during the execution of this assessment. ECOH considers the opinions and information as they are presented in this report to be factual at the time of the assessment. The conclusions are limited to the specific locations of where testing and/or observations were completed during the course of the assessment.

It is important to note that work was completed with the utmost care and our extensive expertise in carrying out assessments. ECOH believes that the information collected during the assessment concerning the Work Area is reliable. No other warranties are implied or expressed. ECOH, to the best of its knowledge, believes this report to be accurate, however, ECOH cannot guarantee the completeness or accuracy of information supplied to ECOH by third parties. It should also be noted that any investigation regarding the presence of hazardous materials in the work area is based on interpretation of conditions determined at specific sampling locations, and conditions may vary between sampling locations.

ECOH is an Environmental Consulting Company and as such any results or conclusions presented in this report should not be construed as legal advice. The material in this report

reflects ECOH's professional interpretation of information available at the time of report preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. ECOH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Should additional information become available that suggests other environmental issues of concern beyond that described in this report, ECOH retains the right to review this information and modify conclusions and recommendations presented in this report accordingly.

5. CLOSURE

We trust that the information contained in this report meets your requirements. If you require additional information, please do not hesitate to contact the undersigned.

ECOH
Environmental Consulting
Occupational Health



Steve Bizi
Senior Project Manager

Appendix I: Results of Bulk Sample Analysis for Asbestos & Lead



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3

Tel/Fax: (289) 997-4602 / (289) 997-4607

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

EMSL Canada Order: 552400315

Customer ID: 55ECOH45

Customer PO: PRJ-28129-02

Project ID:

Attention: Andrew Walsh
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3

Phone: (905) 795-2800

Fax: (905) 795-2870

Received Date: 01/10/2024 12:31 PM

Analysis Date: 01/17/2024

Collected Date: 01/09/2024

Project: PRJ-28129-02 Rexdale Community Hub Stage Bulk Sampling

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28129-02-ASB- 01A <small>552400315-0001</small>	Drywall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-02-ASB- 01B <small>552400315-0002</small>	Drywall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-02-ASB- 01C <small>552400315-0003</small>	Drywall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Ashley Brito (2)

Hassan Moeez (1)

Matthew Davis or other approved signatory
or Other Approved Signatory

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

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 01/17/2024 13:21:34



Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only):*

552400315

EMSL CANADA, INC.
2756 SLOUGH STREET
MISSISSAUGA, ON L4T 1G3
PHONE: (289) 997-4602
FAX: (289) 997-4609

Company: ECOH		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 75 Courtney Park Dr. W., Unit 1		<i>Third Party Billing requires written authorization from third party</i>	
City: Mississauga	State/Province: Ontario	Zip/Postal Code: L5W 0E3	Country: Canada
Report To (Name): Andrew Walsh		Fax #: 905-795-2870	
Telephone #: 905.795.2800		Email Address: awalsh@ecoh.ca, sbizi@ecoh.ca	
Project Name/Number: PRJ-28129-02 Rexdale Community Hub Stage Bulk Sampling			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken:
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> 24 Hrs	<input type="checkbox"/> 48 Hrs
<input type="checkbox"/> 3 Days	<input type="checkbox"/> 4 Days	<input checked="" type="checkbox"/> 5 Days	<input type="checkbox"/> 10 Days
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA 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.</small>			
PCM - Air <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 checked="" type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravometric <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 198-1 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Air <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 Fibres > 10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fibre 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) Soil/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"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name: Andrew Walsh		Samplers Signature: AW	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
28129-02-ASB- 01A	Drywall Joint Compound	Bulk	January 9, 2023
28129-02-ASB- 01B	Drywall Joint Compound	Bulk	January 9, 2023
28129-02-ASB- 01C	Drywall Joint Compound	Bulk	January 9, 2023
Client Sample # (s):	28129-ASB-01A - 01C	Total # of Samples:	3
Relinquished (Client):	Andrew Walsh	Date:	January 10, 2024
Received (Lab):	LAB 55/KC	Date:	1/10/24
Comments/Special Instructions:	Positive Stop		

RECEIVED
 EMSL CANADA, INC.
 1/10/24 12:31 PM
 1/DB



EMSL Canada Inc.

2756 Slough Street, Mississauga, ON L4T 1G3

Phone/Fax: (289) 997-4602 / (289) 997-4607

<http://www.EMSL.com>

torontolab@emsl.com

EMSL Canada Or 552400307
CustomerID: 55ECOH45
CustomerPO: PRJ-28129-02
ProjectID:

Attn: **Andrew Walsh**
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3

Phone: (905) 795-2800
Fax: (905) 795-2870
Received: 1/10/2024 12:31 PM
Collected: 1/9/2024

Project: **PRJ-28129-02 Rexdale Community Hub Stage Bulk Sampling**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
28129-02-Pb-01	1/9/2024	1/11/2024	0.2536 g	80 ppm	580 ppm
552400307-0001	Site: Yellow Paint on Drywall Walls				

Rowena Fanto, Lead Supervisor
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA LAP, LLC-ELLAP Accredited #196142

Initial report from 01/17/2024 08:45:37



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

552 400 307

EMSL CANADA, INC.
2756 SLOUGH STREET
MISSISSAUGA, ON L4T 1G3
PHONE: (289) 997-4602
FAX: (289) 997-4609

Company: ECOH		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: 75 Courtney Park Dr. W., Unit 1		Third Party Billing requires written authorization from third party		
City: Mississauga	State/Province: Ontario	Zip/Postal Code: L5W 0E3	Country: Canada	
Report To (Name): Andrew Walsh		Telephone #: 647-270-5480		
Email Address: awalsh@ecoh.ca, sbizi@ecoh.ca		Fax #: 905-795-2870	Purchase Order:	
Project Name/Number: PRJ-28129-02 Rexdale Community Hub Stage B		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input checked="" type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non-ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH <2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH <2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.0031mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: Andrew Walsh		Signature of Sampler: AW		
Sample #	Location	Volume/Area	Date/Time Sampled	
28129-02-Pb- 01	Yellow Paint on Drywall Walls	N/A	January 9, 2024	
Client Sample # (s):	28129-02-Pb-01 -	Total # of Samples:	1	
Relinquished (Client):	Andrew Walsh	Date:	Time:	
Received (Lab):	LAB 55/AC	Date: 1/10/24	Time: 12:31pm	
Comments/Special Instructions:				