



DERRICK CARROLL ASBESTOS SURVEY REPORT



March 2014

Prepared For: City of Saskatoon – Infrastructure Services Department
1101 Avenue P North, Saskatoon SK, Canada S7L 7K6
Attn: Brent Anderson

Prepared By: Bersch & Associates Ltd.
Project No. : B67SRC06

1.0 EXECUTIVE SUMMARY

The asbestos audit of the Derrick Carroll Building located at 75 King Street Saskatoon, SK. entailed the inspection of all accessible suspect asbestos-containing materials (ACM) located within the facility. Materials inspected included insulation materials, floor covering materials, mechanical insulation materials, ceiling tiles, tool boards, sealant materials and expansion gaskets.

Bulk sample analysis results indicate the presence of “Chrysotile” asbestos within the Derrick Carroll Building located in Saskatoon, SK. Please refer to **Appendix I for Bulk Sample Analysis** results. The recommended actions to be implemented in reference to the ACM identified are Management. Please refer to section 5 Asbestos Abatement Discussion for definitions. It should be noted that the recommendation of “Management” as part of the asbestos action plan is based upon the premise that renovations are not scheduled throughout the area that would impact the asbestos containing material present. ***Prior to any major renovation/demolition activity, a destructive investigation is recommended to identify any inaccessible ACM that is physically concealed or isolated in areas such as enclosed wall/ceiling/floor cavities and pipe chases.*** Asbestos was detected in the following forms throughout the facility:

- **Vinyl Asbestos Floor Tile** is located within 214 Supply & Filing Closet.
- **Although it is unlikely due to sample results, any material located within ceilings, wall cavities, pipe chases or other inaccessible areas or areas of limited access shall be considered asbestos-containing until testing of the material can determine the presence or absence of asbestos.**

Bersch & Associates Ltd. implemented the use of doorjamb labels that are applied to all the doorjambs of the rooms containing asbestos within the facility. This permits anyone accessing the room to easily identify the ACM present without having to reference the written report. Legends providing explanation of the abbreviations used on doorjambs were placed on the backside of all maintenance/custodial doors within the facility. Employees and contractors will use the legend as a reference to identify ACM within the areas they are working.

Included in **Appendix II** of this report is a **Floor Plan** of the facility.

2.0 INTRODUCTION

Bersch & Associates Ltd. was retained by the City of Saskatoon to conduct an Asbestos Survey and Hazard Assessment of the Derrick Carroll Building located at 75 King Street. The survey entailed the inspection of all accessible areas of the facility; including ceiling spaces, pipe chases, and attics. The purpose of the survey was to locate, identify and assess the condition of all Asbestos Containing Materials (ACM) located throughout the facility. This report gives a detailed account of the inspection results and our firm’s recommendations on control options to be implemented to bring the facility in compliance with the Province of Saskatchewan

Occupational Health and Safety Act and Regulations. Bersch & Associates Ltd. conducted the survey in March 2014. A review of this report shall be conducted with all trades that are entering the facility to perform maintenance or renovation activity. This will ensure they are familiar with the types and locations of asbestos-containing materials present and prevent any uncontrolled disturbance and/or possible exposure to asbestos.

3.0 METHODOLOGY

Bersch & Associates Ltd. conducted the survey of the Derrick Carroll Building in March 2014. The primary documents for guidance and criteria in this survey were the Province of Saskatchewan "Occupational Health and Safety Act and Regulations, 1996", Province of Saskatchewan "Managing Asbestos", and the U.S. Environmental Protection Agency "Guidance for Controlling Asbestos Containing Materials in Buildings". The USEPA document identifies factors associated with the "condition" and the "potential for disturbance or erosion" of asbestos containing materials (ACM). These factors help to determine potential for exposure to ACM and were used to make a qualitative evaluation of the material. It should be noted that the recommendation of "Management" Asbestos Abatement Action is based upon the premise that renovations are not scheduled in that area that will require disturbing or violating the asbestos containing material. In the event that renovations are scheduled that impact upon the areas of asbestos containing material then pre-removal of the asbestos containing materials may be necessary.

In total, fifteen (15) bulk samples of suspect asbestos-containing materials were collected within the Derrick Carroll Building. As a result Chrysotile asbestos was detected within the #4 floor tile sample. Refer to Appendix I for a copy of the Bulk Sample Analysis Report. All bulk samples collected were analyzed by Bersch & Associates Ltd. laboratory in accordance with the current U.S. 40 CFR Part 763, Vol. 52, No.210 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%.

4.0 RECOMMENDATIONS

214 - Supply & Filing Closet

Vinyl Asbestos Floor Tile is located within the room. This material is considered a non-friable material and will not produce an elevated airborne fibre release unless mechanically disturbed. Recommendation is for the management of this material until renovations warrant removal.

PRIORITY:	THREE
CONDITION:	GOOD
POTENTIAL FOR DISTURBANCE:	LOW
ACTION:	MANAGE

5.0 ASBESTOS ABATEMENT DISCUSSION

Asbestos is a known carcinogen and is listed in the Province of Saskatchewan under the Occupational Health and Safety Appendix, Part V as a Hazardous Chemical Substance and any release of asbestos fibres into the atmosphere creates a potential health hazard. Although the mechanism and epidemiology of asbestos carcinogenesis is not yet well defined, accumulating evidence suggests the significance of exposure at even very low fibre concentrations and hence human exposure should be kept to a minimum. It should be noted however that asbestos is a natural mineral and a measurable background concentration can be detected in any location sampled (inside buildings, outside buildings, urban, rural, etc.). The recommendations of the report are therefore intended to keep the potential exposure to an absolute minimum with the knowledge that a zero exposure is not possible.

Asbestos containing materials have been used in a wide variety of applications. Of particular concern, is the group of so called friable products. A friable product is one which can be crumbled or reduced to powder or smaller fragments by hand pressure. Publications from the U.S.E.P.A. as early as 1977 have indicated the potential hazard of asbestos exposure in buildings containing these friable products. The two main uses of friable asbestos products are as spray insulation (thermal, acoustic or fireproofing) on deck and/or beams or as thermal insulation on piping or mechanical equipment. A large amount of non-friable asbestos-containing materials have also been used in building construction such as asbestos cement board and asbestos containing vinyl flooring.

The mere presence of a friable asbestos containing material does not imply that there is an actual presence of elevated airborne fibre. As numerous studies have indicated, elevated asbestos fibre levels are generally found when settled dust or the actual asbestos containing material itself is disturbed by maintenance, renovation, inadvertent contact or vibration. The factors considered in the Environmental Protection Agency (USEPA) exposure assessment (condition of material, water damage, activity, movement, exposed surface area, accessibility, friability and presence in an air stream) often give some indication of the likelihood of fibre release but are not in any way definitive in determining whether a hazard exists or not. That is, even if the most friable product exists in a building, elevated fibre levels will not likely occur unless there is some disturbance by physical contact, vibration or an air stream.

There are four possible approaches to control exposure to airborne asbestos once a friable material is identified in a building. These methods briefly are as follows:

- A) Removal** - Asbestos material is removed and disposed of by burial and replaced by non-asbestos materials.
 - B) Encapsulation** - Asbestos material is coated with a bridging or penetrating sealant.
 - C) Enclosure** - Asbestos containing materials are separated from the building environment by barriers such as suspended ceilings or cladding materials.
 - D) Deferred Action or Management and Custodial Control** - The Province of Saskatchewan Human Resources, Labor and Employment Branch under the
- Bersch & Associates Ltd. 2014

Occupational health and Safety Regulations publish a document outlining “The Management of Asbestos”. In the guide for compliance, an action plan is outlined for management of the asbestos materials identified and in summary is:

1. Identification, which has been accomplished by this report.
2. Development of Written Handling Procedures for maintenance personnel or often arrangements are made for a qualified contractor to conduct the necessary removal or spot maintenance prior to the regular staff conducting maintenance.
3. Asbestos Abatement Awareness and Process Training if the regular maintenance personnel are required to conduct asbestos related activities.
4. Inspection on regular basis is conducted to determine the ongoing condition of the material.

6.0 REFERENCES

- .1 Province of Saskatchewan "The Occupational Health and Safety Act and The Occupational Health and Safety Regulations" Office Consolidation, December 1996.
- .2 Province of Saskatchewan Human Resources, Labor, and Employment "The Management of Asbestos" January, 1991.
- .3 USEPA, U.S. Environmental Protection Agency, "Guidance for Controlling Asbestos-Containing Materials in Buildings". Washington, DC: Office of Toxic Substances, USEPA.
- .4 Midwest Centre for Occupational Health & Safety St. Paul's, Minnesota – Asbestos Training For Inspectors & Management Planners
- .5 McCrone Research Institute Course Hayward California " Asbestos Identification"
- .6 Environment Management and Protection Act, Saskatchewan Environment, October 2002
- .7 Hazardous Substances and waste Dangerous Goods Regulations, Saskatchewan Environment, April 1989

APPENDIX I

BULK SAMPLE ANALYSIS REPORT

BERSCH & ASSOCIATES LTD.

March 10, 2014

City of Saskatoon

Infrastructure Services Department
1101 Avenue P North
Saskatoon, Sk.
S7L 7K6

ATTENTION: Brent Anderson

SUBJECT: Derrick Carroll Building – Bulk Sample Report

Please find attached our laboratory's results for the bulk material samples taken from the Derrick Carroll Building located at 75 King Street, Saskatoon, SK. The samples were analyzed in our laboratory for the identification of asbestos.

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 to your firm.

Sincerely,

Wes Berschiminsky
Bersch & Associates Ltd.
File: B67BLC06

Bersch & Associates Ltd.

B67BAC06

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Derrick Carroll Building - 75 King Street, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	9-May-13	113A - Parts - 1' x 1' floor tile, white with black spec	None detected		WB
2	9-May-13	125 - Maintenance Area - Small pipeline fitting on yellow line at ceiling height adjacent 124 entry	None detected		WB
3	9-May-13	125 - Maintenance Area - Insulation on large white ducting adjacent 124 entry	None detected		WB
4	6-Mar-14	214 - Supply & Filing Closet - 1' x 1' Floor tile	Chrysotile	1 to 5	WB
5	6-Mar-14	214 - Supply & Filing Closet - Spray foam at pipe penetration into west wall within ceiling space	None detected		WB
6	6-Mar-14	205 - Reception - Duct joint sealant above suspended ceiling adjacent stairwell	None detected		WB
7	6-Mar-14	204 - Office - 2' x 4' ceiling tile, pin hole & slash markings	None detected		WB

Bersch & Associates Ltd.

B67BAC06

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Derrick Carroll Building - 75 King Street, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
8	6-Mar-14	117 - Stairwell - Tar paper at ceiling decking	None detected		WB
9	6-Mar-14	207 - Men's Washroom - Floor covering, dark brown	None detected		WB
10	6-Mar-14	113 - Parts - Lineal pipeline insulation on white line above suspended ceiling	None detected		WB
11	6-Mar-14	114 - Stock Room - Small pipeline fitting on white line adjacent east garage door, adjacent floor	None detected		WB
12	6-Mar-14	125 - Maintenance Area - Lineal pipeline insulation adjacent garage door 12	None detected		WB
13	6-Mar-14	123 - Tire Repair - Gray hanging tool board	None detected		WB
14	6-Mar-14	126 - Overhaul Area - Small brown pipeline fitting at head height adjacent pillar north of mezzanine	None detected		WB
15	6-Mar-14	118 - Repair Area - Expansion gasket on ducting above 119	None detected		WB

BERSCH & ASSOCIATES LTD.

BULK SAMPLE PHOTOS

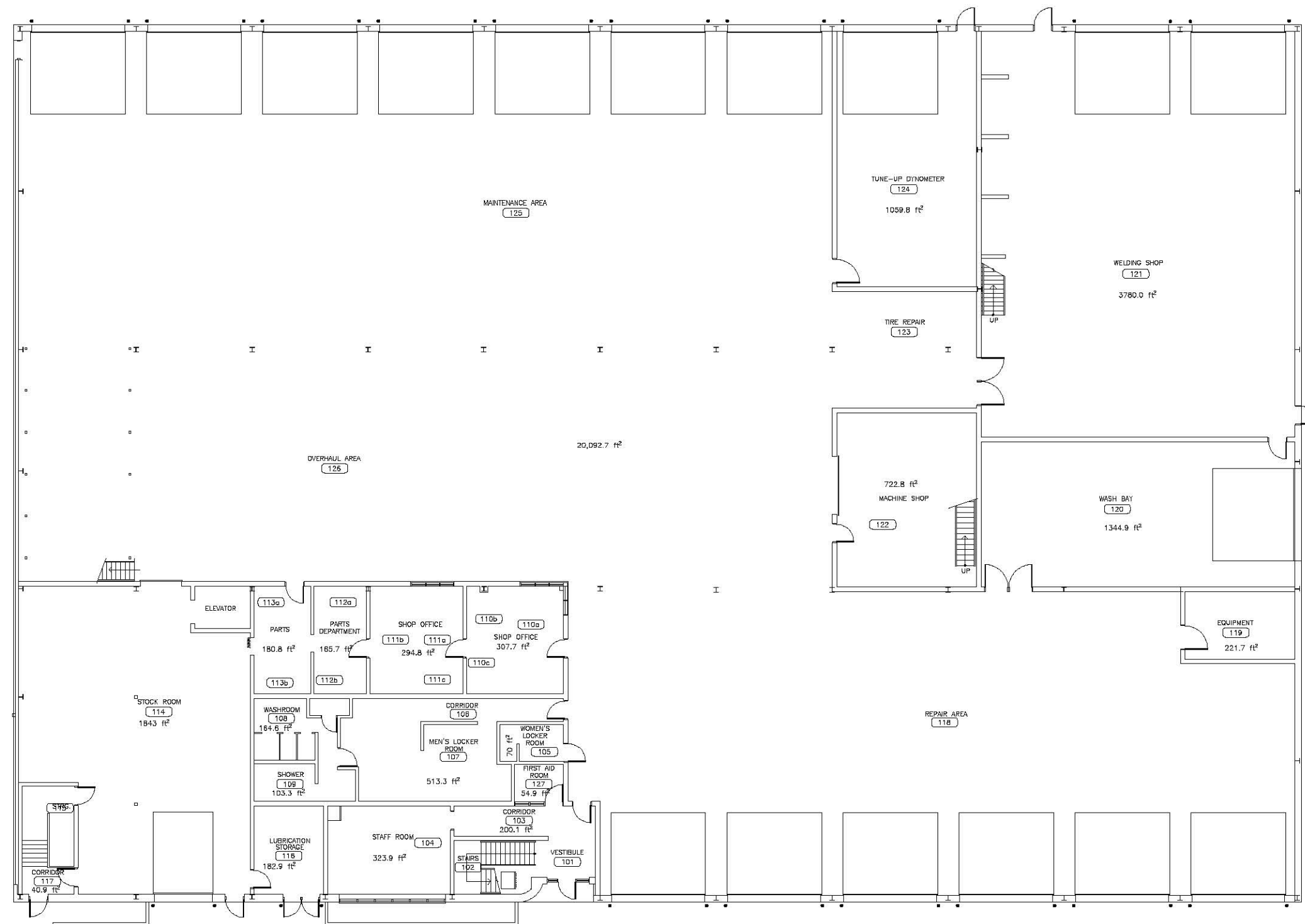
#4) Floor Tile



APPENDIX II

FLOOR PLANS

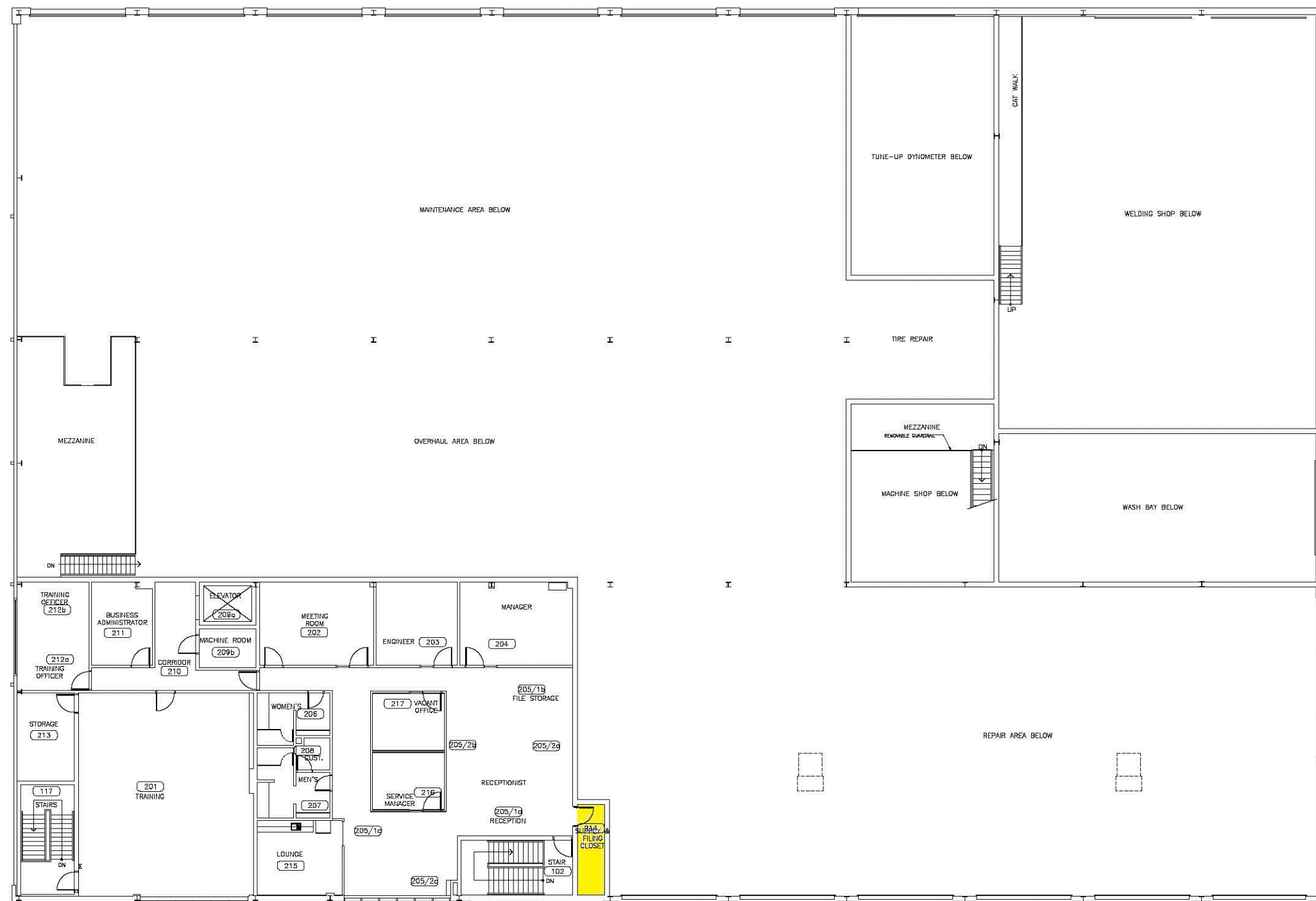
- GENERAL NOTES:
1. All dimensions are in millimetres
 2. Drawings are not to be scaled.
 3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
 4. Verify site conditions and location of all utilities prior to the start of construction.
 5. Report all discrepancies to the Consultant.
 6. If in doubt, ask.



GROSS MAIN FLOOR AREA = 33,356.5 ft²

REV		ISSUED FOR		DATE	
DESIGNED BY:		DRAWN BY:		CHECKED BY:	
				REQUESTED BY: LG	
SCALE: 1:250			DATE: 13/9/2005		
SHEET NAME				Asbuilt	
Main Floor Base Plan					
PROJECT TITLE					
664 V & E Building					
PROJECT NO.			SHEET		
			REV. NO.		

- GENERAL NOTES:
1. All dimensions are in millimetres
 2. Drawings are not to be scaled.
 3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
 4. Verify site conditions and location of all utilities prior to the start of construction.
 5. Report all discrepancies to the Consultant.
 6. If in doubt, ask.



Key

 **Vinyl Asbestos Floor Tile**

REV ISSUED FOR DATE

DESIGNED BY: DRAWN BY: MSB CHECKED BY: REQUESTED BY:

SCALE: 1:250 DATE: 21/05/2008

SHEET NAME Asbuilt

**Second Floor
Base Plan**

PROJECT TITLE
**664
V & E
Building**

PROJECT NO. SHEET

REV. NO. 

Pre- Renovation Assessment

August 29, 2019

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

Attention: Tanner Huynink

File Number: B67PRH19I

Subject: Pre-Renovation Assessment – Derrick Carroll Building

Blake Berschiminsky of Bersch Consulting Ltd. conducted a site visit on August 19, 2019, to the Derrick Carroll Building located at 75 King Street, Saskatoon, Saskatchewan. The purpose of the visit was to investigate and determine the presence/absence of asbestos-containing vermiculite within select block walls. Two (2) walls were investigated and cored into. Vermiculite **was not** present within the walls.

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.

Site Observations and Information

The Derrick Carroll building located at 75 King Street, Saskatoon, Saskatchewan was investigated with the intent of identifying the presence/absence of vermiculite within select block walls prior to any renovations.

- a) The interior cinderblock wall of Room 121/122 (adjacent the Welding Shop) was cored into. Asbestos-containing vermiculite **was not** present within the cinderblock wall.
- b) The northwest exterior cinderblock wall was cored into. Asbestos-containing vermiculite **was not** present within the cinderblock wall.

Bersch Consulting Ltd.

Based on the site investigation there are **no** asbestos concerns regarding the renovation of the two (2) cinderblock walls within the Derrick Carroll building located at 75 King Street, Saskatoon, Saskatchewan.

Please reference to **Appendix I** for the **Bulk Sample Analysis Results** and **Appendix II** for the **Site Photos**.

If any questions arise on the results of the attached information, please contact our office at (306) 978-6665. Thank you for this opportunity of service.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tyneal Knackstedt', with a large, sweeping flourish at the end.

Tyneal Knackstedt
Bersch Consulting Ltd.
B67PRH19I – Derrick Carroll

Appendix I

Bulk Sample Analysis Results

Bulk Sample Analysis Report

August 29, 2019

Project Number: B67.19

Client: City of Saskatoon

Contact: Tanner Huynink

Location: Derrick Carroll Building

File Number: B67BAH19I

Sample Number	Sample Date	Sample Material	Sample Location and Information	Vermiculite
1	2019/08/19	Cinderblock	Interior wall – Room 121/122. Adjacent the Welding Shop.	Vermiculite <u>was not</u> present.
2	2019/08/19	Cinderblock	Northwest exterior wall.	Vermiculite <u>was not</u> present.

Appendix II

Site Photos

Photo ID

B67PRH19I - 001

Sample Number

B67BAH19I - 1

Description

Interior cinderblock wall.

Room 121/122 adjacent the
Welding Shop.

Vermiculite was not present
within the wall.

**Photo ID**

B67PRH19I - 002

Sample Number

B67BAH19I - 2

Description

Exterior cinderblock wall.

Northwest building wall.

Vermiculite was not present
within the wall.



Bersch Consulting Ltd.

June 11, 2018

City of Saskatoon
Facilities & Fleet Division
1101 Avenue P North
S7L 7K6

ATTENTION: Nathan Hahn

SUBJECT: Bulk Sample Analysis Report

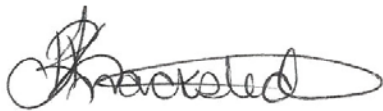
Please find attached the laboratory results for the bulk sample collected on June 7, 2018 from the Derrick Carroll Building located at 75 King Street, Saskatoon, Saskatchewan. The sample was analyzed for the identification of asbestos. Asbestos **was not** detected within the sample.

The results for the sample submitted was 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,

A handwritten signature in black ink, appearing to read 'Tyneal Knackstedt', with a stylized flourish at the end.

Tyneal Knackstedt, M.SEM, B.S.A.
Bersch Consulting Ltd.
B67BLF07H- Derrick Carroll

Bulk Sample Analysis Report

June 11, 2018

Project Number: B67.18

Client: City of Saskatoon

Contact: Nathan Hahn

Location: Derrick Carroll Building

File Number: B67BAF07H

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2018/06/07	Tar Insulation	Roof - Duct	No Asbestos Detected		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.

BERSCH

CONSULTING LTD.

November 28, 2017

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

ATTENTION: Nathan Hahn

SUBJECT: Bulk Sample Analysis Report

Please find attached the laboratory results for the bulk samples collected November 23, 2017 from the Derrick Carroll Building. The sampling was requested prior to the replacement of the Women's Washroom 206 threshold. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected within the samples. It is safe to proceed with the threshold installation.

A sample of the mastic and concrete in the adjacent 202 boardroom was collected to determine if asbestos was present in the floor composition that would affect the replacement of the threshold in the doorway into the Women's washroom. The dark floor covering that is present in the women's washroom is the same flooring that is in the 207 Men's Washroom. The sample #9 in the 2014 asbestos survey of the Derrick Carroll building resulted in no asbestos detected in the flooring material.

The results for the samples submitted were obtained by examination in accordance with the current U.S. EPA 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,



Bersch Consulting Ltd.
B67BLK23G

BERSCH CONSULTING LTD. 244-2002 QUEBEC AVENUE, SASKATOON, SK S7K 1W4
Office: 306.978.6665 Cell: 306.222.7477 Email: brad@bersch.ca

Bersch Consulting Ltd.

B67BAK23G

244-2002 Quebec Avenue
Saskatoon, SK S7K 1W4

BULK SAMPLE ANALYSIS REPORT**PROJECT NO: B67.17****CLIENT: CITY OF SASKATOON****CONTACT: NATHAN HAHN****LOCATION: Derrick Carroll Building V & E**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	23-Nov-17	2nd Floor Room 202 Boardroom - Brown/Black Mastic in Northeast Corner Behind the Door Beneath the Carpet.	No Asbestos Detected		EMSL
2	23-Nov-17	2nd Floor Room 202 Boardroom - Concrete floor in Northeast Corner Behind the Door Beneath the Carpet.	No Asbestos Detected		EMSL

BERSCH & ASSOCIATES LTD.

October 27th, 2016

City of Saskatoon
Fleet Services Department
75 King Street
Saskatoon, SK
S7K 8J3

ATTENTION: Dale Braun

SUBJECT: Bulk Sample Analysis Report – Derrick Carroll Vehicle & Equipment Repair Shop

Please find attached the laboratory results for the bulk samples collected from the Derrick Carroll Vehicle & Equip. Repair Shop on October 24th, 2016 located 75 King Street, Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected in 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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky
Bersch & Associates Ltd.

File: B67BLJ24F – Derrick Carroll Vehicle & Equip. Repair Shop

BERSCH & ASSOCIATES LTD. 244-2002 QUEBEC AVENUE, SASKATOON, SK S7K 1W4
Ph: (306) 978-6665 Fax: (306) 978-6664

Bersch & Associates Ltd.

B67BAJ24F

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO: B67.16****CLIENT: CITY OF SASKATOON
FLEET SERVICES DEPARTMENT****CONTACT: DALE BRAUN****LOCATION: DERRICK CARROLL VEHICLE & EQUIP REPAIR SHOP
75 KING STREET, SASKATOON, SK**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	24-Oct-16	Welding Shop - Roof Drain Mud Compound	No Asbestos Detected		WB
2	24-Oct-16	Welding Shop - Lineal Pipe Insulation On Small "DW" Lines	No Asbestos Detected		WB

BERSCH CONSULTING LTD.

February 24th, 2017

City of Saskatoon
Fleet Services Department
75 King Street
Saskatoon, SK
S7K 8J3

ATTENTION: Jason Kennon

SUBJECT: Bulk Sample Analysis Report – Derrick Carroll 2nd Floor Office Building

Please find attached the laboratory results for the bulk samples collected from the Derrick Carroll 2nd Floor Office Building on February 17th, 2017 located 75 King Street, Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected in 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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky
Bersch Consulting Ltd.

File: B67BLB17G – Derrick Carroll 2nd Floor Office Building

BERSCH CONSULTING LTD. 244-2002 QUEBEC AVENUE, SASKATOON, SK S7K 1W4
Ph: (306) 978-6665 Fax: (306) 975-9665

Bersch Consulting Ltd.

B67BAB17G

244-2002 Quebec Avenue
Saskatoon, SK S7K 1W4

BULK SAMPLE ANALYSIS REPORT**PROJECT NO: B67.17****CLIENT: CITY OF SASKATOON****CONTACT: JASON KENNON****LOCATION: DERREK CARROLL BUILDING - 75 KING STREET, SASKATOON, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	17-Feb-17	2nd Floor - Office Building - Wall Drywall Mud Compound	No Asbestos Detected		WB

BERSCH CONSULTING LTD.

March 9th, 2017

City of Saskatoon
Fleet Services Department
75 King Street
Saskatoon, SK
S7K 8J3

ATTENTION: Jason Kennon

**SUBJECT: Pre-Renovation Assesment – Derrick Carroll – Main Shop – In-Floor Hoist
Removal Project.**

Mitch Webber of Bersch Consulting Ltd. conducted a site visit on March 7th, 2017 to a collect bulk sample of concrete floor material to determine the prescene/abscense of asbestos content. The facility is located at City Yards, 75 King Street, Saskatoon, SK. One sample was collected and analyzed for the identification of asbestos. Asbestos **was not** detected within the sample. Based on the bulk sampling, there does not appear to be an asbestos concern that would reflect on the in-floor hoist removal proposed for the area.

The results for the bulk sample was 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.

The Main Shop consists of a concrete slab floor. Refer to the attached photos.

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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Mitch Webber
Bersch Consulting Ltd.

File: B67BLC07G – Derrick Carroll Main Shop

Bersch Consulting Ltd.

B67BAC07G

244-2002 Quebec Avenue
Saskatoon, SK S7K 1W4

BULK SAMPLE ANALYSIS REPORT**PROJECT NO: B67.17****CLIENT: CITY OF SASKATOON****CONTACT: JASON KENNON****LOCATION: DERREK CARROLL BUILDING - 75 KING STREET, SASKATOON, SK.**

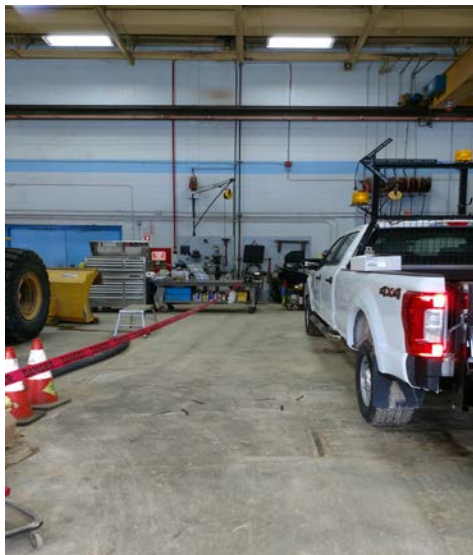
NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	7-Mar-17	Main Shop Area - Concrete Flooring	No Asbestos Detected		WB

SITE PHOTOS

PHOTO 1 – MAIN SHOP AREA – IN-FLOOR HOIST



PHOTO 2 – MAIN FLOOR AREA – CONCRETE FLOOR



BERSCH CONSULTING LTD.

March 15th, 2017

City of Saskatoon
Fleet Services Department
75 King Street
Saskatoon, SK
S7K 8J3

ATTENTION: Jason Kennon

SUBJECT: Pre-Renovation Assesment – Derrick Carroll – Room 124.

Mitch Webber of Bersch Consulting Ltd. conducted a site visit on March 15th, 2017 to investigate the cindercrete block walls in room 124 (Bay #10) to determine the prescene/abscense of vermiculite block wall insulation. The facility is located at City Yards, 75 King Street, Saskatoon, SK. The North, East & South block walls were drilled into resulting in hollow block cavities. No insulation was observed in the block walls. Please refer to the attached photos. There does not appear to be an asbestos concern that would reflect on the renovations proposed for the area.

Room 124 (Bay #10) consists of a concrete slab floor and cindercrete block walls.

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 at 306.978.6665. Thank you for this opportunity of service!

Sincerely,



Mitch Webber
Bersch Consulting Ltd.

File No.: B67BLC15G – Derrick Carroll – 124 (Bay #10)

SITE PHOTOS

PHOTO 1 – 124 (BAY #10) – NORTH BLOCK WALL



PHOTO 2 – 124 (BAY #10) - EAST BLOCK WALL



PHOTO 3 – 124 (BAY #10) - SOUTH BLOCK WALL

