

Designated Substance Survey Report

41 Jackson St., W.

Hamilton, Ontario



City of Hamilton Attention: Jarrett Zacharko 71 Main Street West Hamilton, ON L8P 4Y5

Project: C6084

September 30, 2024

IES CONSULTING GROUP INC. (519) 256-8388 ■ www.IESconsulting.ca

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ATTACHMENTS

Attachment 1: Asbestos Results - Certificate of Analysis Attachment 2: Lead Results - Certificate of Analysis Attachment 3: Drawings Attachment 4: Photo Appendix

1.0 INTRODUCTION

IES Consulting Group Inc. (IES) was retained by Mr. Jarrett Zacharko of the City of Hamilton to perform a partial Designated Substance Survey of the commercial building located at 41 Jackson Street West in Hamilton, Ontario. The assessment was conducted on Tuesday, September 17, 2024.

The assessment consisted of bulk sampling of suspect asbestos and leadcontaining materials present that will be disturbed by the renovation scope of work. The property was occupied at the time of the assessment. The building consists of two floors with a basement.

This document provides an Executive Summary, Summary of Findings, Sampling Methodology, Findings, Legislation, Drawings, Recommendations and Limitations.

2.0 EXECUTIVE SUMMARY

Asbestos-containing materials (ACM) were present as follows:

- Parging cement on pipe fittings; and
- Aircell insulation on pipe straights.

The laboratory analytical findings for asbestos are attached to this report and found under Attachment 1 (if applicable). Findings are also discussed in Section 4.0 of this report.

Lead-containing materials were present as follows:

- Lead was confirmed present in select paints/surface coatings in the assessed areas;
- Lead is likely present in emergency light batteries in the assessed areas; and
- Lead may be present in ceramic tiles, tile grout and plumbing materials such as solder and in other metals in the assessed areas.

The laboratory analytical findings for lead are attached to this report and found under Attachment 2 (if applicable). Findings are also discussed in Section 4.0 of this report.

Mercury-containing materials were present as follows:

• Mercury vapour is likely present in fluorescent type lamps throughout the building. Mercury may also be present as a preservative in paints.

Silica containing materials were present as follows:

• Crystalline silica is present in concrete, mortar, brick, masonry, ceramics, granite, slate, stone, asphalt, etc., where present in the assessed areas.

3.0 SAMPLING METHODOLOGY

3.1 Asbestos

Asbestos samples were collected in accordance with Table 1 of Ontario Regulation 278/05.

Each bulk sample was placed in its own uniquely identified plastic bag and immediately sealed. The sample was immediately recorded on a chain of custody sheet. Samples collected were couriered to an accredited laboratory for the analysis of asbestos. A copy of the laboratory reports can be found under Attachment 1 (if applicable).

Samples collected were sent to the laboratory and analyzed as per method EPA/600/R-93/116 – PLM. A minimum of three (3) homogeneous samples were collected of the same materials and uniquely identified with an identifying mark ending in "A", "B", or "C", etc. The laboratory was instructed to analyze the sample marked "A" first. Where the sample tested positive for asbestos, the laboratory was instructed not to analyze the balance of the three (or more) samples as the material sampled would be considered positive for the presence of asbestos.

ltem	Type of material	Size of area of homogeneous material	Minimum number of bulk material samples to be collected
1.	Surfacing material, including without limitation material that is applied to surfaces by spraying, by troweling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	Less than 90 square metres	3
		90 or more square metres, but less than 450 square metres	5
		450 or more square metres	7
2.	Thermal insulation, except as described in item 3	Any size	3
3.	Thermal insulation patch	Less than 2 linear metres or 0.5 square metres	1
4.	Other material	Any size	3

The table found below lists the number of samples to be collected in accordance with Ontario Regulation 278/05.

O. Reg. 278/05, Table 1.

The following items were not included in the survey:

Materials	Reason for exclusion from survey
Components or wiring within motors, HVAC equipment or lights Electrical wiring and switches Mechanical packing and gaskets Underground services or piping Process pipe gaskets Electrical fixtures	These materials are not typically accessible without demolition and therefore cannot be quantified or sampled.

3.2 Lead

Lead samples were collected of paint colours identified in the assessed areas.

Lead samples were immediately recorded on a chain of custody sheet and subsequently submitted to Paracel Laboratories, a NVLAP accredited laboratory, for analysis. The analysis was performed in accordance with Test Method MOE E3470, ICP-OES.

4.0 FINDINGS

4.1 Asbestos

4.1.1 Mechanical Insulations

Three (3) samples of parging cement insulation present on pipe fittings throughout the Basement Level of the building were collected and analyzed for asbestos content (samples 0004 A-C). The parging cement insulation has been analytically determined to contain **chrysotile asbestos**. Parging cement insulation is a friable material. The chart below details locations, conditions and approximate quantities:

Location	Approximate Quantity of Fitting			
Location	Good	Fair	Poor	
Kitchenette (Location 5)	8 EA			
Office (Location 6)	6 EA			

*It is important to note that further insulation may be present in concealed cavities or chases.

Three (3) samples of aircell insulation present on pipe straights throughout the Basement Level of the building were collected and analyzed for asbestos content (samples 0005 A-C). The aircell insulation has been analytically determined to contain **chrysotile asbestos**. Aircell insulation is a friable material. The chart below details locations, conditions and approximate quantities:

Location	Approximate Linear Footage			
Location	Good	Fair	Poor	
Kitchenette (Location 5)	15 LF			
Office (Location 6)	20 LF			

*It is important to note that further insulation may be present in concealed cavities or chases.

All other accessible mechanical insulations observed were comprised of fiberglass or uninsulated in the assessed areas of the building.

4.1.2 Plaster

Three (3) samples of plaster present throughout the Main Level of the building were collected and analyzed for asbestos content (samples 0001 A-C). The plaster has been analytically determined to be non-asbestos.

Three (3) samples of plaster present throughout the Basement Level of the building were collected and analyzed for asbestos content (samples 0003 A-C). The plaster has been analytically determined to be non-asbestos.

4.1.3 Texture Coating

No suspect texture coat materials were observed in the assessed areas of the building.

4.1.4 Drywall Joint Compound

No suspect drywall joint compound was observed in the assessed areas of the building.

4.1.5 Acoustic Ceiling Tile

No suspect acoustical ceiling tiles were observed in the assessed areas of the building.

4.1.6 Vinyl Floor Tile

Three (3) samples of 12" x 12" beige with brown and white flecks vinyl floor tile and mastic adhesive (VFT-01) present in the Basement Hallway (Location 4) were collected and analyzed for asbestos content (samples 0002 A-C). Both the vinyl floor tile and mastic adhesive have been analytically determined to be non-asbestos.

4.1.7 Vinyl Sheet Flooring

No suspect vinyl sheet flooring materials were observed in the assessed areas of the building.

4.1.8 Transite Cement

No suspect transite materials were observed in the assessed areas of the building.

4.1.9 Grout/Thinset Associated with Tile

No suspect grout/thinset associated with tile materials were observed in the assessed areas of the building.

4.1.10 Other

No other materials suspected of containing asbestos were observed in the assessed areas of the building.

Roofing and exterior caulking type materials were not sampled as IES was advised the exterior and roof of the building will not be impacted by the scope of renovation.

No vermiculite was observed in the locations inspected. Destructive inspection was not performed as IES was advised the exterior walls will not be impacted by the scope of work.

No fire doors were observed in the assessed locations of the building.

Assume any materials alike in appearance to materials determined asbestoscontaining materials in other locations to be asbestos-containing.

Photographs referencing sampled materials are presented in Attachment 4 (if applicable).

The Certificate of Analysis prepared by the laboratory can be referenced under Attachment 1 (if applicable).

4.2 Lead

A total of three (3) paint samples were collected from the assessed areas and sent to Paracel Laboratories for analysis. The following table summarizes the analytical results for paints sampled and their locations:

Sample Number	Colour and Substrate	Sample Location	Lead (%)
PL-01	White Paint on Main Level Ceiling	Main Floor Washroom - Location 3	<0.0005
PL-02	White Paint on Basement Walls	Kitchenette – Location 5	0.0047
PL-03	Grey Paint on Basement Floor	Kitchenette - Location 5	0.121

*In chemistry, there is a minimum analytical detection limit (MDL) for most substances to be analyzed by the laboratory. When the sampled ingredient is not identified on the collected sample, a less than symbol (<) is shown beside the laboratory findings.

The grey paint present on the concrete floor in the Kitchenette is in poor condition (peeling and flaking).

All other paints in the assessed areas were found to be in reasonable condition and not peeling, flaking or delaminating.

All paints of the same colour in the assessed areas must be considered to have the same lead content as the paints analyzed.

Although not tested it is assumed that plumbing solder, emergency batteries, and some metal materials also contain lead.

Analytical findings identifying greater than 0.1% lead content in paint indicates the paint has the potential to create a hazard to humans or the environment in certain conditions. See Section 5.0 for further details.

The Certificate of Analysis prepared by Paracel Laboratories can be referenced under Attachment 2 (if applicable).

4.3 Mercury

Mercury-containing equipment or components were not observed in the assessed areas of the building.

Fluorescent lamp tubes, and rechargeable batteries (used in emergency lighting) will often contain mercury. Mercury may also be present as a preservative in interior paints. Unless sampled these items should be assumed to contain mercury.

4.4 Silica

Silica is commonly found in concrete, mortar, brick, masonry, ceramics, granite, slate, stone, asphalt, etc., where present in the assessed areas. It is assumed that

concrete block walls and foundation, mortar, and like materials will contain crystalline silica.

4.5 Acrylonitrile

No locations were observed that use a product likely to contain acrylonitrile compounds in a regulated form.

4.6 Arsenic

No locations were observed where arsenic in regulated form was confirmed to be present, produced, processed, used, handled or stored.

4.7 Benzene

No locations were observed where benzene was confirmed to be present.

4.8 Coke Oven Emissions

No locations were observed where metallurgical coke ovens were present.

4.9 Ethylene Oxide

No locations were observed where ethylene oxide was confirmed to be present.

4.10 Isocyanates

No locations were observed where activities using or generating isocyanates in a regulated form were confirmed to be present.

4.11 Vinyl Chloride

No locations were observed where vinyl chloride was confirmed to be present, produced, processed, used, handled or stored.

4.12 Other

No significant quantity of household cleaners or chemicals were observed. Any chemicals identified must be handled and/or disposed of in compliance with local bylaws and applicable regulations.

5.0 LEGISLATION

The most common designated substances encountered in a building are asbestos, lead, mercury and silica.

Under Ontario Regulation 278/05, asbestos containing material (ACMs) is defined as material that contains 0.5% or more asbestos content by dry weight. An exposure value for asbestos in air can be referenced under Ontario Regulation 490/09. An employer / contractor working with asbestos-containing materials has the responsibility to take all necessary measures and procedures by means of engineering controls, work practices and hygiene facilities and practices to ensure that a worker's airborne exposure to asbestos is reduced to the lowest practical level and, in any event, does not exceed the legislative time weighted average. Ontario Regulation 278/05 also states an exposure value for asbestos in air upon completion of a Type 3 asbestos abatement.

The definition of lead-based paint by weight is not defined under Ontario Regulation 490/09. It must be noted that there are legislative exposure values for lead in air which are found under Ontario Regulation 490/09. An employer / contractor working with paint containing lead has the responsibility to take all necessary measures and procedures by means of engineering controls, work practices and hygiene facilities and practices to ensure that a worker's airborne exposure to lead is reduced to the lowest practical level and, in any event, does not exceed the legislative time weighted average. The Ontario Ministry of Labour has published a guideline titled Lead on Construction Projects. The publication contains guidance on how to perform work where materials are present that contain lead. The Environmental Abatement Council of Canada (EACC) provides a "De Minimis" (virtually safe) level of lead in paint of 0.1% lead by weight. As even newer paints can legally contain up to 0.009% lead by weight, utilizing the De Minimis level prevents undue expense and abatement efforts while also protecting the workers involved in the disturbance of painted surfaces. For further information regarding the De Minimis level of lead in paint, please refer to the "Lead Guideline" For Construction, Renovation, Maintenance or Repair" prepared and distributed by the Environmental Abatement Council of Ontario.

The definition of mercury and silica-containing materials by weight is not provided in Regulation 490/09. Like lead, there are legislative exposure values for silica and mercury in air which are found under Ontario Regulation 490/09. An employer / contractor working with mercury and silica have the responsibility to take all necessary measures and procedures by means of engineering controls, work practices and hygiene facilities and practices to ensure that a worker's airborne exposure to mercury and silica is reduced to the lowest practical level and, in any event, does not exceed the legislative time weighted average.

6.0 DRAWINGS

Drawings referencing survey and sample locations are presented in Attachment 3 (if applicable).

7.0 **RECOMMENDATIONS**

7.1 General Recommendations

The following is a summary of our recommendations:

- 1. Provide a copy of this report to contractors bidding on, or performing work on, this building.
- 2. If applicable, where asbestos-containing materials are not completely abated from the building, prepare an Asbestos Management Program (AMP).
- 3. If applicable, where asbestos-containing materials are not completely abated from the building, perform a reassessment of asbestos-containing materials on a minimum of an annual basis.
- 4. Designated Substances shall be transported and disposed of following all applicable Regulations and Guidelines.
- 5. Follow all appropriate safe work practices when handling, disposing of or disturbing any designated substances.

7.2 Asbestos Abatement Operations

Remove any asbestos-containing materials, utilizing the appropriate asbestos abatement precautions, prior to renovations that may impact these materials, or where damage is observed.

7.2.1 Parging Cement

- 1. Less than 1 square meter of asbestos-containing parging cement shall be abated utilizing Type 2 asbestos abatement precautions, as outlined in Ontario Regulation 278/05.
- 2. Greater than 1 square meter of asbestos-containing parging cement shall be abated utilizing Type 3 asbestos abatement precautions, as outlined in Ontario Regulation 278/05.

7.2.2 Aircell Insulation

1. Less than 1 square meter of asbestos-containing aircell insulation shall be abated utilizing Type 2 asbestos abatement precautions, as outlined in Ontario Regulation 278/05.

2. Greater than 1 square meter of asbestos-containing aircell insulation shall be abated utilizing Type 3 asbestos abatement precautions, as outlined in Ontario Regulation 278/05.

For further details on the requirements and procedures regarding asbestos abatement, please refer to Ontario Regulation 278/05.

7.3 Lead

For details on the requirements and procedures regarding lead removal, please refer to Ontario Regulation 490/09, Ontario Regulation 213/91 and the Ministry of Labour prepared – Lead on Construction Projects Guideline.

7.4 Mercury

For details on the requirements and procedures regarding removal of mercurycontaining equipment or components, please refer to Ontario Regulation 490/09 and Ontario Regulation 213/91.

7.5 Silica

For details on the requirements and procedures regarding the disturbance of silicacontaining dust, please refer to Ontario Regulation 490/09, Ontario Regulation 213/91 and the Ministry of Labour prepared – Silica on Construction Projects Guideline.

8.0 LIMITATIONS

The field observations and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings presented in this report. IES warrants that the findings and conclusions contained herein have been made in accordance with generally accepted evaluation methods at the time of the performance of the survey. It is possible that conditions may exist which could not be reasonably identified within the scope of the investigation or which were not apparent during the site investigation. IES believes that the information collected during the survey is reliable. No other warranties are expressed or implied.

This survey did not include occupant articles within the building and did not include assessment of possible contaminants in the soil, groundwater or any underground drums, vessel, storage tanks, etc. There may be tunnels, chases or other areas present that were not made known to IES.

Any quantities presented in this report are approximate and are provided for informational purposes only. Any contractor performing work or providing costing or quotations based on this report is responsible for verifying all site conditions, including quantities, prior to bid submission. Any use which a third party makes of this report, or any reliance on or decisions to be based on it, are the responsibility of such third parties. IES accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Findings and conclusions liability is expressly limited to the value of the assignment budget and reliance solely to referenced client.

8.1 Asbestos

Due to the nature of building construction, some inherent limitations exist as to the possible thoroughness of the assessment. For example, it was not possible to test all materials on a foot-by-foot basis. Visually similar materials were referenced to specific sample locations.

The assessment was limited to the materials sampled and did not include demolition of cement floors or other demolition to examine concealed or nonaccessible conditions.

There is a possibility that asbestos-containing materials (as well as other designated substances or hazardous materials) may exist which could not be reasonably identified within the scope of the assessment or which were not apparent during the site visit.

8.2 Lead

Due to the nature of building construction, some inherent limitations exist as to the possible thoroughness of the assessment. For example, it was not possible to test all materials on a foot-by-foot basis. Solder containing lead that may be present in plumbing or other metals was not tested. Ceramic tiles and tile grouts may contain lead. Batteries, such as those used for emergency lighting were not tested and are assumed to contain lead. Visually similar materials were referenced to specific sample locations. There is a possibility that dried paint film and other materials containing lead (as well as other designated or other hazardous substances) may exist in inaccessible cavities which could not be reasonably identified within the scope of the assessment or which were not apparent during the site visit.

8.3 Mercury

The survey did not include sample collection of suspect mercury-containing materials, as it was not part of the scope of work to disassemble devices that may contain mercury.

8.4 Silica

The survey did not include sample collection of suspect silica-containing materials as this was not part of the scope of work.

9.0 CLOSING

Should there be any questions regarding the contents of this report, please contact us at 519-256-8388 at your convenience.

Sincerely,

IES Consulting Group Inc.

Richard Croft Environmental Technician rcroft@iesconsulting.ca

Paige Sarafin M.Sc. Environmental Lead psarafin@iesconsulting.ca

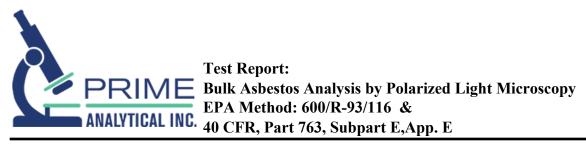
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his host

Chris Croft, CRSP, COHS, CAPM, MCPM Technical Lead, Operations Manager ccroft@iesconsulting.ca

Attachment 1 Certificate of Analysis – Asbestos Laboratory Analysis (If Applicable)



Prime Analytical Inc. • 707 Kipling Ave, Etobicoke, ON M8Z 5G4 • (T) 647-348-1400 http://www.primeanalytical.com • contact@primeanalytical.com

21027 Ch Charing (oft sulting Group haring Cross Cross, ON PO Box: 50			Lab II Date Received	e: 519-256-8388 D: PLM24395 d: Sep 26, 2024 d: Sep 26, 2024
Project: C60	84				
-	le ID: 0001A Location: Plas	ster Main Level		Date Analyzed	1: 2024-09-26
			Other M	Materials	
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes
PLM24395-1A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized
•	le ID: 0001B Location: Plas	ster Main Level		-	1 : 2024-09-26
				Materials	
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes
PLM24395-2A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized
Client Samp	le ID: 0001C			Date Analyzed	1 : 2024-09-26
Description/	Location: Plas	ster Main Level			
				Materials	
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes
PLM24395-3A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized
-	le ID: 0002A	ster Basement Lev		Date Analyzed	1 : 2024-09-26

Description/Location: Plaster Basement Level

		Other Materials				
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes	
PLM24395-4A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized	

Disclaimer: The results are only related to the samples reported above as received and may not be reproduced, except in full, without written approval by Prime Analytical Inc. Non-Detected (ND)= <0.5%. We recommend that analysis of floor tiles, verniculite and/or heterogeneous soil samples be conducted by TEM for confirmation of "Non-Detected" by PLM. Prime Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or handling prior to receipt at the laboratory. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. The test report should not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other agency of the U.S. Government. Estimated uncertainty of measurement data is available upon request. Samples will be disposed of 90 days after the results have been reported.

Client Sample ID: 0002B

Description/Location: Plaster Basement Level

			Other Materials			
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes	
PLM24395-5A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized	

Client Sample ID: 0002C

Description/Location: Plaster Basement Level

Date Analyzed: 2024-09-26

Date Analyzed: 2024-09-26

		Other Materials			
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes
PLM24395-6A	White-Grey Non-Fibrous Homogeneous	Non Detect		Other 100%	Sample Homogenized

Client Sample ID: 0003A

Description/Location: VFT-01

Other Materials Fibrous Non-Fibrous Notes Lab # Appearance Asbestos Other 100% Floor Tile PLM24395-7A Brown Non Detect Non-Fibrous Homogeneous Non Detect Other 100% PLM24395-7B Black Mastic Non-Fibrous Homogeneous

Client Sample ID: 0003B

Description/Location: VFT-01

		Other Materials				
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes	
PLM24395-8A	Brown Non-Fibrous Homogeneous	Non Detect		Other 100%	Floor Tile	
PLM24395-8B	Black Non-Fibrous Homogeneous	Non Detect		Other 100%	Mastic	

Client Sample ID: 0003C

Description/Location: VFT-01

		Other Materials				
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous	Notes	
PLM24395-9A	Brown Non-Fibrous Homogeneous	Non Detect		Other 100%	Floor Tile	
PLM24395-9B	Black Non-Fibrous Homogeneous	Non Detect		Other 100%	Mastic	

Disclaimer: The results are only related to the samples reported above as received and may not be reproduced, except in full, without written approval by Prime Analytical Inc. Non-Detected (ND)= <0.5%. We recommend that analysis of floor tiles, vermiculite and/or heterogeneous soil samples be conducted by TEM for confirmation of "Non-Detected" by PLM. Prime Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or handling prior to receipt at the laboratory. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. The test report should not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other agency of the U.S. Government. Estimated uncertainty of measurement data is available upon request. Samples will be disposed of 90 days after the results have been reported.

Date Analyzed: 2024-09-26

Date Analyzed: 2024-09-26

Date Analyzed: 2024-09-26

Client Samp	le ID: 0004A			Date Analyzed: 2024-09-26
Description/	Location: Pare	ging Cement on pip	e Fittings	
•			-	laterials
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous Notes
PLM24395-10A		60% Chrysotile		Other 40%
FLIVI24395-10A	Fibrous	60 % Chi ySothe		
	Homogeneous			
Client Samp	le ID: 0004B			Date Analyzed: 2024-09-26
Description/	Location: Pare	ging Cement on pip	e Fittings	
			Other N	laterials
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous Notes
PLM24395-11A		Positive Stop		
Client Samp	le ID: 0004C			Date Analyzed: 2024-09-26
Description/	Location: Pare	ging Cement on pip	e Fittings	
			Other N	laterials
Lab #	Appearance	Asbestos	Fibrous	Non-Fibrous Notes
PLM24395-12A		Positive Stop		
Client Samn				Data Analyzad: 2024 00 26
-	le ID: 0005A	aina Comont on nin	o Straighta	Date Analyzed: 2024-09-26
-		ging Cement on pip		_
Description/	Location: Par		Other N	laterials
Description/	Location: Par Appearance	Asbestos		laterials Non-Fibrous Notes
Description/	Location: Pare Appearance White		Other N	laterials
Description/	Location: Par Appearance	Asbestos	Other N	laterials Non-Fibrous Notes
Description/	Location: Pare Appearance White Fibrous	Asbestos	Other N	laterials Non-Fibrous Notes
Description/ Lab # PLM24395-13A	Location: Pare Appearance White Fibrous	Asbestos	Other N	laterials Non-Fibrous Notes
Description/ Lab # PLM24395-13A Client Samp	Location: Pare Appearance White Fibrous Homogeneous	Asbestos	Other M Fibrous	Iaterials Non-Fibrous Notes Other 40%
Description/ Lab # PLM24395-13A Client Samp	Location: Pare Appearance White Fibrous Homogeneous	Asbestos 60% Chrysotile	Other M Fibrous e Straights	Iaterials Non-Fibrous Notes Other 40%
Description/ Lab # PLM24395-13A Client Samp	Location: Pare Appearance White Fibrous Homogeneous	Asbestos 60% Chrysotile ging Cement on pip	Other M Fibrous e Straights	Iaterials Non-Fibrous Notes Other 40% Date Analyzed: 2024-09-26
Description/ Lab # PLM24395-13A Client Samp Description/	Location: Par Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Par Appearance	Asbestos 60% Chrysotile ging Cement on pip	Other M Fibrous e Straights Other M	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials
Description/ Lab # PLM24395-13A Client Samp Description/ Lab # PLM24395-14A	Location: Pare Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Pare Appearance	Asbestos 60% Chrysotile ging Cement on pip Asbestos	Other M Fibrous e Straights Other M	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials Non-Fibrous Notes
Description/ Lab # PLM24395-13A Client Samp Description/ Lab # PLM24395-14A Client Samp	Location: Pars Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Pars Appearance	Asbestos 60% Chrysotile ging Cement on pip Asbestos Positive Stop	Other M Fibrous e Straights Other M Fibrous	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials
Description/ Lab # PLM24395-13A Client Samp Description/ Lab # PLM24395-14A Client Samp	Location: Pars Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Pars Appearance	Asbestos 60% Chrysotile ging Cement on pip Asbestos	Other M Fibrous e Straights Other M Fibrous e Straights	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials Non-Fibrous Notes Date Analyzed: 2024-09-26
Description/ Lab # PLM24395-13A Client Samp Description/ Lab # PLM24395-14A Client Samp Description/	Location: Pars Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Pars Appearance Ie ID: 0005C Location: Pars	Asbestos 60% Chrysotile ging Cement on pip Asbestos Positive Stop	Other M Fibrous e Straights Other M Fibrous e Straights Other M	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials Non-Fibrous Notes Date Analyzed: 2024-09-26 Iaterials Notes Iaterials Notes
Description/ Lab # PLM24395-13A Client Samp Description/ Lab # PLM24395-14A Client Samp	Location: Pars Appearance White Fibrous Homogeneous Ie ID: 0005B Location: Pars Appearance	Asbestos 60% Chrysotile ging Cement on pip Asbestos Positive Stop	Other M Fibrous e Straights Other M Fibrous e Straights	Iaterials Non-Fibrous Notes Other 40% Other 40% Date Analyzed: 2024-09-26 Iaterials Non-Fibrous Notes Date Analyzed: 2024-09-26

Analyst(s)

Theo Madill (14)

PLM24395

Approved Signature

Disclaimer: The results are only related to the samples reported above as received and may not be reproduced, except in full, without written approval by Prime Analytical Inc. Non-Detected (ND)= <0.5%. We recommend that analysis of floor tiles, vermiculite and/or heterogeneous soil samples be conducted by TEM for confirmation of "Non-Detected" by PLM. Prime Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or handling prior to receipt at the laboratory. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. The test report should not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other agency of the U.S. Government. Estimated uncertainty of measurement data is available upon request. Samples will be disposed of 90 days after the results have been reported. Attachment 2 Certificate of Analysis – Lead Laboratory Analysis (If Applicable)



RELIABLE.

351 Nash Road North, unit 9B Hamilton, ON L8H 7P4 1-800-749-1947 www.paracellabs.com

Certificate of Analysis

IES Consulting Group Inc.

21027 Charing Cross Rd. Charing Cross, ON NOP 1G0 Attn: Chris Croft

Client PO: C6084 Project: C6084 Custody:

Report Date: 23-Sep-2024 Order Date: 18-Sep-2024

Order #: 2438217

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID **Client ID** 2438217-01 PL-01 - White on Main Level Ceiling 2438217-02 PL-02 - White on Basement Walls 2438217-03 PL-03 - Grey on Basement Floor

Approved By:

Alex Enfield, MSc Lab Manager

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work



Certificate of Analysis Client: IES Consulting Group Inc. Client PO: C6084 Order #: 2438217

Report Date: 23-Sep-2024 Order Date: 18-Sep-2024

Project Description: C6084

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	20-Sep-24	20-Sep-24

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable ND: Not Detected MDL: Method Detection Limit Source Result: Data used as source for matrix and duplicate samples %REC: Percent recovery. RPD: Relative percent difference.



Certificate of Analysis Client: IES Consulting Group Inc. Client PO: C6084

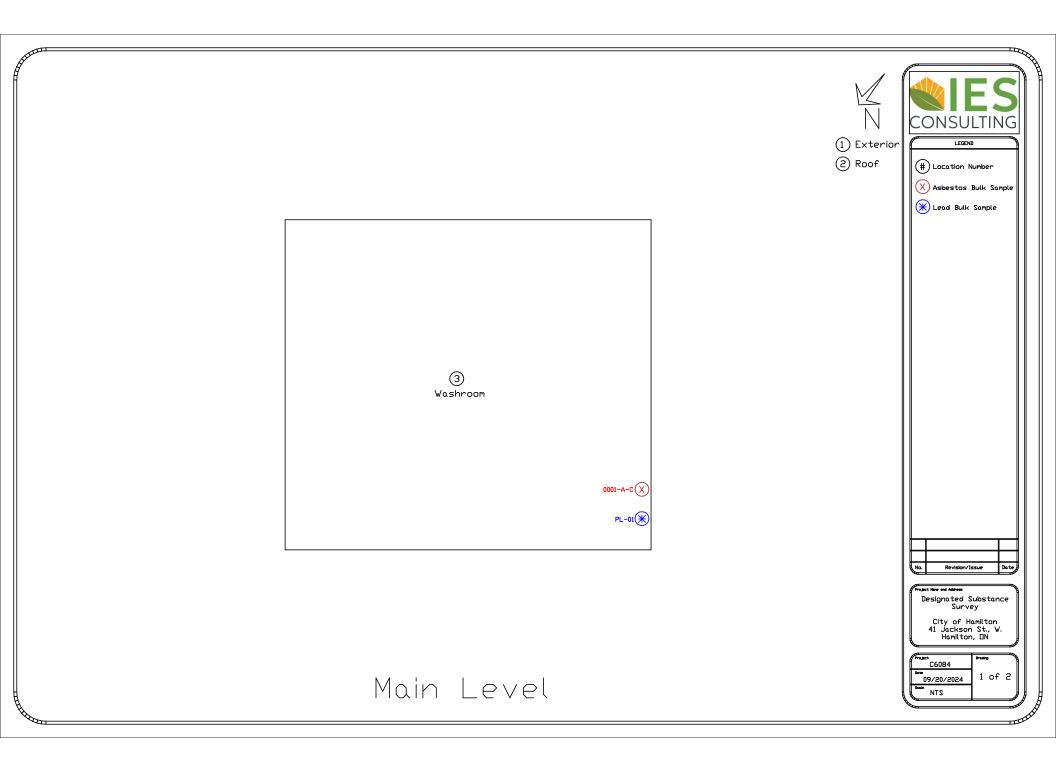
Sample Results

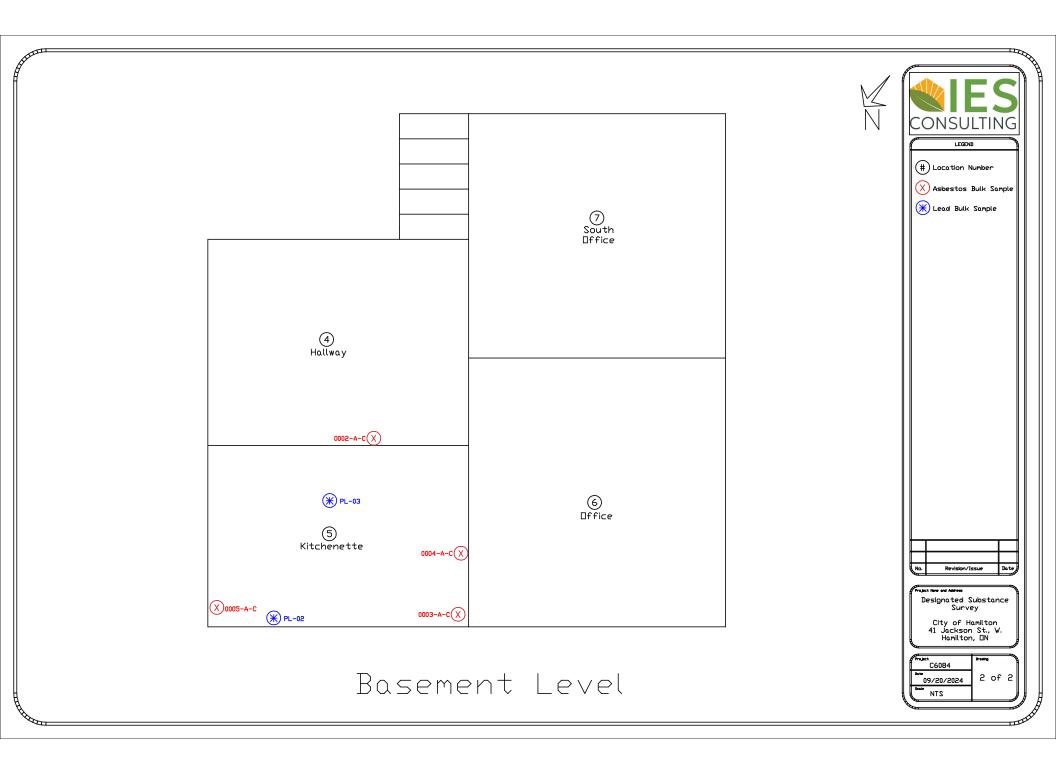
Lead Matri							
Paracel ID	Client ID	Sample Date Units		MDL	Result		
2438217-01	PL-01 - White on Main Level Ceiling	17-Sep-24	% by Wt.	0.0005	<0.0005		
2438217-02	PL-02 - White on Basement Walls	17-Sep-24	% by Wt.	0.0005	0.0047		
2438217-03	PL-03 - Grey on Basement Floor	17-Sep-24	% by Wt.	0.0005	0.121		

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	0.0005	% by Wt.						
Matrix Duplicate									
Lead	0.0304	0.0005	% by Wt.	0.0303			0.40	50	
Matrix Spike									
Lead	61.9	5.00	% by Wt.	12.1	99.7	70-130			

Attachment 3 Drawings (If Applicable)





Attachment 4 Photo Appendix (If Applicable)

