

CITY OF SASKATOON

Asbestos-Containing Building Materials Assessment Report - Lions Arena



Submitted to:

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

Report Number: 1667963

Distribution:

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







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1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by the City of Saskatoon (the Client) to conduct an asbestos-containing building materials assessment of the Lions Arena (the Site) located at 2205 McEown 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 April 18, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were identified within the Lions Arena 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 Lions Arena was constructed in 1968 and consists of numerous change rooms, offices spaces, and a rink on the main floor and mechanical rooms within the basement as well as a 2009/2010 addition consisting of Rooms 114 to 121. Also located along the side of the Site on the main floor is a mechanical room and garage/zamboni room. During the assessment, Rooms 114 to 121 were treated as one functional space, the remaining main floor change rooms, offices, and rink as a second functional space, the mechanical room and garage/zamboni room as a third functional space, and the basement mechanical rooms as a fourth 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.
- 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 7.0 of this report for a summary of the limitations encountered.

3.1 Asbestos-Containing Materials

A total of thirty-seven (37) samples of building materials were collected and tested for asbestos content during the assessment of the Lions Arena. Six (6) 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.

- Drywall Joint Compound (select rooms only); and
- Vermiculite Insulation (select block walls only).

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

Drywall Joint Compound

Eight (8) samples of drywall joint compound were collected during the assessment. Three of the samples collected within the second functional space were found to contain 1.8% to 2.1% Chrysotile asbestos. Asbestoscontaining drywall joint compound (see Photograph 1 in Appendix B) was observed in the following locations:

- Room 107 (approximately 120 ft²);
- Room 108 (approximately 210 ft²);
- Room 109 (approximately 210 ft²); and
- Room 110 (approximately 120 ft²).

The additional drywall joint compound samples were collected from the third functional space. All drywall joint compound samples collected within the third functional space were found to not contain asbestos. Drywall joint compound was not observed in the remaining functional spaces.





Vermiculite Insulation

Three (3) samples of vermiculite were collected during the assessment. All three of the samples collected within the second functional space were found to contain 1.2% to 1.5% Actinolite asbestos. Asbestos-containing vermiculite (see Photograph 2 in Appendix B) was confirmed in the following locations:

- Room 104 (approximately 120 ft²);
- Room 112A (approximately 60 ft²); and
- Room 113 (approximately 120 ft²).

During the assessment, Golder cored into approximately 13 locations to evaluate for the presence of absence of vermiculite. The vermiculite insulation was observed to be located sporadically throughout the Site along exterior and interior walls. It is assumed that the vermiculite insulation is located around the perimeter walls of Rooms 113 to 101 based upon where the vermiculite insulation was observed, however this was not confirmed within each room. Please refer to the floor plan provided in Appendix D for the anticipated locations of the vermiculite. Further investigation activities may be required to confirm the exact locations of the vermiculite.

Based upon the assumption that the vermiculite is located in the perimeter walls of the Rooms 113 to 101, Golder has provided approximate quantities within each room below.

- Room 101 (approximately 750 ft²) (assumed);
- Room 102 (approximately 265 ft²) (assumed);
- Room 103 (approximately 265 ft²) (assumed);
- Room 104 (approximately 120 ft²) (confirmed);
- Room 106 (approximately 120 ft²) (assumed);
- Room 107 (approximately 250 ft²) (assumed);
- Room 108 (approximately 100 ft²) (assumed);
- Room 110 (approximately 350 ft²) (assumed);
- Room 111 (approximately 200 ft²) (assumed);
- Room 111A (approximately 60 ft²) (assumed);
- Room 112 (approximately 200 ft²) (assumed);
- Room 112A (approximately 60 ft²) (confirmed); and
- Room 113 (approximately 625 ft²) (exterior wall confirmed, interior perimeter walls assumed).





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 (excluding the second functional space);
- White firestop;
- Loose grey vinyl sheet flooring with black and white specks;
- Red firestop;
- Grey duct mastic;
- Black wall mastic;
- 1'x2' Black floor tile;
- White duct mastic;
- White plastic panel caulking;
- White pipe caulking;
- White door caulking;
- Black and grey vinyl sheet flooring;
- Grey floor levelling compound;
- Grey vinyl sheet flooring with white and black specks;
- Black floor mastic;
- Brown floor putty;
- Black bleacher seating;
- Exterior white penetration caulking;
- Exterior green building caulking;
- Exterior grey firestop;
- Exterior white window caulking;
- The drain lines throughout the site were not observed to have suspect packing and were observed to be insulated with fibreglass in select locations;
- The duct work throughout the site was observed to be uninsulated or insulated with fibreglass insulation;
- The piping throughout the site was observed to be insulated with fibreglass and had PVC fittings; and
- The mechanical insulation within Room 122 was observed to be a black Styrofoam-like insulation and is not suspected of containing asbestos.





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 encountered and sampled at the time of the assessment. If additional floor levelling compound is encountered during demolition activities, additional sampling should be conducted to evaluate the presence or absence of asbestos.
- 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. If the duct connector fabric is scheduled for impact, further sampling may be required.
- Golder was unable to access Room 102 during the assessment. If work activities are scheduled within this area, further sampling may be required. If building materials within Room 102 are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- Golder assessed the exterior metal cladding for potential asbestos-containing materials where possible. Due to the potential to affect the building envelope, the metal cladding was not impacted or removed to assess below. If the metal cladding is to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.

5.0 CONCLUSIONS AND RECOMMENDATIONS

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

5.1 Asbestos-Containing Materials

Asbestos was positively identified within the drywall joint compound of Rooms 107 to 110 and vermiculite block wall cavity insulation 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.





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

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

Drywall Joint Compound

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

Vermiculite Insulation

If scheduled for impact, asbestos-containing vermiculite insulation should be abated following high-risk abatement work procedures as outlined in the Saskatchewan Asbestos Abatement Manual (2017). Alternatively, as the vermiculite insulation is enclosed within block wall, 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 April 18, 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:

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KH/AG/

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APPENDIX A

Laboratory Certificate of Analysis Report





Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

100

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213931 Analyst Observation: White Caulk Location: Room B3

Client No.: A-001 Client Description: White Firestop **Facility:**

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

None Detected

Lab No.: 6213932 **Analyst Observation:** Grey Floor Tile Location: Room B3

Client No.: A-002 **Client Description:** Loose Grey VSF with Black **Facility:**

and White Specks

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

None Detected None Detected

Lab No.: 6213933 **Analyst Observation:** Red/Black Caulk **Location:** Room B2

Client No.: A-003 Client Description: Red Firestop **Facility:**

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

None Detected 100 None Detected

Lab No.: 6213934 **Analyst Observation:** Grey Mastic **Location:** Room B2

Client No.: A-004 Client Description: Grey Duct Mastic **Facility:**

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

None Detected None Detected 100

Lab No.: 6213935 **Analyst Observation:** Black Mastic **Location:** Room B2

Client No.: A-005 Client Description: Black Wall Mastic **Facility:**

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

25 Cellulose None Detected

Lab No.: 6213936 **Analyst Observation:** Black Floor Tile Location: Room 114

Client No.: A-006 Client Description: 1'X2' Black Floor Tile **Facility:**

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

None Detected None Detected

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

4/24/2017 **Date Received:**

05/01/2017 Date Analyzed:

Signature: Randy Caran **Analyst:**

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 5/1/2017 6:42:37 PM Page 1 of 9



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

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Asbestos Surveys - City of Saskatoon (Lions Arena) **Project:**

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213937 Location: Room 114 **Analyst Observation:** White/Grey Mastic

Client Description: White Duct Mastic **Facility:** Client No.: A-007

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

None Detected

Lab No.: 6213938 **Analyst Observation:** White Caulk **Location:** Room 114B

Client No.: A-008 Client Description: White Firestop **Facility:**

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

1 Fibrous Glass

Lab No.: 6213939 Analyst Observation: White Joint Compound Location: Room 124

Client No.: A-009 Client Description: Drywall Joint Compound **Facility:**

Percent Non-Fibrous Material:

Percent Asbestos: Percent Non-Asbestos Fibrous Material:

None Detected None Detected

Lab No.: 6213940 Analyst Observation: White Joint Compound Location: Room 124

Client No.: A-010 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Lab No.: 6213941 **Analyst Observation:** White Joint Compound Location: Room 124

Client No.: A-011 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Lab No.: 6213942 **Analyst Observation:** White Joint Compound Location: Room 124

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

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

4/24/2017 **Date Received:**

05/01/2017 Date Analyzed:

Signature: Randy Caran **Analyst:**

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 5/1/2017 6:42:37 PM Page 2 of 9



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213943 Location: Room 124 **Analyst Observation:** White Joint Compound

Client Description: Drywall Joint Compound **Facility:** Client No.: A-013

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

None Detected

Lab No.: 6213944 **Analyst Observation:** White Caulk Location: Room 124

Client No.: A-014 Client Description: White Plastic Panel **Facility:**

Caulking

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

None Detected None Detected

Lab No.: 6213945 **Analyst Observation:** Grey Mastic Location: Room 124

Client No.: A-015 Client Description: Grey Duct Mastic **Facility:**

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

None Detected None Detected

Lab No.: 6213946 **Analyst Observation:** White Caulk **Location:** Room 122

Client Description: White Pipe Caulking Client No.: A-016 **Facility:**

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

None Detected None Detected

Lab No.: 6213947 **Analyst Observation:** Off-White Joint Location: Room 109

Client No.: A-017 Compound **Facility:**

Client Description: Drywall Joint Compound Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected PC 2.1 Chrysotile

Lab No.: 6213948 **Analyst Observation:** Off-White Joint Location: Room 108

Client No.: A-018 Compound **Facility:** Client Description: Drywall Joint Compound

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

None Detected 97.9 **PC 2.1** Chrysotile

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

4/24/2017 **Date Received:**

05/01/2017 Date Analyzed:

Signature: Randy Caran **Analyst:**

Laboratory Director

Approved By:

Frank E. Ehrenfeld, III

Dated: 5/1/2017 6:42:37 PM Page 3 of 9



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213949 Location: Room 108 **Analyst Observation:** White Caulk

Client Description: White Door Caulking **Facility:** Client No.: A-019

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

None Detected

Lab No.: 6213950 Location: Room 107 **Analyst Observation:** White Caulk

Client No.: A-020 **Client Description:** White Pipe Caulking **Facility:**

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

None Detected None Detected

Lab No.: 6213951 **Analyst Observation:** Grey Mastic Location: Room 107

Client No.: A-021 Client Description: Grey Duct Mastic **Facility:**

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

None Detected None Detected

Lab No.: 6213952 Analyst Observation: Grey Vinyl Sheet Location: Room 109

Client No.: A-022 Flooring **Facility:**

Client Description: Black and Grey Vinyl Sheet

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

5 Cellulose None Detected

Lab No.: 6213952(L2) **Analyst Observation:** Yellow Mastic Location: Room 109

Client No.: A-022 Client Description: Black and Grey Vinyl Sheet Facility:

Flooring

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

None Detected 100 None Detected

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

Date Received:

4/24/2017

Date Analyzed:

05/01/2017

Signature:

Randy Caran **Analyst:**

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director

Dated: 5/1/2017 6:42:37 PM Page 4 of 9



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

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

Facility:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213953 Analyst Observation: Grey Leveling Location: Room 109

Client No.: A-023 Compound

Client Description: Grey Floor Leveling

Compound

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

None Detected None Detected 100

Lab No.: 6213954 Analyst Observation: White/Grey Mastic Location: Room 113

Client No.: A-024 Client Description: White Duct Mastic Facility:

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

None Detected 100

Lab No.: 6213955 Analyst Observation: Black Floor Tile Location: Room 112

Client No.: A-025 Client Description: 1'X2' Black Floor Tile Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 10

Lab No.: 6213956 Analyst Observation: Grey Vinyl Sheet Location: Room 101

Client No.: A-026 Flooring Facility:

Client Description: Grey VSF with White and

Black Specks

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

None Detected None Detected

Lab No.: 6213956(L2) **Analyst Observation:** White Mastic **Location:** Room 101

Client Description: Grey VSF with White and

Black Specks

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

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:

Client No.: A-026

4/24/2017

Date Analyzed:

05/01/2017

Signature: Analyst:

Randy Caran

Approved By:

Facility:

Frank E. Ehranfald III

Frank E. Ehrenfeld, III Laboratory Director

Dated: 5/1/2017 6:42:37 PM Page 5 of 9



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

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

None Detected

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213957 Analyst Observation: White Joint Compound Location: Room 110

Client No.: A-027 Client Description: Drywall Joint Compound Facility:

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

PC 1.8 Chrysotile None Detected 98.5

Lab No.: 6213958 Analyst Observation: Black Mastic
Client No.: A-028 Client Description: Black Floor Mastic
Facility:

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

None Detected 10

Lab No.: 6213959 Analyst Observation: Grey Putty Location: Rink

Client No.: A-029 Client Description: Brown Floor Putty Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: 100

None Detected None Detected

Lab No.: 6213960 Analyst Observation: Black Floor Tile Location: Rink Client No.: A-030 Client Description: Black Bleacher Vinyl Facility:

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

None Detected None Detected

Lab No.: 6213961 Analyst Observation: Grev Vermiculite Location: Room 113

Client No.: A-031 Client Description: Vermiculite Facility:

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

PC 1.2 Actinolite None Detected 98.8

This sample contains vermiculite mineral and may be a candidate for additional analytical procedures. Please see the sections following your report titled

Recommendations for Vermiculite Analysis. (EPA 600/R-04/004)

Lab No.: 6213962 Analyst Observation: Brown/Grey Vermiculite Location: Room 112A

Client No.: A-032 Client Description: Vermiculite Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

PC 1.2 Actinolite None Detected 98.8

This sample contains vermiculite mineral and may be a candidate for additional analytical procedures. Please see the sections following your report titled

Recommendations for Vermiculite Analysis. (EPA 600/R-04/004)

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

Date Received: 4/24/2017

Date Analyzed: 05/01/2017

Jate Mary Zeu.

Signature:

Analyst:

Randy Caran

Approved By:

Truck than foll

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

Report Date: 5/1/2017

Report No.: 534882 - PLM

Project: Asbestos Surveys - City of Saskatoon (Lions Arena)

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213963 Analyst Observation: Grey Vermiculite Location: Room 104

Client Description: Vermiculite **Facility:** Client No.: A-033

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

None Detected **PC 1.5** Actinolite

This sample contains vermiculite mineral and may be a candidate for additional analytical procedures. Please see the sections following your report titled

Recommendations for Vermiculite Analysis. (EPA 600/R-04/004)

Analyst Observation: White Caulk Lab No.: 6213964 **Location:** Exterior

Client Description: White Penetration Caulking Facility: Client No.: A-034

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

None Detected None Detected

Lab No.: 6213965 **Analyst Observation:** Blue/White Caulk **Location:** Exterior

Client No.: A-035 Client Description: Green Building Caulking **Facility:**

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

None Detected None Detected

Lab No.: 6213966 **Analyst Observation:** Grey Caulk **Location:** Exterior

Client No.: A-036 **Client Description:** Grey Firestop **Facility:**

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

None Detected None Detected

Analyst Observation: Grey/White Caulk Lab No.: 6213967 Location: Exterior

Client No.: A-037 **Client Description:** White Building Caulk **Facility:**

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

None Detected None Detected

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

Date Received:

4/24/2017

05/01/2017 Date Analyzed:

Signature:

Randy Caran **Analyst:**

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 5/1/2017 6:42:37 PM Page 7 of 9



Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 5/1/2017

16820 107 Ave Report No.: 534882 - PLM

Asbestos Surveys - City of Saskatoon (Lions Edmonton AB T5P 4C3 **Project:**

Arena)

Project No.: 1667963 Client: GOL572

Appendix to Analytical Report

Customer Contact:

Analysis: US EPA 600, R93-116

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

iATL Customer Service: customerservice@iatl.com

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

General Terms, Warrants, Limits, Qualifiers:

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

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

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

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

Information Pertinent to this Report:

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

Certifications:

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

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

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

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

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

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

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 5/1/2017

16820 107 Ave Report No.: 534882 - PLM

Edmonton AB T5P 4C3 Asbestos Surveys - City of Saskatoon (Lions **Project:**

Arena) Project No.: 1667963

Client: GOL572

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

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

Disclaimers / Qualifiers:

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

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

Recommendations for Vermiculite Analysis:

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

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

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

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

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

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

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

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

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

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

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

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

*With advance notice and confirmation by the laboratory.

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



APPENDIX B

Site Photographs





Photograph 1: Asbestos-Containing Drywall Joint Compound.



Photograph 2: Asbestos-Containing Vermiculite Insulation.

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APPENDIX C

Room by Room Spreadsheet



	1		I	1			1	1	Asbestos		T	1	ı			_	1		ı	T	ı	1					
Included/Ex Floor cluded	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Spraved-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included B	B3	Mechanical Room Mechanical Room	Walls	Interior Walls	Concrete Walls Concrete	High High	No	No	No No	Good	11010110100	.,,,,,	Gampio 12	Date	.,,,,,	7.0	70 01 0000000	TTIGETO	op.uyou on	mantonano	Пороспол		Diotal balloo	7.0	Quantity	r notographi iz	Laboring Type
		Mechanical Room	Ceiling	Ceiling	Concrete	High			No																		
											Not sampled as damage to the door would affect it's operational													Inspect and sample if scheduled for			
Included B	B3 B3	Mechanical Room Mechanical Room	Doors Ceiling Space	Suspect Fire Door Ceiling Space	Suspect Fire Door N/A	High N/A	Yes N/A	No N/A	Potential N/A	Good N/A	requirement. No ceiling space present							Potential	No		Annually		Low	removal.	1		
Included B	B3	Mechanical Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
								NO NO	INO		Drain lines not insulated and no																
Included B	B3	Mechanical Room	Mechanical	Piping Electrical Panels and		High	No	No	No	Good	suspect packing observed. Not sampled due to safety																
Included B Included B	B3 B3	Mechanical Room Mechanical Room	Electrical Miscellaneous	Components Sheet Flooring	Electrical Panels and Components Loose Sheet Flooring Material	High High	Yes No	No Yes	Potential No	Good Good	concerns.	Bulk	A-002	18-Apr-17													
		Mechanical Room Mechanical Room	Miscellaneous Walls	Firestop Interior Walls	White Firestop Concrete Walls	High High	No No	Yes No	No No	Good		Bulk	A-001	18-Apr-17													
Included B	B2	Mechanical Room Mechanical Room	Walls	Interior Walls	Black Wall Mastic Concrete	High	No No	Yes No	No No			Bulk	A-005	18-Apr-17													
		Mechanical Room	Ceiling	Ceiling	Concrete	High High	No	No		Good																	
											Not sampled as damage to the													Inspect and sample			
Included B	B2	Mechanical Room	Doors	Suspect Fire Door	Suspect Fire Door	High	Yes	No	Potential	Good	door would affect it's operationa requirement.							Potential	No		Annually		Low	if scheduled for removal.	1		
Included B	B2	Mechanical Room	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass																
Included B	B2	Mechanical Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Drain lines not insulated and no																
Included B	B2	Mechanical Room	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed. Duct work not insulated with																
Included B	B2	Mechanical Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.	Bulk	A-004	18-Apr-17													
Included B	B2	Mechanical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.																
Included B Included B	B2 B2	Mechanical Room Mechanical Room	Miscellaneous Miscellaneous	Firestop Firestop	Red Firestop White Firestop	High High	No No	Yes Yes	No No	Good Good		Bulk	A-003	18-Apr-17													
		Mechanical Room Mechanical Room	Walls	Interior Walls Floor	Concrete Walls Concrete	High High	No No	No No	No No																		
Included B	B1	Mechanical Room Mechanical Room	Ceiling Ceiling Space	Ceiling Ceiling Space	Concrete N/A	High N/A	No N/A	No	No		No ceiling space present																
Included B	B1	Mechanical Room	Mechanical	Ĭ,	Metal Pipes		N/A No	N/A No	No.	Good	Bare or insulated with fibreglass																
				Piping	·	High					and PVC fittings. Drain lines not insulated and no																
Included B	B1	Mechanical Room	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed. Duct work not insulated with																
Included B Included B	B1 B1	Mechanical Room Mechanical Room	Mechanical Miscellaneous	Duct Work Firestop	Duct Work Red Firestop	High High	No No	No Yes	No No	Good Good	suspect insulation.																
Included B Included M		Mechanical Room	Miscellaneous Walls	Firestop Interior Walls	White Firestop Block Wall	High High	No No	Yes No	No No	Good Good																	
Included M	101	Lobby	Walle	Exterior and Perimeter	er Vermieulite	High	Yes	Yes	Vac	Good	Suspected to be located in exterior and perimeter walls.		VS-A-033		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	-	Moderate	Manage in place.	750 ft ²	Photograph 2	Door Jamb
Included M	101		Floor	Floor	Grey Vinyl Sheet Flooring with White	e High	No	Yes		Good	exterior and perimeter wails.	Bulk	A-026	18-Apr-17	Actinome	vermiculte	1.2% (0 1.5%	162	INU	INO	Armuany	5	Moderate	Manage in place.	750 II		Door Jamb
Included M	101 101	Lobby	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	N/A		Open ceiling space																
Included M	101	Lobby	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Duct work not insulated with																
Included M	101	Lobby	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation. Block wall shared with Rink was																
Included M	103	Admission	Walls	Interior Walls Exterior and Perimeter	Block Wall	High	No	No	No	Good	observed to be hollow. Suspected to be located in																
Included M Included M	103	Admission	Walls	Walls	Vermiculite Wood	High	Yes	Yes	Yes	Good Good	exterior and perimeter walls.		VS-A-033		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5	Moderate	Manage in place.	265 ft ²	Photograph 2	Door Jamb
Included M			Walls Floor	Interior Walls Floor	Grey Vinyl Sheet Flooring with White	High e High	No No	No Yes	No																		
											Date coded to a time period in which asbestos use was not																
Included M Included M	103 103	Admission Admission	Ceiling Ceiling Space	Ceiling Ceiling Space	2'x4' Ceiling Tile with Small Pinholes Metal Deck	s High High	No No	No No	No No	Good Good	widespread.																
Included M	103	Admission	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Bare or insulated with fibreglas:																
Included M	103	Admission	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with																
Included M	103	Admission	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.																
Included M	104	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Block wall shared with Room 101 was observed to be solid.																
Included M		Washroom	Walls	Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	Vermiculite located in block wal along the exterior.	Bulk	A-033	18-Apr-17	Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5	Moderate	Manage in place.	120 ft ²	Photograph 2	Door Jamb
Included M Included M	104	Washroom	Floor Ceiling	Floor Ceiling	Grey Vinyl Sheet Flooring with White Metal Deck	High	No No	Yes No	No	Good Good																	
Included M Included M			Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.																
Included M	104	Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.																
Included M Included M	105	Washroom	Walls Floor	Interior Walls Floor	Block Wall Grey Vinyl Sheet Flooring with White	High	No No	No Yes	No																		
Included M	105	Washroom	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good	No online and																
Included M Included M			Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No			N/A Good	No ceiling space present Non-suspect door.																
Included M	105	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included M	105	Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.																
Included M	106	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Block wall shared with Room 111 observed to be solid.																
Included M		Washroom	Walle	Exterior and Perimeter	er Vormiculito	High	Yes	Yes	Vac	Good	Suspected to be located in		VS-A-033		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	E	Moderate	Manage in place.	120 ft ²	Photograph 2	Door Jamb
Included M Included M			Floor	Walls Floor	Grey Vinyl Sheet Flooring with White			Yes Yes	No Yes	Good			vo-A-033		Actinoite	vermiculite	1.2% 10 1.5%	res	NO	NO	Annually	5	ivioderate	iviariage in place.	12011		Door Jamb
		1									Date coded to a time period in which asbestos use was not																
Included M Included M	106	Washroom	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A			Good N/A	widespread.																
Included M			Doors	Regular Door	Non Suspect Door	High	No	No	No		Non-suspect door. Drain lines not insulated and no																
Included M	106	Washroom	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.																
Included M	106	Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.																
Included M Included M			Miscellaneous Walls	Firestop Interior Walls	White Firestop Block Wall	High High	No No	Yes No	No No	Good Good																	
Included M		Office	Walls	Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	Suspected to be located in exterior and perimeter walls.		VS-A-033		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5	Moderate	Manage in place.	250 ft ²	Photograph 2	Door Jamb
Included M Included M	107			Interior Walls Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High	Yes	Yes Yes		Good Good			VS-A-018		Chrysotile	Drywall Joint Compound			No	No		5		Manage in place.		Photograph 1	
moraueu M	107	Office	1 1001	1 1001	Piack and Grey Villyi Sheet Flooring	g High	INU	162	INU	9000	I																

												Date coded to a time period in which asbestos use was not														
Included Included	M	107 107	Office Office	Ceiling Ceiling Space	Ceiling Ceiling Space	2'x4' Ceiling Tile with Small Pinholes Metal Deck	High High	No No	No No	No No	Good Good	widespread.														
Included				Doors	Regular Door	Non Suspect Door	High		No	No	Good	Non-suspect door.														
Included	М	107	Office	Mechanical	Piping	Drain Lines	High	No	No	No	Good	Drain lines not insulated and no suspect packing observed.														
Included	м	107	Office	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
												Duct work not insulated with														
Included Included	M	107 107	Office Office	Mechanical Miscellaneous	Duct Work Firestop	Grey Duct Mastic White Firestop	High High	No No	Yes Yes	No No	Good Good	suspect insulation. Bul	ilk A-021 ilk A-020													
Included	М	108	Vestibule	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in														
	М	108	Vestibule	Walls	Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	exterior and perimeter walls.	VS-A-03		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually 5	Moderate	Manage in place.	100 ft ²	Photograph 2	Door Jamb
Included Included		108 108		Walls Floor	Interior Walls Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High High	Yes No	Yes Yes	Yes No	Good Good	Bul	ılk A-018	18-Apr-1	17 Chrysotile	Drywall Joint Compound	1.8% to 2.1%	Yes	No	No	Annually 5	High	Manage in place.	210 ft ²	Photograph 1	Door Jamb
						, , , , , , , , , , , , , , , , , , , ,	,					Date coded to a time period in which asbestos use was not														
Included	М		Vestibule	Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes	High	No	No	No	Good	which asbestos use was not widespread.														
		108 108		Ceiling Space Doors	Ceiling Space Regular Door	Metal Deck Non Suspect Door	High High	No No	No No	No No	Good Good	Non-suspect door.														
Included	м	108	Vestibule	Mechanical		Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
					Piping							Duct work not insulated with														
Included Included	M	108 108	Vestibule Vestibule	Mechanical Miscellaneous	Duct Work Door Caulking	Grey Duct Mastic White Door Caulking	High High	No No	Yes Yes	No No	Good Good	suspect insulation. Bul	ılk A-019	18-Apr-1	17											
Included	М	109	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good													2		
Included	M	109	Washroom Washroom	Walls Floor	Interior Walls Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High High	Yes No	Yes Yes	Yes No	Good Good	Bul Bul		18-Apr-1		Drywall Joint Compound	1.8% to 2.1%	Yes	No	No	Annually 5	High	Manage in place.	210 ft	Photograph 1	Door Jamb
Included	М	109	Washroom	Floor	Floor	Grey Floor Levelling Compound	High	No	Yes	No	Good	Date coded to a time period in	ilk A-023	18-Apr-1	17											
land to	<u>,</u> [400	18/	C-ili-	Callian	01-41 O-35 TV - 31 C - 3 TV	10.1				6 :	which asbestos use was not														
		109	Washroom Washroom	Ceiling Ceiling Space	Ceiling Ceiling Space	2'x4' Ceiling Tile with Small Pinholes Metal Deck	High High	No No	No No	No No	Good Good	widespread.														
			Washroom	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Drain lines not insulated and no														
Included	М	109	Washroom	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.														
Included	М	109	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
Included	М			Walls	Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in														
Included	М	110	Office	Walls	Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	exterior and perimeter walls.	VS-A-03		Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually 5	Moderate	Manage in place.	350 ft ²	Photograph 2	Door Jamb
Included Included		110 110		Walls Floor	Interior Walls Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High High	Yes No	Yes Yes	Yes No	Good Good	Bul	ılk A-027	18-Apr-1	17 Chrysotile	Drywall Joint Compound	1.8% to 2.1%	Yes	No	No	Annually 5	High	Manage in place.	120 ft ²	Photograph 1	Door Jamb
moradod		110	Onico	11001	11001	Diddicand Groy vinys Grock Flooring	g	110	100	110	0000	Date coded to a time period in														
Included	М	110		Ceiling	Ceiling	2'x4' Ceiling Tile with Small Pinholes	High	No	No	No	Good	which asbestos use was not widespread.														
		110 110		Ceiling Space Doors	Ceiling Space Regular Door	Metal Deck Non Suspect Door	High High	No No	No No	No No	Good Good	Non-suspect door.														
	м											Duct work not insulated with														
Included	М	110		Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation. Drain lines not insulated and no														
Included	М	110	Office	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed. Bare or insulated with fibreglass														
Included	М		Office	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.														
Included	М		Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in													Dhatasaak 0	
Included Included	M	111 111	Change Room Change Room	Walls Floor	Perimeter Wall Floor	Vermiculite 1'x2' Black Floor Tile	High High	Yes No	Yes Yes	Yes No	Good Good	exterior and perimeter walls.	VS-A-03	3	Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually 5	Moderate	Manage in place.	200 ft ²	Photograph 2	Door Jamb
Included	М	111	Change Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good															
			Change Room Change Room	Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.														
Included	м	111	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
			· ·			i i	Ĭ					Duct work not insulated with														
Included Included	M		Change Room Washroom	Mechanical Walls	Duct Work Interior Walls	White Duct Mastic Block Wall	High High	No No	Yes No	No No	Good Good	suspect insulation.														
Included	М	111A	Washroom	Walle	Perimeter Wall	Vermiculite	High	Yes	Vac	Vac	Good	Suspected to be located in exterior and perimeter walls.	VS-A-03	3	Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually 5	Moderate	Manage in place.	60 ft ²	Photograph 2	Door Jamb
Included		111A		Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good	extend and polimeter want.	107.00		71011101110	Volimidanto	1.270 to 1.070		- 110	110	7 mindally 0	Moderate	ivanago iii piaco.	00 11		Door damp
Included	M	111A		Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present														
Included	М	111A	Washroom	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Bare or insulated with fibreglass														
Included	М	111A	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.														
Included	М		Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.														
Included Included	M	111B 111B	Shower Shower	Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High	No No	No No	No No	Good Good															
Included	М	111B 111B	Shower	Floor	Floor	Ceramic Tile Metal Deck	High	No No	No No	No	Good															
		111B 111B		Ceiling Ceiling Space	Ceiling Ceiling Space	N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present														
Included	М	111B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
Included	м	111B		Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.														
Included	M	111B	Shower	Miscellaneous	Firestop	White Firestop	High	No	Yes	No	Good	suspect insulation.														
Included	М	112	Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in													B	
Included	M	112	Change Room	Walls	Perimeter Wall	Vermiculite	High	Yes	Yes	Yes	Good	exterior and perimeter walls.	VS-A-03	-	Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually 5	Moderate	Manage in place.	200 ft ²	Photograph 2	Door Jamb
Included	M	112	Change Room Change Room	Floor Ceiling	Floor Ceiling	1'x2' Black Floor Tile Metal Deck	High High	No No	Yes No	No No	Good		ilk A-025	18-Apr-	17											
			Change Room Change Room	Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.														
	м							No	No	No		Bare or insulated with fibreglass														
Included			Change Room	Mechanical	Piping	Metal Pipes	High				Good	and PVC fittings. Duct work not insulated with														
Included Included	M M		Change Room Washroom	Mechanical Walls	Duct Work Interior Walls	White Duct Mastic Block Wall	High High	No No	Yes No	No No	Good Good	suspect insulation.														
Included	M		Washroom	Walls		Vermiculite	High	Yes	Vec	Yes	Good	Vermiculite located in block wall	dk 4.000	10.4-	17 Agricality	Vorminulity	1 20/ 45 4 50/	V	No	Ni	Appuellu	Moderate	Manage is als	60 ft ²	Photograph 2	Door Jamb
Included	M	112A	Washroom	Floor	Perimeter Wall Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good	shared with the Rink. Bul	ılk A-032	18-Apr-1	17 Actinolite	Vermiculite	1.2% to 1.5%	Yes	NO	No	Annually 5	Moderate	Manage in place.	ou it	- '	Door Jamb
			Washroom Washroom	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present														
			Washroom	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.														
Included	М	112A	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.														
Included	м	1124	Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.														
Included	M	112B	Shower	Walls	Interior Walls	Ceramic Tile (Layer 1)	High	No	No	No	Good	odopost modiation.														
Included Included		112B 112B		Walls Floor	Interior Walls Floor	Block Wall (Layer 2) Ceramic Tile	High High	No No	No No	No No	Good Good															

Included M	112B	Shower	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good																
Included M	112B	Shower	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass															
Included M	112B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															
Included M	112B	0.		5 (11)	White Duct Mastic		No	.,	No		Duct work not insulated with															
	112B 112B	Shower Shower	Mechanical Miscellaneous	Duct Work Firestop	White Firestop	High High	No No	Yes Yes	No No	Good Good	suspect insulation.						1									
											Wall shared with 114 was															
Included M	113	Mechanical Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	observed to be hollow.															
				Exterior and Perimete	er						Vermiculite located in block wall along the exterior and perimeter														Photograph 2	
Included M		Mechanical Room	Walls	Walls	Vermiculite	High	Yes	Yes	Yes	Good	walls.	Bulk	A-031 18-Ap	r-17 Actinolite	Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5	Moderate	Manage in place.	625 ft ²	3.1	Door Jamb
		Mechanical Room	Floor	Floor	Concrete	High	No	No		Good																
Included M Included M		Mechanical Room	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A		Good N/A	No ceiling space present													+ +		
Included M			Doors	Regular Door	Non Suspect Door	High	No	No	No		Non-suspect door.															
Included M	440	Mechanical Room		Dinin -	Madel Diseas	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.															
included M	113	Mechanical Room	Mechanical	Piping	Metal Pipes	High	INO	NO	NO	G000	and PVC littings.															
											Not sampled as sampling could												Inspect and sample	:		
	440	Mechanical Room		5	5 .0 . 5		Yes		5		cause fibre dispersal throughout						No			Annually		Low	if scheduled for			
Included M	113	Mechanical Room	Mechanical	Duct Work	Duct Connector Fabric	High	Yes	N0	Potential	Good	the air handling system. Duct work not insulated with						No	No		Annually		Low	removal.			
Included M	113	Mechanical Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.															
Included M	440			5 (11)			No				Duct work not insulated with	Bulk	A-024 18-Ac	4-												
Included M	113	Mechanical Room	Mechanical	Duct Work	White Duct Mastic	High	INO	Yes	No	Good	suspect insulation.	Bulk	A-024 18-Ap	I-17										1		
											Block wall shared with Room															
											115 was observed to be solid.															
Included M	114	Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Block wall shared with Room 113 was observed to be hollow.															
Included M	114	Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes		Good		Bulk	A-006 18-Ap	r-17												
Included M	114	Change Room Change Room	Ceiling	Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A		Good N/A	No coiling appear															
Included M Included M	114	Change Room	Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No				No ceiling space present Non-suspect door.															
				Ť	·						Bare or insulated with fibreglass															
Included M	114	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with															
Included M	114	Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.	Bulk	A-007 18-Ap	r-17												
Included M	114A	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good	,		,													
Included M Included M			Floor Ceiling	Floor Ceiling	1'x2' Black Floor Tile Metal Deck	High High	No No	Yes No		Good																
Included M	114A	Washroom	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present															
Included M	114A	Washroom	Doors	Regular Door	Non Suspect Door	High	No			Good	Non-suspect door.															
Included M	114A	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.															
incidaca ivi	11-7-3	Washioom	Wiccitatiicai	i ipiiig	Wetarripes	riigii	110	140	140	0000	Duct work not insulated with															
Included M	114A	Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.															
Included M Included M	114B 114B		Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High	No No	No No	No No	Good Good	+						1									
Included M	114B	Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included M Included M	114B	Shower	Ceiling	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No	Good N/A	No ceiling space present															
included W	1140	Snower	Celling Space	Celling Space	IVA	IN/A	IV/A	IN/A	IN/A	IN/A	Bare or insulated with fibreglass															
Included M	114B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															
Included M	114B	Shower	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.															
Included M		Shower	Miscellaneous		White Firestop	High	No	Yes	No			Bulk	A-008 18-Ap	r-17												
Included M	115	Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Block wall shared with Room 114 was observed to be solid.															
		Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No		114 was observed to be solid.															
Included M	115	Change Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good																
Included M Included M			Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.															
		Change Room	Doors	regular Door	Troit Guspeet Bool	riigii	110	140	140	0000	Bare or insulated with fibreglass															
Included M	115	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															
Included M	115	Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.															
Included M	115A	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No																	
Included M Included M	115A	Washroom	Floor Ceiling	Floor Ceiling	1'x2' Black Floor Tile Metal Deck	High High	No No	Yes No	No	Good Good																
Included M	115A	Washroom		Ceiling Space	N/A	N/A	N/A	N/A	N/A		No ceiling space present															
Included M	115A	Washroom	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.															
Included M	1151	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.															
moraded M	ACII	**aomoUIII	wechanical	i iping	wetai ripes	піул	INU	INU	INU	9000	Duct work not insulated with															
Included M		Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.															
Included M Included M			Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High	No No	No No		Good Good	+															
Included M	115B	Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good	<u> </u>															
Included M	115B	Shower	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good																
Included M	115B	Shower	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass															
Included M	115B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															
lastic to the second		Chaman		Desert Mar.	White Durat 24						Duct work not insulated with															
Included M Included M		Shower Change Room	Mechanical Walls	Duct Work Interior Walls	White Duct Mastic Block Wall	High High	No No	Yes No	No No	Good	suspect insulation.															
Included M	116	Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good	<u> </u>															
Included M	116	Change Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good																
Included M Included M			Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good							-									
											Bare or insulated with fibreglass															
Included M	116	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															
Included M	116	Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.															
Included M	116A	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good																
Included M Included M	116A	Washroom	Floor	Floor	1'x2' Black Floor Tile Metal Deck	High	No	Yes	No	Good Good																
Included M Included M			Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A		Good N/A																
Included M	116A	Washroom	Doors	Regular Door	Non Suspect Door	High	No			Good	Non-suspect door.															
Included M	116A	Washroom	Mechanical	Pining	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.															
				Piping							Duct work not insulated with															
Included M			Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.															
Included M Included M	116B	Shower	Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High	No No	No No	No No	Good Good	+															
Included M	116B	Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included M	116B	Shower	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good																
Included M Included M	116B 116B	Shower	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A		Good N/A	No ceiling space present						-									
											Bare or insulated with fibreglass															
Included M	116B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.															

											Duct work not insulated with							
Included M			Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.							
Included M	116B	Shower	Miscellaneous	Firestop	White Firestop	High	No	Yes	No	Good	Block wall shared with Room							
Included M	117	Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	118 was observed to be solid.							
Included M	117	Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good								
Included M			Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
Included M Included M	117		Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.							
included ivi	117	Change Room	Doors	Regular Door	Non Suspect Door	riigii	140	140	140	G000	Drain lines not insulated and no							
Included M	117	Change Room	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.							
											Bare or insulated with fibreglass							
Included M	117	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.							
Included M	117	Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.							
Included M			Miscellaneous		White Firestop	High	No	Yes	No	Good	Suspect insulation.							
Included M	117A	Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good								
Included M			Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good								
Included M Included M		Washroom Washroom	Ceiling	Ceiling	Metal Deck	High N/A	No N/A	No N/A	No N/A	Good N/A	No selline service							
Included M			Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	High	No No	N/A No	No No	Good	No ceiling space present Non-suspect door.							
incidaca ivi	11775	washiooni	Doors	regular bool		riigii	140	140	140	0000	Bare or insulated with fibreglass							
Included M	117A	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.							
											Duct work not insulated with							
Included M Included M		Washroom Shower	Mechanical	Duct Work Interior Walls	White Duct Mastic Ceramic Tile (Layer 1)	High	No	Yes	No No	Good	suspect insulation.							
Included M			Walls Walls	Interior Walls	Block Wall (Layer 2)	High High	No No	No No	No	Good Good	1							
Included M			Floor	Floor	Ceramic Tile	High	No	No	No	Good								
	117B		Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good								
Included M			Ceiling	Ceiling	Metal Deck	High	No	No	No	Good	N							
Included M	117B	Snower	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass							
Included M	117B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.							
						Ĭ					Duct work not insulated with							
Included M			Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.							
Included M	117B	Shower	Miscellaneous	Firestop	White Firestop	High	No	Yes	No	Good	Block well shore divide Deer							
Included M	118	Change Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	Block wall shared with Room 117 was observed to be solid.							
Included M			Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good	was observed to be suitd.							
Included M	118	Change Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
Included M			Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
Included M	118	Change Room	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Drain lines not insulated and no							
Included M	118	Change Room	Mechanical	Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.							
		g		r - F9			1 1				Bare or insulated with fibreglass							
Included M	118	Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.							
											Duct work not insulated with							
Included M Included M			Mechanical Miscellaneous	Duct Work	White Duct Mastic White Firestop	High	No No	Yes Yes	No No	Good	suspect insulation.							
		Washroom	Walls	Interior Walls	Block Wall	High High	No	No	No	Good								
Included M			Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good								
Included M			Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
		Washroom	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
Included M	118A	vvasnroom	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Bare or insulated with fibreglass							
Included M	118A	Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.							
						Ĭ					Duct work not insulated with							
Included M			Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.							
Included M Included M	118B		Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High	No	No	No No	Good Good								
Included M			Floor	Floor	Ceramic Tile	High High	No No	No No	No	Good								
	118B		Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good								
Included M			Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
Included M	118B	Shower	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
Included M	118B	Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.							
included ivi	1100	Shower	Wechanica	riping	ivietai ripes	riigii	140	140	140	G000	Duct work not insulated with							
Included M	118B	Shower	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.							
Included M			Miscellaneous		White Firestop	High	No	Yes	No	Good								
Included M Included M				Interior Walls	Block Wall	High	No	No	No No	Good								
		Storage/Utility Room Storage/Utility Room	Floor	Floor Ceiling	Concrete Metal Deck	High High	No No	No No	No No	Good Good								
		Storage/Utility Room		Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
		Storage/Utility Room		Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.							
					l		l				Bare or insulated with fibreglass							
Included M	119	Storage/Utility Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with							
Included M	119	Storage/Utility Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.							
Included M	120	Storage Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good								
Included M	120	Storage Room	Floor	Floor	Concrete	High	No	No	No	Good								
Included M Included M	120	Storage Room	Ceiling	Ceiling Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present							
included ivi	120	Storage Room	Celling Space	Celling Space	IVA	IN/A	IN/A	IN/A	IN/A	IN/A	No ceiling space present							
											Block wall observed to be							
		1				I	1				hollow adjacent to the entrance.							
look: dad		Alanus	Mall-	Interior W-II-	Plank Wall	10-7	N	N-	N1-	0	Block wall shared with Room 119 was observed to be solid.							
Included M Included M		Alcove	Walls Floor	Interior Walls	Block Wall Concrete	High High	No No	No No	No No	Good	i i 9 was observed to be solid.							
Included M			Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
Included M	121	Alcove	Ceiling Space		N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
Included M	122	Mechanical Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good								
Included M	122	Mechanical Room	Walls	Interior Walls	Wood Motel Cladding	High	No	No	No No	Good								
		Mechanical Room Mechanical Room	Walls Floor	Interior Walls	Metal Cladding Concrete	High High	No No	No No	No No	Good								
		Mechanical Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good								
Included M	122	Mechanical Room	Ceiling	Ceiling	Wood	High	No	No	No	Good	<u> </u>							
Included M	122	Mechanical Room	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present							
Included M	122	Mechanical Room	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.							
Included M	122	Mechanical Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.							
		Mechanical Room	Miscellaneous		White Firestop	High	No	Yes	No	Good	and i vo mangs.	Bulk A	A-016 18	Apr-17				
				· ·	· ·	Ĭ												
lt .			March 1	T 1 01	Teelle and Cities at the cities		1 1	.,	٠.	-	Tanks and chillers not insulated							
Included M Included M		Mechanical Room	Mechanical Walls	Tanks and Chiller Interior Walls	Tanks and Chiller Insulation Block Wall	High High	No No	No No	No No	Poor Good	with suspect insulation.							
III O LUCIELU AA	123	Garage	Walls	Interior walls	Metal Cladding	High High	No No	No No	No No	Good								
Included M	123		Floor	Floor	Concrete	High	No	No	No	Good								
Included M Included M		Garage			_	т	_				Not specifically sampled due to							
Included M Included M	123																	
Included M	123		Ceiling	Ceiling	Drywall Ceiling	Low	No	No	No	Good	height restriction.							
Included M Included M Included M	123	Garage	Ceiling		Drywall Ceiling						Not assessed due to solid							
Included M Included M Included M Included M	123 123 123	Garage Garage	Ceiling Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	Not assessed due to solid ceiling and heights.							
Included M Included M Included M	123 123 123	Garage Garage	Ceiling	Ceiling Space	Drywall Ceiling N/A Non Suspect Door			N/A			Not assessed due to solid ceiling and heights.							

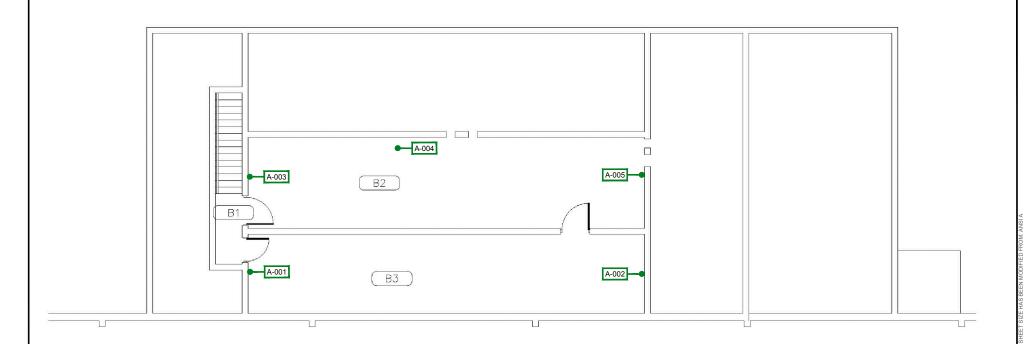
					EL IB																Inspect and sample		
Included		123	Carago	Flectrical	Electrical Panels an Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.					No	No	Annually	Low	if scheduled for removal.		
Included	M	120	Zamboni Room	Walls	Interior Walls	Block Wall	High	No	No	No		concerns.					INU	INU	Armually	LOW	Temoval.		
included	IVI	124	Zamboni Room	vvalis	IIILEIIOI VValis	DIOCK WAII	riigii	INO	140	140	Good			A-009;									
														A-010;								/	
														A-011								/	
														A-012; and	1								
Included	М	124	Zamboni Room	Walls	Interior Walls	Drywall Walls	High	No	Yes	No	Poor		Bulk	A-013	18-Apr-17							/	
Included		124	Zamboni Room	Walls	Interior Walls	Plastic Panels	High	No	No	No	Good												
Included	M	124	Zamboni Room	Floor	Floor	Concrete	High	No	No	No	Good												
							Ť				1	Not specifically sampled due to											
Included	M	124	Zamboni Room	Ceiling	Ceiling	Drywall Ceiling	Low	No	No	No	Good	height restriction.											
						-						Not assessed due to solid											
Included	M	124	Zamboni Room	Ceiling Space	Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	ceiling and heights.											
Included	M	124	Zamboni Room	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.											
												Bare or insulated with fibreglass											
Included		124	Zamboni Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.											
Included			Zamboni Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good			A-015									
Included	M	124	Zamboni Room	Miscellaneous	Caulking	White Plastic Panel Caulking	High	No	Yes	No	Good	L	Bulk	A-014	18-Apr-17								
												Block wall shared with Room										/	
Included		125	Rink	Walls	Interior Walls	Block Wall	High	No	No	No	Good	119 was observed to be solid.											
Included		125		Walls	Interior Walls	Wood	High	No	No	No	Good											$\overline{}$	
Included		125 125		Floor	Floor	Concrete 1'x2' Black Floor Tile	High	No	No	No	Good											$\overline{}$	
Included Included		125		Floor	Floor Floor	Black Floor Mastic	High	No No	Yes	No No	Good		Bulk	A-028	18-Apr-17							$\overline{}$	
Included		125		Floor	Floor	Brown Floor Putty	High High	No No	Yes Yes	No	Good			A-028 A-029					!				
Included		125		Floor	Floor	Grey Vinyl Sheet Flooring with White	High	No No	Yes	No	Good		DUIK	A-029	10-Api-17				-				
Included		125		Ceiling	Ceiling	Metal Deck	High	No	No	No	Good				1				 			$\overline{}$	
Included		125			Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present											
meidaea	141	125	IXIIIX	Ocining Opacc	Ocining Opacc	14/4	14/73	1973	19/73	1973	1973	Bare or insulated with fibreglass	g .										
Included	м	125	Rink	Mechanical	Pining	Metal Pipes	High	No	No	No	Good	and PVC fittings.										/	
moradod		120	TAILIA	Widerianica	i ipiiig	Motal 1 ipoc	- ingi-	110	140	140	0000	and i vo mange.											
																					Inspect and sample		
					Electrical Panels ar	nd						Not sampled due to safety									if scheduled for		
Included	M	125	Rink	Electrical	Components	Electrical Panels and Components	High	Yes	No	Potential	Good	concerns.					No	No	Annually	Low	removal.		
Included	M	125	Rink	Miscellaneous	Seating	Black Bleacher Vinyl	High	No	Yes	No	Good		Bulk	A-030	18-Apr-17								
Included	E	Exterior	Exterior	Walls	Exterior Walls	Metal Cladded Walls	High	No	No	No	Good												
Included		Exterior	Exterior	Walls	Exterior Walls	Block Walls	High	No	No	No	Good												
Included		Exterior		Miscellaneous		White Pipe Penetration Caulking	High	No	Yes	No	Good		Bulk	A-034									
Included		Exterior		Miscellaneous		Green Building Caulking	High	No	Yes	No	Good		Bulk										
		Exterior		Miscellaneous		Grey Firestop	High	No	Yes	No	Good		Bulk	A-036									
Included	E	Exterior	Exterior	Miscellaneous	Caulking	White Building Caulking	High	No	Yes	No	Good		Bulk	A-037	18-Apr-17								
												Door was locked and access											
												could not be provided.										/	
												Asbestos-containing vermiculite	1									/	
F		400	0	Fatire Dans	F-4: D							is suspected to be located in the	9									/	
Excluded	М	102	Concession	Entire Room	Endre Room						1	exterior walls. Access to the entire room was										\longrightarrow	
												prevented due to materials											
												being stored within the room.											
												Room was assessed from the											
Excluded	м	120	Storage Room	Entire Room	Entire Room							doorway.											
Excluded	iVI	120	Otorage Nooiii	Little Rooff	Little Koolii							Not assessed due to											
												accessibility. Located below											
Excluded	М	125	Pipe Chase	Crawlspace	Crawlspace							concrete pads.											
		T										Not assessed due to											
Excluded		Exterior	Roof	Exterior Roof	Exterior Roof							accessibility											
	-	•				•									•		•						-



APPENDIX D

Floor Plan





- ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
 ASBESTOS-CONTAINING VERMICULITE INSULATION WAS IDENTIFIED. IN SELECT LOCATIONS OF THE SITE. ADDITIONAL ASBESTOS-CONTAINING VERMICULITE INSULATION MAY BE LOCATED IN ADDITIONAL BLOCK WALL THROUGHOUT THE SITE.

LEGEND



ASBESTOS - CONTAINING SAMPLE LOCATION



CONFIRMED LOCATION OF ASBESTOS - CONTAINING



ASBESTOS - CONTAINING DRYWALL JOINT COMPOUND



NO ACCESS

SUSPECTED LOCATION OF ASBESTOS - CONTAINING

VERMICULITE

REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY JUNE 10, 2002.

CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD	2017-05-03
DESIGNED	КН
PREPARED	VI
REVIEWED	КН
APPROVED	AG

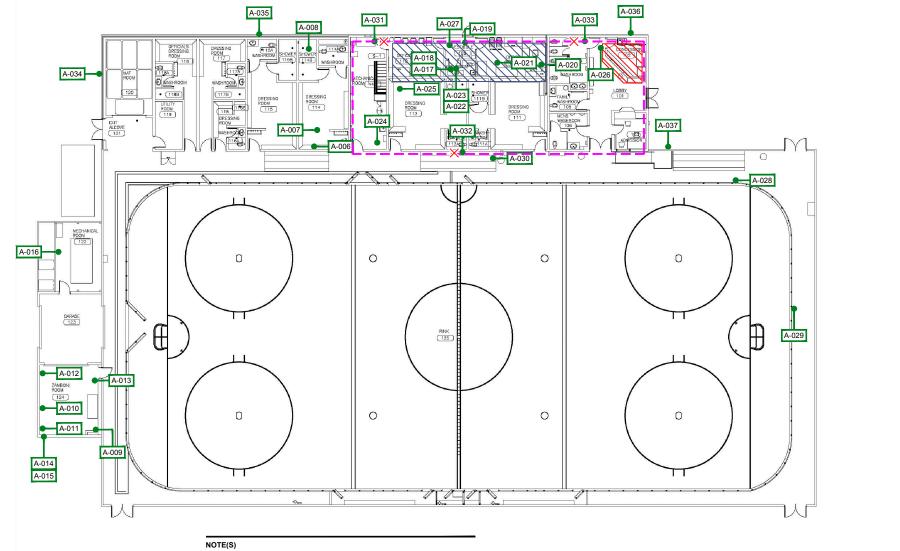
SCHEMATIC ONLY, NOT TO SCALE

ASBESTOS ASSESSMENT LIONS ARENA

2205 McEOWN AVENUE, SASKATOON

BASEMENT

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



LEGEND



ASBESTOS SAMPLE LOCATION



CONFIRMED LOCATION OF ASBESTOS - CONTAINING VERMICULITE



ASBESTOS - CONTAINING DRYWALL JOINT COMPOUND

NO ACCESS

SUSPECTED LOCATION OF ASBESTOS - CONTAINING VERMICULITE

REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY 10/11/2012.

- 1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
- ASBESTOS-CONTAINING VERMICULITE INSULATION WAS IDENTIFIED IN SELECT LOCATIONS OF THE SITE. ADDITIONAL ASBESTOS-CONTAINING VERMICULITE INSULATION MAY BE LOCATED IN ADDITIONAL BLOCK WALL THROUGHOUT THE SITE.

CLIENT

CITY OF SASKATOON

CONSULTANT



`	YYYY-MM-DD	2017-05-03
[DESIGNED	KH
F	PREPARED	VI
F	REVIEWED	KH
,	APPROVED	AG

SCHEMATIC ONLY, NOT TO SCALE

PROJECT
ASBESTOS ASSESSMENT
LIONS ARENA
2205 McEOWN AVENUE, SASKATOON

TITLE

MAIN FLOOR

PROJECT NO. CONTROL 1667963 1000-HM-0002	REV.	FIGURE 2
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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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solutions@golder.com www.golder.com

Golder Associates Ltd. 16820 107 Avenue Edmonton, Alberta, T5P 4C3 Canada T: +1 (780) 483 3499



Bersch Consulting Ltd.

April 9, 2020

City of Saskatoon 3130 Laurier Drive Saskatoon, SK S7L 5J7

ATTENTION: Dean Buchholz

SUBJECT: Bulk Sample Analysis Report

Please find attached the laboratory results for the bulk samples collected on April 7 & 8, 2020 from the Lions Arena in Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos <u>was</u> detected within 2 of the samples.

The results for the samples submitted were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

This test report relates only to the materials sent for examination and any use or extension of the information by the client of these results is the responsibility of the client.

If any questions arise on the results of the attached information, please contact our office. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky

BERSCH CONSULTING LTD.

B67BLD07J lions arena

Bersch Consulting Ltd.

Bulk Sample Analysis Report

April 9, 2020

Project Number: B67.20

Client: City of Saskatoon

Contact: Dean Buchholz

Location: Lions Arena

File Number: B67BAD07J lions arena

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2020/04/07	Drainpipe	Ice Surface Concrete Slab Southeast Drain.	Amosite	30%	WB/EMSL
2	2020/04/07	Drainpipe	Ice Surface Concrete Slab Southwest Drain.	Amosite	30%	WB/EMSL
3	2020/04/08	Drain Tile	Ice Surface Weeping Tile Below the Slab along the North Side Running East & West.	No Asbestos Detected		WB/EMSL

Note: The results for the samples submitted were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

Photo ID

B67BAD07J - 001

Sample Number

B67BAD07J - 1

Asbestos Containing

Description

Ice Surface

Southeast Drainpipe.



Photo ID

B67BAD07J - 002

Sample Number

B67BAD07J - 2

Asbestos Containing

Description

Ice Surface

Southwest Drainpipe.



Photo ID

B67BAD07J - 003

Sample Number

B67BAD07J - 1 & 2

Asbestos Containing

Description

Ice Surface

Southwest Drainpipe.

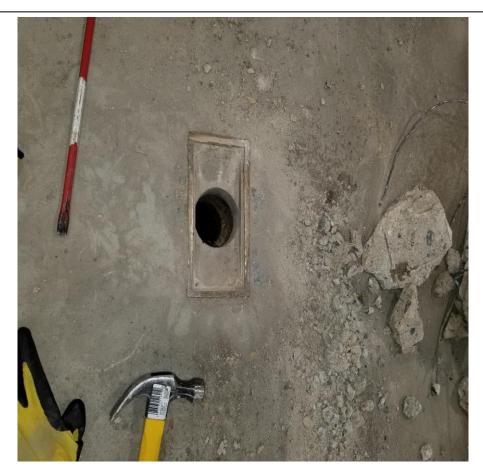


Photo ID

B67PRK13I - 004

Sample Number

B67BAD07J - 3

Non Asbestos Containing

Description

Ice Surface

Weeping Tile Below the Slab along the North Side Running East & West.

This photo was taken from the sump pit in the basement mechanical room.

