



July 11, 2017

CITY OF SASKATOON

# Asbestos-Containing Building Materials Assessment Report - Sasktel Centre



**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.

REPORT





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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 Sasktel Centre (the Site) located at 3515 Thatcher Avenue in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on February 22, 2017 and the assessment was conducted on May 29, 30, and 31, 2017 by Kody Henderson, OHS Project Manager, and Heather Tweedie, Junior Scientist/OHS Technologist. Asbestos-containing building materials were identified within the Sasktel Centre 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 Sasktel Centre was constructed in 1987 and consists of an arena level, mezzanine level, concourse level, and gondola level. Various mechanical and electrical rooms, washrooms, maintenance offices, change rooms and concessions/kitchens are located on the arena level as well as the arena floor itself. The mezzanine and concourse levels consists of multiple washrooms, concessions/kitchens, suites, mechanical rooms, and offices. The gondola level consists mainly of offices and suites.

Numerous renovations have occurred within the offices, suites, and concessions/kitchens located throughout the Site. Each level was treated as its own functional space, and within each level, the inner and outer rooms were treated as separate functional spaces.

- 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.
- A floor plan 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 one hundred and nine (109) samples of building materials were collected and tested for asbestos content during the assessment of the Lions Arena. 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 below.

- Gold/Silver Sink Undercoat;
- Red/Brown Duct Mastic; and
- Black Interior Window Caulking (select rooms only).

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

#### ***Gold/Silver Sink Undercoat***

One (1) sample of gold/silver sink undercoat was collected during the assessment. The sample collected was found to contain 0.5% Chrysotile asbestos. Asbestos-containing gold/silver sink undercoat (see Photograph 1 in Appendix B) was observed in the following locations:

- Room 119 (approximately 1 sink);
- Room 122 (approximately 1 sink);
- Room 154/155/156 (approximately 1 sink);
- Room 177 (approximately 1 sink);



- Room 206 (approximately 2 sinks); and
- Room 304E (approximately 1 sink).

### ***Red/Brown Duct Mastic***

Two (2) samples of red/brown duct mastic were collected during the assessment. Both of the samples collected were found to contain 0.75% to 1.3% Chrysotile asbestos. Asbestos-containing red/brown duct mastic (see Photograph 2 in Appendix B) was observed in the following locations:

- Room 154/155/156 (approximately 15 ft);
- Room 153 (approximately 25 ft);
- Room 130 (approximately 5 ft);
- Room 125 (approximately 30 ft);
- Room 130 (approximately 5 ft);
- Arena Level Ceiling Space Mechanical Room (approximately 600 ft);
- Room 214 (approximately 5 ft);
- Room 210 (approximately 5 ft);
- Room 208 (approximately 5 ft);
- Mezzanine Level Mechanical Room Adjacent S5 (approximately 10 ft);
- Room 324 (approximately 20 ft); and
- Room 301 (approximately 50 ft).

Please note additional asbestos-containing red/brown duct mastic is suspected to be located behind fibreglass insulation and within concealed locations (wall cavities, ceiling spaces and cavities, mechanical shafts, etc.) throughout the Site.

### ***Black Interior Window Caulking***

Five (5) samples of black interior window caulking were collected during the assessment. One of the samples collected was found to contain 1.8% Chrysotile asbestos. Asbestos-containing black interior window caulking (see Photograph 3 in Appendix B) was observed on the interior of the exterior windows in the following locations:

- Room 301 (approximately 600 ft);
- Room 304 (approximately 580 ft);
- Room 304A (approximately 200 ft);
- Room 304B (approximately 200 ft);
- Room 304C (approximately 200 ft);
- Room 305 (approximately 225 ft); and
- Room 308 (approximately 260 ft).



The remaining black window caulking located on the exterior of the windows throughout the Site was found to be non-suspect-containing rubber caulking or were found to not contain asbestos through laboratory analysis.

### **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 a non-suspect materials:

- Drywall joint compound;
- Blue, white, and dark blue vinyl sheet flooring;
- 1'x1' Ceiling tile with small pinholes and small divots;
- White building caulking;
- Beige mosaic vinyl sheet flooring;
- Tan floor mastic;
- 1'x1' Ceiling tile with very small and small pinholes and short divots;
- Pipe-fitting insulation;
- Plywood joint compound;
- White sink undercoat;
- Blue and white streaked vinyl sheet flooring;
- Yellow floor mastic;
- Grey duct mastic;
- 1'x1' Beige floor tile with black flecks;
- Black interior window caulking (excluding the areas noted in Section 3.1.1);
- White firestop;
- 1'x1' Ceiling tile mastic;
- Boiler exhaust caulking;
- Generator exhaust caulking;
- 2'x4' Ceiling tile with widthwise fissures;
- Grey door window caulking;
- Small beige mosaic vinyl sheet flooring;
- Red firestop;
- 1'x1' Ceiling tile with long fissures;
- Silver duct mastic;



- Concrete scratch coat;
- Beige mosaic with red and turquoise spots vinyl sheet flooring;
- Spray-applied fireproofing;
- Cooler caulking;
- Stucco;
- Black exterior window caulking;
- Grey building caulking;
- White window frame caulking;
- The drain lines throughout the site were not observed to have suspect packing;
- The duct work throughout the site was observed to be uninsulated or insulated with fibreglass insulation;
- The speckled concrete floor coating throughout the Site was found to be constructed of a non-suspect material;
- The duct connector fabric throughout the Site was found to be constructed of a non-suspect material;
- The rubber flooring throughout the site was not sampled as it was visually observed to be constructed of rubber and is not suspected to contain asbestos; and
- The 2'x4' ceiling tiles throughout the Site were found to not contain asbestos from laboratory analysis and date coding.

### 4.0 EXCLUDED AREAS AND MATERIALS

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

- Floor levelling compound was not encountered at the time of the assessment. If floor levelling compound is encountered during renovation or demolition activities, sampling should be conducted to evaluate the presence or absence of asbestos.
- The offices located within Room 101 on the Arena Level have gone through renovations and do not match with the floor plans provided. All rooms within Room 101 were assessed, however each individual room number located on the floor plans may not appear within the report or room by room spreadsheet.
- The boilers and associated components were not assessed for asbestos-containing materials during the assessment as sampling could render the equipment non-functional. If the boilers and associated components are scheduled for renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- 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.



- 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.
- The duct connector fabric throughout the site was not sampled as causing damage to the fabric could potential release fibres in the air distribution system. Based upon visual observations it is not suspected to contain asbestos, however if the duct connector fabric is scheduled for impact, further sampling may be required.
- The block wall throughout the Site was not destructively investigated for the absence or presence of potential asbestos-containing vermiculite insulation, however various wall penetrations through block were observed throughout the Site and no suspect asbestos-containing vermiculite insulation was observed. Select coring activities may be required in select portions of block wall should they be scheduled for renovation or demolition activities.
- Golder was unable to access Rooms 321, 320, 311, 302, 301B, 218B, 240B, 233, 224, 222, 221D, 103, 166, 167, 168, 169, 170, 171, 186, 187, 188, 189, 190, 191, 140, 137, 134, 133, areas outside of the main walkway of the Gondola Level, and Elevator 2 during the assessment due to locked doors, construction activities, and renovation activities. If work activities are scheduled within these areas, further sampling may be required. If building materials within these areas are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The Mezzanine Level Mechanical Room Adjacent to S5 and Arena Level Ceiling Space Mechanical Rooms were assessed from the walkways within the area. Additional asbestos-containing building materials may be located within the inaccessible portions of the above areas.

## 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 gold/silver sink undercoat, red/brown duct mastic, and interior black window caulking within select locations of the 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.





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## ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - SASKTEL CENTRE

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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.

### **Gold/Silver Sink Undercoat**

If scheduled for impact, asbestos-containing gold/silver sink undercoat should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the gold/silver sink undercoat 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.

### **Red/Brown Duct Mastic**

If scheduled for impact, asbestos-containing red/brown duct mastic should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the red/brown duct mastic 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 Interior Window Caulking**

If scheduled for impact, asbestos-containing black interior window caulking should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the black interior 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 May 29, 30, and 31, 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.



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## ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - SASKTEL CENTRE

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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 [kody\\_henderson@golder.com](mailto:kody_henderson@golder.com). 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:

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

Handwritten signature of Andrew Grant in black ink.

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

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# **APPENDIX A**

## **Laboratory Certificate of Analysis Report**

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
**Report No.:** 538139 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258488  
**Client No.:** A-001

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 118

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258489  
**Client No.:** A-002

Percent Asbestos:  
*None Detected*

**Description:** Off White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 119

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258489(L2)  
**Client No.:** A-002

Percent Asbestos:  
*None Detected*

**Description:** Tan Mastic  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 119

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258490  
**Client No.:** A-003

Percent Asbestos:  
*None Detected*

**Description:** White/Light Grey/Blue Vinyl  
Sheet Flooring  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
2 Fibrous Glass

**Location:** Room 119

Percent Non-Fibrous Material:  
88

**Lab No.:** 6258491  
**Client No.:** A-004

Percent Asbestos:  
*None Detected*

**Description:** White/Tan Ceiling Tile  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
65 Cellulose  
5 Mineral Wool

**Location:** Room 119

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258492  
**Client No.:** A-005

Percent Asbestos:  
*PC 0.5 Chrysotile*


**Description:** Gold/Black Mastic  
**Facility:**

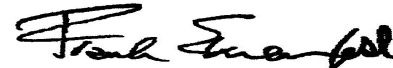
Percent Non-Asbestos Fibrous Material:  
2 Cellulose

**Location:** Room 119

Percent Non-Fibrous Material:  
97.5

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017  
**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258493  
**Client No.:** A-006

**Description:** White Caulk  
**Facility:**

**Location:** Room 114

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258494  
**Client No.:** A-007

**Description:** White/Light Grey Vinyl Sheet  
Flooring  
**Facility:**

**Location:** Room 122

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
5 Synthetic  
2 Fibrous Glass

Percent Non-Fibrous Material:  
88

**Lab No.:** 6258494(L2)  
**Client No.:** A-007

**Description:** Tan Mastic  
**Facility:**

**Location:** Room 122

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258495  
**Client No.:** A-008

**Description:** White/Tan Ceiling Tile  
**Facility:**

**Location:** Room 122

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
20 Mineral Wool

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258496  
**Client No.:** A-009

**Description:** Light Tan Joint Compound  
**Facility:**

**Location:** Room 122

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

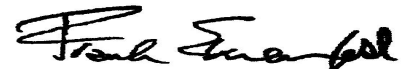
**Date Received:** 6/7/2017

**Date Analyzed:** 06/14/2017

**Signature:**

**Analyst:** Muhammad Mirza

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258497	<b>Description:</b> Light Grey Insulation	<b>Location:</b> Room 125
<b>Client No.:</b> A-010	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 80

<b>Lab No.:</b> 6258498	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 131
<b>Client No.:</b> A-011	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30


<b>Lab No.:</b> 6258499	<b>Description:</b> Grey Insulation	<b>Location:</b> Room 132
<b>Client No.:</b> A-012	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 75

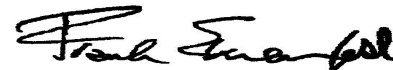
<b>Lab No.:</b> 6258500	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 136
<b>Client No.:</b> A-013	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258501	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 138
<b>Client No.:</b> A-014	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258502	<b>Description:</b> White/Light Tan Ceiling Tile	<b>Location:</b> Room 141
<b>Client No.:</b> A-015	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Cellulose 10 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017  
**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258503	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 141
<b>Client No.:</b> A-016	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

<b>Lab No.:</b> 6258504	<b>Description:</b> Grey Insulation	<b>Location:</b> Room 194
<b>Client No.:</b> A-017	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Synthetic	<u>Percent Non-Fibrous Material:</u> 98


<b>Lab No.:</b> 6258505	<b>Description:</b> Red/Brown Mastic	<b>Location:</b> Room 155
<b>Client No.:</b> A-018	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>PC 0.75 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 99.25

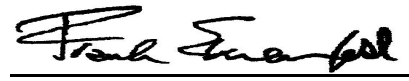
<b>Lab No.:</b> 6258506	<b>Description:</b> White/Blue Vinyl Sheet Flooring	<b>Location:</b> Room 101.8
<b>Client No.:</b> A-019	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258506(L2)	<b>Description:</b> Yellow Mastic	<b>Location:</b> Room 101.8
<b>Client No.:</b> A-019	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258507	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 101.8
<b>Client No.:</b> A-020	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017  
**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
**Report No.:** 538139 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258508	<b>Description:</b> Tan/Light Pink Sheetrock	<b>Location:</b> Room 101.11
<b>Client No.:</b> A-021	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 6258508(L2)	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 101.11
<b>Client No.:</b> A-021	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258508(L3)	<b>Description:</b> White Texture/Plaster	<b>Location:</b> Room 101.11
<b>Client No.:</b> A-021	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

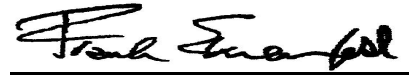
<b>Lab No.:</b> 6258509	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 102.4
<b>Client No.:</b> A-022	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258510	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 101.2
<b>Client No.:</b> A-023	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258510(L2)	<b>Description:</b> Tan Mastic	<b>Location:</b> Room 101.2
<b>Client No.:</b> A-023	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258511	<b>Description:</b> Grey Mastic	<b>Location:</b> Room 101.2
<b>Client No.:</b> A-024	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258512	<b>Description:</b> Beige Floor Tile	<b>Location:</b> Room 113
<b>Client No.:</b> A-025	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258513	<b>Description:</b> Off White/Yellow/Light Grey Insulation	<b>Location:</b> Room 111
<b>Client No.:</b> A-026	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 70 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 25

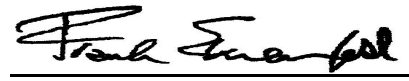
<b>Lab No.:</b> 6258514	<b>Description:</b> Black Caulk	<b>Location:</b> Room 112
<b>Client No.:</b> A-027	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

<b>Lab No.:</b> 6258515	<b>Description:</b> White Caulk	<b>Location:</b> Room 107
<b>Client No.:</b> A-028	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258516	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 106
<b>Client No.:</b> A-029	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose 30 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

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

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**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258517	<b>Description:</b> Tan Mastic	<b>Location:</b> Room 106
<b>Client No.:</b> A-030	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258518	<b>Description:</b> Light Grey Insulation	<b>Location:</b> Room 149
<b>Client No.:</b> A-031	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 80


<b>Lab No.:</b> 6258519	<b>Description:</b> Off White/Silver Wrap	<b>Location:</b> Room 149
<b>Client No.:</b> A-032	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5

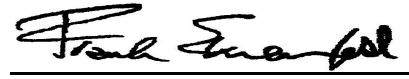
<b>Lab No.:</b> 6258519(L2)	<b>Description:</b> Yellow/Brown Insulation	<b>Location:</b> Room 149
<b>Client No.:</b> A-032	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Mineral Wool	<u>Percent Non-Fibrous Material:</u> None Detected

<b>Lab No.:</b> 6258520	<b>Description:</b> Light Grey Insulation	<b>Location:</b> Room 149
<b>Client No.:</b> A-033	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 80

<b>Lab No.:</b> 6258521	<b>Description:</b> Clear Caulk	<b>Location:</b> Room 149
<b>Client No.:</b> A-034	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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16820 107 Ave  
Edmonton AB T5P 4C3

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258522	<b>Description:</b> Grey/Yellow Insulation	<b>Location:</b> Room 149
<b>Client No.:</b> A-035	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20

<b>Lab No.:</b> 6258522(L2)	<b>Description:</b> White Mastic	<b>Location:</b> Room 149
<b>Client No.:</b> A-035	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258523	<b>Description:</b> Silver/Dark Grey Caulk	<b>Location:</b> Room 151
<b>Client No.:</b> A-036	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

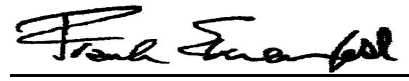
<b>Lab No.:</b> 6258524	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 215
<b>Client No.:</b> A-037	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

<b>Lab No.:</b> 6258525	<b>Description:</b> Grey Insulation	<b>Location:</b> Room 214
<b>Client No.:</b> A-038	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 80

<b>Lab No.:</b> 6258526	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 210
<b>Client No.:</b> A-039	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose 5 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

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

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**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258527	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 210
<b>Client No.:</b> A-040	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Cellulose Trace Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

<b>Lab No.:</b> 6258528	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 210
<b>Client No.:</b> A-041	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258529	<b>Description:</b> Grey Caulk	<b>Location:</b> Room 208
<b>Client No.:</b> A-042	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

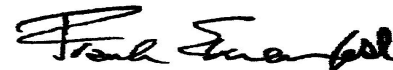
<b>Lab No.:</b> 6258530	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 204B
<b>Client No.:</b> A-043	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 70 Cellulose Trace Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

<b>Lab No.:</b> 6258531	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 204B
<b>Client No.:</b> A-044	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258532	<b>Description:</b> White/Tan Ceiling Tile	<b>Location:</b> Room 207B
<b>Client No.:</b> A-045	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose 5 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 30

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

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**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258533  
**Client No.:** A-046

Percent Asbestos:  
*None Detected*

**Description:** Tan/Off White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
Trace Fibrous Glass  
5 Cellulose

**Location:** Room 207B

Percent Non-Fibrous Material:  
95

**Lab No.:** 6258534  
**Client No.:** A-047

Percent Asbestos:  
*None Detected*

**Description:** Beige/Pink Vinyl Sheet Flooring  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
10 Cellulose  
10 Synthetic  
2 Fibrous Glass

**Location:** Room 207B

Percent Non-Fibrous Material:  
78

**Lab No.:** 6258535  
**Client No.:** A-048

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 245

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258536  
**Client No.:** A-049

Percent Asbestos:  
*None Detected*

**Description:** Grey Insulation  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
20 Mineral Wool

**Location:** Room 243

Percent Non-Fibrous Material:  
80

**Lab No.:** 6258537  
**Client No.:** A-050

Percent Asbestos:  
*None Detected*


**Description:** White/Tan Ceiling Tile  
**Facility:**

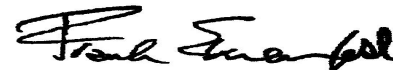
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
20 Mineral Wool

**Location:** Room 244

Percent Non-Fibrous Material:  
30

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258538  
**Client No.:** A-051

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 241

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258539  
**Client No.:** A-052

Percent Asbestos:  
*None Detected*

**Description:** Black Caulk  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Lobby Adjacent to Room 237B

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258540  
**Client No.:** A-053

Percent Asbestos:  
*None Detected*

**Description:** Tan/White Sheetrock  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
5 Cellulose

**Location:** Room 236B

Percent Non-Fibrous Material:  
95

**Lab No.:** 6258540(L2)  
**Client No.:** A-053

Percent Asbestos:  
*None Detected*

**Description:** White Joint Compound  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 236B

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258541  
**Client No.:** A-054

Percent Asbestos:  
*None Detected*

**Description:** White/Tan Ceiling Tile  
**Facility:**

Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
20 Mineral Wool

**Location:** Room 225

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258542  
**Client No.:** A-055

Percent Asbestos:  
*None Detected*


**Description:** White Joint Compound  
**Facility:**

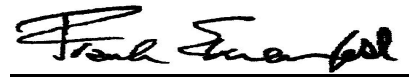
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 220B

Percent Non-Fibrous Material:  
100

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258543	<b>Description:</b> Light Grey Insulation	<b>Location:</b> Room 220B
<b>Client No.:</b> A-056	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 80

<b>Lab No.:</b> 6258544	<b>Description:</b> White Joint Compound	<b>Location:</b> Room 219A
<b>Client No.:</b> A-057	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258545	<b>Description:</b> Tan/Off White Sheetrock	<b>Location:</b> Room CS276
<b>Client No.:</b> A-058	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

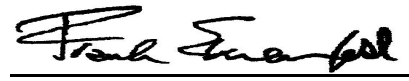
<b>Lab No.:</b> 6258545(L2)	<b>Description:</b> White Joint Compound	<b>Location:</b> Room CS276
<b>Client No.:</b> A-058	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258546	<b>Description:</b> White Joint Compound	<b>Location:</b> Room G-3
<b>Client No.:</b> A-059	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258547	<b>Description:</b> White Joint Compound	<b>Location:</b> Room CS277
<b>Client No.:</b> A-060	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director



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**Report Date:** 6/14/2017  
**Report No.:** 538139 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963


**Client:** GOL572

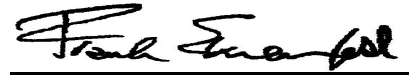
### PLM BULK SAMPLE ANALYSIS SUMMARY

<p><b>Lab No.:</b> 6258548 <b>Client No.:</b> A-061</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> White Joint Compound <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p><b>Location:</b> Room G-7</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
<p><b>Lab No.:</b> 6258549 <b>Client No.:</b> A-062</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Light Brown Caulk <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> None Detected</p>	<p><b>Location:</b> Main Level CS Walkway</p> <p><u>Percent Non-Fibrous Material:</u> 100</p>
<p><b>Lab No.:</b> 6258550 <b>Client No.:</b> A-063</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> White/Tan Ceiling Tile <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose 5 Mineral Wool</p>	<p><b>Location:</b> Room 247</p> <p><u>Percent Non-Fibrous Material:</u> 30</p>
<p><b>Lab No.:</b> 6258551 <b>Client No.:</b> A-064</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> White/Tan Ceiling Tile <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose 5 Mineral Wool</p>	<p><b>Location:</b> Room 247</p> <p><u>Percent Non-Fibrous Material:</u> 30</p>
<p><b>Lab No.:</b> 6258552 <b>Client No.:</b> A-065</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> White/Tan Ceiling Tile <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose 5 Mineral Wool</p>	<p><b>Location:</b> Room 247</p> <p><u>Percent Non-Fibrous Material:</u> 30</p>
<p><b>Lab No.:</b> 6258553 <b>Client No.:</b> A-066</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Grey Mastic <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose</p>	<p><b>Location:</b> Room 409</p> <p><u>Percent Non-Fibrous Material:</u> 98</p>

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017

**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
**Report No.:** 538139 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258554  
**Client No.:** A-067

**Description:** Silver/Yellow Paint/Caulk  
**Facility:**

**Location:** Room 409

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

*Different Material analyzed than listed on the sample log.*

**Lab No.:** 6258555  
**Client No.:** A-068

**Description:** White/Tan Ceiling Tile  
**Facility:**

**Location:** Room 401

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
65 Cellulose  
5 Mineral Wool

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258556  
**Client No.:** A-069

**Description:** White/Tan Ceiling Tile  
**Facility:**

**Location:** Room 401

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
65 Cellulose  
5 Mineral Wool

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258557  
**Client No.:** A-070

**Description:** White/Tan Ceiling Tile  
**Facility:**

**Location:** Room 405

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
65 Cellulose  
5 Mineral Wool

Percent Non-Fibrous Material:  
30

**Lab No.:** 6258558  
**Client No.:** A-071

**Description:** White/Tan Ceiling Tile  
**Facility:**

**Location:** Room 407

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
60 Cellulose  
10 Mineral Wool

Percent Non-Fibrous Material:  
30

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

**Date Received:** 6/7/2017

**Date Analyzed:** 06/14/2017

**Signature:** 

**Analyst:** Muhammad Mirza

**Approved By:** 

Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258559	<b>Description:</b> Grey Concrete	<b>Location:</b> Room 407
<b>Client No.:</b> A-072	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258560	<b>Description:</b> Grey Concrete	<b>Location:</b> Stairwell 1
<b>Client No.:</b> A-073	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258561	<b>Description:</b> Grey Concrete	<b>Location:</b> Stairwell 1
<b>Client No.:</b> A-074	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

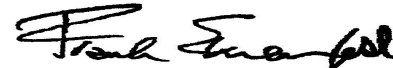
<b>Lab No.:</b> 6258562	<b>Description:</b> Grey Concrete	<b>Location:</b> Stairwell 1
<b>Client No.:</b> A-075	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258563	<b>Description:</b> Grey Concrete	<b>Location:</b> Stairwell 1
<b>Client No.:</b> A-076	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258564	<b>Description:</b> White Joint Compound	<b>Location:</b> Stairwell 1
<b>Client No.:</b> A-077	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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

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**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258565  
**Client No.:** A-078

**Description:** Grey Concrete  
**Facility:**

**Location:** Stairwell 3

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258566  
**Client No.:** A-079

**Description:** Grey Concrete  
**Facility:**

**Location:** Stairwell 3

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258567  
**Client No.:** A-080

**Description:** Grey Concrete  
**Facility:**

**Location:** Stairwell 3

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258568  
**Client No.:** A-081

**Description:** White Joint Compound  
**Facility:**

**Location:** Room 3.01.03

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258569  
**Client No.:** A-082

**Description:** Tan/White Sheetrock  
**Facility:**

**Location:** Room 312

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Cellulose

Percent Non-Fibrous Material:  
90

**Lab No.:** 6258570  
**Client No.:** A-083

**Description:** Dark Red Mastic  
**Facility:**

**Location:** Mechanical Room Adjacent to Stairwell 5

Percent Asbestos:  
*PC 1.3 Chrysotile*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
98.7

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

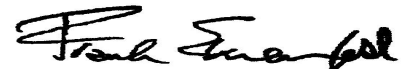
**Date Received:** 6/7/2017

**Date Analyzed:** 06/14/2017

**Signature:**

**Analyst:** Muhammad Mirza

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

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16820 107 Ave  
Edmonton AB T5P 4C3


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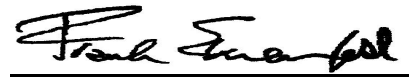
**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258571 <b>Client No.:</b> A-084  <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Beige/Light Grey Vinyl Sheet Flooring <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 10 Synthetic Trace Fibrous Glass	<b>Location:</b> Room 318  <u>Percent Non-Fibrous Material:</u> 80
<b>Lab No.:</b> 6258572 <b>Client No.:</b> A-085  <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Storage Room Adjacent to Room 320  <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258573 <b>Client No.:</b> A-086  <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 323  <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258574 <b>Client No.:</b> A-087  <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> White Joint Compound <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 301D  <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258575 <b>Client No.:</b> A-088  <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Description:</b> Black Caulk <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<b>Location:</b> Room 301  <u>Percent Non-Fibrous Material:</u> 98
<b>Lab No.:</b> 6258576 <b>Client No.:</b> A-089  <u>Percent Asbestos:</u> <b>PC 1.8 Chrysotile</b>	<b>Description:</b> Black Caulk <b>Facility:</b> <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 301  <u>Percent Non-Fibrous Material:</u> 98.2

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017  
**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
 Frank E. Ehrenfeld, III  
 Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963


**Client:** GOL572

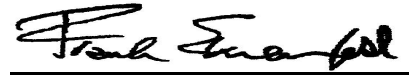
### PLM BULK SAMPLE ANALYSIS SUMMARY

<p><b>Lab No.:</b> 6258577 <b>Client No.:</b> A-090</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Black Caulk <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose</p>	<p><b>Location:</b> Room 3.13.1</p> <p><u>Percent Non-Fibrous Material:</u> 98</p>
<p><b>Lab No.:</b> 6258578 <b>Client No.:</b> A-091</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Tan Insulation <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose</p>	<p><b>Location:</b> Third Floor Concourse</p> <p><u>Percent Non-Fibrous Material:</u> 90</p>
<p><b>Lab No.:</b> 6258579 <b>Client No.:</b> A-092</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Tan Insulation <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose</p>	<p><b>Location:</b> Third Floor Concourse</p> <p><u>Percent Non-Fibrous Material:</u> 90</p>
<p><b>Lab No.:</b> 6258580 <b>Client No.:</b> A-093</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Tan Insulation <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose</p>	<p><b>Location:</b> Third Floor Concourse</p> <p><u>Percent Non-Fibrous Material:</u> 90</p>
<p><b>Lab No.:</b> 6258581 <b>Client No.:</b> A-094</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Tan Insulation <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose</p>	<p><b>Location:</b> Third Floor Concourse</p> <p><u>Percent Non-Fibrous Material:</u> 90</p>
<p><b>Lab No.:</b> 6258582 <b>Client No.:</b> A-095</p> <p><u>Percent Asbestos:</u> <i>None Detected</i></p>	<p><b>Description:</b> Tan Insulation <b>Facility:</b></p> <p><u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose</p>	<p><b>Location:</b> Third Floor Concourse</p> <p><u>Percent Non-Fibrous Material:</u> 90</p>

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/14/2017

**Signature:**   
**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

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16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258583	<b>Description:</b> White Joint Compound	<b>Location:</b> Third Floor Concourse
<b>Client No.:</b> A-096	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258584	<b>Description:</b> White Joint Compound	<b>Location:</b> Third Floor Concourse
<b>Client No.:</b> A-097	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 6258585	<b>Description:</b> Clear/White Caulk	<b>Location:</b> Room 328B
<b>Client No.:</b> A-098	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

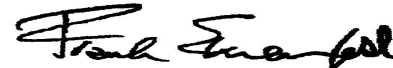
<b>Lab No.:</b> 6258586	<b>Description:</b> Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-099	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258587	<b>Description:</b> Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-100	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258588	<b>Description:</b> Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-101	<b>Facility:</b>	
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Muhammad Mirza

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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Edmonton AB T5P 4C3

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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258589  
**Client No.:** A-102

**Description:** Grey Stucco  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258590  
**Client No.:** A-103

**Description:** Grey Stucco  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258591  
**Client No.:** A-104

**Description:** Grey Stucco  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258592  
**Client No.:** A-105

**Description:** Grey Stucco  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258593  
**Client No.:** A-106

**Description:** Black Caulk  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258594  
**Client No.:** A-107

**Description:** Black Caulk  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

**Date Received:** 6/7/2017

**Date Analyzed:** 06/14/2017

**Signature:** 

**Analyst:** Muhammad Mirza

**Approved By:** 

Frank E. Ehrenfeld, III  
Laboratory Director



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**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258595  
**Client No.:** A-108

**Description:** Light Grey Caulk  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258596  
**Client No.:** A-109

**Description:** Light Grey Caulk  
**Facility:**

**Location:** Exterior

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

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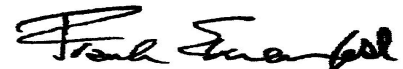
**Date Analyzed:** 06/14/2017

**Signature:**



**Analyst:** Muhammad Mirza

**Approved By:**



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Laboratory Director

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**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](http://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

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/14/2017  
**Report No.:** 538139 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**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](mailto: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 gänge, 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](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://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.

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



# **APPENDIX B**

## **Site Photographs**



**APPENDIX B**  
Site Photographs



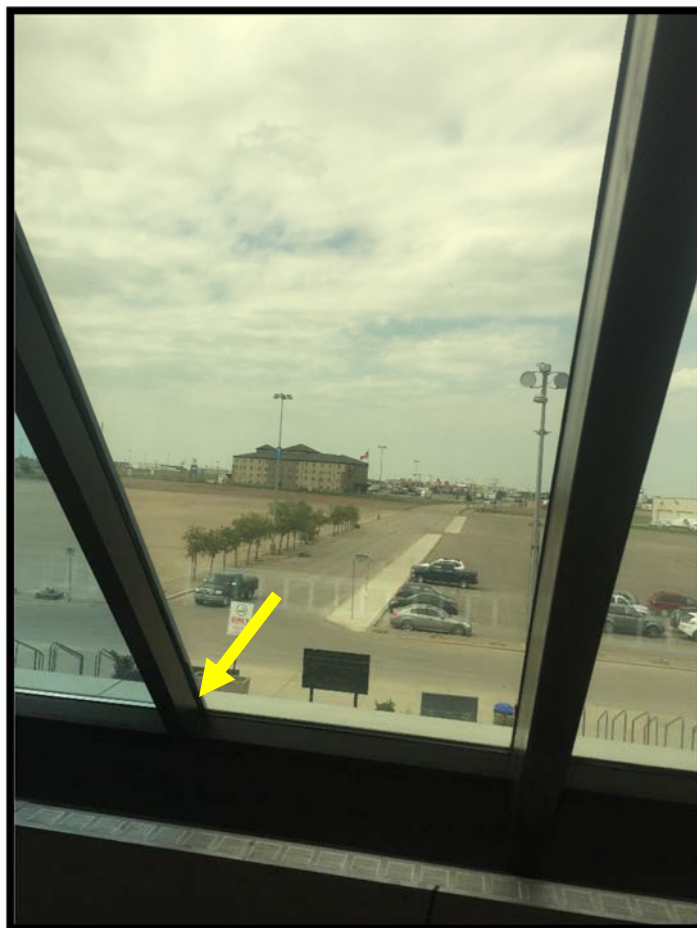
**Photograph 1: Asbestos-Containing Gold/Silver Sink Undercoat.**



**Photograph 2: Asbestos-Containing Red/Brown Duct Mastic.**



## APPENDIX B Site Photographs



**Photograph 3: Asbestos-Containing Black Interior Window Caulking.**

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# **APPENDIX C**

## **Room by Room Spreadsheet**

Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type	
Included	All	Throughout	All	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect doors were observed throughout the Site.																	
Included	All	Throughout	All	Walls	Caulking	White Building Caulking	High	No	Yes	No	Good	White building caulking is located sporadically on walls throughout the Site.																	
Included	A	101.1	Dressing Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.1	Dressing Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.1	Dressing Room	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	A	101.1	Dressing Room	Floor	Floor	Rubber	High	No	No	No	Good																		
Included	A	101.2	Dressing Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.2	Dressing Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good		Bulk	A-023	30-May-17														
Included	A	101.2	Dressing Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.2	Dressing Room	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	A	101.2	Dressing Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.2	Dressing Room	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																		
Included	A	101.2	Dressing Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.2	Dressing Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.2	Dressing Room	Floor	Floor	Rubber	High	No	No	No	Good																		
Included	A	101.2	Dressing Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.2	Dressing Room	Mechanical	Duct Work	Grey Duct Mastic	Low	No	Yes	No	Good		Bulk	A-024	30-May-17														
Included	A	101.3	Fitness Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.3	Fitness Room	Floor	Floor	Rubber	High	No	No	No	Good																		
Included	A	101.3	Fitness Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.6	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.6	Office	Floor	Floor	New Laminate	High	No	No	No	Good																		
Included	A	101.6	Office	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.7	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.7	Office	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.7	Office	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	A	101.7	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.8	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.8	Office	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.8	Office	Floor	Floor	Blue and White Streaked Vinyl Sheet Flooring	High	No	Yes	No	Good		Bulk	A-019	30-May-17														
Included	A	101.8	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.8	Office	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																		
Included	A	101.9	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.9	Office	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.9	Office	Floor	Floor	New Vinyl Sheet Flooring	High	No	No	No	Good																		
Included	A	101.9	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.9	Office	Windows	Windows	Black Interior Window Caulking	High	No	Yes	No	Good																		
Included	A	101.10	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.10	Office	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	A	101.10	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.11	Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-021	30-May-17														
Included	A	101.11	Office	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	A	101.11	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.21 and 101.22	Shower/Storage Area	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.21 and 101.22	Shower/Storage Area	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.21 and 101.22	Shower/Storage Area	Floor	Floor	Rubber	High	No	No	No	Good																		
Included	A	101.21 and 101.22	Shower/Storage Area	Ceiling	Ceiling	Ceiling Tile	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.23	Laundry Room	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.23	Laundry Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.23	Laundry Room	Floor	Floor	Blue and White Streaked Vinyl Sheet Flooring	High	No	Yes	No	Good																		
Included	A	101.23	Laundry Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.24 and 101.25	Medical and Trainer Office	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.24 and 101.25	Medical and Trainer Office	Floor	Floor	Carpet	High	No	Yes	No	Good																		
Included	A	101.24 and 101.25	Medical and Trainer Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	101.24 and 101.25	Medical and Trainer Office	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																		
Included	A	101.26	Skate and Equipment Room	Walls	Block Walls	Drywall Joint Compound	High	No	Yes	No	Good																		
Included	A	101.26	Skate and Equipment Room	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	101.26	Skate and Equipment Room	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good																		
Included	A	101.26	Skate and Equipment Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	102.1	Sticks	Walls	Block Walls	Drywall Joint Compound	High	No	No	No	Good																		
Included	A	102.1	Sticks	Floor	Floor	Rubber	High	No	No	No	Good																		
Included	A	102.1	Sticks	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																	
Included	A	102.4	Hallway	Walls	Block Walls	Drywall Joint Compound	High	No																					





Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	A	147	Shop	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	148	Refrigeration Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	148	Refrigeration Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	148	Refrigeration Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	148	Refrigeration Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	148	Refrigeration Room	Mechanical	Caulking	Grey Exhaust Caulking	High	No	Yes	No	Good																	
Included	A	148	Refrigeration Room	Mechanical	Piping	Metal Cladded Pipe Insulation	High	No	No	No	Good	Non-suspect styrofoam insulating product.																
Included	A	148	Refrigeration Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good																	
Included	A	148	Refrigeration Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	149	Boiler Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	149	Boiler Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	149	Boiler Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	149	Boiler Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	149	Boiler Room	Mechanical	Caulking	Boiler Exhaust Caulking	High	No	Yes	No	Good		Bulk	A-034	30-May-17													
Included	A	149	Boiler Room	Mechanical	Rope Gasket	Boiler Rope Gasket	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	149	Boiler Room	Mechanical	Refractory Brick	Boiler Refractory Brick	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	149	Boiler Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-031, A-032, A-033, and A-035	30-May-17													
Included	A	149	Boiler Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	150	Electrical Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	150	Electrical Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	150	Electrical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	150	Electrical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	150	Electrical Room	Walls	Caulking	White Building Caulking	High	No	Yes	No	Good																	
Included	A	150	Electrical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	151	Generator Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	151	Generator Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	151	Generator Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	151	Generator Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	151	Generator Room	Walls	Caulking	Silver Generator Exhaust Caulking	High	No	Yes	No	Good		Bulk	A-036	30-May-17													
Included	A	151	Generator Room	Mechanical	Piping	Metal Cladded Pipe Insulation	High	No	No	No	Good	Non-suspect fibreglass insulating product.																
Included	A	151	Generator Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually	Low	Inspect and sample if scheduled for removal.				
Included	A	152	Communications Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	152	Communications Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	152	Communications Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	152	Communications Room	Walls	Caulking	Silver Generator Exhaust Caulking	High	No	Yes	No	Good																	
Included	A	152	Communications Room	Mechanical	Firestop	White Firestop	High	No	Yes	No	Good																	
Included	A	153	Hallway	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	153	Hallway	Floor	Floor	Rubber	High	No	No	No	Good																	
Included	A	153	Hallway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	153	Hallway	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	A	153	Hallway	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good																	
Included	A	153	Hallway	Mechanical	Firestop	Red Firestop	High	No	Yes	No	Good																	
Included	A	153	Hallway	Mechanical	Duct Work	Red/Brown Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	VS A-018 and A-083	30-May-17 and 31-May-17	Chrysotile	Duct Mastic	0.75% to 1.3%	No	No	No	Annually	5	Low	Manage in place	25 ft	Photograph 2	Door Jamb
Included	A	153	Hallway	Mechanical	Duct Work	Silver Duct Mastic	High	No	Yes	No	Good																	
Included	A	154, 155, and 156	Lounge	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	154, 155, and 156	Lounge	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	154, 155, and 156	Lounge	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	A	154, 155, and 156	Lounge	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	A	154, 155, and 156	Lounge	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	A	154, 155, and 156	Lounge	Mechanical	Duct Work	Red/Brown Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	A-018	30-May-17	Chrysotile	Duct Mastic	0.75% to 1.3%	No	No	No	Annually	5	Low	Manage in place	15 ft	Photograph 2	Door Jamb
Included	A	154, 155, and 156	Lounge	Plumbing	Sink	Gold Sink Undercoat	High	Yes	Yes	Yes	Good		Bulk	VS A-005	30-May-17	Chrysotile	Sink Undercoat	0.50%	No	No	No	Annually	5	Moderate	Manage in place	1 Sink	Photograph 1	Door Jamb
Included	A	158	Storage Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	158	Storage Room	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	A	158	Storage Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	159	Hallway	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	159	Hallway	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	A	159	Hallway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	159	Hallway	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	A	162	Storage Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	162	Storage Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	A	162	Storage Room	Floor	Floor	Blue and White Streaked Vinyl Sheet Flooring	High	No	Yes	No	Good																	
Included	A	162	Storage Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	A	163	Storage Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	A	163	Storage Room	Floor	Floor	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	A	163	Storage Room	Floor	Floor	Blue and White Streaked Vinyl Sheet Flooring	High	No	Yes	No	Good																	

Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	A	194, 195, 196, and 197	Suite Lounge and Bar	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	A	194, 195, 196, and 197	Suite Lounge and Bar	Floor	Floor	New Floor Tile	High	No	No	No	Good																	
Included	A	194, 195, 196, and 197	Suite Lounge and Bar	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterened Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	A	194, 195, 196, and 197	Suite Lounge and Bar	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good		Bulk	A-017	30-May-17													
Included	A	198	Concourse	Walls	Walls	Block Walls	High	No	Yes	No	Good																	
Included	A	198	Concourse	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	198	Concourse	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	198	Concourse	Mechanical	Firestop	Red Firestop	High	No	Yes	No	Good																	
Included	A	199A	Concourse	Walls	Walls	Concrete	High	No	Yes	No	Good																	
Included	A	199A	Concourse	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	199A	Concourse	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	A	199A	Concourse	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good																	
Included	A	199A	Concourse	Mechanical	Duct Work	White Duct Tape	High	No	No	No	Good	New non-suspect duct tape.																
Included	A	199A	Concourse	Mechanical	Drain Lines	Drain Lines	High	No	No	No	Good	Non-suspect clamped joints of PVC lines.																
Included	A	199A	Concourse	Mechanical	Duct Work	Connector Fabric	High	No	No	No	Good	New non-suspect duct connector fabric.																
Included	A	199B	Storage Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	A	199B	Storage Room	Walls	Walls	Plywood with Compound	High	No	Yes	No	Good																	
Included	A	199B	Storage Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	A	199B	Storage Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Floor	Floor	Underside of Arena Level Ceilings	High	No	Yes	No	Good																	
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Floor	Floor	Metal	High	No	No	No	Good																	
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Firestop	Red Firestop	High	No	Yes	No	Good		Bulk	A-062	30-May-17													
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Drain Lines	Drain Lines	High	No	No	No	Good	Non-suspect clamped joints of PVC lines.																
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Duct Work	Connector Fabric	High	No	No	No	Good	New non-suspect duct connector fabric.																
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good																	
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Duct Work	Red/Brown Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	VS A-018 and A-083	30-May-17 and 31-May-17	Chrysotile	Duct Mastic	0.75% to 1.3%	No	No	No	Annually	5	Low	Manage in place	600 ft	Photograph 2	Door Jamb
Included	C	Arena Level Ceiling Space	Arena Level Ceiling Space	Mechanical	Piping	Pipe-Run Insulation	High	No	No	No	Good	Pipe-run insulation observed to be non-suspect fibreglass throughout the ceiling spaces.																
Included	C	200	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	200	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	200	Hallway	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	C	200	Ticket Booth	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	200	Ticket Booth	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	200	Ticket Booth	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	200	Ticket Booth	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	C	General Office	General Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	General Office	General Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	General Office	General Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	202	Washroom	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	202	Washroom	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	202	Washroom	Floor	Floor	New Floor Tile	High	No	No	No	Good																	
Included	C	202	Washroom	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	203	Office Area	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	203	Office Area	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	203	Office Area	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	203	Office Area	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterened Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	C	204A	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	204A	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	204A	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	204A	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	C	204B	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-044	30-May-17													
Included	C	204B	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	204B	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good		Bulk	A-043	30-May-17													
Included	C	204B	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	C	205A	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	205A	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	205A	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	205A	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	C	205B	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	205B	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	205B	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	205B	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	C	205C	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	205C	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	C	205C	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good																	
Included	C	205C	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	C	205C	Office	Windows	Caulking	Rubber Window Caulking	High																					

Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	C	210	Ticket Booth	Ceiling	Ceiling	2'x4' Ceiling Tile with Widthwise Fissures	High	No	Yes	No	Good		Bulk	A-039 and A-040	30-May-17													
Included	C	210	Ticket Booth	Mechanical	Duct Work	Red/Brown Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	VS A-018 and A-083	30-May-17 and 31-May-17	Chrysotile	Duct Mastic	0.75% to 1.3%	No	No	No	Annually	5	Low	Manage in place	5 ft	Photograph 2	Door Jamb
Included	C	211	Lobby	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	C	211	Lobby	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	211	Lobby	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	211	Lobby	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	C	211	Lobby	Mechanical	Piping	Pipe-Fitting Insulation	High	No	No	No	Good	Non-suspect fibreglass insulating product.																
Included	C	212	Electrical Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	212	Electrical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	C	212	Electrical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	C	212	Electrical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	No	No	Good	Non-suspect PVC fittings.																
Included	C	212	Electrical Room	Mechanical	Firestop	Red Firestop	High	No	Yes	No	Good	Non-suspect fibreglass insulating product.																
Included	C	212	Electrical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	C	213	Washroom	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	213	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	213	Washroom	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good																	
Included	C	214	Janitor Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	214	Janitor Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	C	214	Janitor Room	Ceiling	Ceiling	Plywood	High	No	No	No	Good																	
Included	C	214	Janitor Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-038	30-May-17													
Included	C	214	Janitor Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	Yes	Yes	Yes	Good		Bulk	VS A-018 and A-083	30-May-17 and 31-May-17	Chrysotile	Duct Mastic	0.75% to 1.3%	No	No	No	Annually	5	Low	Manage in place	5 ft	Photograph 2	Door Jamb
Included	C	215	Washroom	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	215	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	215	Washroom	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good		Bulk	A-037	30-May-17													
Included	C	216	Concession	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	216	Concession	Floor	Floor	Beige Vinyl Sheet Flooring with Turquoise and Red Speckles	High	No	Yes	No	Good																	
Included	C	216	Concession	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	C	217	Storage Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	217	Storage Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	217	Storage Room	Floor	Floor	Beige Vinyl Sheet Flooring with Turquoise and Red Speckles	High	No	Yes	No	Good																	
Included	C	217	Storage Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	217	Storage Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	C	218A	First Aid Office	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	218A	First Aid Office	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good																	
Included	C	218A	First Aid Office	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good																	
Included	C	218A	First Aid Office	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																	
Included	C	219A	Washroom	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	219A	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	219A	Washroom	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-057	30-May-17													
Included	C	219B	Janitor Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	219B	Janitor Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	C	219B	Janitor Room	Ceiling	Ceiling	Unfinished Drywall	High	No	No	No	Good																	
Included	C	219B	Janitor Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good																	
Included	C	219B	Janitor Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good																	
Included	C	220A	Washroom	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	220A	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	220A	Washroom	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good																	
Included	C	220B	Electrical Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	220B	Electrical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	C	220B	Electrical Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-055	30-May-17													
Included	C	220B	Electrical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-056	30-May-17													
Included	C	221A	Concession	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	221A	Concession	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	221A	Concession	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	C	221B	Storage Room	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	221B	Storage Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	C	221B	Storage Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	C	221B	Storage Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	C	221B	Storage Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	C	221C	Bar	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	C	221C	Bar	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	C	221C	Bar	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	C	221C	Bar	Mechanical	Piping	Pipe-Fitting Insulation	High	No	No	No	Good	Non-suspect PVC and fibreglass fittings.																
Included	C	221C	Bar	Mechanical	Drain Lines	Drain Lines	High	No	No	No	Good	Non-suspect clamped joints or PVC lines.																
Included	C	223	Washroom	Walls	Walls	Block Walls	High	No	No	No																		











Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	M	332	Open Area	Walls	Walls	Fibreglass Panels	High	No	No	No	Good																	
Included	M	332	Open Area	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	M	332	Open Area	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	M	332	Open Area	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	332	Open Area	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	M	332	Open Area	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good																	
Included	M	333	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	333	Hallway	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	333	Hallway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	M	333	Hallway	Windows	Caulking	Black Window Caulking	High	No	Yes	No	Good																	
Included	M	333	Hallway	Mechanical	Piping	Pipe-Fitting Insulation	High	No	No	No	Good	Non-suspect fibreglass insulating product.																
Included	M	CS308A	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	CS308A	Suite	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	CS308A	Suite	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M	CS308A	Suite	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																	
Included	M	CS340	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	CS340	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	M	CS340	Suite	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M	CS340	Suite	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																	
Included	M	CS341	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	CS341	Suite	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	CS341	Suite	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M	CS341	Suite	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																	
Included	M	Concourse	Concourse	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-096 and A-097	31-May-17													
Included	M	Concourse	Concourse	Walls	Walls	Block Walls	High	No	No	No	Good																	
Included	M	Concourse	Concourse	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	Concourse	Concourse	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	M	Concourse	Concourse	Ceiling	Ceiling	Spray-Applied Fireproofing	High	No	Yes	No	Good		Bulk	A-091, A-092, A-093, A-094, and A-095	31-May-17													
Included	M	Concourse	Concourse	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good																	
Included	G	401	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	401	Suite	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	401	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	401	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good		Bulk	A-068 and A-069	31-May-17													
Included	G	402	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	402	Suite	Floor	Floor	Wood	High	No	No	No	Good																	
Included	G	402	Suite	Ceiling	Ceiling	New Laminate	High	No	No	No	Good																	
Included	G	402	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Long Fissures	High	No	Yes	No	Good																	
Included	G	403	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	403	Suite	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	403	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	403	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Long Fissures	High	No	Yes	No	Good																	
Included	G	404	Lounge	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	404	Lounge	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	404	Lounge	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	404	Lounge	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	G	405	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	405	Suite	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	405	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	405	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good		Bulk	A-070	31-May-17													
Included	G	406	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	406	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	406	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good																	
Included	G	407	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-072	31-May-17													
Included	G	407	Suite	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	407	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	407	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Small Pinholes and Small Divots	High	No	Yes	No	Good		Bulk	A-071	31-May-17													
Included	G	408	Suite	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	408	Suite	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	408	Suite	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	408	Suite	Ceiling	Ceiling	1'x1' Ceiling Tile with Long Fissures	High	No	Yes	No	Good																	
Included	G	409	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	409	Hallway	Walls	Walls	Pre-Fabricated Panels	High	No	No	No	Good																	
Included	G	409	Hallway	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	409	Hallway	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	G	409	Hallway	Mechanical	Duct Work	Silver Duct Mastic	High	No	Yes	No	Good		Bulk	A-067	31-May-17													
Included	G	409	Hallway	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good		Bulk	A-066	31-May-17													
Included	G	409	Hallway	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	G	410	Booth	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	410	Booth	Walls	Walls	Wood	High	No	No	No	Good																	
Included	G	410	Booth	Walls	Walls	Pre-Fabricated Panels	High	No	No	No	Good																	
Included	G	410	Booth	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	410	Booth	Ceiling	Ceiling	Metal	High	No	Yes	No	Good																	
Included	G	411	Booth	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	G	411	Booth	Walls	Walls	Pre-Fabricated Panels	High	No	No	No	Good																	
Included	G	411	Booth	Floor	Floor	New Laminate	High	No	No	No	Good																	
Included	G	411	Booth	Ceiling	Ceiling	Metal	High	No	Yes	No	Good																	
Included	N/A	Main Elevator	Elevator	Walls	Walls	Wood	High	No	No	No	Good																	
Included	N/A	Main Elevator	Elevator	Floor	Floor	Metal	High	No	No	No	Good																	
Included	N/A	Main Elevator	Elevator	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	N/A	SW 1	Stairwell	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good		Bulk	A-073, A-074, A-075, and A-076	31-May-17													
Included	N/A	SW 1	Stairwell	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	N/A	SW 1	Stairwell	Floor	Floor	Ceramic Tile	High	No	No	No																		

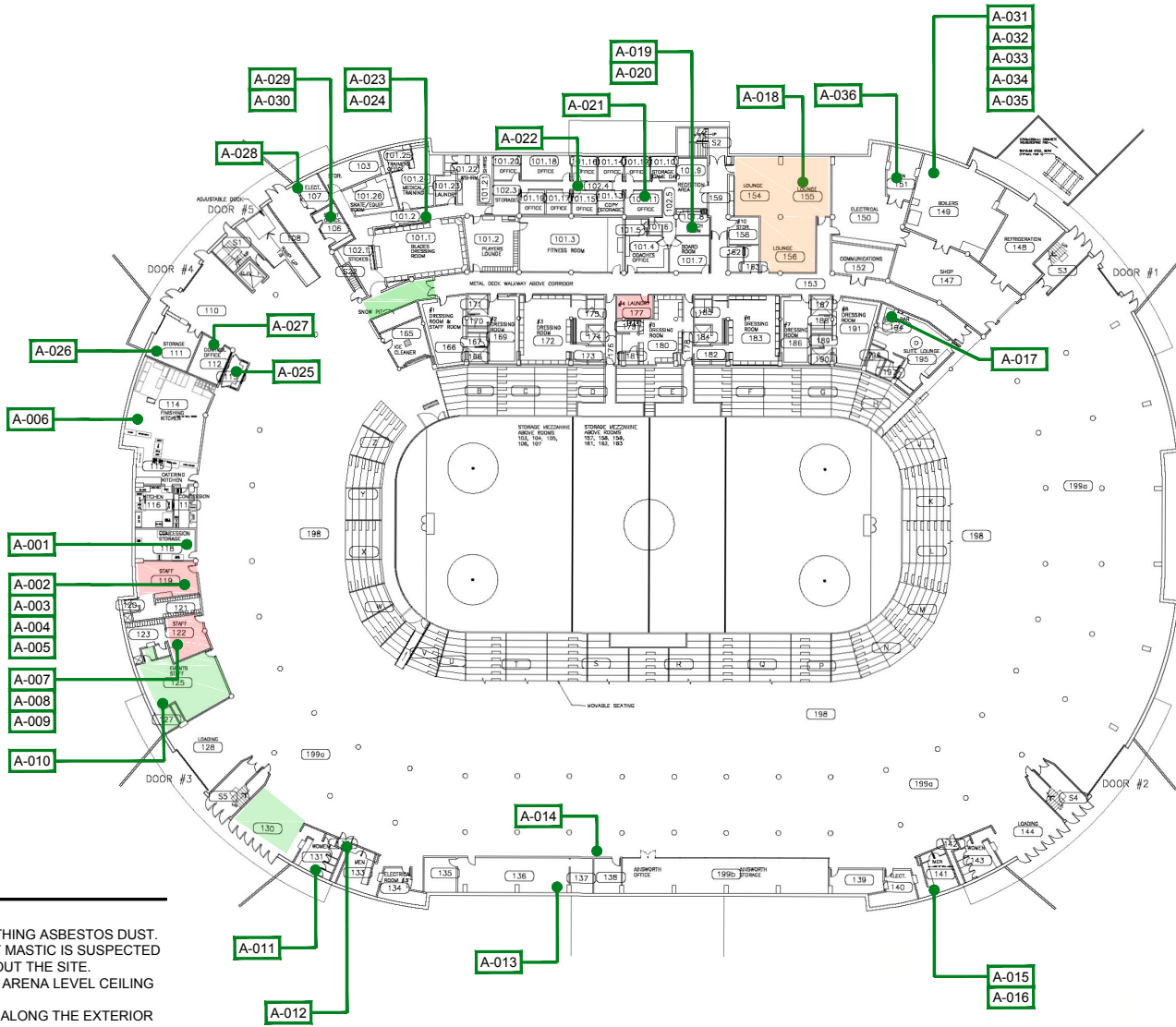
Appendix C  
Sasktel Centre  
ACM Inventory

Included/Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	N/A	Exterior	Exterior	Walls	Walls	Stucco	High	No	Yes	No	Good		Bulk	A-099, A-100, A-101, A-102, A-103, A-104, and A-105	31-May-17													
Included	N/A	Exterior	Exterior	Walls	Caulking	Grey Building Caulking	High	No	Yes	No	Good		Bulk	A-108	31-May-17													
Included	N/A	Exterior	Exterior	Windows	Caulking	Black Window Caulking	High	No	Yes	No	Good		Bulk	A-106 and A-107	31-May-17													
Included	N/A	Exterior	Exterior	Windows	Caulking	White Window Frame Caulking	High	No	Yes	No	Good		Bulk	A-109	31-May-17													
Excluded	A	103	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	133	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	134	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	137	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	140	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	166	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	167	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	168	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	169	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	170	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	171	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	186	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	187	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	188	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	189	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	190	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	A	191	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	218B	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	221D	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	222	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	224	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	233	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	C	240B	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	M	301B	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	M	302	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	M	311	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	M	320	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	M	321	N/A	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided/area was under renovation/construction.																
Excluded	G	Areas Outside of the Main Gondola Level Walkway	Areas outside of the main walkway	Entire Area	Entire Area	N/A	N/A	N/A	N/A	N/A	N/A	Access to the entire area was not provided due to safety concerns.																
Excluded	N/A	Elevator 2	N/A	Elevator	Elevator	N/A	N/A	N/A	N/A	N/A	N/A	Access to the Elevator was not provided.																
Excluded	M	Areas Outside of the Main Walkway	Mechanical Room Adjacent S5	Entire Area	Entire Area	N/A	N/A	N/A	N/A	N/A	N/A	Room assessed from the walkway only.																
Excluded	A	Arena Level Ceiling Space	Arena Level Ceiling Space	Entire Area	Entire Area	N/A	N/A	N/A	N/A	N/A	N/A	Room assessed from the walkway only.																



# **APPENDIX D**

## **Floor Plans**



**NOTE(S)**

1. ASBESTOS IS A CARCINOGEN. AVOID BREATHING ASBESTOS DUST. ASBESTOS-CONTAINING RED / BROWN DUCT MASTIC IS SUSPECTED TO BE LOCATED ON DUCT WORK THROUGHOUT THE SITE.
2. ASBESTOS-CONTAINING RED / BROWN DUCT MASTIC IS SUSPECTED TO BE LOCATED ON DUCT WORK THROUGHOUT THE SITE.
3. SAMPLE A-062 WAS COLLECTED WITHIN THE ARENA LEVEL CEILING SPACE.
4. SAMPLES A-099 TO A-109 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

**LEGEND**

- # ASBESTOS - CONTAINING SAMPLE LOCATION
- ASBESTOS - CONTAINING DUCT MASTIC
- ASBESTOS - CONTAINING SINK UNDERCOAT
- ASBESTOS - CONTAINING SINK UNDERCOAT AND DUCT MASTIC

**REFERENCE(S)**

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY 11/10/2005.



CLIENT  
CITY OF SASKATOON

CONSULTANT

YYYY-MM-DD 2017-07-10

DESIGNED KH

PREPARED YAW

REVIEWED KH

APPROVED AG

**SCHEMATIC ONLY, NOT TO SCALE**

PROJECT  
ASBESTOS ASSESSMENT  
SASKTEL CENTRE  
3515 THATCHER AVENUE

TITLE  
**ARENA LEVEL**

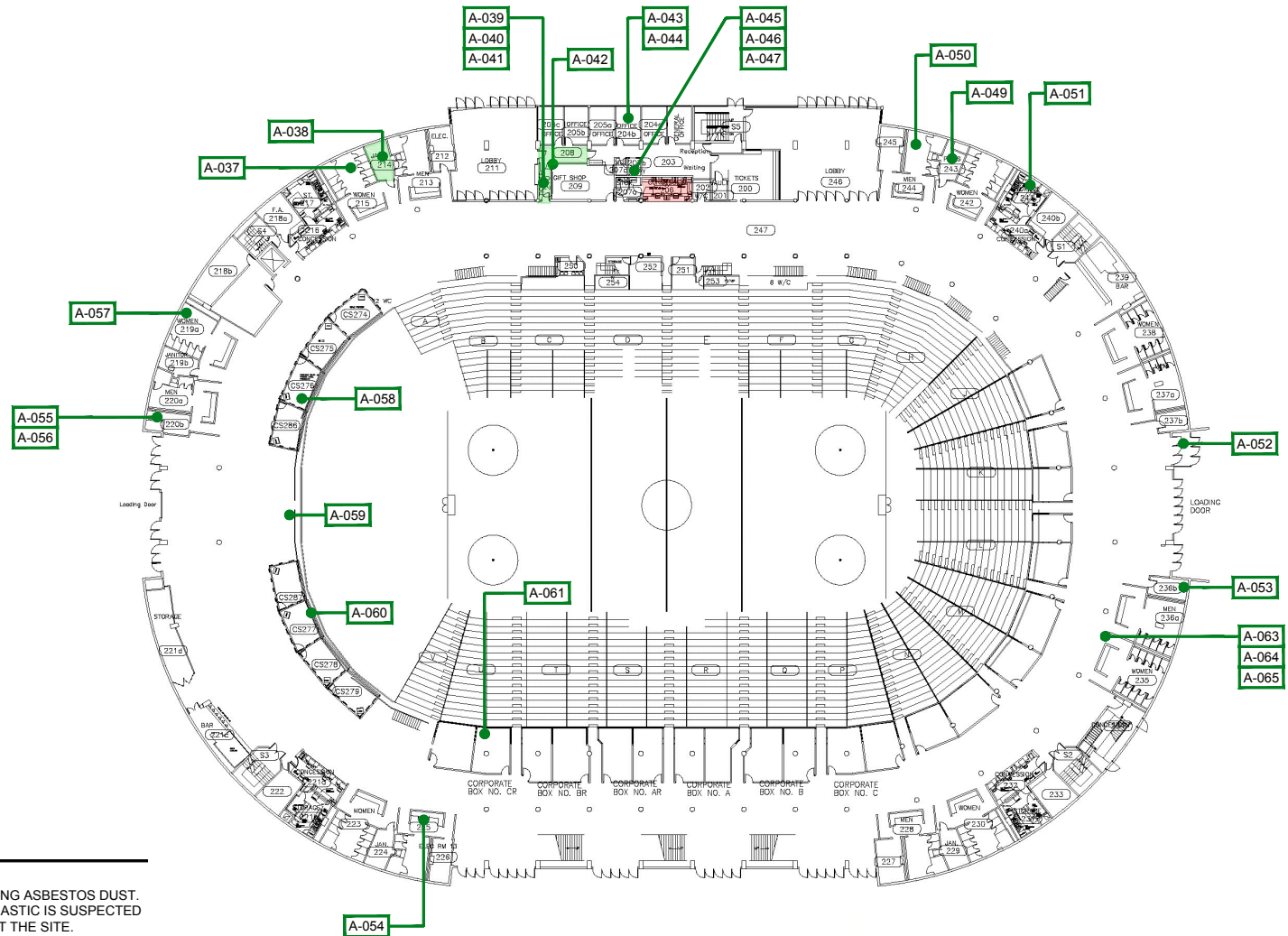
PROJECT NO.  
1667963

CONTROL  
1000-HM-0001

REV.  
0

FIGURE  
1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIA 26 mm



**NOTE(S)**

1. ASBESTOS IS A CARCINOGEN. AVOID BREATHING ASBESTOS DUST.
2. ASBESTOS-CONTAINING RED / BROWN DUCT MASTIC IS SUSPECTED TO BE LOCATED ON DUCT WORK THROUGHOUT THE SITE.
3. SAMPLE A-062 WAS COLLECTED WITHIN THE ARENA LEVEL CEILING SPACE.
4. SAMPLES A-099 TO A-109 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

**LEGEND**

- # ASBESTOS - CONTAINING SAMPLE LOCATION
- ASBESTOS - CONTAINING DUCT MASTIC
- ASBESTOS - CONTAINING SINK UNDERCOAT
- ASBESTOS - CONTAINING SINK UNDERCOAT AND DUCT MASTIC

**REFERENCE(S)**

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY 11/10/2005.

CLIENT  
**CITY OF SASKATOON**

CONSULTANT



YYYY-MM-DD 2017-07-10

DESIGNED KH

PREPARED YAW

REVIEWED KH

APPROVED AG

**SCHEMATIC ONLY, NOT TO SCALE**

PROJECT  
**ASBESTOS ASSESSMENT  
 SASKTEL CENTRE  
 3515 THATCHER AVENUE**

TITLE  
**CONCOURSE LEVEL**

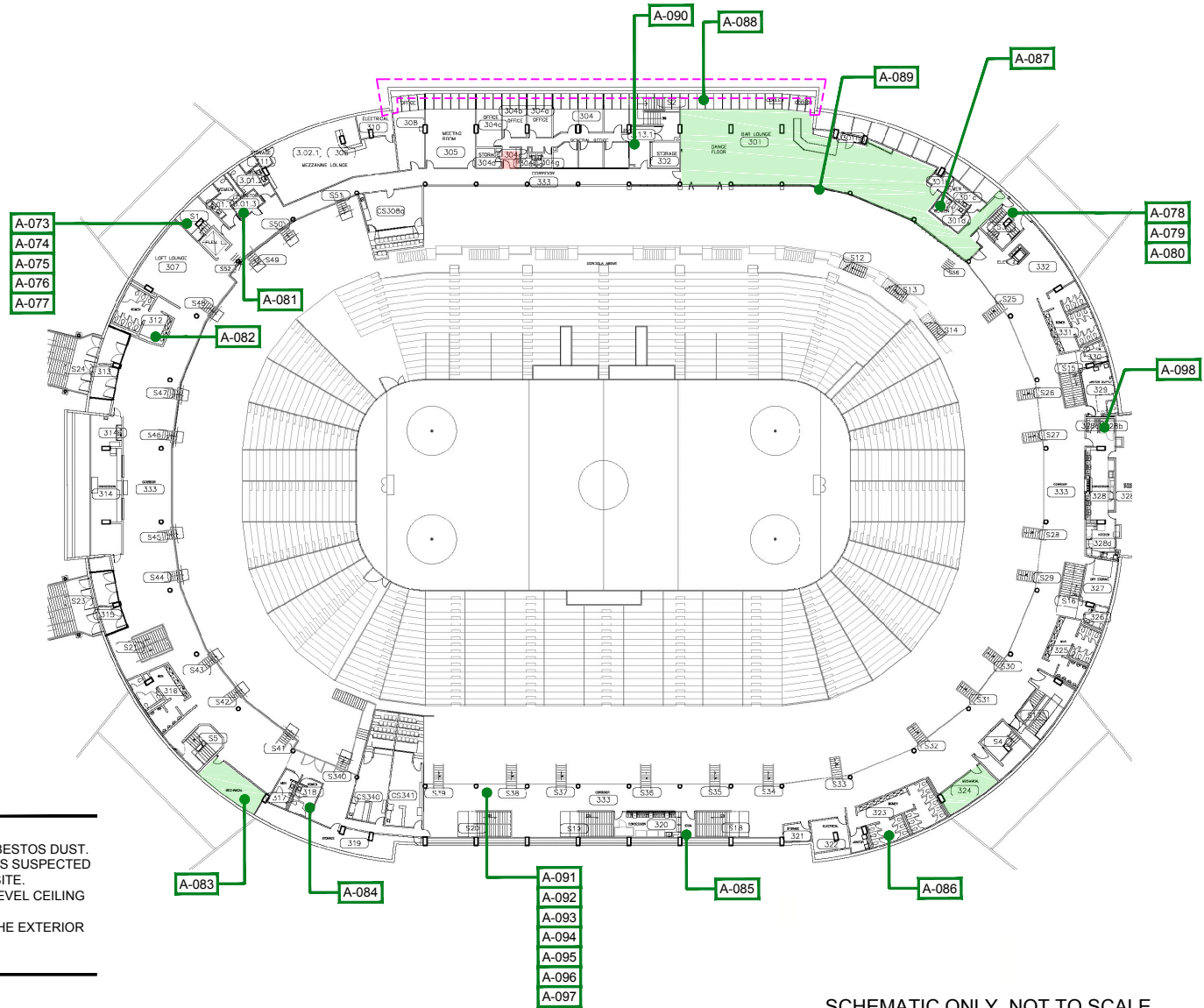
PROJECT NO.  
 1667963

CONTROL  
 1000-HM-0002

REV.  
 0

FIGURE  
**2**

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI A



**NOTE(S)**

1. ASBESTOS IS A CARCINOGEN. AVOID BREATHING ASBESTOS DUST.
2. ASBESTOS-CONTAINING RED / BROWN DUCT MASTIC IS SUSPECTED TO BE LOCATED ON DUCT WORK THROUGHOUT THE SITE.
3. SAMPLE A-062 WAS COLLECTED WITHIN THE ARENA LEVEL CEILING SPACE.
4. SAMPLES A-099 TO A-109 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

**LEGEND**

- # ASBESTOS - CONTAINING SAMPLE LOCATION
- ASBESTOS - CONTAINING DUCT MASTIC
- ASBESTOS - CONTAINING SINK UNDERCOAT
- ASBESTOS - CONTAINING SINK UNDERCOAT AND DUCT MASTIC
- ASBESTOS - CONTAINING WINDOW CAULKING

**REFERENCE(S)**

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY 11/10/2005.

CLIENT  
**CITY OF SASKATOON**

CONSULTANT



YYYY-MM-DD 2017-07-10

DESIGNED KH

PREPARED YAW

REVIEWED KH

APPROVED AG

**SCHEMATIC ONLY, NOT TO SCALE**

PROJECT  
**ASBESTOS ASSESSMENT  
 SASKTEL CENTRE  
 3515 THATCHER AVENUE**

TITLE  
**MEZZANINE LEVEL**

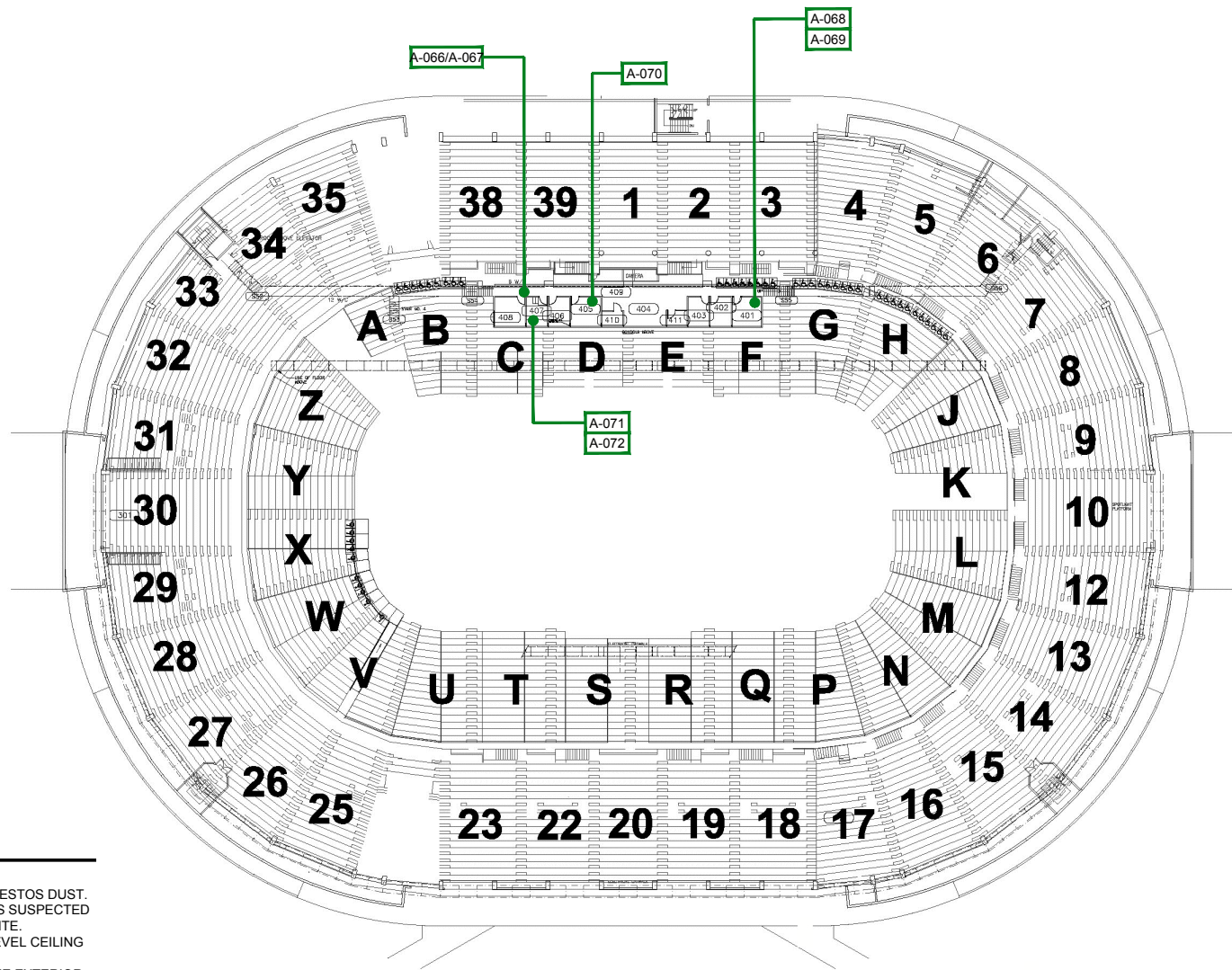
PROJECT NO.  
**1667963**

CONTROL  
**1000-HM-0003**

REV.  
**0**

FIGURE  
**3**

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A



**NOTE(S)**

1. ASBESTOS IS A CARCINOGEN. AVOID BREATHING ASBESTOS DUST.
2. ASBESTOS-CONTAINING RED / BROWN DUCT MASTIC IS SUSPECTED TO BE LOCATED ON DUCT WORK THROUGHOUT THE SITE.
3. SAMPLE A-062 WAS COLLECTED WITHIN THE ARENA LEVEL CEILING SPACE.
4. SAMPLES A-099 TO A-109 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

**LEGEND**

- # ASBESTOS - CONTAINING SAMPLE LOCATION
- ASBESTOS - CONTAINING DUCT MASTIC
- ASBESTOS - CONTAINING SINK UNDERCOAT
- ASBESTOS - CONTAINING SINK UNDERCOAT AND DUCT MASTIC

**REFERENCE(S)**

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY 12/10/2005.

CLIENT  
CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD 2017-07-10

DESIGNED KH

PREPARED YAW

REVIEWED KH

APPROVED AG

SCHMATIC ONLY, NOT TO SCALE

PROJECT  
ASBESTOS ASSESSMENT  
SASKTEL CENTRE  
3515 THATCHER AVENUE

TITLE  
**GONDOLA LEVEL**

PROJECT NO.  
1667963

CONTROL  
1000-HM-0004

REV.  
0

FIGURE  
4

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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