

Harry Bailey Aquatic Centre Asbestos Survey Report



July 2015

Prepared For: City of Saskatoon Infrastructure Services - Facilities Branch
3130 Laurier Drive, Saskatoon, SK.
Attn: Brent Anderson

Prepared By: Bersch & Associates Ltd.
Project No. : B67SRG10

1.0 EXECUTIVE SUMMARY

Brad Berschiminsky of Bersch & Associates Ltd. was contacted by Tim Gall of the Harry Bailey Aquatic Centre to review and update the priority items following the recent asbestos abatement activity that was performed. A site visit was conducted on October 27, 2015 to review and confirm the work in order to provide this update.

The survey of the Harry Bailey Aquatic Centre building located at 1110 Idylwyld Drive North in Saskatoon, Saskatchewan entailed the inspection of all accessible suspect asbestos containing material (ACM) located throughout the facility. Materials inspected included: mechanical insulating material, Gaskets, Texture Ceiling, Vinyl Floor Tile and Fire-Stop.

Bulk sample analysis results indicate the presence of “Chrysotile” asbestos within the Harry Bailey Aquatic Centre 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 Remove, Repair and 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. Further testing of drywall mud compound may also be required prior to renovation.* Asbestos was detected in the following forms throughout the facility:

- **Pipe Fitting Mud Compound** is located on various pipe elbows, “T” fittings and hangers on mechanical piping within the **B06 Boiler Room** and **52 Fan Room**. Refer to *Appendix II* of this report. All accessible asbestos-containing pipe fittings have been identified with a red dot of spray paint. **Additional pipe fitting mud compounds may be present above inaccessible enclosed ceiling spaces and wall cavities of the facility. Prior to any major renovation activity throughout the facility a destructive investigation is recommended. All pipefitting mud compound located within enclosed or inaccessible areas shall assume to be asbestos containing until laboratory analysis proves otherwise.**
- **Gasket Material** was identified on a valve in the **B06 Boiler Room** that was removed from service (The aforementioned valve item has been addressed Sept. 2015, the boiler gasket following this note remains in place to manage). Asbestos rope gasket was also identified on the Volcano B-1 Boiler Ends. . Refer to *Appendix II* of this report. All Gaskets on the mechanical system throughout the facility are suspect of containing asbestos. Lab analysis shall be required to determine asbestos content.

- **Mechanical Vessel Insulation** is located on the **Heat Exchanger** and the **T-6 Tank** in the **B06 Boiler Room**. Refer to *Appendix II* of this report. The asbestos-containing vessel insulation has been identified with red stenciled “Asbestos”.
- **Lineal Pipeline Insulation** is located on the **Hydro Therm Units Exhaust Breaching** in the **B06 Boiler Room**. Refer to *Appendix II* of this report. The asbestos-containing mud compound / lineal insulation has been identified with red stenciled “Asbestos”.
- **The Block Walls** throughout the facility were inspected for Vermiculite content as some forms of Vermiculite do contain asbestos. No Vermiculite was observed during the asbestos inspection activity. However, a thorough destructive investigation is recommended prior to building demolition to ensure the absence of vermiculite asbestos material.

Throughout the survey of the Harry Bailey Aquatic Centre the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. See the **Survey Spreadsheet Database** in *Appendix II* for a room-by-room account.

Bersch & Associates Ltd. implemented the use of doorjamb labels that are applied to all the doorjambes 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 doorjambes 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.

2.0 INTRODUCTION

Bersch & Associates Ltd. was retained by the City of Saskatoon to conduct an Asbestos Survey and Hazard Assessment of the Harry Bailey Aquatic Centre located in Saskatoon, SK. The survey entailed the inspection of all accessible areas of the facility; including ceiling spaces and pipe chases. 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 May 2015. 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 Harry Bailey Aquatic Centre located in Saskatoon, SK in May of 2015. 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, forty-three (43) bulk samples of suspect asbestos-containing materials were collected throughout the facility. Chrysotile asbestos was identified within eleven (11) of the samples collected. 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 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 <1% by volume.

4.0 RECOMMENDATIONS:

Throughout the survey of the Harry Bailey Aquatic Centre the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. As a result, “Priority One” items were identified within the facility (The priority one items have been addressed in Sept. 2015). Refer to the recommendations provided in the attached updated **Asbestos Survey Database found in Appendix II.**

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 that 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 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. Sask. Occupational Health & Safety Regulations require an "annual" inspection of all "friable" asbestos materials by a competent person.

The recommended actions to be implemented in reference to the ACM identified are Removal, Repair and Management. In the event renovations or maintenance is performed within areas containing asbestos materials, written procedures must be developed to conduct the activity or prior removal if the situation warrants.

6.0 REFERENCES

- 1 Province of Saskatchewan "The Occupational Health and Safety Act and The Occupational Health and Safety Regulations" Office Consolidation, January 1996.
- 2 Province of Saskatchewan Human Resources, Labor, and Employment "The Management of Asbestos" January, 1991.
- 3 USEPA, 1985. 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.

May 15, 2015

City Of Saskatoon
Infrastructure Services Department
3130 Laurier Drive
Saskatoon, Sk.
S7L 5J7

ATTENTION: Brent Anderson

SUBJECT: Bulk Sample Analysis Report

Please find attached the laboratory results for the bulk analysis of the samples collected throughout the Harry Bailey Aquatic Centre located at 1110 Idylwyld Drive North in Saskatoon, SK. The samples were analyzed in our laboratory for the identification of asbestos.

The results for the bulk samples 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 me at 306 222 7477. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky
Bersch & Associates Ltd.
File: B67BLE15

Bersch & Associates Ltd.

B67BAD13

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO: B67.15****CLIENT: City of Saskatoon
Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Harry Bailey Aquatic Center - 1110 Idylwyld Drive North, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	20-Mar-13	Basement Tunnel - Mud Compound On The Small Pipeline Fitting On Green Line Adjacent Overhead Mechanical Maint. Shop Entry Door.	No Asbestos Detected		WB
2	20-Mar-13	Basement Tunnel - Mud Compound On The Small Pipeline Fitting On Yellow Line Adjacent Overhead Mechanical Maint. Shop Entry Door.	No Asbestos Detected		WB
3	20-Mar-13	B08 Mechanical Maintenance Shop - Mud Compound On The Small Pipeline Fitting On Overhead Yellow Line.	No Asbestos Detected		WB
4	20-Mar-13	B08 Mechanical Maintenance Shop - Mud Compound On The Small Pipeline Fitting On Overhead Tan Line.	No Asbestos Detected		WB
5	20-Mar-13	B08 Mechanical Maintenance Shop - Mud Compound On The Medium Pipeline Fitting On Overhead Green Line.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
6	20-Mar-13	B06 - Boiler Room - Mud Compound On The Small Damaged Pipeline Fitting On White Line Near Entry Door Adjacent Stairs.	No Asbestos Detected		WB
7	20-Mar-13	B06 - Boiler Room - Mud Compound On The Medium Pipeline Fitting On White Line On Large Fan Duct Adjacent Green Pumps.	No Asbestos Detected		WB
8	20-Mar-13	B06 - Boiler Room - Mud Compound On The Medium Pipeline Fitting On White Line On P6 Glycol Booster Pump Along North Wall.	Chrysotile	40	WB
9	20-Mar-13	B06 - Boiler Room - Mud Compound On Grey Tank "T-6".	Chrysotile	70	WB
10	20-Mar-13	B06 - Boiler Room - Rope Gasket Material From Boiler.	No Asbestos Detected		WB
11	20-Mar-13	B06 - Boiler Room -Mud Compound On The Large Pipeline Fitting On BWS Line Adjacent P-4 (Lower South Side Of Exchanger).	Chrysotile	60	WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
12	20-Mar-13	B07 - Mechanical Room - Mud Compound On "Volcano B-1" Boiler.	No Asbestos Detected		WB
13	20-Mar-13	Mezzanine Mechanical Room - Mud Compound On The Pipeline Fitting On Small Line Adjacent Ducting At 3-Foot Height On The South Side Of The Room.	No Asbestos Detected		WB
14	20-Mar-13	36 - Men's Change Room - Stipple Ceiling Texture.	No Asbestos Detected		WB
15	20-Mar-13	42 - Corridor Adjacent Spectator Stairwell - 1' x 1' Floor Tile Green With White Streak.	No Asbestos Detected		WB
16	27-Mar-15	B07 - Mechanical Room - Rope Gasket Material In Volcano B-1 Boiler North End Door.	Chrysotile	80	WB
17	27-Mar-15	B06 - Boiler Room - Compilation Of Mud Compound On The Upper Large Pipeline Fittings On The West Side Of The Boiler Adj. P11 Switch.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
18	27-Mar-15	B06 - Boiler Room - Compilation Of Mud Compound On The Upper Large Pipeline Fittings On The East Side Of Boiler.	No Asbestos Detected		WB
19	27-Mar-15	B06 - Boiler Room - Insulation On Heat Exchanger Adjacent T-6.	Chrysotile	70	WB
20	27-Mar-15	B06 - Boiler Room - Mud Compound On The Small Pipeline Fitting Along East Wall Above F11 East Of Hydro Therm-5.	No Asbestos Detected		WB
21	27-Mar-15	B06 - Boiler Room - Mud Compound Along Upper East Wall On Hydro Therm Units Exhaust Breaching.	Chrysotile	40	WB
22	27-Mar-15	B06 - Boiler Room - Mud Compound On The Small Pipeline Fitting On Domestic Water Line Along Upper East Wall to East Of Hydro Therm-5 Above F11.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
23	27-Mar-15	B06 - Boiler Room - Compilation Of Mud Compound On The Fittings On Hydro Therm Units Along Upper East Wall Above Large Ductwork.	Chrysotile	60	WB
24	27-Mar-15	B06 - Boiler Room - Compilation Of Mud Compound On The Hydro Therm Units Exhaust On Draft Hood And Insulation Junction.	Chrysotile	40	WB
25	27-Mar-15	B06 - Boiler Room - Large Section Of Lineal Pipeline Insulation Above Heat Exchanger Adj. T-6 Exposed Section White Section	No Asbestos Detected		WB
26	27-Mar-15	B06 - Boiler Room - Compilation Of Mud Compound On The Coil Fittings On The South Side Of F-11.	No Asbestos Detected		WB
27	8-Apr-15	B06 - Boiler Room - Compilation Of Mud Compound On The Overhead Fittings Above P-6 Glycol Booster Pump Along North Wall To The North Of F1/F2 Unit, North Side Of Coil Extending Upwards.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
28	8-Apr-15	B06 - Boiler Room - Mud Compound On Overhead Valve Assembly Above F2 Fan.	Chrysotile	60	WB
29	8-Apr-15	B06 - Boiler Room - Compilation Of Mud Compound On The Fittings On City Of Saskatoon Service Supply - Green And White Fitting Adj. Sprinkler System.	No Asbestos Detected		WB
30	8-Apr-15	Boiler Room Mezzanine - Gasket On Used Valve On Floor At Vertical Concrete Column In Centre Of Mezzanine Area.	Chrysotile	80	WB
31	8-Apr-15	Boiler Room Mezzanine - Compilation Of Mud Compound On The Fittings At Top Of Mezz. Stairs And Fittings In North East Corner Of Mezz. Below Upper Slab.	No Asbestos Detected		WB
32	8-Apr-15	B02 - Electrical Room - Compilation Of Mud Compound On The Fittings Throughout Room.	No Asbestos Detected		WB
33	8-Apr-15	B02 - Electrical Room - Fire-Stop Material In Upper Pipeline Penetrations In East Wall.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
34	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The Small Overhead Fittings Above F1/F2 Unit.	No Asbestos Detected		WB
35	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings & 1 Hanger Above F1/F2 Unit.	No Asbestos Detected		WB
36	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings Above Duct Above F1 Fan.	No Asbestos Detected		WB
37	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings Above Duct Above F1 Fan.	No Asbestos Detected		WB
38	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The Small Fittings Above F1 Fan Above Ducts Adj. 59 - Northeast Stairwell.	No Asbestos Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
39	15-May-15	B06 - Boiler Room - Compilation Of Mud Compound On The Large Fittings Above F1 Fan Above Ducts Adj. 59 - Northeast Stairwell.	No Asbestos Detected		WB
40	15-May-15	52 - Main Level Fan Room - Glycol Bank Mud Compound On Valve Assembly Above Pump 7 On The Side Of The Air Handling Unit.	Chrysotile	70	WB
41	15-May-15	52 - Main Level Fan Room Lineal Pipeline Insulation On Glycol Pipeline Adjacent The West Wall Adj. P4 Access Door.	No Asbestos Detected		WB
42	15-May-15	52 - Main Level Fan Room Air Handler Unit Vibration Gasket In The Center Of The Room In The Center Of The AHU.	No Asbestos Detected		WB
43	15-May-15	Mezzanine Mechanical Room Newer 80's Section Of The Facility - Compilation Sample Of The Mud Compound On The Pipeline Fittings Throughout The Room.	No Asbestos Detected		WB

APPENDIX II

ASBESTOS SURVEY DATABASE

City of Saskatoon - Harry Bailey Aquatic Center															
			SAMPLE DATA												
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of	Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location	In Area	Disturbance	Action	Comments
B	B01	Stairwell Corridor									B02 - Electrical Room - Compilation Of Mud Compound On The Fittings Throughout Room.				No Accessible ACM
B	B02	Electrical Room	Sample	B67-ASB.32	08-Apr-15	None		Pipeline Fitting Compound							No Accessible ACM
B	B02	Electrical Room	Sample	B67-ASB.33	08-Apr-15	None		Fire-Stop Material			B02 - Electrical Room - Fire-Stop Material In Upper Pipeline Penetrations In East Wall.				No Accessible ACM
B	B03	Office													No Accessible ACM
B	B04	Office													No Accessible ACM
B	B05	Staff/Lunch Room													No Accessible ACM
B	B06	Boiler Room	Sample	B67-ASB.6	20-Mar-13	None		Pipeline Fitting Compound			B06 - Boiler Room - Mud Compound On The Small Damaged Pipeline Fitting On White Line Near Entry Door Adjacent Stairs.				
B	B06	Boiler Room	Sample	B67-ASB.7	20-Mar-13	None		Pipeline Fitting Compound			B06 - Boiler Room - Medium Pipeline Fitting On White Line On Large Fan Duct Adjacent Green Pumps.				
B	B06	Boiler Room	Sample	B67-ASB.8	20-Mar-13	Chrysotile	40%	Pipeline Fitting Compound	Good	3	B06 Mud Compound On The Medium Pipeline Fitting On The White Line On P6 Glycol Booster Pump Along The North Wall.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Low	Manage	The ACM Has Been Identified In This Area On 3 Large Valve Assemblies And 1 Medium 90-fitting. The Remaining Fittings With No Red Circle Are Non Asbestos.
B	B06	Boiler Room	Sample	B67-ASB.9	20-Mar-13	Chrysotile	70%	Mud Compound	Mod/Good	3	B06 - Boiler Room - Mud Compound On Grey Tank "T-6".	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Low	Manage	At Minimum Repair all damage to "T-6" Boiler. Future Budgeting For The Removal Of The Asbestos Containing Tank Insulation Is Recommended. REPAIRED SEPT. 2015
B	B06	Boiler Room	Sample	B67-ASB.10	20-Mar-13	None		Rope Gasket Material			B06 - Boiler Room - Rope Gasket Material From Boiler End Door.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.11	20-Mar-13	Chrysotile	60%	Pipeline Fitting Compound	Moderate	3	B06 - Boiler Room -Mud Compound On The Large Pipeline Fitting On BWS Line Adjacent P-4(Lower South Side Of Exchanger).	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Moderate	Manage	
B	B06	Boiler Room	Sample	B67-ASB.17	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of The Mud Compound On The Upper Large Pipeline Fittings On The West Side Of The Boiler Adj. P11 Switch.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			

City of Saskatoon - Harry Bailey Aquatic Center																
			SAMPLE DATA													
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of		Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location		In Area	Disturbance	Action	Comments
B	B06	Boiler Room	Sample	B67-ASB.18	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Upper Large Pipeline Fittings On The East Side Of Boiler.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.19	27-Mar-15	Chrysotile	70%	Insulation	Mod/Good	3	B06 - Boiler Room - Insulation On Heat Exchanger Adjacent T-6.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Low/Mod	Manage	Remove Or Repair The Insulation On The Heat Exchanger. Removal Is The Preferred Option. REPAIRED SEPT. 2015
B	B06	Boiler Room	Sample	B67-ASB.20	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Mud Compound On The Small Pipeline Fitting Along East Wall Above F11 East Of Hydro Therm-5.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.21	27-Mar-15	Chrysotile	40%	Lineal Pipeline Insulation	Mod/Good	3	B06 - Boiler Room - Mud Compound Along Upper East Wall On Hydro Therm Units Exhaust Breaching.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Low/Mod	Manage	Mud Compound Is Present On The Lineal Fiberglass Breaching And The Fittings Along The Hydro Therm Units Exhaust System.
B	B06	Boiler Room	Sample	B67-ASB.22	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Mud Compound On The Small Pipeline Fitting On Domestic Water Line Along Upper East Wall to East Of Hydro Therm-5 Above F11.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.23	27-Mar-15	Chrysotile	60%	Pipeline Fitting Compound	Good	3	B06 - Boiler Room - Compilation Of Mud Compound On The Fittings On Hydro Therm Units Along Upper East Wall Above Large Ductwork.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation	Low	Manage	
B	B06	Boiler Room	Sample	B67-ASB.24	27-Mar-15	Chrysotile	40%	Mud Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Hydro Therm Units Exhaust On Draft Hood And Insulation Junction.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			Removal Of The Mud Compound On The Tapered End At The Draft Hood Is Recommended. The Material Is Painted But Cracking And Signs Of Slight Dislodging. REMOVED SEPT. 2015
B	B06	Boiler Room	Sample	B67-ASB.25	27-Mar-15	None		Lineal Pipeline Insulation			B06 - Boiler Room - Large Section Of Lineal Pipeline Insulation Above Heat Exchanger Adj. T-6 Exposed White Section.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.26	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Coil Fittings On The South Side Of F-11.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			

City of Saskatoon - Harry Bailey Aquatic Center																
			SAMPLE DATA													
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of		Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location		In Area	Disturbance	Action	Comments
B	B06	Boiler Room	Sample	B67-ASB.27	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Overhead Fittings Above P-6 Glycol Booster Pump Along North Wall To The North Of F1/F2 Units, North Side Of Coil Extending Upwards.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.28	27-Mar-15	Chrysotile	60%	Mud Compound			B06 - Boiler Room - Mud Compound On Overhead Valve Assembly Above F2 Fan.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			Remove The Damaged Mud Compound On 4 Pipeline Fittings On The 2 Overhead Valves Above P6. There Are An Additional 6 Medium Fittings And 1 Valve Assembly In The Overhead Area That May Be Considered For Removal When Scheduling The Initial. ALL THE FITTINGS LISTED ABOVE HAVE BEEN REMOVED IN THE OVERHEAD AREA SEPT. 2015
B	B06	Boiler Room	Sample	B67-ASB.29	27-Mar-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Fittings On City Of Saskatoon Service Supply - Green And White Fitting Adj. Sprinkler System.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.34	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Small Overhead Fittings Above F1/F2 Unit.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.35	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings & 1 Hanger Above F1/F2 Unit.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.36	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings Above Duct Above F1 Unit.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.37	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The 2 Medium Fittings Above Duct Above F1 Unit.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room	Sample	B67-ASB.38	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Small Fittings Above F1 Fan Above Ducts Adj. 59 - Northeast Stairwell.		Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			

City of Saskatoon - Harry Bailey Aquatic Center															
			SAMPLE DATA												
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of	Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location	In Area	Disturbance	Action	Comments
B	B06	Boiler Room	Sample	B67-ASB.39	15-May-15	None		Pipeline Fitting Compound			B06 - Boiler Room - Compilation Of Mud Compound On The Large Fittings Above F1 Fan Above Ducts Adj. 59 - Northeast Stairwell.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B06	Boiler Room Mezzanine	Sample	B67-ASB.30	08-Apr-15	Chrysotile	80%	Gasket Material			Boiler Room Mezzanine - Gasket On Used Valve On Floor At Vertical Concrete Column In Centre Of Mezzanine Area.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			Ensure All Gaskets Involving The Mechanical System Are Assumed To Be ACM Until Further Bulk Sampling Determines Otherwise. THE GASKET FROM THE VALVE WAS REMOVED SEPT 2015.
B	B06	Boiler Room Mezzanine	Sample	B67-ASB.31	08-Apr-15	None					Boiler Room Mezzanine - Compilation Of Mud Compound On The Fittings At Top Of Mezz. Stairs And Fittings In North East Corner Of Mezz. Below Upper Slab.	Gasket Material, Insulation, Mud Compound, Pipeline Fitting Compound, Lineal Pipeline Insulation			
B	B07	Mechanical Room	Sample	B67-ASB.12	20-Mar-13	None		Mud Compound			B07 - Mechanical Room - Mud Compound On "Volcano B-1" Boiler.	Gasket Material			
B	B07	Mechanical Room	Sample	B67-ASB.16	27-Mar-15	Chrysotile	80%	Rope Gasket Material	Mod/Good	3	B07 - Mechanical Room - Rope Gasket Material In Volcano B-1 Boiler North End Door.	Gasket Material	Low	Manage	The Removal Of The Gasket Is Recommended The Next Time The Boiler Interior Is Accessed For Servicing.
B	B08	Pool Maintenance													No Accessible ACM
B	B09	Corridor	Sample	B67-ASB.1	20-Mar-13	None		Pipeline Fitting Compound			Basement Tunnel - Mud Compound On The Small Pipeline Fitting On Green Line Adjacent Overhead Mechanical Maint. Shop Entry Door.				No Accessible ACM
B	B09	Corridor	Sample	B67-ASB.2	20-Mar-13	None		Pipeline Fitting Compound			Basement Tunnel - Mud Compound On The Small Pipeline Fitting On Yellow Line Adjacent Overhead Mechanical Maint. Shop Entry Door.				No Accessible ACM
B	B10	Office													No Accessible ACM
B	B11	Mechanical Maintenance Shop	Sample	B67-ASB.3	20-Mar-13	None		Pipeline Fitting Compound			Mechanical Maintenance Shop - Mud Compound On The Small Pipeline Fitting On Overhead Yellow Line.				No Accessible ACM
B	B11	Mechanical Maintenance Shop	Sample	B67-ASB.4	20-Mar-13	None		Pipeline Fitting Compound			Mechanical Maintenance Shop - Mud Compound On The Small Pipeline Fitting On Overhead Tan Line.				No Accessible ACM
B	B11	Mechanical Maintenance Shop	Sample	B67-ASB.5	20-Mar-13	None		Pipeline Fitting Compound			Mechanical Maintenance Shop - Mud Compound On The Medium Pipeline Fitting On Overhead Green Line.				No Accessible ACM
M	1	Vestibule													No Accessible ACM

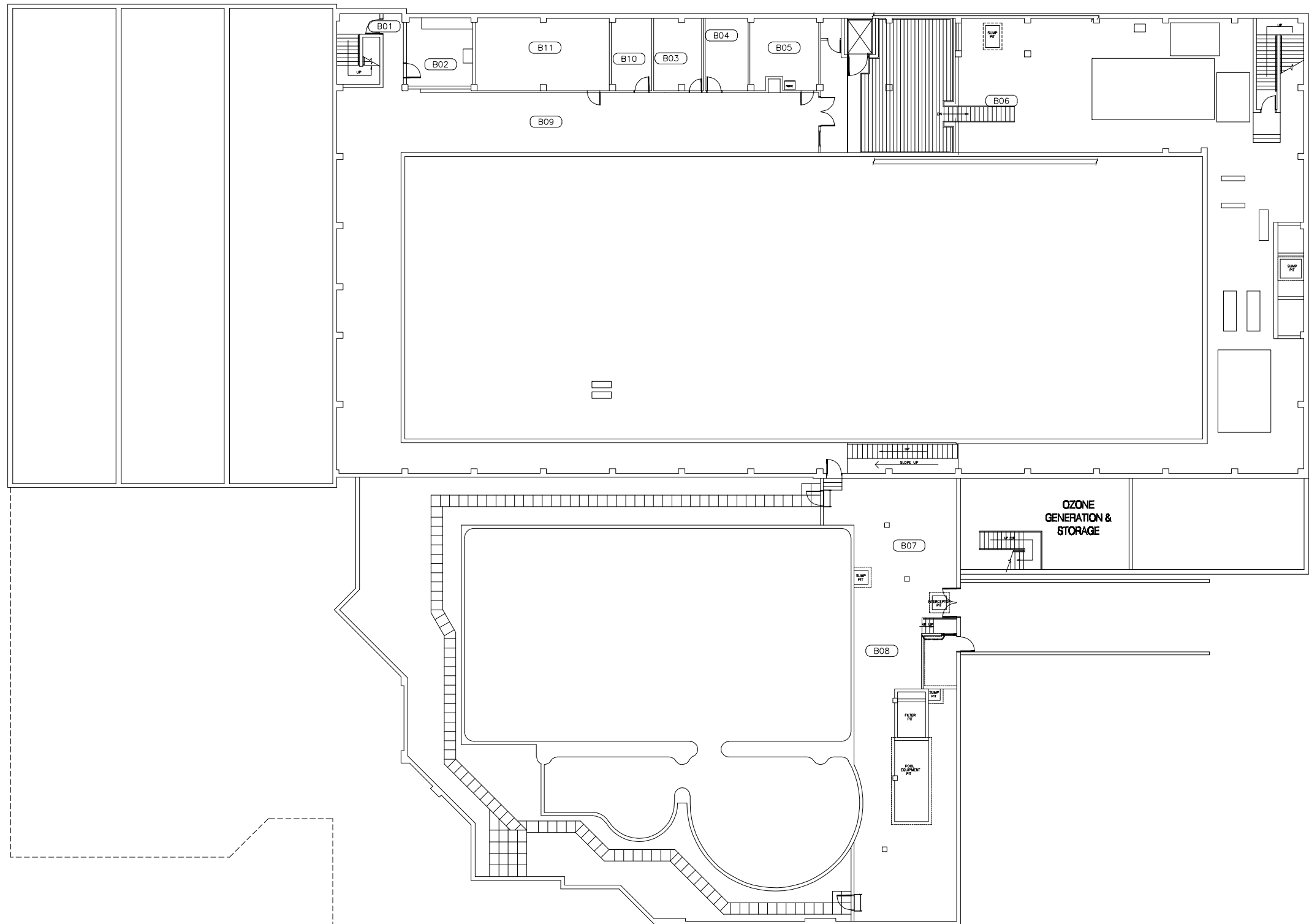
City of Saskatoon - Harry Bailey Aquatic Center															
Bersch Associates Ltd.															
			SAMPLE DATA												
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of	Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location	In Area	Disturbance	Action	Comments
M	2	Corridor													No Accessible ACM
M	3	Corridor													No Accessible ACM
M	4	Concession													No Accessible ACM
M	5	Storage													No Accessible ACM
M	6	Bathroom													No Accessible ACM
M	7	Bathroom													No Accessible ACM
M	8	Storage													No Accessible ACM
M	9	Weight Room													No Accessible ACM
M	10	Corridor													No Accessible ACM
M	11	Corridor													No Accessible ACM
M	12	Reception													No Accessible ACM
M	13	Office													No Accessible ACM
M	14	Office													No Accessible ACM
M	15	Office													No Accessible ACM
M	16	Meeting Room													No Accessible ACM
M	17	Office													No Accessible ACM
M	18	Office													No Accessible ACM
M	19	Pool Deck													No Accessible ACM
M	20	Pool Deck													No Accessible ACM
M	21	25M Pool													No Accessible ACM
M	22	Leisure Pool													No Accessible ACM
M	23	Leisure Pool													No Accessible ACM
M	24	Seating													No Accessible ACM
M	25	Whirl Pool Area													No Accessible ACM
M	26	Sauna													No Accessible ACM
M	27	Storage													No Accessible ACM
M	28	Storage													No Accessible ACM
M	29	Storage													No Accessible ACM
M	30	Office													No Accessible ACM
M	31	50M Pool													No Accessible ACM
M	32	Change Room													No Accessible ACM
M	33	Showers													No Accessible ACM
M	34	Pool Deck													No Accessible ACM
M	35	Showers													No Accessible ACM
M	36	Men's Change Room	Sample	B67-ASB.14	20-Mar-13	None		Stipple Ceiling Texture			36 - Men's Change Room - Stipple Ceiling Texture.				No Accessible ACM
M	37	Change Room													No Accessible ACM
M	38	Corridor													No Accessible ACM
M	39	Corridor													No Accessible ACM
M	40	Men's Washroom													No Accessible ACM
M	41	Women's Change Room													No Accessible ACM
M	42	Corridor	Sample	B67-ASB.15	20-Mar-13	None		Vinyl Floor Tile			42 - Corridor Adjacent Spectator Stairwell - 1' x 1' Floor Tile Green With White Streak.				No Accessible ACM
M	43	Entry													No Accessible ACM
M	44	Entry													No Accessible ACM
M	45	Vestibule													No Accessible ACM
M	46	Women's Washroom													No Accessible ACM
M	47	Men Shower													No Accessible ACM
M	48	Change Room													No Accessible ACM
M	49	Corridor													No Accessible ACM
M	50	Entry													No Accessible ACM
M	50	Washroom													No Accessible ACM

City of Saskatoon - Harry Bailey Aquatic Center															
Bersch Associates Ltd.															
			SAMPLE DATA												
	Room		SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of	Asbestos Content	Potential for	Recommended	
Floor	Number	Use	SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location	In Area	Disturbance	Action	Comments
M	51	Washroom													No Accessible ACM
M	52	Mechanical Fan	Sample	B67-ASB.40	22-May-15	Chrysotile	70%	Pipeline Fitting Compound			52 - Main Level Fan Room - Glycol Bank Mud Compound On Valve Assembly Above Pump 7 On The Side Of The Air Handling Unit.	Pipeline Fitting Compound			Remove Or Repair Of The 3 Valve Assemblies, 1 Fitting On The Lower Glycol Coil And 1 Fitting Above Pump 8. Areas Along The Insulation Has Been Damaged From Stepping On To Access The Area Behind. Removal Of All Fittings From The Room May Be Opted. THE FITTINGS HAVE BEEN REMOVED FROM THE ROOM SEPT. 2015.
M	52	Mechanical Fan	Sample	B67-ASB.41	22-May-15	None		Lineal Pipeline Insulation			52 - Main Level Fan Room - Lineal Pipeline Insulation On Glycol Pipeline Adjacent The West Wall Adj. P4 Access Door.	Pipeline Fitting Compound			
M	52	Mechanical Fan	Sample	B67-ASB.42	22-May-15	None		Gasket Material			52 - Main Level Fan Room - Air Handler Unit Vibration Gasket In The Center Of The Room At The Center Of The AHU.	Pipeline Fitting Compound			
M	53	First Aid													No Accessible ACM
M	54	Mezzanine Stairwell													No Accessible ACM
M	55	Storage													No Accessible ACM
M	56	Storage													No Accessible ACM
M	57	Storage													No Accessible ACM
M	58	Storage													No Accessible ACM
M	59	Stairwell													No Accessible ACM
Mezz		Mechanical	Sample	B67-ASB.13	20-Mar-13	None		Pipeline Fitting Compound			Mezzanine Mechanical Room - Mud Compound On The Pipeline Fitting On Small Line Adjacent Ducting At 3-Foot Height On The South Side Of The Room.				No Accessible ACM
Mezz		Mechanical	Sample	B67-ASB.43	20-Mar-13	None		Pipeline Fitting Compound			Mezzanine Mechanical Room - Compilation Of Mud Compound On The Pipeline Fittings Throughout The Room.				No Accessible ACM

APPENDIX III

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.



REV	ISSUED FOR	DATE
DESIGNED BY: DRAWN BY: CHECKED BY: REQUESTED BY:		
SCALE: 1:300 DATE:		
SHEET NAME Asbuilt		
PROJECT TITLE		
645 HBAC		
PROJECT NO.		SHEET
REV. NO.		0

- 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.

REV	ISSUED FOR	DATE
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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REQUESTED BY:
	CE/JB/MG		

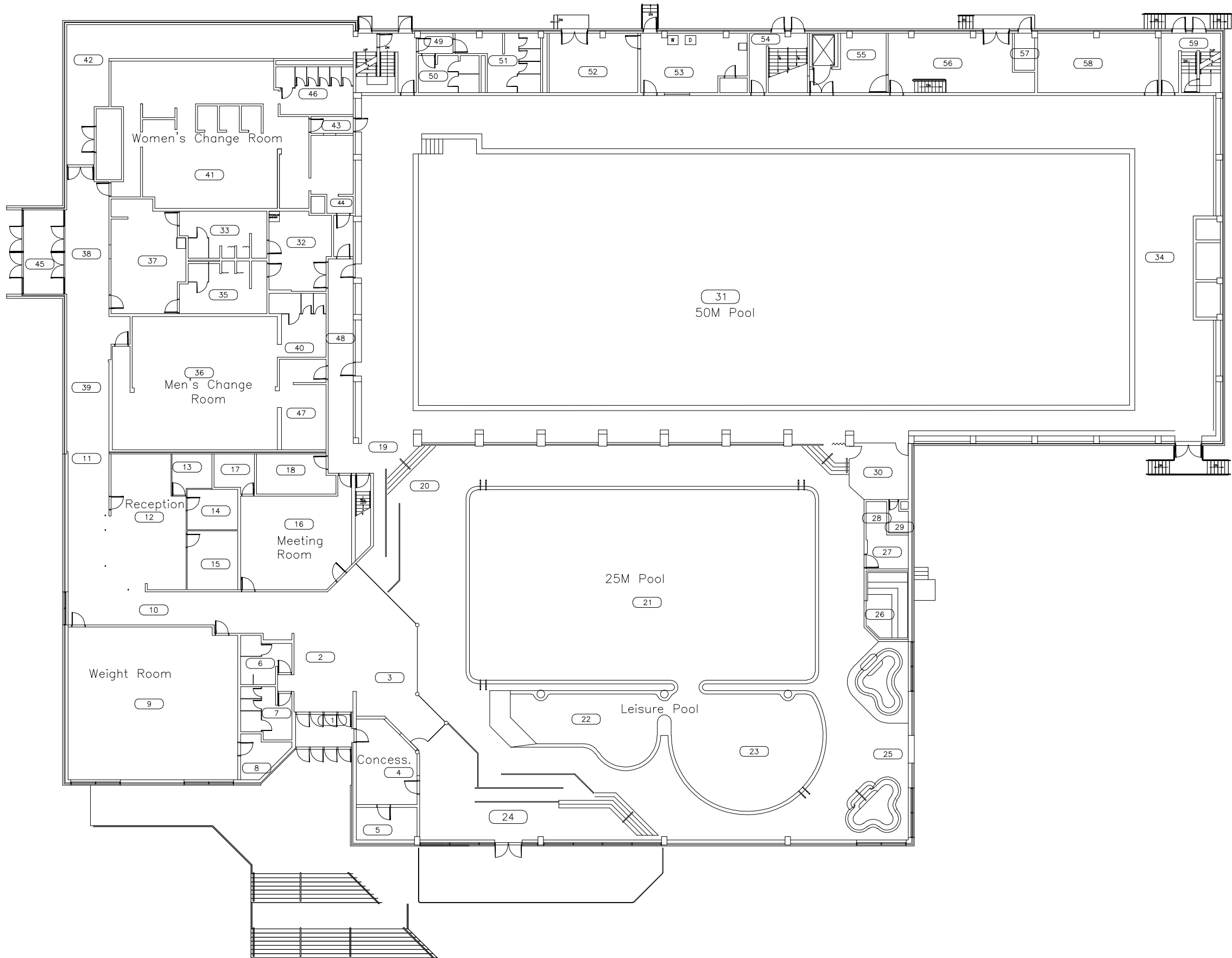
SCALE:	DATE:
1:300	2003/10/01

SHEET NAME	Asbuilt
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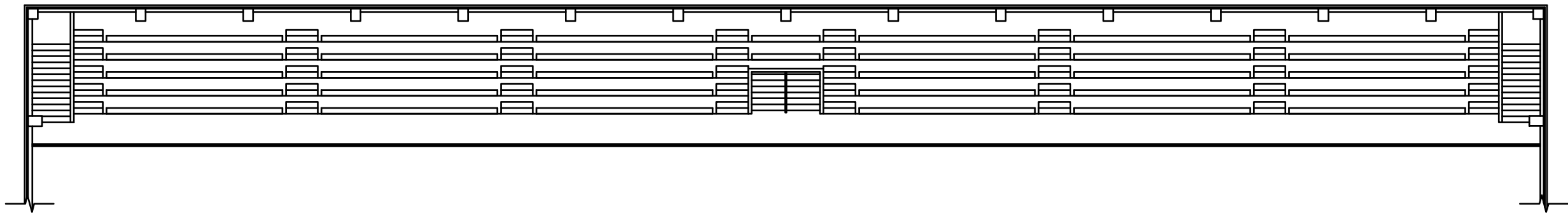
**Main Floor
Base Plan**

PROJECT TITLE
**645
Harry Bailey
Aquatic Centre**

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.



REV	ISSUED FOR	DATE
DESIGNED BY:	DRAWN BY:	CHECKED BY:
		LG
SCALE:	DATE:	
1:200	26/06/2001	
SHEET NAME		Asbuilt
Mezzanine Floor Base Plan		
PROJECT TITLE		
645 Harry Bailey Aquatic Centre		
PROJECT NO.	SHEET	
	REV. NO.	△

Bersch Consulting Ltd.

June 29, 2018

City of Saskatoon
Environmental & Corporate Initiatives
222 – 3rd Avenue North
Saskatoon, SK
S7K 0J5

ATTENTION: Blaine Knoblauch

SUBJECT: Pre-Renovation Assessment (PRA) Bulk Sample Analysis – Harry Bailey Aquatic Centre – Exterior Security Lighting Upgrade

Please find attached the laboratory results for the bulk samples collected June 17, 2018 from the HBA located at 1110 Idylwyld Drive North, Saskatoon, Saskatchewan. The samples were collected and analyzed for the identification of asbestos as part of the Pre-Renovation Assessment for the Exterior Security Lighting Upgrade project. Asbestos **was not** detected within the samples. Refer to the appendix for the photos.

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.
B67BLF17H- HBA

Bulk Sample Analysis Report

June 29, 2018

Project Number: B67.18

Client: City of Saskatoon

Contact: Blaine Knoblauch

Location: Harry Bailey Aquatic Centre – 1110 Idylwyld Drive North

File Number: B67BAF17H HBA

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2018-06-17	Beige Skim Coat	Main Entrance – Plaster on the Underside of the Overhang	No Asbestos Detected		EMSL
2	2018-06-17	Grey Base Coat	Main Entrance – Plaster on the Underside of the Overhang	No Asbestos Detected		EMSL
3	2018-06-17	Exterior Brick Mortar	Composition Sample of the Grey Mortar on the East Wall Adjacent the Main Entrance & the Wall Adjacent the North Ambulance Entry	No Asbestos Detected		EMSL
4	2018-06-17	Exterior Brick	Composition Sample of the Brick on the East Wall Adjacent the Main Entrance & the Wall Adjacent the North Ambulance Entry	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.

APPENDIX I

PHOTOGRAPHS

Photo 1: Underside of Main Entrance Overhang Plaster



Photo 2: Exterior Brick and Mortar – Adjacent Main Entrance



Bersch Consulting Ltd.

June 28, 2018

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

ATTENTION: Nick Findlay

SUBJECT: Bulk Sample Analysis Report

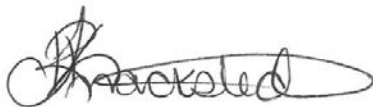
Please find attached the laboratory results for the bulk sample collected June 27, 2018 from the Harry Bailey Aquatic Center located at 1110 Idylwyld Drive North, Saskatoon, Sk. The sample was analyzed for the identification of asbestos. Asbestos **was not** detected within the sample.

The results for the sample 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,



Tyneal Knackstedt
Bersch Consulting Ltd.
B67BLF28H -Harry Bailey Aquatic Center

Bulk Sample Analysis Report

June 28, 2018

Project Number: B67.18

Client: City of Saskatoon

Contact: Nick Findlay

Location: Harry Bailey Aquatic Center

File Number: B67BAF27H

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2018/06/27	Wall Panel	Adjacent Pool and Diving Platforms	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.

BERSCH

CONSULTING LTD.

January 29, 2018

City of Saskatoon
Facilities & Fleet Division
3130 Laurier Drive
Saskatoon, SK
S7L 5J7

ATTENTION: Brent Anderson

SUBJECT: Bulk Sample Analysis Report Harry Bailey Aquatic Centre – 50 Metre Pit

Please find attached the laboratory results for the bulk samples collected on January 23, 2018 at the Harry Bailey Aquatic Centre located at 1110 Idywyld Drive, Saskatoon, Saskatchewan. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected within 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,



Tyneal Knackstedt, B.S.A., M.SEM
Bersch Consulting Ltd.
B67BLA23H- Harry Bailey Aquatic Center

Bersch Consulting Ltd.

B67BAA23H

244-2002 Quebec Avenue
Saskatoon, SK S7K 1W4

BULK SAMPLE ANALYSIS REPORT

PROJECT NO: B67.18
CLIENT: CITY OF SASKATOON
CONTACT: BRENT ANDERSON
LOCATION: HARRY BAILEY AQUATIC CENTRE

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	23-Jan-18	50 Metre Concrete Pit - Floor Concrete	No Asbestos Detected		EMSL
2	23-Jan-18	50 Metre Concrete Pit - Wall/ Ceiling Concrete	No Asbestos Detected		EMSL