

### **CITY OF SASKATOON**

# Asbestos-Containing Building Materials Assessment Report -Victoria Park Riversdale Badminton and Tennis Club



### Submitted to:

The City of Saskatoon 1101 Avenue P North Saskatoon, SK S7L 7K6

Report Number: 1667963

Distribution:

One Copy: City of Saskatoon One Copy: Golder Associates Ltd.







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### 1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by the City of Saskatoon (the Client) to conduct an asbestos-containing building materials assessment of the Victoria Park Riversdale Badminton and Tennis Club (the Site) located at 810 Spadina Crescent West in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on June 8, 2017 and the assessment was conducted on June 13, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were identified within the Victoria Park Riversdale Badminton and Tennis Club during the assessment. Further information is provided in Section 3.0.

### 2.0 SCOPE OF WORK

In accordance with Tender 16-0844, Golder's scope of work included conducting an asbestos-containing building materials assessment of the Site to evaluate the quantities, locations, and conditions of asbestos-containing building materials.

Following the field work, Golder prepared this assessment report that includes laboratory analysis results, findings of the assessment, conclusions, and recommendations.

### 2.1 Asbestos-Containing Materials

The assessment involved a non-destructive inspection of the Site to assess the type and extent of suspect ACMs in the facility. The systems that were reviewed as part of the inspections included, but were not limited to:

- Structural systems including: insulation between solid webbed joists, fireproofing, building envelope, and interior/exterior caulking around windows and doors;
- Mechanical systems insulation including: hot water and steam system, condensate system, chilled water system, glycol system, domestic hot and cold water, emergency generator exhaust, boiler units, heat exchangers, and asbestos cement piping; and
- Architectural systems including: texture coats, sheet flooring, vinyl floor tile, acoustical spray-applied
  materials, condensation control applications, ceiling tile, wall board, drywall joint compound, and asbestos
  sheet products.

Systematic sampling of suspect ACMs was conducted as part of the assessment. Samples were submitted under chain of custody to International Asbestos Testing Laboratory Inc. (IATL) and analyzed for asbestos type and percentage content using Polarized Light Microscopy (PLM) in accordance with EPA methodologies (EPA 600/R-93/116).

Further information related to the assessment and sample collection methods can be found in the Golder document *Golder Asbestos Assessment General Survey Plan and Protocol* provided to the Client.





### 3.0 RESULTS AND DISCUSSION

The Victoria Park Riversdale Badminton and Tennis Club consists of numerous rooms, a bar, storage areas, mechanical rooms, and washrooms over three floors and was constructed in 1977. During the assessment, the entire building was treated as one functional space.

- The Laboratory Certificate of Analysis report for the bulk asbestos samples is included in Appendix A.
- Photographs collected during the assessment are provided in Appendix B.
- A room by room spreadsheet outlining the locations, quantities, friability, and condition of identified asbestos-containing materials as well as additional information is provided in Appendix C.
- Floor plans outlining the sample locations and locations of identified asbestos-containing materials is provided in Appendix D.
- Please refer to Sections 4.0 and 6.0 of this report for a summary of the limitations encountered.

### 3.1 Asbestos-Containing Materials

A total of twenty-nine (29) samples of building materials were collected and tested for asbestos content during the assessment of the Victoria Park Riversdale Badminton and Tennis Club. Four (4) of the samples were found to contain asbestos.

### 3.1.1 List of Identified Asbestos-Containing Materials

A list of the identified asbestos-containing materials is provided below.

- Drywall Joint Compound; and
- Black Window Caulking.

Further information on the identified asbestos-containing materials listed is provided below.

### **Drywall Joint Compound**

Seven (7) samples of drywall joint compound were collected during the assessment. Three of the samples collected were found to contain 2.1% to 2.8% Chrysotile asbestos. Asbestos-containing drywall joint compound (see Photograph 1 in Appendix B) was observed in the following location:

- Room 102 (approximately 250 ft²);
- Room 103 (approximately 65 ft<sup>2</sup>);
- Room 104 (approximately 275 ft²);
- Room 105 (approximately 475 ft<sup>2</sup>);
- Room 106 (approximately 270 ft<sup>2</sup>);
- Room 107 (approximately 900 ft<sup>2</sup>);
- Room 108 (approximately 300 ft²);
- Room 110 (approximately 175 ft²);





- Room 111 (approximately 500 ft²);
- Room 112 (approximately 500 ft²);
- Room 201 (approximately 50 ft<sup>2</sup>);
- Room 202 (approximately 375 ft²);
- Room 203 (approximately 1,175 ft<sup>2</sup>);
- Room 204 (approximately 450 ft<sup>2</sup>);
- Room 205 (approximately 500 ft²);
- Room 206 (approximately 225 ft²);
- Room 206 Washroom (approximately 225 ft²);
- Room 207 (approximately 325 ft²);
- Room 208 (approximately 500 ft<sup>2</sup>);
- Room 209/210 (approximately 475 ft²); and
- Men's Lower Level Change Room (approximately 1,250 ft²).

Additional asbestos-containing drywall joint compound may be located behind ceramic tiles, lockers and texture coats and above dropped ceilings throughout the site.

### **Black Window Caulking**

Two (2) samples of black window caulking were collected during the assessment. One of the samples collected was found to contain 1.6% Chrysotile asbestos. Asbestos-containing black window caulking (see Photograph 2 in Appendix B) was observed in the following location:

Room 101 (approximately 10 linear ft).

The remaining windows were observed to have black window caulking that was found to not contain asbestos.

### 3.1.2 Non Asbestos-Containing Materials

The following materials were sampled during this assessment and were found to not contain asbestos or were observed to be non-suspect materials:

- Ceiling texture coat;
- 1'x1' Ceiling tile with small pinholes;
- Grey duct mastic;
- Floor tile (pattern indistinguishable);
- 9"x9" Beige floor tile with brown streaks;
- Black floor tile mastic;
- Green vinyl sheet flooring;





- Black window caulking (excluding the caulking in the location listed above);
- Red firestop;
- Brick mortar;
- Grey building caulking;
- The 2'x4' ceiling tile with small pinholes and small divots were date coded to a time period in which asbestos use was not widespread; and
- The drain and mechanical lines were observed to be constructed of PVC or not insulated.

### 4.0 EXCLUDED AREAS AND MATERIALS

The following is a list of the areas and/or materials excluded during the assessment.

- Building materials accessible by a ten foot ladder were assessed by Golder during the assessment. Materials located at heights that were inaccessible from a ten foot ladder were not assessed. If materials at heights are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- Golder was unable to access the Storage Room of the Men's Lower Level Change Room during the assessment due to locked doors. If work activities are scheduled within this area, further sampling may be required. If building materials within this area are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The roof and associated components were not assessed by Golder during the assessment as per Tender 16-0844. If the roof and associated components are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the visual assessment and the laboratory analytical results, the following project specific conclusions and recommendations are provided.

### 5.1 Asbestos-Containing Materials

Asbestos was positively identified within the drywall joint compound and black window caulking on Site. Asbestos was not identified in the remaining samples collected and analyzed.

If the building is scheduled for renovations that will impact the identified asbestos-containing materials, it must be removed. If additional suspect asbestos-containing building materials are encountered during renovation activities, additional sampling should be undertaken to evaluate asbestos content.

Removal work should be completed by workers that are adequately trained in the hazards and proper methods of working with asbestos. Throughout the abatement activities, appropriate air monitoring and inspections should be conducted by a competent person to document that contamination is contained and that ACM are disposed of appropriately. Ensure asbestos waste is disposed of in accordance with the requirements of the Government of Saskatchewan.





All quantities listed in the report are approximate and are based on the conditions at the time of the assessment. Prior to abatement work it is recommended that a competent person conduct a review of the site to quantify and obtain all measurements of all building materials detailed in this report for cost estimating purposes.

In anticipation of potential abatement, Golder's recommendations for the asbestos-containing materials identified during the assessment are outlined below.

### **Drywall Joint Compound**

If scheduled for impact, asbestos-containing drywall joint compound should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the drywall joint compound was observed in good condition, and with a priority rating of 5 (please see the room by room spreadsheet provided in Appendix C for a description of the priority ratings), it can be managed in place if not scheduled for impact.

### **Black Window Caulking**

If scheduled for impact, asbestos-containing black window caulking should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the black window caulking was observed in good condition, and with a priority rating of 5 (please see the room by room spreadsheet provided in Appendix C for a description of the priority ratings), it can be managed in place if not scheduled for impact.

### 6.0 SURVEY LIMITATIONS

This report is based on data and information collected by Golder during the assessment conducted on June 13, 2017 and is based solely on site conditions encountered at the time of the assessment. Any use of this document or the findings, conclusions or recommendations provided in this report by any person other than the City of Saskatoon is at the sole risk of such user.

The conclusions and recommendations contained in this survey report are based upon professional opinions with regard to the subject matter. These opinions are in accordance with currently accepted environmental assessment standards and practices applicable to these locations and are subject to the following inherent limitations:

The data and findings presented in this report are valid as of the dates of the investigations. The passage of time, manifestation of latent conditions or occurrence of future events may warrant further exploration at the properties, analysis of the data, and re-evaluation of the findings, observations, and conclusions expressed in this report. No assurance is made regarding changes in conditions or practices subsequent to the time of the investigation. It was beyond the scope of this assessment to conduct a risk assessment and the potential health risks that may be associated with asbestos exposure for building occupants.

The data reported and the findings, observations and conclusions expressed in this report are limited by the Scope of Work. The Scope of Work was defined by Tender 16-0844 and the initial site walkthrough with the Client, the time and budgetary constraints imposed by the Client, and availability of access to the property.

Because of the limitations stated above, the findings, observations and conclusions expressed by Golder in this report are not, and must not be, considered an opinion concerning compliance of any past or present owner or operator of the site with any federal, provincial or local laws or regulations.





No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, and conclusions, which are based solely upon site conditions in existence at the time of investigation.

Golder's assessment reports present professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of federal, provincial, or local governmental agencies. Any use of the survey report constitutes acceptance of the limits of Golder's liability.

Golder's liability extends only to its client and not to other parties who may obtain this survey report. Issues raised by the report must be reviewed by appropriate legal counsel.

### 7.0 CLOSURE

We trust the information presented in this report meets your requirements. If you have any questions please contact Kody Henderson at (780) 483-3499 or email at <a href="mailto:kody\_henderson@golder.com">kody\_henderson@golder.com</a>. Thank you for the opportunity to be of service. We look forward to working with you again in the future.



## **Report Signature Page**

**GOLDER ASSOCIATES LTD.** 

Prepared by:

Reviewed by:

Kody Henderson, Dipl. Env. Sci., CRSP OHS Project Manager

Andrew Grant, B.Sc., P.Eng., EP, CRSP Associate, OHS Project Director

KH/AG/ba

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# **APPENDIX A**

**Laboratory Certificate of Analysis Report** 





9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449 Email: customerservice@iatl.com

## **CERTIFICATE OF ANALYSIS**

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

Report Date: 6/29/2017

Report No.: 539484 - PLM

**Project:** City of Saskatoon - Lawn Bowling Clubhouse

Project No.: 1667963

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6271468 **Description:** White Joint Compound Location: Room 101

Client No.: A-001 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271469 **Description:** White Joint Compound **Location:** Room 101

Client No.: A-002 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271470 **Description:** White Ceiling Texture **Location:** Room 101

Client No.: A-003 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271471 **Description:** White Joint Compound **Location:** Room 102

Client No.: A-004 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected

None Detected

**Lab No.:** 6271472 **Description:** Off-White Vinyl Sheet Flooring **Location:** Room 102

Client No.: A-005 **Facility:** 

Percent Non-Fibrous Material: Percent Asbestos: Percent Non-Asbestos Fibrous Material:

12 Cellulose None Detected

3 Fibrous Glass

**Lab No.:** 6271472(L2) **Description:** Tan Mastic Location: Room 102

Client No.: A-005 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271473 **Description:** White Ceiling Texture **Location:** Room 102

Client No.: A-006 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

Page 1 of 4

None Detected None Detected 100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 6/21/2017

06/29/2017 **Date Analyzed:** 

Dated: 6/29/2017 5:47:40 PM

Signature:

Ellen Smith **Analyst:** 

Laboratory Director

Frank E. Ehrenfeld, III

Approved By:



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Report Date: 6/29/2017

Report No.: 539484 - PLM

**Project:** City of Saskatoon - Lawn Bowling Clubhouse

Project No.: 1667963

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6271474 **Description:** Gold Fibrous **Location:** Room 102

Client No.: A-007 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected PC 2.3 Chrysotile

**Lab No.:** 6271475 **Description:** White Joint Compound **Location:** Room 104

Client No.: A-008 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Description:** Lt Grey Vinyl Sheet Flooring **Lab No.:** 6271476 **Location:** Room 104

Client No.: A-009 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

20 Cellulose None Detected

2 Fibrous Glass

**Lab No.:** 6271476(L2) **Description:** Tan Mastic Location: Room 104

Client No.: A-009 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

1 Cellulose None Detected

**Lab No.:** 6271477 **Description:** White Ceiling Texture **Location:** Room 104

Client No.: A-010 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271478 **Location:** Room 103

**Description:** White Joint Compound

Client No.: A-011 **Facility:** Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6271479 **Description:** Brown Caulk **Location:** Exterior

Client No.: A-012 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

**Date Received:** 6/21/2017

06/29/2017 **Date Analyzed:** 

Signature:

Dated: 6/29/2017 5:47:40 PM

Ellen Smith **Analyst:** 

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 2 of 4



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Email: customerservice@iatl.com

### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 6/29/2017

16820 107 Ave Report No.: 539484 - PLM

**Project:** Edmonton AB T5P 4C3 City of Saskatoon - Lawn Bowling Clubhouse

Project No.: 1667963 Client: GOL572

## Appendix to Analytical Report

**Customer Contact:** 

Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Pete Lesniak Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials **Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### **Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

#### Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), **ELAP 198.4 (TEM-NOB)** 

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)>

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Dated: 6/29/2017 5:47:40 PM Page 3 of 4



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16820 107 Ave Report No.: 539484 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Lawn Bowling Clubhouse

**Project No.:** 1667963 Client: GOL572

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

#### **Recommendations for Vermiculite Analysis:**

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 **Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

Dated: 6/29/2017 5:47:40 PM Page 4 of 4

<sup>\*\*</sup>Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



# **APPENDIX B**

**Site Photographs** 





Photograph 1: Asbestos-Containing Drywall Joint Compound.



Photograph 2: Asbestos-Containing Black Window Caulking.





# **APPENDIX C**

**Room by Room Spreadsheet** 



### Victoria Park Riversdale Badminton and Tennis Club ACM Inventory

Include	,									Asbestos			Sample		Sample	Asbestos								Potential for	Recommended			
Exclud	Floor	Room	# Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Containing Material?	Condition	Field Notes	Туре	Sample ID	Sample Date	Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Disturbance	Action	Quantity	Photograph ID	Labelling Type
Included	All	Through	nout All Men's Lower Change Room	Doors Walls		Non Suspect Door	High High	No Yes	No Yes	No Yes	Good	Non-suspect doors were observed throughout the Site.	Bulk	A-013	13-Jun-17	Chrysotile	Joint Compound	2.4%	Yes	No	N/A	Annually	5	High	Manage in Place	1.250 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	В		Men's Lower Change Room	Floor	Floor		High	No				New flooring.  Date coded to a time period in										,						
Included	В	G-1	Men's Lower Change Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
														VS A-002, A-												Quantity		
Included		G-1	Men's Lower Change Room	Coiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A 017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	Quantity included above.	Photograph 1	Door Jamb
Included		101	Courts Courts	Walls Floor		Wood Wood			No No					017, 8-022		Chrysothe	Joint Compound	2.176 to 2.076	163	140	IN/A	Aillidally		Tilgli	Manage III Flace	above.	rhotographi	Door Jamib
Included	М	101		Ceiling	Ceiling Caulking	Fibreglass Insulation Black Window Caulking	High	No	No	No Yes	Good		Bulk	A-010	13-Jun-17	Chrysotile	Window Caulking	1.6%	No	No	N/A	Annually	5	High	Manage in Place	10 Linear ft	Photograph 2	Door Jamb
			Courts			Grey Duct Mastic				No				VS A-004		Omyound	Wildow Oddinang	1.070	- 110		14/2	7 initiatiny		riigii	Manago III I Iaoo	TO EMIOCH IC	- notographi E	Boor damb
					Electrical Panels and	Electrical Panels and						Not sampled due to safety													Inspect and sample if scheduled for			
			Mechanical Room	Electrical Walls	Components Walls	Components Block Wall	High High	Yes No	No No	Potential No	Good Good	concerns.													removal.			
Included	М	102	Mechanical Room  Mechanical Room	Floor Ceiling	Floor Ceiling	Concrete  Drywall Joint Compound	High High	No Yes	No Yes		Good Good		Bulk	A-012	13-Jun-17	Chrysotile	Joint Compound	2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	250 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	М	102	Mechanical Room Mechanical Room	Mechanical Mechanical	Piping	Uninsulated Lines PVC Drain Lines	High	No No	No No	No	Good Good																	
Included	M	103	Men's Showers	Mechanical Walls	Walls	Red Firestop Ceramic Tile	High High	No	Yes No	No No	Good	N. a.	Bulk	A-011	13-Jun-17													
included	IVI	103	Men's Showers	Floor	Floor	New Non-Suspect Floor	High	NO	No	No	Good	New flooring.		VS A-002, A-														
														005, A-007, A 012, A-013, A														
morado	M		Men's Showers Men's Locker Room	Ceiling Walls		Drywall Joint Compound Drywall Joint Compound	High High	Yes	Yes	Yes Yes	Good		Bulk	017, A-022	13-Jun-17			2.1% to 2.8% 2.1% to 2.8%		No No	N/A N/A	Annually Annually		High High	Manage in Place			
			Men's Locker Room	Floor	Floor	New Non-Suspect Floor	High			No No		New flooring. Date coded to a time period in	Daik	7,000	.c oun-17	O.Ayoutie	John Compound	2 /0 to 2.0 /0	103	140	19/15	Zamudany		riigii	manage in Flace	L/OIL	The Cograph 1	DOOR GAME
Included	М	104	Men's Locker Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
														VS A-002, A-														
														005, A-007, A 012, A-013, A												Quantity included		
Included	M	104	Men's Locker Room	Ceiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
														VS A-002, A- 005, A-007, A 012, A-013, A														
Included	M	105	Men's Washroom Men's Washroom	Walls Floor	Walls Floor	Drywall Joint Compound New Non-Suspect Floor	High High	Yes	Yes	Yes No	Good	New flooring.		012, A-013, A 017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	475 ft <sup>2</sup>	Photograph 1	Door Jamb
moladoc	101	100	Well's Washloom	1 1001	i iooi	2'x4' Ceiling Tile with Small	riigii	140	140	140	Cood	Date coded to a time period in which asbestos use was not																
Included	M	105	Men's Washroom	Ceiling	Ceiling	Pinholes and Divots.	High	No	No	No	Good	widespread.																
														VS A-002, A- 005, A-007, A												Quantity		
Included	М	105	Men's Washroom	Ceiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A 017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	included above.	Photograph 1	Door Jamb
														VS A-002, A-														
	١.,	106	Vestibule	) A ( . II .	1A/-II-	Drywall Joint Compound	100.1	<b>V</b>		Yes	0 1			005, A-007, A 012, A-013, A 017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	-	High	Manage in Place	270 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	M	106	Vestibule Vestibule Vestibule	Floor Ceiling	Floor	Wood Ceiling Texture Coat	High High		Yes No	No No			Bulk	A-001	13- lun-17	Chrysothe	Joint Compound	2.1% 10 2.8%	162	NO	IN/A	Arinually	3	High	Manage III Flace	27011	Filologiapii i	Door Jamb
Included	M	107	Seating Seating	Walls Walls	Walls Walls	Drywall Joint Compound Block Wall	High	Yes	Yes		Good		Bulk			Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	900 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	M	107	Seating	Floor	Floor	New Non-Suspect Floor						New flooring.  Date coded to a time period in																
Included	М	107	Seating	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
Included	М	107	Seating	Ceiling	Ceiling	Ceiling Texture Coat	High	No	Yes	No	Good		Bulk	A-018, A-020 A-021	13-Jun-17													
Included	M	108		Windows Walls	Walls	Black Window Caulking Drywall Joint Compound	High High	Yes	Yes Yes	Yes			Bulk Bulk		13-Jun-17 13-Jun-17		Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	300 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	M	108	Rec Room	Floor	Floor	New Non-Suspect Floor 1'x1' Ceiling Tile with Small Pinholes	High High	No No	No Yes	No No	Good	New flooring.	Bulk	A-003	13-Jun-17													
muadeo	IVI	108	IVEC IVOOIII	Centry	Centry	2'x4' Ceiling Tile with Small	nigri	INU	162	INU	JUUU	Date coded to a time period in which asbestos use was not	DUIK	A-003	13-Juil-17													
Included	М	108	Rec Room	Ceiling	Ceiling	Pinholes and Divots.	High	No	No	No	Good	widespread.																
														VS A-002, A-												Quantity		
Included		108		Ceiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A 017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	included above.	Photograph 1	Door Jamb
Included	M M	109 109	Storage Room Storage Room	Walls Walls	Walls Walls	Block Wall Wood Panels	High	No	No No	No	Good Good																	
Included		109		Floor	Floor	9"x9" Beige Floor Tile with Brown Streaks	High	No	Yes	No	Good		Bulk	A-014	13-Jun-17													
Included	M	109	Storage Room	Floor	Floor	Black Floor Mastic	High	No	Yes	No	Good	Date coded to a time period in	Bulk	A-029	10-Jul-17													
Included	М	109	Storage Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Divots. 1'x1' Ceiling Tile with Small	High	No	No	No	Good	which asbestos use was not widespread.																
Included	M	109 109	Storage Room Storage Room	Ceiling Mechanical	Ceiling Piping	Pinholes Uninsulated Lines	High High	No No	Yes No	No No	Good		Bulk	A-015	13-Jun-17													
ioiadet	ivi	103	otorago noom	osnanioai	i ibiila	Emounted Emos	riigit	140	.40	140	3000			VS A-002, A-														
														005, A-007, A 012, A-013, A														
			Storage Room	Walls Walls	Walls Walls	Drywall Joint Compound Block Wall	High High	Yes No	Yes No		Good Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	175 ft <sup>2</sup>	Photograph 1	Door Jamb
Included	M	110	Storage Room	Walls	Walls	Wood Panels 9"x9" Beige Floor Tile with Brown	High n	No	No	No	Good																	
Included	M	110	Storage Room	Floor	Floor	Streaks	High	No	Yes	No	Good																	

Project No. 1667963 Golder Associates Ltd.

### Victoria Park Riversdale Badminton and Tennis Club ACM Inventory

																				1									
															VS A-002, A-														
															005, A-007, A-012, A-013, A-												Quantity included		
	ed N		10 Storage Room 10 Storage Room		Ceilin		rywall Joint Compound rey Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	017, A-022	13-Jun-17	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
Include	ea IV	VI 11	10 Storage Room	Mechan	icai Duct	WORK G	rey Duct Mastic	High	NO	Yes	No	Good		Bulk		13-Jun-17													
															VS A-002, A- 005, A-007, A-														
															012, A-013, A	-											2		
		И 11	11 Office 11 Office	Walls Walls	Walls Walls	Blo	rywall Joint Compound lock Wall			Yes No	Yes No	Good Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	500 ft <sup>-</sup>	Photograph 1	Door Jamb
Include	ed N	M 11	11 Office	Floor	Floor	Ne	ew Non-Suspect Floor	High	No	No	No	Good	New flooring.  Date coded to a time period in																
							x4' Ceiling Tile with Small						which asbestos use was not																
Include	ed N	VI 11	11 Office	Ceiling	Ceilin	g Pii	inholes and Divots.	High	No	No	No	Good	widespread.																
															VS A-002, A- 005, A-007, A-												Quantity		
															012, A-013, A-												included		
Include	ed N	VI 11	11 Office	Ceiling	Ceilin	g Dr	rywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
															VS A-002, A-														
															012, A-013, A-														
Include Include	ed M	<mark>И 11</mark>	12 Shop 12 Shop	Walls Walls	Walls Walls		rywall Joint Compound lock Wall	High High	Yes No	Yes No	Yes No	Good Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	500 ft <sup>2</sup>	Photograph 1	Door Jamb
			12 Shop	Floor	Floor		reen Vinyl Sheet Flooring	High		Yes		Good	Data and alto a time and in	Bulk	A-016	13-Jun-17													
							x4' Ceiling Tile with Small						Date coded to a time period in which asbestos use was not																
Include	ed N	M 11	12 Shop	Ceiling	Ceilin	g Pir	inholes and Divots.	High	No	No	No	Good	widespread.														Quantity		
		и 11	10 05		0		I Jaint Carr	100	V		V	0		р. "	A-017	40 Jun 47		int Com	0.40/ + 0.00/	ν.	N	N/A	A "	5	High	Manageri Di	included	Dhata	David I
Include	ed N	3 20	01 Women's Show	vers Walls		Ce	rywall Joint Compound eramic Tile	High High	Yes No	Yes No Yes	Yes No			Bulk	A-017	13-Jun-17 Ch	nrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
Include	ed S	3 20	01 Women's Show	vers Floor	Floor	Ce	eramic Tile	High	No	Yes	No	Good																	
															VS A-002, A-														
															005, A-007, A-012, A-013, A-														
Include	ed S	3 20	01 Women's Show	vers Ceiling	Ceilin	g Dr	rywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	50 ft <sup>2</sup>	Photograph 1	Door Jamb
															VS A-002, A-														
															005, A-007, A-012, A-013, A-														
Include Include	ed S		02 Women's Was 02 Women's Was		Walls Walls		rywall Joint Compound lock Wall	High High	Yes	Yes No	Yes No	Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	375 ft <sup>2</sup>	Photograph 1	Door Jamb
			02 Women's Was		Floor		ew Non-Suspect Floor	High		No		Good	New flooring.																
															VS A-002, A-														
															005, A-007, A-012, A-013, A-	1											Quantity included		
Include	ed S	3 20	02 Women's Was	nroom Ceiling	Ceilin	g Dr	rywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
															VS A-002, A-														
															005, A-007, A-012, A-013, A-	1													
Include	ed S	3 20	03 Women's Lock		Walls		rywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	1,175 ft <sup>2</sup>	Photograph 1	Door Jamb
Include	ed S	5 20	03 Women's Lock	er Room Floor	Floor	Ne	ew Non-Suspect Floor	High	No	No	No	Good	New flooring.																
															VS A-002, A-												Quantity		
															012, A-013, A-	-											included		
Include	ed S	3 20	03 Women's Lock	er Room Ceiling	Ceilin	g Dr	rywall Joint Compound	High	Yes	Yes	Yes	Good	Date coded to a time period in		017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
Include	.d   6	2 20	03 Women's Lock	er Room Ceiling	Ceilin		x4' Ceiling Tile with Small inholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
						1'>	x1' Ceiling Tile with Small						widespread.																
Include	ed S	5 20	03 Women's Lock	er Room Ceiling	Ceilin	g Pir	inholes	High	No	Yes	No	Good		Bulk	A-006	13-Jun-17													
															VS A-002, A-														
															012, A-013, A	-													
Include Include		S 20	04 Coat Room 04 Coat Room	Walls Floor	Walls Floor		rywall Joint Compound ew Non-Suspect Floor	High High	Yes No	Yes No	Yes No	Good Good	New flooring.		017, A-022	Ch	hrysotile Jo	oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	450 ft <sup>2</sup>	Photograph 1	Door Jamb
							x4' Ceiling Tile with Small						Date coded to a time period in which asbestos use was not																
Include	ed S	3 20	04 Coat Room	Ceiling	Ceilin		inholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
															VS A-002, A-														
															005, A-007, A												Quantity		
															012 A-012 A														
	ed S		04 Coat Room	Ceiling			rywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A 017, A-022			oint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	included above.	Photograph 1	
	ed S	3 20	04 Coat Room 05 Storage Room 05 Storage Room	Walls	Walls	Dr	rywall Joint Compound rywall Joint Compound arpet	High	Yes	Yes	Yes	Good		Bulk	012, A-013, A 017, A-022	Ch			2.1% to 2.8% 2.1%		No No	N/A N/A	Annually Annually	5		Manage in Place Manage in Place	above.	Photograph 1 Photograph 1	Door Jamb
Include	ed S	3 20	05 Storage Room	Walls	Walls	Dr	rywall Joint Compound	High	Yes	Yes		Good		Bulk	012, A-013, A- 017, A-022 A-007									5 5			above.		
incidae	ed S	3 20	05 Storage Room	Walls	Walls	Dr	rywall Joint Compound	High	Yes	Yes	Yes	Good		Bulk	012, A-013, A-017, A-022 A-007 VS A-002, A-005, A-007, A-									<u>5</u> 5			above. 500 ft <sup>2</sup> Quantity		
	ed S	S 20	05 Storage Room	Walls Floor	Walls Floor	Dr Ca	rywall Joint Compound arpet	High High	Yes No	Yes No	Yes No	Good Good		Bulk	012, A-013, A- 017, A-022 A-007 VS A-002, A- 005, A-007, A- 012, A-013, A-	13-Jun-17 Cł	hrysotile Jo	oint Compound	2.1%	Yes	No	N/A	Annually	5 5	High	Manage in Place	above. 500 ft²  Quantity included	Photograph 1	Door Jamb
	ed S	S 20	Storage Room Storage Room	Walls Floor	Walls Floor	Dr Ca	rywall Joint Compound	High	Yes No	Yes	Yes	Good		Bulk	012, A-013, A- 017, A-022 A-007 VS A-002, A- 005, A-007, A- 012, A-013, A- 017, A-022	13-Jun-17 Cł	hrysotile Jo	oint Compound									above. 500 ft <sup>2</sup> Quantity		Door Jamb
	ed S	S 20	Storage Room Storage Room	Walls Floor	Walls Floor	Dr Ca	rywall Joint Compound arpet	High High	Yes No	Yes No	Yes No	Good Good		Bulk	012, A-013, A 017, A-022 A-007 VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022 VS A-002, A- 005, A-007, A-	13-Jun-17 Cł	hrysotile Jo	oint Compound	2.1%	Yes	No	N/A	Annually		High	Manage in Place	above. 500 ft²  Quantity included	Photograph 1	Door Jamb
	ed S	S 20 S 20	Storage Room Storage Room Storage Room Storage Room	Walls Floor	Walls Floor Ceilin	Dr Dr	nywall Joint Compound arpet rywall Joint Compound	High High High	Yes No Yes	Yes No	Yes No Yes	Good Good		Bulk	012, A-013, A 017, A-022 A-007 VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022 VS A-002, A- 005, A-007, A 012, A-013, A	13-Jun-17 Ct	nrysotile Jo	oint Compound	2.1% 2.1% to 2.8%	Yes	No No	N/A N/A	Annually	5	High High	Manage in Place  Manage in Place	above. 500 ft²  Quantity included above.	Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	S 20 S 20 S 20	05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room 06 Coat Room	Walls Floor  Ceiling  Walls Walls Walls	Walls Floor Ceilin Walls Walls Walls	g Dr	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ock Wall	High High High High High	Yes No Yes Yes	Yes No Yes	Yes No Yes	Good Good Good Good Good		Bulk	012, A-013, A 017, A-022 A-007 VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022 VS A-002, A- 005, A-007, A-	13-Jun-17 Ct	nrysotile Jo	oint Compound	2.1%	Yes	No	N/A	Annually	5	High High	Manage in Place	above. 500 ft²  Quantity included above.	Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	S 20 S 20 S 20 S 20 S 20 S 20 S 20	05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room	Walls Floor Ceiling Walls	Walls Floor Ceilin	g Dr Dr Bla	rywall Joint Compound arpet rywall Joint Compound rywall Joint Compound	High High High High	Yes No Yes Yes No No	Yes No Yes	Yes No Yes Yes No No	Good Good Good	New flooring.	Bulk	012, A-013, A 017, A-022 A-007 VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022 VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022	13-Jun-17 Ct	nrysotile Jo	oint Compound	2.1% 2.1% to 2.8%	Yes	No No	N/A N/A	Annually	5	High High	Manage in Place  Manage in Place	above. 500 ft²  Quantity included above.	Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	S 20 S 20 S 20 S 20 S 20 S 20 S 20	05 Storage Room 05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room 06 Coat Room 06 Coat Room	Walls Floor  Celling  Walls Walls Floor	Walls Floor Ceilin Walls Walls Floor	g Dr Dr Bla	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ook Wall  ew Non-Suspect Floor	High High High High High High	Yes No Yes Yes No No	Yes No Yes Yes No No	Yes No Yes Yes No No	Good Good Good Good Good Good	New flooring.		012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022	13-Jun-17 Ch	nrysotile Jo	oint Compound	2.1% 2.1% to 2.8%	Yes	No No	N/A N/A	Annually	5	High High	Manage in Place  Manage in Place	above. 500 ft²  Quantity included above.	Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	S 20 S 20 S 20 S 20 S 20 S 20 S 20	05 Storage Room 05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room 06 Coat Room 06 Coat Room	Walls Floor  Celling  Walls Walls Floor	Walls Floor Ceilin Walls Walls Floor	g Dr Dr Bla	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ook Wall  ew Non-Suspect Floor	High High High High High High	Yes No Yes Yes No No	Yes No Yes Yes No No	Yes No Yes Yes No No	Good Good Good Good Good Good	New flooring.		012, A-013, A 017, A-022 A-007  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022  VS A-002, A- 005, A-008  VS A-002, A- 005, A-007, A	13-Jun-17 Ch	nrysotile Jo	oint Compound	2.1% 2.1% to 2.8%	Yes	No No	N/A N/A	Annually	5	High High	Manage in Place  Manage in Place	above. 500 ft²  Quantity included above.	Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	200 3 200 3 200 3 200 3 200 3 200	05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room 06 Coat Room 06 Coat Room 06 Coat Room 07 Coat Room 08 Coat Room	Walls Floor  Celling  Walls Walls Floor	Walls Floor Ceilin Walls Walls Floor	Dr Cce	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ock Wall  ew Non-Suspect Floor  eiling Texture Coat	High High High High High High	Yes No Yes Yes No No	Yes No Yes No No No No Yes	Yes No Yes Yes No No	Good Good Good Good Good Good	New flooring.		012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A 012, A-013, A 017, A-022	13-Jun-17 Ct	nrysotile Jo	pint Compound	2.1% 2.1% to 2.8%	Yes Yes	No No	N/A N/A	Annually	5	High High High	Manage in Place  Manage in Place	above. 500 ft <sup>2</sup> Quantity included above.  225 ft <sup>2</sup>	Photograph 1  Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	200 3 200 3 200 3 200 3 200 3 200	05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room	Walls Floor  Ceiling  Walls  Walls Floor Ceiling	Walls Floor  Ceilin  Walls Walls Floor Ceilin	Dr Cce	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ock Wall  ew Non-Suspect Floor  eiling Texture Coat	High High High High High High	Yes No Yes No No No No	Yes No Yes Yes No No Yes	Yes No Yes Yes No No	Good Good Good Good Good Good	New flooring.		012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022  A-008  VS A-002, A- 005, A-007, A- 006, A-007, A- 006, A-007, A- 007, A-013, A- 017, A-013, A- 017, A-013, A- 017, A-013, A- 017, A-018, A- 017, A-018, A- 017, A-018, A- 017, A-018, A- 018, A-019, A- 019, A-019, A- 0112, A-013, A- 0119, A-013, A- 0119, A-013, A- 0119, A-013, A- 0119, A-0119, A- 0119, A- 0119, A- 0119, A- 0129, A- 0139, A- 0149, A- 0159, A- 0179, A-	13-Jun-17 Ct	nrysotile Jo	pint Compound	2.1% 2.1% to 2.8% 2.1% to 2.8%	Yes Yes	No No	N/A N/A	Annually  Annually  Annually	5	High High High	Manage in Place  Manage in Place  Manage in Place	above. 500 ft <sup>2</sup> Quantity included above.  225 ft <sup>2</sup>	Photograph 1  Photograph 1  Photograph 1	Door Jamb  Door Jamb
Include Include Include Include	ed Sed Sed Sed Sed Sed Sed Sed Sed Sed S	5 200 5 200 5 200 5 200 6 200	05 Storage Room 05 Storage Room 05 Storage Room 06 Coat Room 06 Coat Room 06 Coat Room 06 Coat Room 07 Coat Room 08 Coat Room	Walls Floor  Ceiling  Walls Walls Floor Ceiling  Walls Walls Floor Ceiling	Walls Floor  Ceilin  Walls Walls Floor  Ceilin  Walls Walls Walls Walls Walls	g Dr  Dr  Bits  Ne  Re  Re  Dr  Pr  Re  Re  Re  Re  Re  Re  Re  Re  Re  R	rywall Joint Compound  rywall Joint Compound  rywall Joint Compound  ock Wall  ew Non-Suspect Floor  eiling Texture Coat	High High High High High High High High	Yes No Yes No No No Yes	Yes No Yes No No No No Yes	Yes No Yes Yes No No No No Yes	Good Good Good Good Good Good Good	*		012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022  VS A-002, A- 005, A-007, A- 012, A-013, A 017, A-022  A-008  VS A-002, A- 005, A-007, A- 006, A-007, A- 006, A-007, A- 007, A-013, A- 017, A-013, A- 017, A-013, A- 017, A-013, A- 017, A-018, A- 017, A-018, A- 017, A-018, A- 017, A-018, A- 018, A-019, A- 019, A-019, A- 0112, A-013, A- 0119, A-013, A- 0119, A-013, A- 0119, A-013, A- 0119, A-0119, A- 0119, A- 0119, A- 0119, A- 0129, A- 0139, A- 0149, A- 0159, A- 0179, A-	13-Jun-17 Ct	nrysotile Jo	pint Compound	2.1% 2.1% to 2.8% 2.1% to 2.8%	Yes Yes	No No	N/A N/A	Annually  Annually  Annually	5	High High High	Manage in Place  Manage in Place  Manage in Place	above. 500 ft <sup>2</sup> Quantity included above.  225 ft <sup>2</sup>	Photograph 1  Photograph 1  Photograph 1	Door Jamb  Door Jamb

Project No. 1667963 Golder Associates Ltd.

#### Victoria Park Riversdale Badminton and Tennis Club ACM Inventory

														VS A-002, A-												Overstitus		
														012, A-013, A-												Quantity		
Include	d S	206 WR	Washroom	Ceiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
														VS A-002, A-														
														012, A-013, A-														
			Storage Room	Walls	Walls	Drywall Joint Compound		Yes		Yes	Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	325 ft <sup>2</sup>	Photograph 1	Door Jamb
			Storage Room Storage Room	Floor	Floor Floor	Carpet Floor Tile	High High	No No		No No	Good Good		Dulk	A-009	12 lun 17													
include	u s	207	Storage Room	FIOOF	FIOOI	Floor Tile	High	INO	res	INO	G000		DUIK	A-009	13-Juli-17													
														VS A-002, A-														
														005, A-007, A-												Quantity		
Include	ء د	207	Storage Room	Coiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A- 017, A-022		Chrysotile	Joint Compound	2 1% to 2 8%	Yes	No	N/A	Annually	5	High	Manage in Place	included above.	Photograph 1	Door Jamb
		208		Ceiling Walls	Walls	Block Wall	High		No		Good			017, A-022		Ciliysotile	Joint Compound	2.1 /6 to 2.0 /6	163	INO	IN/A	Aillidally	J	riigii	Manage III Flace	above.	Filologiapii i	Door Jamb
		208		Floor	Floor	New Non-Suspect Floor	High	No	No	No	Good	New flooring.																
						2'x4' Ceiling Tile with Small						Date coded to a time period in																
Include	d S	208	Lounge	Ceilina	Ceilina	Pinholes and Divots.	High	No	No	No	Good	which asbestos use was not widespread.																
morad		200	Loungo	Coming	Coming	i milotoc and Bivoto.	1g.1	110	110	110	0000	widooprodd.																
														VS A-002, A-														
														005, A-007, A- 012, A-013, A-														
Include	d S	208	Lounge	Ceiling	Ceiling	Drywall Joint Compound	High	Yes	Yes	Yes	Good			012, A-013, A-		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	500 ft <sup>2</sup>	Photograph 1	Door Jamb
	_		g-				1g.:									<u> </u>					1,011					00011	- managraphi	
														VS A-002, A-														
														005, A-007, A- 012, A-013, A-														
Include	d S	209/210	Kitchen/Servery	Walls	Walls	Drywall Joint Compound	High	Yes	Yes	Yes	Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	475 ft <sup>2</sup>	Photograph 1	Door Jamb
			Kitchen/Servery	Floor	Floor	Carpet	High			No	Good					ĺ								, in the second	Ĭ		Ž ,	
Include	d S	209/210	Kitchen/Servery	Floor	Floor	Floor Tile	High	No	Yes	No	Good											_						
														VS A-002, A-														
														005, A-007, A-												Quantity		
														012, A-013, A-												included		
			Kitchen/Servery Crawlspace	Ceiling Mechanical	Ceiling Drain Lines	Drywall Joint Compound PVC Drain Lines	High High	Yes No	Yes No	Yes No	Good Good			017, A-022		Chrysotile	Joint Compound	2.1% to 2.8%	Yes	No	N/A	Annually	5	High	Manage in Place	above.	Photograph 1	Door Jamb
		Exterior		Walls	Walls	Metal Siding	High	No		No	Good																	
						, and a second s	Ĭ							A-023, A-024,														
									.,					A-025, A-026,														
Include		Exterior Exterior		Walls Walls	Walls Caulking	Brick Mortar Grey Building Caulking	High High	No No	Yes Yes	No No	Good Good		Bulk Bulk	A-027 A-028	13-Jun-17 13-Jun-17													
include	u E	LAIGHUI	Men's Lower Change Room	vvalis	Caulkilly	Grey Building Calliking	riigri	INO	168	140	Good	Not assessed due to locked	DUIK	A-020	13-3dH-17													
Exclud	ed B	G-2	Storage Room	Entire Room	Entire Room							door.																
_ ,		F 4 4	D (	F	5 B							Not assessed due to scope of																
Exclud	ed E	Exterior	Root	Exterior Roof	Exterior Roof							work.																

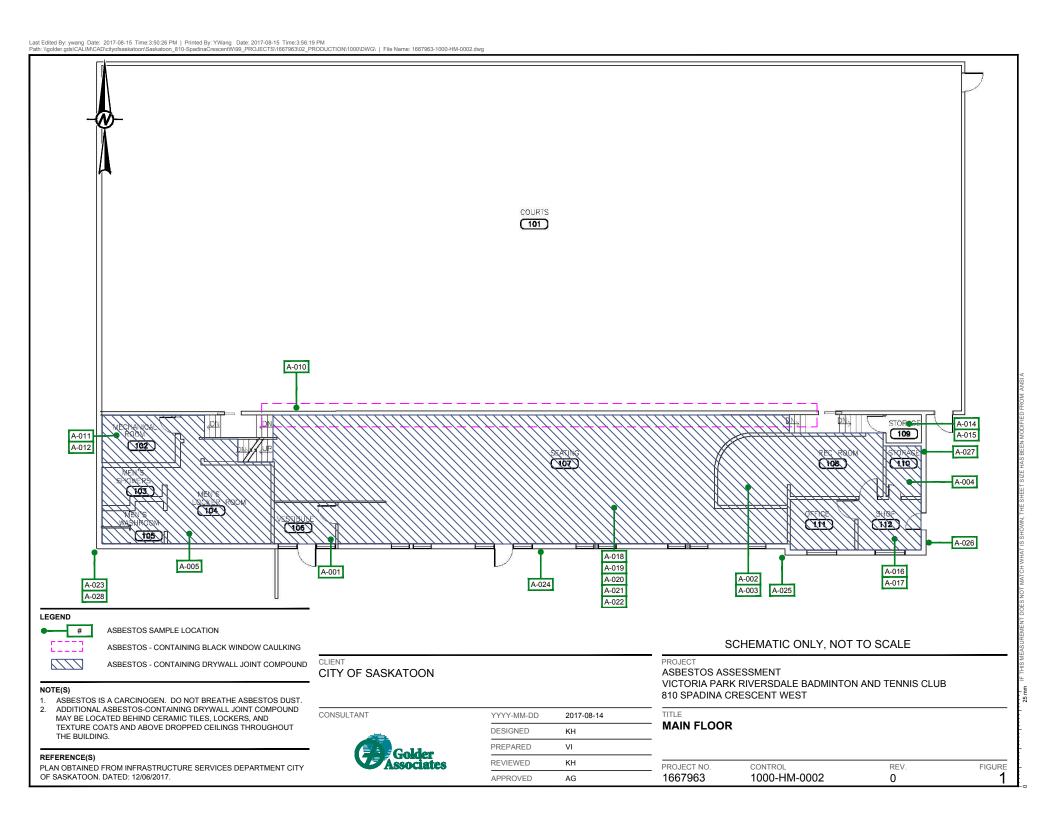
Project No. 1667963 Golder Associates Ltd.



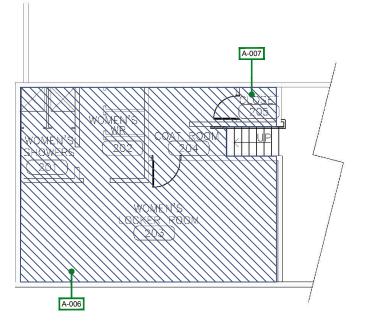
# **APPENDIX D**

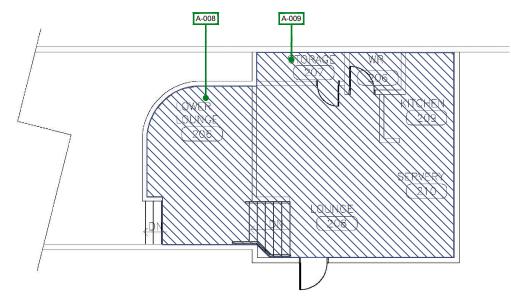
**Floor Plans** 











### LEGEND



ASBESTOS SAMPLE LOCATION

ASBESTOS - CONTAINING DRYWALL JOINT COMPOUND

#### NOTE(S)

- 1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
- 2. ADDITIONAL ASBESTOS-CONTAINING DRYWALL JOINT COMPOUND MAY BE LOCATED BEHIND CERAMIC TILES, LOCKERS, AND TEXTURE COATS AND ABOVE DROPPED CEILINGS THROUGHOUT THE BUILDING.

#### REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 12/06/2017.

#### CLIENT

#### CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD	2017-058-14
DESIGNED	KH
PREPARED	VI
REVIEWED	KH
APPROVED	AG

### SCHEMATIC ONLY, NOT TO SCALE

PROJECT
ASSESSOR ASSESSMENT
VICTORIA PARK RIVERSDALE BADMINTON AND TENNIS CLUB
810 SPADINA CRESCENT WEST

TITLE

#### SECOND FLOOR

PROJECT NO.	CONTROL	REV.	FIGURE
1667963	1000-HM-0003	0	2

25 mm IF THIS MEASOREMENT DOES

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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