



December 7, 2017

CITY OF SASKATOON

Asbestos-Containing Building Materials Assessment Report - Vic Rempel Administration Building



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 Vic Rempel Administration Building (the Site) located at 325 – 3rd Avenue North in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on September 5, 2017 and the assessment was conducted on October 15, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were identified within the Vic Rempel Administration Building 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 Vic Rempel Administration Building consists of office spaces, washrooms, storage rooms, meeting rooms, and hallways and was constructed in 1989. During the assessment, the entire building was treated as one functional space.

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

3.1 Asbestos-Containing Materials

A total of thirty (30) samples of building materials were collected and tested for asbestos content during the assessment of the Assessors Building. One (1) of the samples was found to contain asbestos.

Potential asbestos-containing materials may be located within the electrical panels on Site.

3.1.1 List of Identified Asbestos-Containing Materials

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

- Gold Sink Undercoat.

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

Gold Sink Undercoat

One (1) sample of gold sink undercoat was collected during the assessment. The sample collected was found to contain 4.1% Chrysotile asbestos. Asbestos-containing gold sink undercoat (see Photograph 1 in Appendix B) was observed in the following locations:

- Room 138 (approximately 1 sink).

3.1.2 Non Asbestos-Containing Materials

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

- White building caulking;
- Brick mortar;
- Drywall joint compound;
- White pipe caulking;
- Dark brown duct mastic;



- White sink undercoat;
- Grey duct mastic;
- Grey firestop;
- Pipe-fitting insulation;
- Grey floor levelling compound;
- Black window caulking;
- Brown window frame caulking;
- Grey building caulking;
- The 2'x4' textured ceiling tiles were date coded to a time period in which asbestos use was not widespread;
- The duct work throughout the ceiling space was observed to be uninsulated; and
- The walls were observed to be constructed of concrete block, brick, pre-fabricated drywall, and drywall with non-asbestos-containing joint compound with ceilings constructed of non-asbestos-containing ceiling tiles, followed by a second drywall ceiling finished with non-asbestos-containing drywall joint compound above the ceiling tiles. The flooring throughout the building was observed to be carpet, concrete, or ceramic tiles.

4.0 EXCLUDED AREAS AND MATERIALS

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

- 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 concrete block walls were not assessed by Golder during the assessment as per Tender 16-0844. If the concrete block walls are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The electrical panels and associated components were not inspected by Golder during the assessment. If the panels are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The crawlspace that is accessible via Room 124 was not entered as it was deemed to be a confined space. If the crawlspace is to be impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.



5.0 CONCLUSIONS AND RECOMMENDATIONS

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

5.1 Asbestos-Containing Materials

Asbestos was positively identified within the gold sink undercoat on Site. Asbestos was not identified in the remaining samples collected and analyzed.

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

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

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

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

Gold Sink Undercoat

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

6.0 SURVEY LIMITATIONS

This report is based on data and information collected by Golder during the assessment conducted on October 15, 2017 and is based solely on site conditions encountered at the time of the assessment. Any use of this document or the findings, conclusions or recommendations provided in this report by any person other than the City of Saskatoon is at the sole risk of such user.

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



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

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

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

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

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

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

7.0 CLOSURE

We trust the information presented in this report meets your requirements. If you have any questions, please contact Kody Henderson at (780) 483-3499 or email at 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:

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

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

KH/AG/ba

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APPENDIX A

Laboratory Certificate of Analysis Report

CERTIFICATE OF ANALYSIS

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

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368275
Client No.: A-001
Analyst Observation: White/Grey Caulk
Client Description: White Bldg Caulking
Location: Rm 101
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368276
Client No.: A-002
Analyst Observation: Red Brick
Client Description: Brick Mortar
Location: Rm 109
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100


Lab No.: 6368276(L2)
Client No.: A-002
Analyst Observation: Grey Mortar
Client Description: Brick Mortar
Location: Rm 109
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

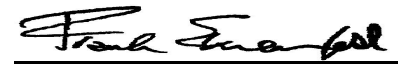
Lab No.: 6368277
Client No.: A-003
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Rm 102
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368278
Client No.: A-004
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Rm 103
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368279
Client No.: A-005
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Rm 142
Facility:
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: 10/18/2017
Date Analyzed: 10/28/2017
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368280
Client No.: A-006
Analyst Observation: White Caulk
Client Description: White Bldg Caulking
Location: Rm 142
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368281
Client No.: A-007
Analyst Observation: White Joint Compound
Client Description: Drywall Joint Compound
Location: Rm 110
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100


Lab No.: 6368281(L2)
Client No.: A-007
Analyst Observation: Yellow Mastic
Client Description: Drywall Joint Compound
Location: Rm 110
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

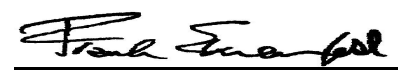
Lab No.: 6368282
Client No.: A-008
Analyst Observation: White Caulk
Client Description: White Pipe Caulking
Location: Crawlspace
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368282(L2)
Client No.: A-008
Analyst Observation: Grey Cementitious
Client Description: White Pipe Caulking
Location: Crawlspace
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6368283
Client No.: A-009
Analyst Observation: Brown Mastic
Client Description: Dk Brown Duct Mastic
Location: Crawlspace
Facility:
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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Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368284 **Analyst Observation:** Gold Sink Undercoating **Location:** Rm 138
Client No.: A-010 **Client Description:** Gold Sink Undercoat **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 4.1 Chrysotile None Detected 95.9

Lab No.: 6368285 **Analyst Observation:** Brown Mastic **Location:** Rm 138
Client No.: A-011 **Client Description:** Dk Brown Duct Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 6368286 **Analyst Observation:** White Joint Compound **Location:** Rm 130
Client No.: A-012 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

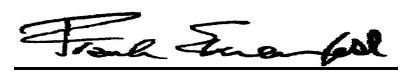
Lab No.: 6368286(L2) **Analyst Observation:** Yellow Mastic **Location:** Rm 130
Client No.: A-012 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6368287 **Analyst Observation:** White/Brown Sheetrock/Joint **Location:** Rm 117; Composite
Client No.: A-013 **Compound** **Facility:**
Client Description: Drywall Joint Compound Percent Non-Fibrous Material:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: 90
None Detected 10 Cellulose

Lab No.: 6368288 **Analyst Observation:** White/Brown Sheetrock **Location:** Rm 124
Client No.: A-014 **Client Description:** Drywall Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 15 Cellulose 85

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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16820 107 Ave
Edmonton AB T5P 4C3


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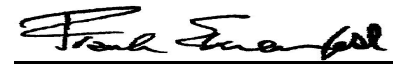
Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368289 Client No.: A-015	Analyst Observation: White Sink Undercoating Client Description: White Sink Undercoat	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6368290 Client No.: A-016	Analyst Observation: Grey/Silver Mastic/Foil Client Description: Grey Duct Mastic	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 6368291 Client No.: A-017	Analyst Observation: Grey Insulation Client Description: Grey Firestop	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90
Lab No.: 6368292 Client No.: A-018	Analyst Observation: Grey Insulation Client Description: Pipe-Fitting Insulation	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 60
Lab No.: 6368293 Client No.: A-019	Analyst Observation: Grey Insulation Client Description: Pipe-Fitting Insulation	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 60
Lab No.: 6368293(L2) Client No.: A-019	Analyst Observation: Yellow Insulation Client Description: Pipe-Fitting Insulation	Location: Rm 124 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 5

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

Date Received: 10/18/2017
Date Analyzed: 10/28/2017
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368294
Client No.: A-020
Analyst Observation: Off-White Insulation
Client Description: Pipe-Fitting Insulation
Location: Rm 124
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 40 Mineral Wool 60

Lab No.: 6368295
Client No.: A-021
Analyst Observation: Grey Insulation
Client Description: Pipe-Fitting Insulation
Location: Rm 124
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 50 Mineral Wool 50


Lab No.: 6368296
Client No.: A-022
Analyst Observation: Grey Insulation
Client Description: Pipe-Fitting Insulation
Location: Rm 124
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 50 Mineral Wool 50

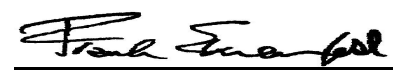
Lab No.: 6368297
Client No.: A-023
Analyst Observation: Grey/Yellow Leveling Compound / Mastic
Client Description: Grey Floor Leveling Compound
Location: Rm 110
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6368298
Client No.: A-024
Analyst Observation: Grey Mortar
Client Description: Brick Mortar
Location: Exterior
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6368299
Client No.: A-025
Analyst Observation: Grey Mortar
Client Description: Brick Mortar
Location: Exterior
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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

Date Received: 10/18/2017
Date Analyzed: 10/28/2017
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6368300 **Analyst Observation:** Grey Mortar **Location:** Exterior
Client No.: A-026 **Client Description:** Brick Mortar **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 6368301 **Analyst Observation:** Grey Mortar **Location:** Exterior
Client No.: A-027 **Client Description:** Brick Mortar **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

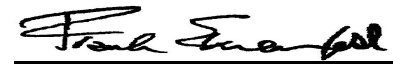
Lab No.: 6368302 **Analyst Observation:** Black Caulk **Location:** Exterior
Client No.: A-028 **Client Description:** Black Window Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 5 Cellulose 95

Lab No.: 6368303 **Analyst Observation:** Brown Caulk **Location:** Exterior
Client No.: A-029 **Client Description:** Brown Window Frame Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 6368304 **Analyst Observation:** Grey Caulk **Location:** Exterior
Client No.: A-030 **Client Description:** Grey Bldg Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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

Date Received: 10/18/2017
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Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

Client: GOL572

Appendix to Analytical Report

Customer Contact:

Analysis: US EPA 600, R93-116

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

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com

iATL Account Representative: Pete Lesniak

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

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

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

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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)>

CERTIFICATE OF ANALYSIS

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

Client: GOL572

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

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

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

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

Disclaimers / Qualifiers:

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

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

Recommendations for Vermiculite Analysis:

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

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

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

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

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

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
- 2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.
- 4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.
- 5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004

CERTIFICATE OF ANALYSIS

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

Client: GOL572

Report Date: 10/28/2017
Report No.: 550049 - PLM
Project: Vic Rempel Admin Bldg
Project No.: 1667963

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



Photograph 1: Asbestos-Containing Gold Sink Undercoat.

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APPENDIX C

Vic Rempel Administration Building Room by Room Spreadsheet

Appendix C
Vic Rempel Administration Building
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	Labeling Type
Included	M	All	All	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect doors.																
Included	M	All	All	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good	A finished drywall ceiling is located above the ceiling tiles throughout the Building.		VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	All	All	Walls	Caulking	White Building Caulking	High	No	Yes	No	Good	White building caulking (painted grey sporadically) is located on walls throughout the Building. Samples collected in Room 101 (A-001), Room 142 (A-006), and the Office Crawlspace (A-008).	Bulk	A-001, A-006, A-008	15-Oct-17													
Included	M	All	All	Floor	Floor	Grey Floor Levelling Compound	High	No	Yes	No	Good	Grey floor levelling compound was observed sporadically below carpeting throughout the Building. Sample collected in Room 110.	Bulk	A-023	15-Oct-17													
Included	M	All	All	Mechanical	Duct	Dark Brown Duct Mastic	High	No	Yes	No	Good	Uninsulated duct work with dark brown duct mastic was observed throughout the ceiling space of all areas assessed. Samples collected in the Office Crawlspace (A-009) and Room 13B (A-011).	Bulk	A-009, A-011	15-Oct-17													
Included	M	101	Vestibule	Walls	Walls	Brick Mortar	High	No	Yes	No	Good			VS A-002, A-024, A-025, A-026, A-027														
Included	M	101	Vestibule	Floor	Floor	Ceramic Tile	High	No	Yes	No	Good																	
Included	M	101	Vestibule	Ceiling	Ceiling	Metal Slats	High	No	No	No	Good		Bulk	A-001	15-Oct-17													
Included	M	101	Vestibule	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	101	Vestibule	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	102	Lobby	Walls	Walls	Brick Mortar	High	No	Yes	No	Good			VS A-002, A-024, A-025, A-026, A-027														
Included	M	102	Lobby	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-003	15-Oct-17													
Included	M	102	Lobby	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	102	Lobby	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	103	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	103	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-004	15-Oct-17													
Included	M	103	Offices	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	103	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	103	Offices	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good	Behind drywall.																
Included	M	103	Offices	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.													Inspect and sample if scheduled for removal.			
Included	M	104	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	104	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	104	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	104	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	104	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good	Behind drywall.																
Included	M	105	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	105	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	105	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	105	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	106	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	106	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	106	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	107	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	107	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	107	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	108	Printer Area	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	108	Printer Area	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	109	Printer Area	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	109	Vestibule	Walls	Walls	Brick Mortar	High	No	Yes	No	Good		Bulk	A-002	15-Oct-17													
Included	M	109	Vestibule	Floor	Floor	Ceramic Tile	High	No	Yes	No	Good																	
Included	M	109	Vestibule	Ceiling	Ceiling	Metal Slats	High	No	No	No	Good																	
Included	M	109	Vestibule	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	110	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-007	15-Oct-17													
Included	M	110	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	110	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	110	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	111	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	111	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	111	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	111	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	111	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	112	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	112	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014														
Included	M	112	Offices	Floor	Floor	Carpet	High	No	No	No	Good																	

Appendix C
Vic Rempel Administration Building
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	Labeling Type
Included	M	112	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	112	Offices	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	113	Hallway	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	113	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	113	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	113	Hallway	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	114	Hallway	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	114	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	114	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	114	Hallway	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	115	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	115	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	115	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	116	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	116	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	116	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	117	Janitor Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	117	Janitor Room	Floor	Floor	Concrete	High	No	No	No	Good		Bulk	A-013	15-Oct-17													
Included	M	117	Janitor Room	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	117	Janitor Room	Mechanical	Duct	Dark Brown Duct Mastic	High	No	Yes	No	Good																	
Included	M	118	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	118	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	118	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	118	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	118	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	119	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	119	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	119	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	119	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	119	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	120	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	120	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	120	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	120	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	120	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	121	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	121	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	121	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	121	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	121	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	122	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	122	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	122	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	122	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	123	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	123	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																	
Included	M	123	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	123	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	124	Mechanical Room	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																	
Included	M	124	Mechanical Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	124	Mechanical Room	Walls	Walls	Concrete Block	High	No	No	No	Good																	
Included	M	124	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	124	Mechanical Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good																	
Included	M	124	Mechanical Room	Plumbing	Sink	White Sink Undercoat	High	No	Yes	No	Good																	
Included	M	124	Mechanical Room	Mechanical	Duct	Dark Brown Duct Mastic (Painted White)	High	No	Yes	No	Good																	
Included	M	124	Mechanical Room	Mechanical	Duct	Grey Duct Mastic	High	No	Yes	No	Good																	

Appendix C
Vic Rempel Administration Building
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	124	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-018, A-019, A-020, A-021, A-022	15-Oct-17														
Included	M	124	Mechanical Room	Walls	Firestop	Grey Firestop	High	No	Yes	No	Good		Bulk	A-017	15-Oct-17														
Included	M	124	Mechanical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.													Inspect and sample if scheduled for removal.				
Included	M	125	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																		
Included	M	125	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																		
Included	M	125	Washroom	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	126	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	126	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	126	Hallway	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	127	Boardroom	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	127	Boardroom	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	127	Boardroom	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	128	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	128	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	128	Hallway	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	128	Hallway	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.													Inspect and sample if scheduled for removal.				
Included	M	129	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																		
Included	M	129	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																		
Included	M	129	Washroom	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	130	Hallway	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-012	15-Oct-17														
Included	M	130	Hallway	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																		
Included	M	130	Hallway	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	130	Hallway	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	131	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																		
Included	M	131	Offices	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	131	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	
Included	M	132	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	132	Office	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	132	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	
Included	M	132	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																		
Included	M	133	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	133	Offices	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	133	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	
Included	M	133	Offices	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																		
Included	M	134	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	134	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																		
Included	M	134	Offices	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	134	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	
Included	M	134	Offices	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																		
Included	M	135	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	135	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																		
Included	M	135	Offices	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	135	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	
Included	M	135	Offices	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																		
Included	M	136	Offices	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014															
Included	M	136	Offices	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																		
Included	M	136	Offices	Floor	Floor	Carpet	High	No	No	No	Good																		
Included	M	136	Offices	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																	

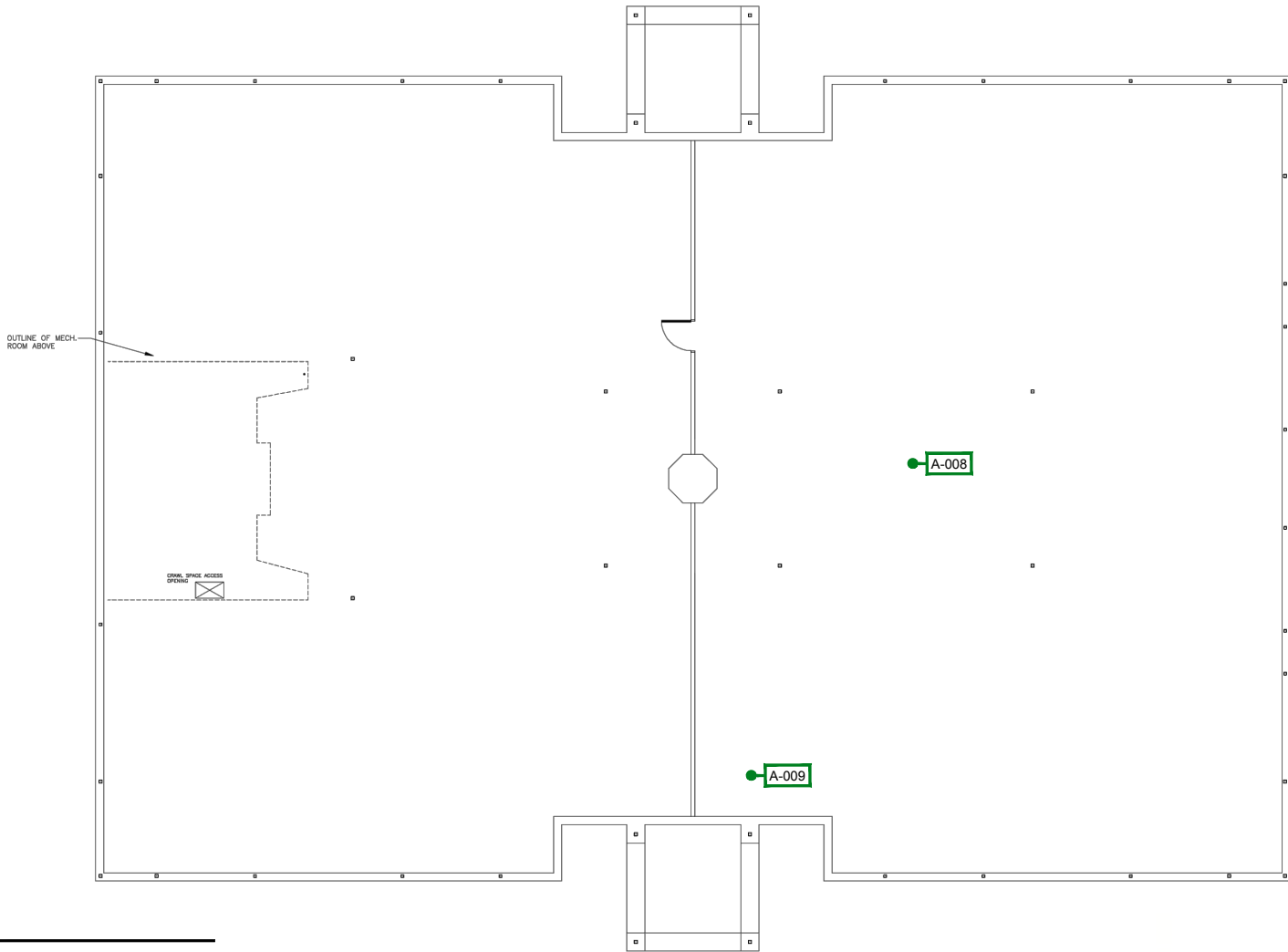
Appendix C
Vic Rempel Administration Building
ACM Inventory

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	137	Closet	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	137	Closet	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	137	Closet	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	138	Lunch Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	138	Lunch Room	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	138	Lunch Room	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	138	Lunch Room	Plumbing	Sink	Gold Sink Undercoat	High	Yes	Yes	Yes	Good		Bulk	A-010	15-Oct-17	Chrysotile	Gold Sink Undercoat	4.10%	No	No	No	Annually	5	Moderate	Manage in place.	1 Sink	Photograph 1	Door Jamb		
Included	M	138	Lunch Room	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	M	139	Reception	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	139	Reception	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	139	Reception	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	139	Reception	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	139	Reception	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	140	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	140	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	140	Office	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	140	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	140	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	M	141	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	141	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	141	Office	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	141	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	141	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	M	142	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	142	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	142	Office	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	142	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	142	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	M	143	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	143	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	143	Office	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	143	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	143	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	M	144	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-003, A-004, A-005, A-007, A-012, A-013, A-014																
Included	M	144	Office	Walls	Walls	Pre-Fabricated Drywall	High	No	No	No	Good																			
Included	M	144	Office	Floor	Floor	Carpet	High	No	No	No	Good																			
Included	M	144	Office	Ceiling	Ceiling	2x4' Textured Ceiling Tile	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																		
Included	M	144	Office	Windows	Caulking	Rubber Window Caulking	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Walls	Walls	Fibreglass Panels	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Walls	Walls	Wood	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Floor	Floor	Vinyl/Canvas/Polyethylene Mats	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Ceiling	Ceiling	Concrete	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Mechanical	Mechanical	PVC or Fibreglass Pipe Insulation	High	No	No	No	Good																			
Included	CS	CS	Office Crawspace	Mechanical	Mechanical	PVC Drain Lines	High	No	No	No	Good																			
Included	E	Exterior	Exterior	Walls	Walls	Brick Mortar	High	No	Yes	No	Good		Bulk	A-024, A-025, A-026, A-027	15-Oct-17															
Included	E	Exterior	Exterior	Walls	Caulking	Black Window Caulking	High	No	Yes	No	Good		Bulk	A-028	15-Oct-17															
Included	E	Exterior	Exterior	Walls	Doors	Brown Window Frame Caulking	High	No	Yes	No	Good		Bulk	A-029	15-Oct-17															
Included	E	Exterior	Exterior	Walls	Caulking	Grey Building Caulking	High	No	Yes	No	Good		Bulk	A-030	15-Oct-17															
Excluded		CS	Mechanical Crawspace	Entire Area	Entire Area							Not assessed due to scope of work																		
Excluded			Exterior Roof	Exterior Roof	Exterior Roof							Not assessed due to scope of work																		



APPENDIX D

Floor Plans



LEGEND

	ASBESTOS SAMPLE LOCATION
	ASBESTOS - CONTAINING SINK UNDERCOAT

NOTE(S)
 1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.

REFERENCE(S)
 PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 20Sep2011

CLIENT
 CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD	2017-12-07
DESIGNED	KH
PREPARED	VI
REVIEWED	KH
APPROVED	AG

PROJECT
 ASBESTOS ASSESSMENT
 VIC REMPEL ADMINISTRATION BUILDING
 1101 AVENUE P NORTH

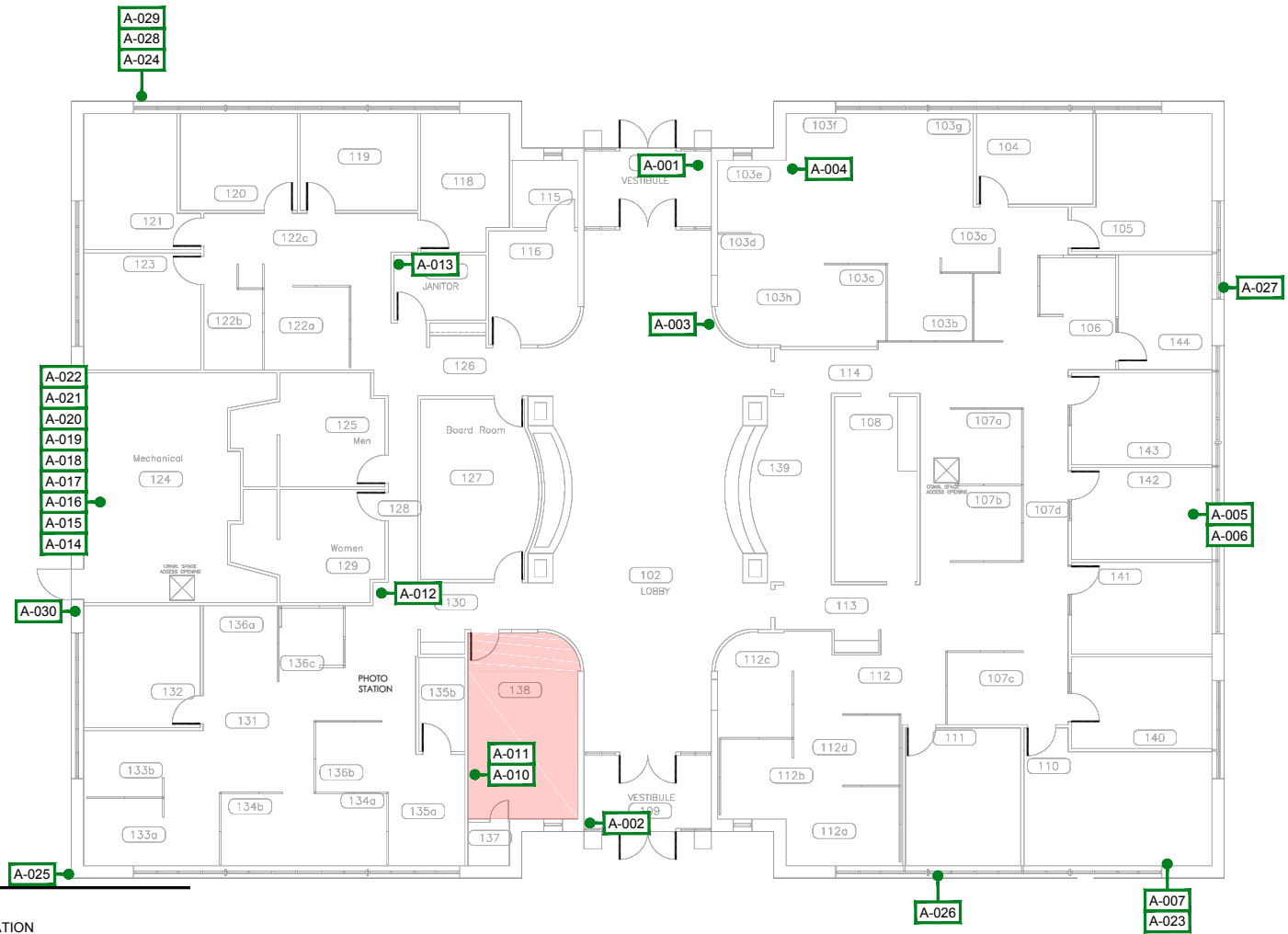
TITLE
LOWER FLOOR

SCHEMATIC ONLY, NOT TO SCALE

PROJECT NO.	CONTROL	REV.	FIGURE
1667963	1000-HM-0001	0	1

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

26 mm



- LEGEND**
- # ASBESTOS SAMPLE LOCATION
 - ASBESTOS - CONTAINING SINK UNDERCOAT

NOTE(S)
 1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.

REFERENCE(S)
 PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 20Sep2011

CLIENT
 CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD 2017-12-07

DESIGNED KH

PREPARED VI

REVIEWED KH

APPROVED AG

PROJECT
 ASBESTOS ASSESSMENT
 VIC REMPEL ADMINISTRATION BUILDING
 1101 AVENUE P NORTH

TITLE
MAIN FLOOR

PROJECT NO.
 1667963

CONTROL
 1000-HM-0002

REV.
 0

FIGURE
 2

SCHMATIC ONLY, NOT TO SCALE

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

26 mm

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